

2011 Surface Work
On the
Bishop-Montana Property

Claim Name No.	Tag No.	Expiry Date	#
Farm 1 to 6	YD17716 to YD17721	22-July-12	6
IN 1 to 10	YD29081 to YD29090	15-Sep-11	10
IN 11 to 12	YD 06597 to YD 06598	15-Sep-11	2
IN 13 to 23	YC95373 to YC95383	14-Oct-11	11
IN 24 to 227	YD101504 to YD101707	4-Nov-11	204
M 1 to 7	YD132351 to YD132357	4-Mar-12	7
M 8 to 11	YD132358 to YD132361	8-Mar-12	4
M 12	YD132362	15-Mar-12	1
M13	YD132363	8-Mar-12	1
M14 to 36	YD132364 to YD132386	15-Mar-12	23
M 37 to 41	YD105947 to YD105951	15-Mar-12	5
MT 1 to 74	YD19614 to YD19687	14-Jan-13	74
MT 75 to 80	YD129075 to YD129080	15-Mar-12	6
MT 81 to 86	YD132431 to YD132436	15-Mar-12	6
MT 87 to 182	YD19700 to YD19795	14-Jan-13	96
MT 183 to 196	YD19839 to YD19852	14-Jan-13	14
MT 197 to 236	YD19799 to YD19838	14-Jan-13	40
VMS 1 to 8	YC27160 to YC27167	2-Jul-11	8
VMS 9 to 16	YC27194 to YC27201	15-Jul-11	8

Dawson Mining District, Yukon
NTS Sheets 115O10 & 115O11
63°37' N., 139°02' W.

Operated by and Recorded to



By
Mark Fekete, P.Geo.
and
Ben Dubois, B.Sc., G.I.T
March 15, 2012

Summary

In 2011 Taku Gold Corp completed a surface exploration program on the 526-claim (10,888ha) Bishop-Montana property located some 45km southeast of Dawson City, Yukon. The work included property wide soil sampling with the goal of identifying areas of anomalous gold-in-soil trends. The property is held 100% by Taku Gold Corp. subject only to a 2% Net Smelter Returns production royalty. The mineral claims included in the property are held under the Yukon Quartz Mining Act. The surface rights are held by the Crown. The work described in this report was completed as a Class 1 program.

The property is located in an isolated part of the Yukon with no local resources or infrastructure. The property can be accessed by road or by helicopter from a camp located near the property. Fuel, supplies and equipment can be trucked in from Dawson City using a network of summer roads.

The property lies within the Yukon-Tanana Terrane which, due to large areas with little or no bedrock exposure and limited modern regional or detailed mapping, remains very poorly understood. The most recent regional mapping and compilation work indicates that the majority of the Bishop-Montana claims are underlain by Devonian to Mississippian quartz-mica schist. The second most dominant lithology is Devonian to Mississippian amphibolite followed by Devonian to Mississippian Orthogneiss and small bodies of marble. The Devonian to Mississippian rocks are overlain in places by much younger Lower Cretaceous Tantalus Formation clast supported pebble to cobble conglomerate, and by Upper Cretaceous Carmacks Group volcanic rocks. Two Eocene rhyodacite stocks have been mapped just west of the Bishop claims.

Bishop-Montana lies in the underexplored Klondike-White Gold district of the loosely defined Tintina Gold Belt. Taku's exploration effort at Bishop-Montana is based on practical survey methods that generate drill targets and have led to discoveries in the area including Underworld's May 2009 discovery of the Saddle and Arc zones approximately 50km south of Bishop-Montana. Detailed geochemical surveys and closely spaced, low altitude, helicopter-borne geophysical surveys have been proven to be effective in the area. Due to the deeply weathered nature of the soils in this un-glaciated area, it is very important to take samples from the deeper C-horizon.

Previous work on Bishop-Montana is limited. The most significant work completed to date was done by Taku in 2010. This work included an airborne magnetic and radiometric survey over the Montana claims and a 5-hole drill program on the Bishop claims.

The soil geochemical survey was done by crews flown by helicopter to the property on a daily basis from Taku's Dominion Creek camp. A total of 4,828 soil samples were collected with hand augers at 50 meter sample intervals along ridge and spur traverses and on detailed grids with 50m sample intervals on lines spaced 100m apart. All sample sites were predetermined by GIS and located by GPS.

The sampling on the Bishop block identified three gold zones. The first zone covers an area of approximately 75ha and shows a 500m long, east-trending, linear zone of moderate to strong gold values up to a maximum of 92ppb Au. The second zone covers an area of approximately 75ha and shows a 500m long, north-trending, intermittent zone of moderate to strong gold values up to a maximum of 368ppb Au. The third zone covers an area of approximately 175ha and shows a circular zone 500m long in an east to west direction and 250m wide in a north to south direction. It shows moderate to strong gold values up to a maximum of 86ppb Au.

The sampling on the Montana block identified two anomalous gold clusters and four, widely scattered spot anomalies. The gold anomalies correlate well with broader area of anomalous arsenic and/or antimony and/or silver. The largest cluster of gold values shows three strong gold values of 165, 170 and 360ppb Au within an area of approximately 25ha. The second cluster of gold values covers an area of about 25ha and shows three strong gold values of 72, 93 and 123ppb Au. The first spot anomaly of 180ppb Au is found in the southeast corner of the claim block. The second spot anomaly of 309ppb Au is found on the northwestern side of Montana Creek near the western boundary of the claim block. The third spot anomaly

of 63ppb Au is found on the eastern side of Steele Fork in an area that is very anomalous with respect to arsenic, antimony and silver. Finally two very strong gold values of 2,623 and 512ppb Au were found on the ridge separating Montana and Bishop creeks.

The results from the Bishop block are the most promising as they clearly define identifiable gold trends. There is also good correlation for gold with arsenic, antimony and silver. The Montana results do not indicate any trends but do show some very high gold values. Bishop is ready to trench but requires some additional prospecting and surface sampling to confirm exact trench locations. Montana requires more prospecting and surface sampling in order to identify some trenching targets.

The 2011 surface work met its primary goal of outlining geochemical trends that may potentially be gold-bearing structures. A two-phase exploration program is recommended consisting of a first phase of prospecting and trenching followed by a 1,000m of diamond drilling in the second phase contingent on good results in the first phase. The estimated cost of the first phase is \$69,000 and the second phase is \$690,000 for a total estimated cost of \$759,000 for the two phases. These estimates include 15% for contingencies due to weather, shortage of contractors, equipment breakdown etc.

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 Bishop-Montana property on numerous occasions including most recently in September 2011;
3. I co-wrote and I am, as the senior author and qualified person, responsible for the contents of this technical report entitled "2011 Surface Work on the Bishop-Montana Property," 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 Taku Gold Corp.;
6. I hold no direct interest in the Bishop-Montana property as a result of any 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 43-10,1 and according to Form 43-101F1.

Respectfully submitted this 15th day of March 2012,

(s) "**Mark Fekete**"

Mark Fekete, P.Geol.

Certificate of Qualifications

I, Ben Dubois, having my place of residence 7 Main Street, Paris Ontario, do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from Acadia University in May 2011, 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 Bishop-Montana property most recently in September 2011;
3. I co-wrote this technical report entitled “2011 Surface Work on the Bishop-Montana Property,” 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 Taku Gold Corp.;
6. I hold no direct interest in the Bishop-Montana property as a result of any 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 43-10,1 and according to Form 43-101F1.

Respectfully submitted this 15th day of March 2012,

(s) “*Ben Dubois*”

Ben Dubois, B.Sc., G.I.T

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1. Introduction and Terms of Reference

Breakaway Exploration Management Inc. (“Breakaway”) was retained by Taku Gold. Corp. (“Taku”) to write a technical report (the “Report”) describing exploration work carried out on the Bishop-Montana property (“Bishop-Montana” or the “Property”) in Yukon in 2011. The work included property wide soil sampling with the goal of identifying areas of anomalous gold-in-soil trends that may be related to the gold bearing structures similar to Kinross’s White Gold deposit located about 60km due south of the Property.

The Report is based primarily on the results of the work completed on Bishop-Montana 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 Ben Dubois (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 NAD 83, Zone 7 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 10,888 hectares within the Dawson Mining Division of Yukon. It covers the headwater areas of Bishop, Bismarck, Montana, Steele and Stowe creeks, some 45km southeast of Dawson City (Figure 1). The approximate center of the Property is described by 63°37’ North Latitude N, 139°02’ West Longitude on N.T.S. Sheets 115O10 and 115O11. The Property includes 526 contiguous, un-surveyed mineral titles (Figure 2) more fully described in Table 1 below.

On August 20, 2010 Taku entered into a purchase and sale agreement with a local prospecting syndicate (the “Vendors”) of Dawson City, Yukon. Under the terms of the agreement, Taku agreed to purchase the 268-claim Montana property in consideration of three hundred twenty thousand (320,000) common shares and the staking costs not to exceed two-hundred and fifty dollars (\$250) per claim. The Vendors are entitled to a production royalty (the “Royalty”) consisting of two per cent (2%) Net Smelter Return (“NSR”) royalty on all smeltable minerals of metals extracted from the claims. Taku has the right to purchase one-half (or one per cent) of the Royalty for one million dollars (\$1,000,000) cash and will have the right of first refusal to purchase the remaining 1%.

The Montana property was originally staked in July 2010 as the MT 1 to 236 claims. The property was expanded by adding the VMS 1 to 16 and the M 1 to 41 claims in March 2011. The Bishop property was initially staked as the IN 1 to 12 claims in September 2010, expanded in October 2010 by the staking of the IN 13 to 23 claims and expanded again by the staking of the IN 24 to 227 claims in November 2010. In July 2011, the Farm 1 to 6 claims were staked. In September 2011 the Bishop and Montana claims were grouped to form the present Bishop-Montana property.

Table 1 - List of Claims

Claim Name No.	Tag No.	Expiry Date	#
Farm 1 to 6	YD17716 to YD17721	22-July-12	6
IN 1 to 10	YD29081 to YD29090	15-Sep-11	10
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M 37 to 41	YD105947 to YD105951	15-Mar-12	5
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MT 87 to 182	YD19700 to YD19795	14-Jan-13	96
MT 183 to 196	YD19839 to YD19852	14-Jan-13	14
MT 197 to 236	YD19799 to YD19838	14-Jan-13	40
VMS 1 to 8	YC27160 to YC27167	2-Jul-11	8
VMS 9 to 16	YC27194 to YC27201	15-Jul-11	8
Total			526

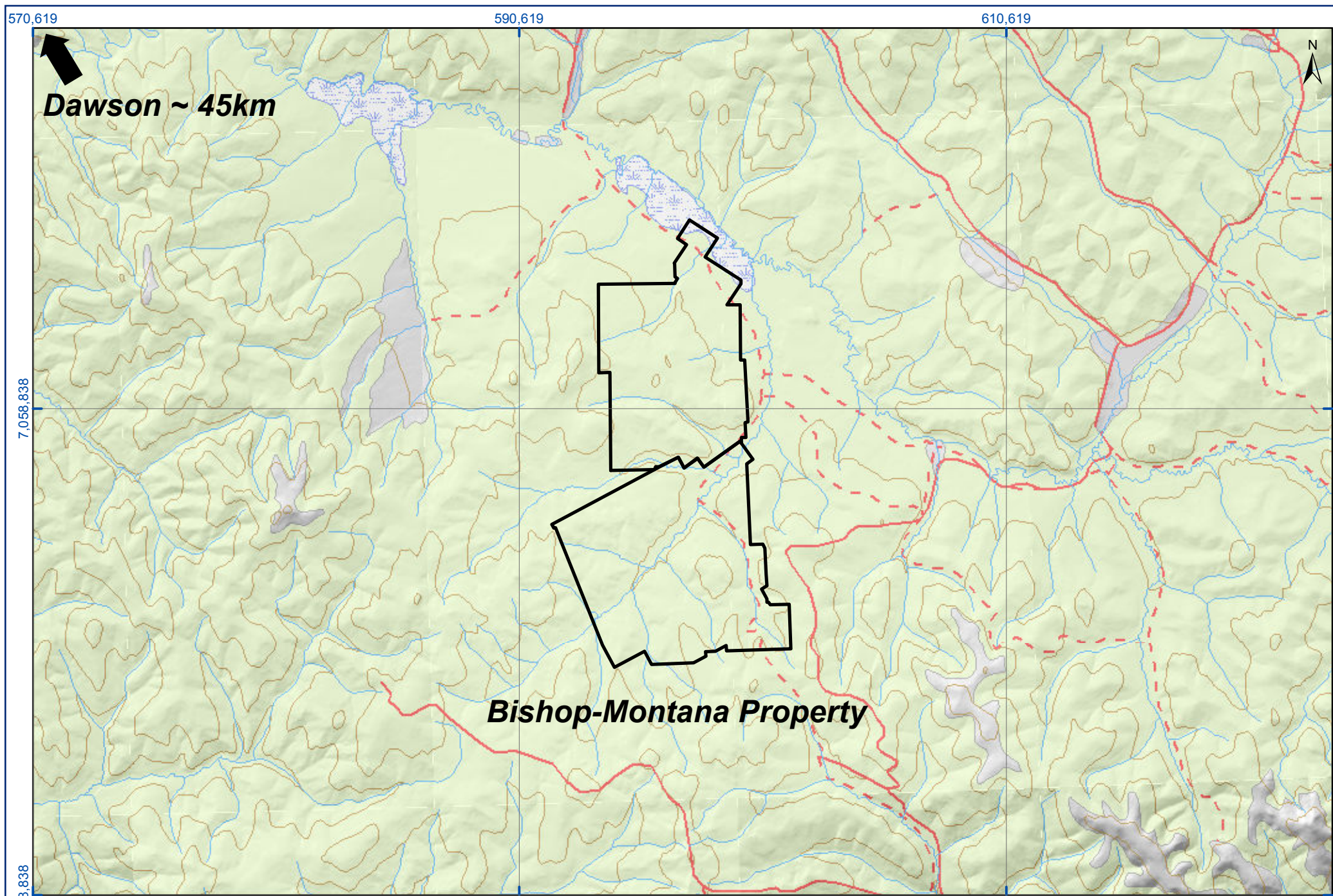
The mineral claims included in the Property were acquired under the Yukon Quartz Mining Act which grants only the hard rock mineral rights to the claim holder. The surface rights for the area of the Property are held by the Crown. To maintain the claims in good standing, a minimum of \$100 assessment 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.

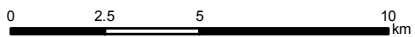
The work described in this Report was completed as a Class 1 Program.



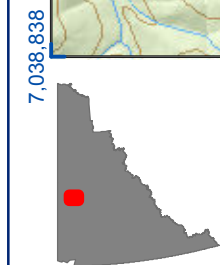
Bishop-Montana Property

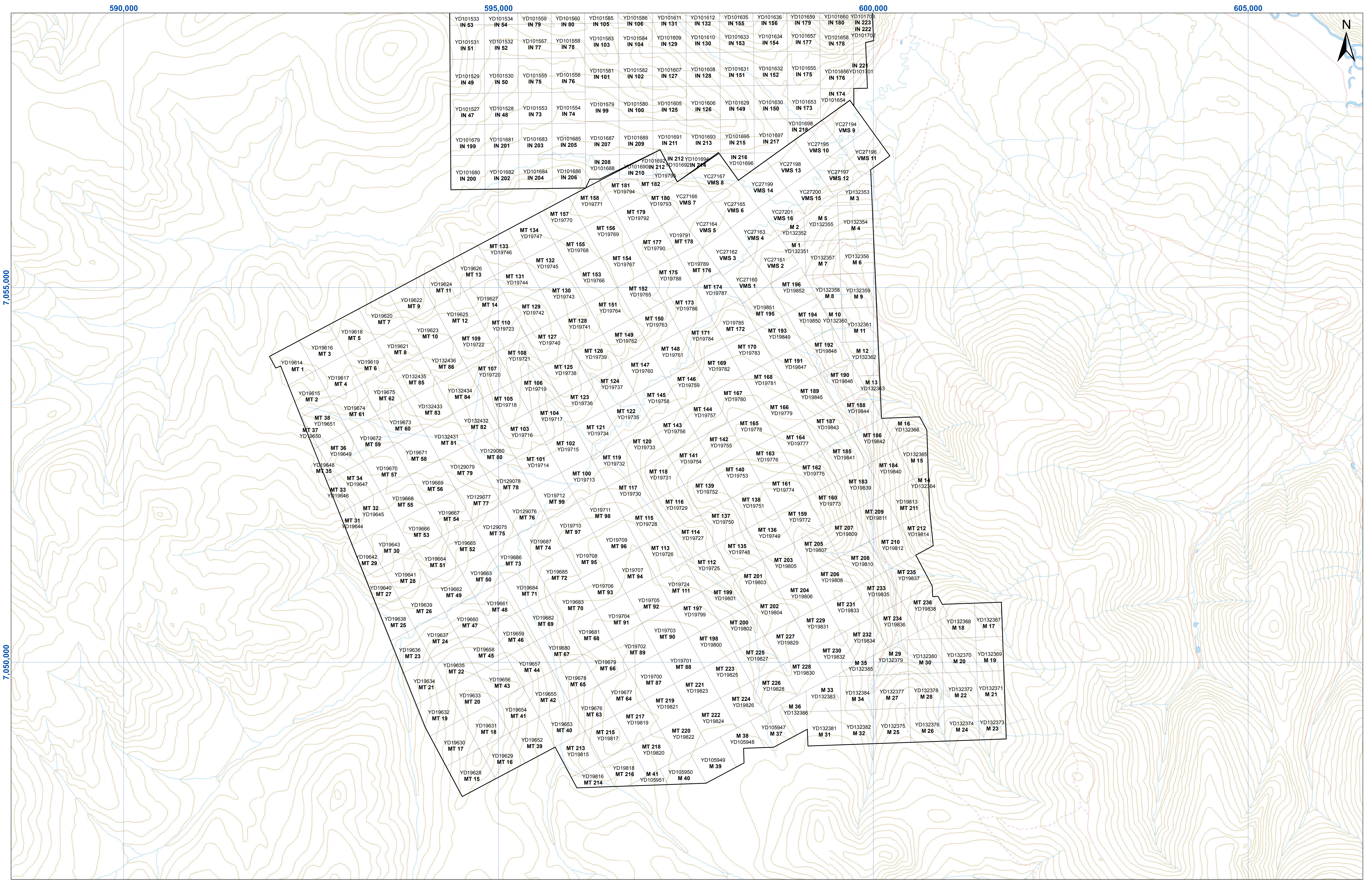
BISHOP-MONTANA PROPERTY
Figure 1. GENERAL LOCATION

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:200 000



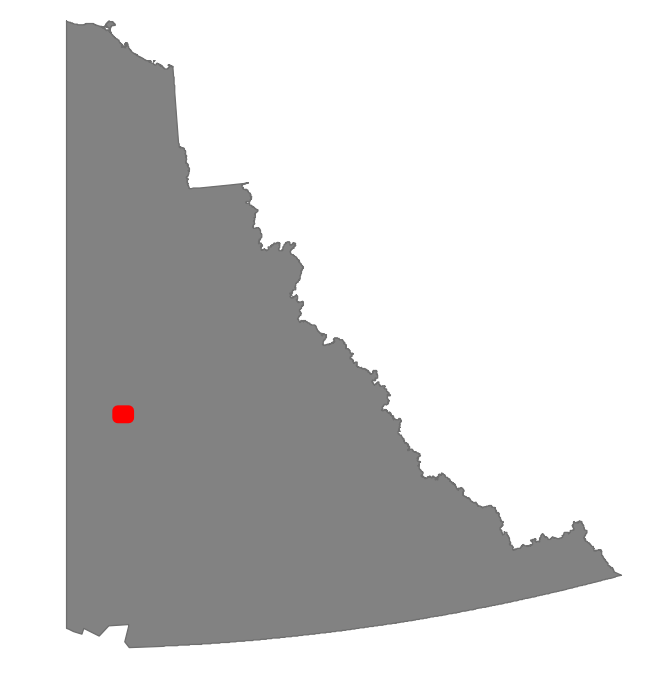
Bishop-Montana Property
Figure 1. General Location
Taku Gold Corp.
NTS Sheet: 1150
Date: November 8, 2011





BISHOP-MONTANA PROPERTY
Figure 3. CLAIM MAP MONTANA BLOCK

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:15 000



Bishop-Montana Property
 Figure 3. Claim Map Montana Block
 Taku Gold Corp.
 NTS Sheet: 115O/10 & 11
 Date: November 4, 2011

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

The Bishop claims can be accessed by a network of summer roads (Figure 1) and an ATV trail. To get to the Bishop claims from Dawson City one takes the Hunker Creek Road off the Klondike highway east of Dawson City, and then onto Quartz Creek road down to the mouth of Quartz Creek to an old sunken dredge. Just before the dredge, the road turns left and follows the Indian River upstream for approximately 9km to the Indian River Hay Farm. From the farm, an old Cat trail can be travelled by ATV for approximately 1.5km to Bishop Creek and then another 1.5km along the right limit of Bishop Creek.

The Montana claims are also accessed by a network of summer roads. To get to the Montana claims from Dawson City one takes the Hunker Creek Road, and then onto the Sulphur Creek Road to the bottom Sulphur Creek. From there on takes the Black Hills Road up onto Eureka Dome, and then onto the Montana Creek Road which follows the ridge east of Steele Creek and arrive just above the confluence of Steele and Montana creeks. This last stretch of road is very rough and steep in places and is built mostly on clay that becomes very slippery when wet. It should only be used when the weather is dry and sunny.

For the soil sampling work described in this report, crews were flown into the Property on a daily basis from Taku's Dominion Creek camp.

The Bishop-Montana property is located in an isolated part of Yukon with relatively few local resources or infrastructure. The Property should be work from an exploration camp set up on or near the Property. A camp can be supported from Dawson City, where services are limited, or from Whitehorse where a full range of services are available including line-cutting, geophysics, drilling, assaying, aircraft charters etc.

Unlike most parts of Yukon, the Dawson Range was not affected by the last period of continental glaciations and so it is characterized by low rolling hills incised with steep sided, V-shaped valleys. Bedrock is typically deeply weathered and there is very little (perhaps less than 5%) outcrop exposed; usually on ridges above tree-line or in rare canyons in the creek valleys. Elevations on the Property range from 500m to 940m above sea level. Most of the Property lies below tree-line and is covered by a typical boreal mixture of pine, spruce, balsam fir, aspen and birch trees, and willow and alder brush. North and west slopes are often covered with thick moss blanketing permafrost.

The Dawson City area is characterized by a semi-arid, sub-arctic continental climate with mild to hot summers and cold winters. Precipitation is generally light in the summer and overall clear skies and warm temperatures prevail. Heavy morning fog can be a problem for aircraft especially towards the end of the summer season. Forest fires are common and thick smoke at times may impede exploration work. Maximum snow accumulations in the winter are typically less than one meter. 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 from the Yukon Energy and Mines and Resources Library and Yukon Geological Survey MINFILE database. There has been limited exploration performed on the Bishop claims to the north and no documented exploration work has been performed on the Montana claims. Table 2 below lists all known assessment reports that describe work done adjacent to and within the boundaries of the present Property in whole or in part.

Table 2 - Previous Assessment Work Files

Company	Year	AFR No.	Author	Work	Link
Eldorado Nuclear Ltd	1983	091406	R.D. Cruickshank	Mapping, soil sampling	091406.pdf
Yukon Inc.	2002	094397	T. Morgan & V. Matkovich	Geophysics, geochem	094397.pdf
Yukon Inc	2003	094422	T. Morgan & V. Matkovich	Drilling, trenching	094422.pdf

There are only two mineral showings documented within and immediately adjacent to the area of the Property listed in Table 3 below:

Table 3 - MINFILE Showings

MINFILE No.	MINEFILE Name	Link
1150 164	Matgan	1150 164
1150 056	FotherGill	1150 056

In 1982 Eldorado Nuclear Ltd conducted an exploration program, to the west of Bishop, in search of uranium anomalies. Exploration techniques employed consisted of detailed stream water and sediment sampling, reconnaissance soil sampling, and geological mapping. Several uranium in soil anomalies were located (AFR No. 091406).

In 2001, Vern Matkovich and Tom Morgan completed line-cutting as well as basic prospecting. Samples were collected at eight locations that were trenched and blasted by hand (AFR No. 094397). This work was continued in 2002 and into 2003 with 17km of additional line-cutting followed by 9.4km of magnetic and 4.5km of VLF-electromagnetic surveys. Six auger-type drill holes totalling 59 meters were also completed in the Bishop Creek Valley (AFR No. 094422).

In 2010 Taku completed an airborne magnetic and radiometric survey over the Montana claims (Poon, 2010) and a 5-hole drill program on the Bishop claims (Fekete and Dubois, 2011).

6. Geology

The Property lies within the Yukon-Tanana Terrane which, due to large areas with little or no bedrock exposure and limited modern regional or detailed mapping, remains very poorly understood. Generally it consists of several successions of layered sedimentary and volcanic rocks ranging from Late Proterozoic to Late Permian age that overlay the older Nisling Terrane. These complexly deformed layered rocks have been episodically intruded by various intrusive rocks in the Permian, Jurassic, Cretaceous and Tertiary periods. The intrusive events have been accompanied by volcanic activity especially in the Upper Jurassic to Lower Cretaceous. The Yukon-Tanana has been subjected to numerous prolonged deformational events including subduction and accretion that has led to significant structural thickening. Imbricated allochthonous terranes such as Slide Mountain Terrane are evidenced by altered ultramafic fragments.

The Property lies within the Klondike gold district of the Stewart River Area (Figure 3). The district has been interpreted to be underlain by the Klondike assemblage (Mortensen, 1990, 1996) which is comprised of strongly deformed and altered mafic to felsic metavolcanic rocks and as well as deformed subvolcanic and plutonic equivalents, together with interlayered non-carbonaceous metasediments. This assemblage has been emplaced as a stack of three distinct thrust plates over rocks of the Late Devonian Early Mississippian Nasina assemblage.

The most recent regional mapping and compilation work in the Stewart River Area (Ryan and Gordey, 2005) indicates that the majority of the Bishop-Montana Property is underlain by Devonian to Mississippian quartz–mica schist (DMps) further described as metasedimentary rocks dominated by metapsammite, semipelite and metapelite. Quartz-garnet-biotite-muscovite schist possibly derived from siliceous siltstone is common as well as micaceous quartzite. Conglomerate is found rarely.

The second most dominant lithology is Devonian to Mississippian amphibolite (DMA) found northwest of Montana Creek. This unit consists of amphibolite schist, gneiss and metabasite. To the south east, the Montana claims are underlain by Devonian to Mississippian Orthogneiss (DMogt). The orthogneiss is mainly tonalitic or intermediate to mafic in composition, commonly banded to layered, veined and is grey in colour. Small bodies of marble have been noted within the area of the claim block (DMc).

The Devonian to Mississippian rocks are overlain in places by much younger Lower Cretaceous Tantalus Formation (IKTcg) clast supported pebble to cobble conglomerate with clasts of vein quartz and foliated

quartzite, and by Upper Cretaceous Carmacks Group volcanic (uKCv) rocks. Two Eocene rhyodacite stocks have been mapped just west of the Bishop claims.

The Tantalus Formation conglomerates have been explored for paleoplacer-type uranium and gold. Ryan and Gordey (2005) infer from a regional magnetic high (Shives et al, 2002) that uKCv rocks located at the north end of the Bishop claims. However the work done by Matkovich and Morgan (AFR #094422 & 094397) and the 2010 drilling (Fekete and Dubois, 2011) clearly show that the magnetic high is caused by an ultramafic intrusion similar to other mid- to late Paleozoic ultramafic (mPum) rocks observed elsewhere in the Stewart River Area.

The structural geology of the Property is more complex than indicated by Ryan and Gordey (2005). Strongly sheared and brecciated bedrock recently exposed by placer mining in Montana Creek suggests that there is fault running along the length of the creek.

7. Deposit Types

The Property lies within an underexplored part of the loosely defined Tintina Gold Belt. This metallurgical province has past production of 29.9 million ounces and 39.3 million ounces of resources for total gold resources of 69.2 million ounces. Notable gold deposits are Donlin Creek, Ft. Knox, Pogo and Brewery Creek. The underexplored nature of the Klondike-White Gold district was highlighted by Underworld's discovery of the Saddle and Arc zones in May 2009 on the White property located 50km south of Bishop-Montana, and more recently by the Supreme discovery on Kaminak's Coffee property located approximately 80km south of Bishop-Montana.

The Klondike-White Gold district lies within the larger Dawson Range area where a number of known gold and porphyry copper deposits show a wide range of styles, geological settings and geochemical associations. Taku's exploration effort at Bishop-Montana is not adhering to any firm deposit model but is instead based on practical survey methods that generate drill targets and have led to discoveries by other groups working in the area.

Detailed geochemical surveys have proven to be effective in the area, as shown by prospector Shawn Ryan's success on the White and Coffee properties. The Dawson Range generally shows deeply weathered, oxidized soils in a periglacial environment. This simply means that in order to collect soils that best represent the underlying bedrock it is necessary to take relatively deep soil samples that are likely less weathered and less oxidized. Another useful exploration tool is to fly closely spaced, low altitude, helicopter-borne geophysical surveys to assist in interpreting bedrock units, structure, and alteration.

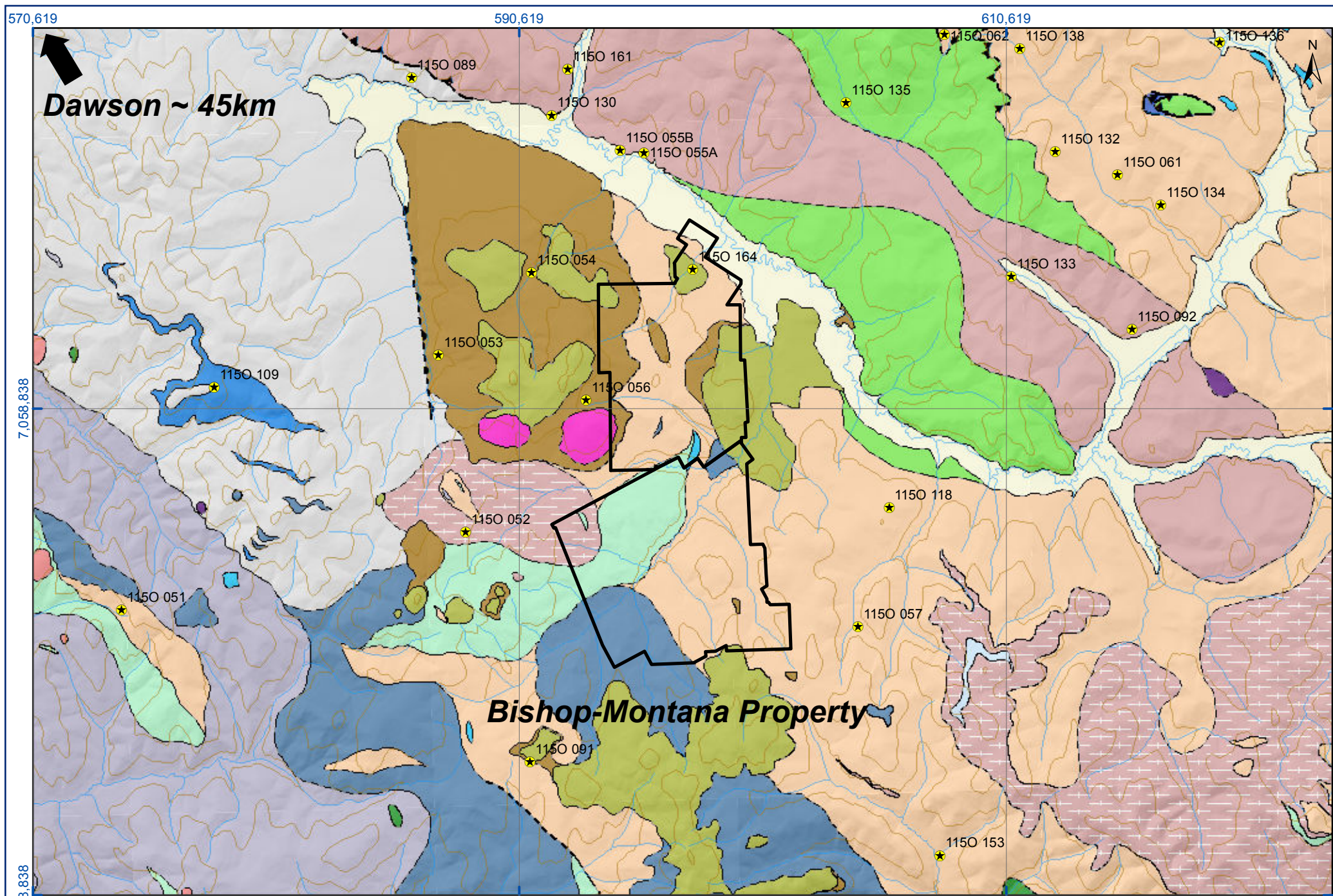
8. Mineralization

Very little *in situ* mineralization has been identified on Property to date due primarily to the lack of outcrop. The 2010 drilling (Fekete and Dubois, 2011) intersected a zone marked by shearing, quartz veins, stockworks and breccias as well as weak sulphide mineralization. This structure follows a contact between ultramafic intrusive rock and metasediments.

9. 2011 Exploration Work

9.1. Introduction

Exploration work in 2011 included a reconnaissance, ridge and spur, deep auger-type soil geochemical survey which covered the entire Property. This work was followed up with detailed grids over selected areas. The field work, supervised by the Senior Author, commenced on June 3, 2011 and was completed on August 16, 2011. Analytical work was done by ACME Labs from June 10 to November 20, 2011. A detailed Statement of Work is included herein as Appendix A. The Junior Author compiled the field data into digital maps and wrote this Report up to March 15, 2012.



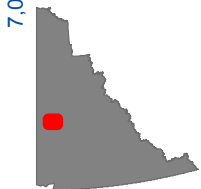
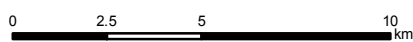
Dawson ~ 45km

Bishop-Montana Property

★ Mineral Occurrence



**BISHOP-MONTANA PROPERTY
Figure 4. REGIONAL GEOLOGY**

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:200 000




Bishop-Montana Property
Figure 4. Regional Geology
Taku Gold Corp.
NTS Sheet: 1150
Date: November 8, 2011

QUATERNARY

	Qs Fluvial silt, sand and gravel
	Qb Basalt

TERTIARY

	Ts Conglomerate, sandstone, shale
-----------------------------------------------------------------------------------	--------------------------------------

DEVONIAN TO MISSISSIPPIAN?

	DME Earn group
-----------------------------------------------------------------------------------	-------------------

TERTIARY EOCENE

	Er Porphyry
-----------------------------------------------------------------------------------	----------------

CRETACEOUS


UPPER CRETACEOUS

	uKcV Carmacks Group
-----------------------------------------------------------------------------------	------------------------

MID?-CRETACEOUS

	Kg/Kgd Granite/Granodiorite
-----------------------------------------------------------------------------------	--------------------------------

LOWER CRETACEOUS

	IKTcg Tantalus(?) Formation
-------------------------------------------------------------------------------------	--------------------------------


JURASSIC

EARLY JURASSIC

	EJgd Granodiorite
-------------------------------------------------------------------------------------	----------------------

TRIASSIC

LATE TRIASSIC

	LTrum Pyroxene Mountain Body
-------------------------------------------------------------------------------------	---------------------------------

PALEOZOIC AND/OR MESOZOIC

	PMd Gabbro
-------------------------------------------------------------------------------------	---------------

CARBONIFEROUS


	CD Dawson-Clinton Creek Assemblage
-------------------------------------------------------------------------------------	---------------------------------------


MID(?) - TO LATE PALEOZOIC


	mPum/mPums Ultramafic-Gabbro
-------------------------------------------------------------------------------------	---------------------------------

PERMIAN

	Pv Foliated volcanic
-----------------------------------------------------------------------------------	-------------------------


	PKs Klondike Schist
-----------------------------------------------------------------------------------	------------------------


	Pg Jim Creek Pluton
-----------------------------------------------------------------------------------	------------------------

	Pogg, Pogq/Poga Pogt Orthogneiss (Younger, 264-259 Ma)
-----------------------------------------------------------------------------------	--------------------------------------------------------------

DEVONIAN TO MISSISSIPPIAN

	DMNq/DMNI Nasina Assemblage
-----------------------------------------------------------------------------------	--------------------------------


	DMogg/DMoga DMogt Orthogneiss (Older, 363-343 Ma)
-----------------------------------------------------------------------------------	---------------------------------------------------------

	DMogta Undivided DMogt (Orthogneiss (older)) and DMA (Amphibolite)
-----------------------------------------------------------------------------------	--------------------------------------------------------------------------

	DMA Amphibolite
-----------------------------------------------------------------------------------	--------------------

	DMm Mafic schist
-----------------------------------------------------------------------------------	---------------------

	DMc Marble
------------------------------------------------------------------------------------	---------------

	DMps Quartz-Mica schist
-------------------------------------------------------------------------------------	----------------------------

	DMcg Metaconglomerate
-------------------------------------------------------------------------------------	--------------------------

	DMq Quartzite
-------------------------------------------------------------------------------------	------------------

SYMBOLS

 Geological contact
(defined, approximate, assumed)

 Fault, sense of movement uncertain
(defined, approximate, assumed)

 Fault, transcurrent, dextral
(approximate)

 Fault, thrust (teeth on upper plate)
(defined, approximate, assumed)

 Fault, normal (teeth on upper plate)
(defined, approximate, assumed)

 Fault, low-angle normal
(teeth on upper plate)
(approximate, assumed)

Figure 3 continued. Legend for Regional Geology

590,000

595,000

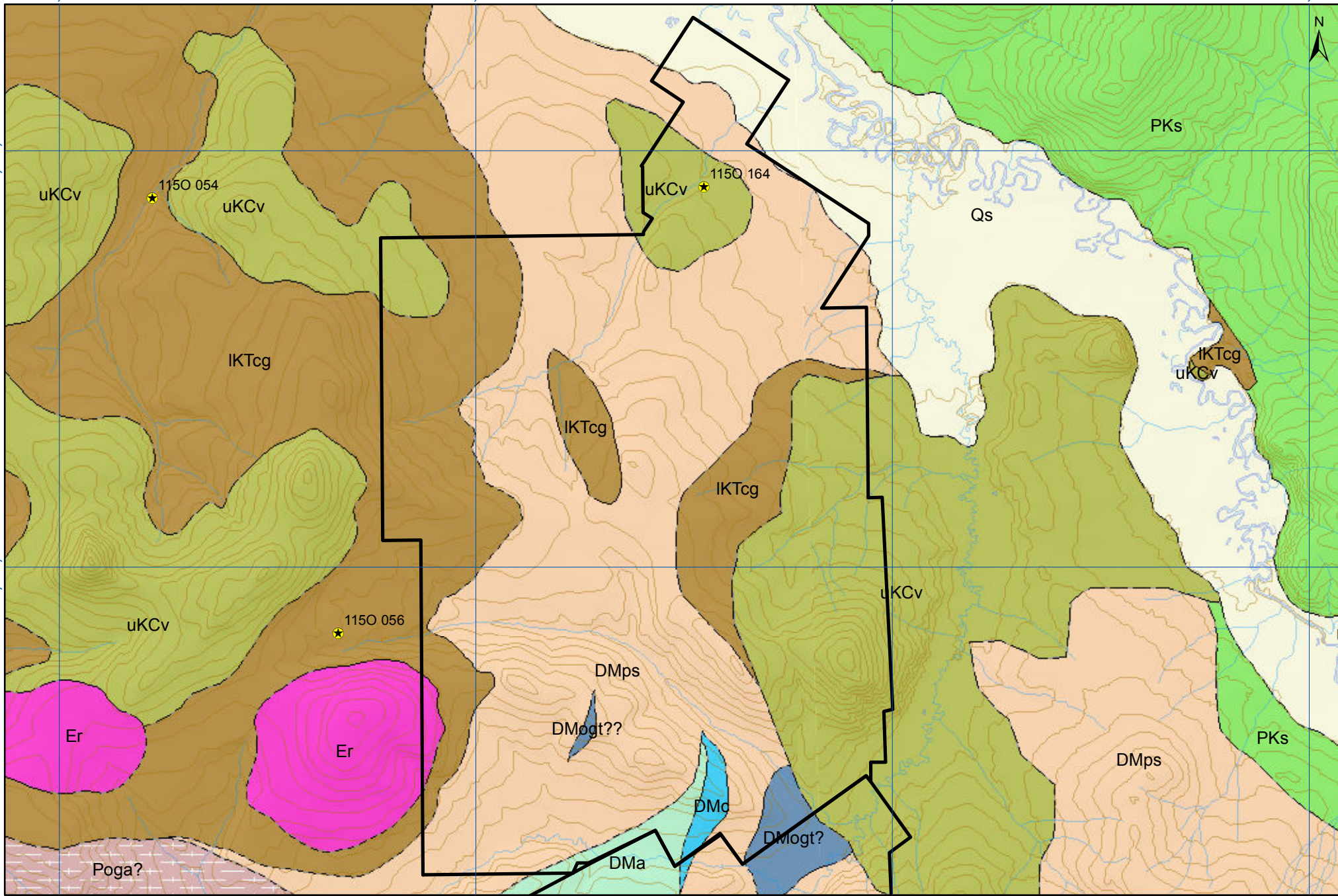
600,000

605,000



7,065,000

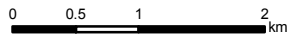
7,060,000



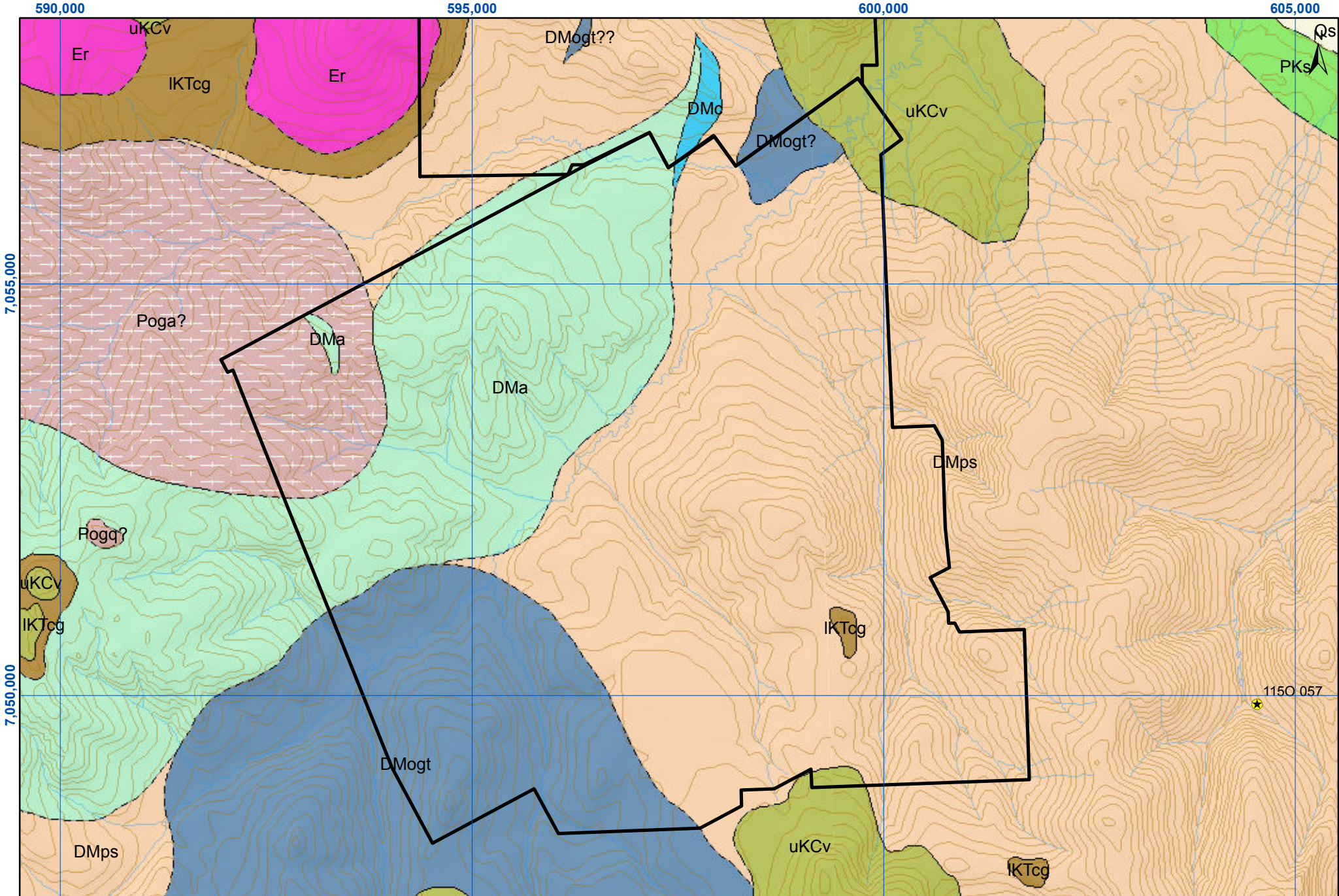
★ Mineral Occurrence

BISHOP-MONTANA PROPERTY
Figure 5. PROPERTY GEOLOGY BISHOP BLOCK

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:60 000



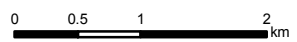
Bishop-Montana Property
 Figure 5. Property Geology Bishop Block
 Taku Gold Corp.
 NTS Sheet: 1150/10 & 11
 Date: November 8, 2011



★ Mineral Occurance

BISHOP-MONTANA PROPERTY
Figure 6. PROPERTY GEOLOGY MONTANA BLOCK

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:60 000



Bishop-Montana Property
 Figure 5. Property Geology Montana Block
 Taku Gold Corp.
 NTS Sheet: 1150/10 & 11
 Date: November 8, 2011

9.2. Sampling and Analytical Procedures

The soil geochemical survey was done by crews flown by helicopter to the Property on a daily basis from Taku's Dominion Creek camp. A total of 4,828 soil samples were collected with hand augers at 50 meter sample intervals along ridge and spur traverses and on detailed grids with 50m sample intervals on lines spaced 100m apart. All sample sites were predetermined by GIS and located by GPS.

Sample locations were flagged 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 WGS 84 Zone 7. Sample locations (Figure 7 & 8) and descriptions are included as Appendix B. A data CD is also included. Soil sample material varied from clay to sand with some humus samples. Sample depth varied from 57 to 120cm with an average depth of 55cm.

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 drill core, 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 for soil and rock samples provided by Acme. Independent verification of those results has not been undertaken. The Authors reconciled the field data with the analytical results and found three discrepancies (Samples 117974, 146399 and 103159) where a sample was apparently taken but not analyzed. Accordingly these three samples were eliminated from the database.

9.4. Results

The initial ridge and spur sampling identified three anomalous areas on the Bishop claims at the headwaters of Bishop Creek (Figure 9). These areas were subsequently grid sampled and three strong clusters of moderate to high gold-in-soil were defined (Figure 10) as well as elevated arsenic values. The first grid covers an area of approximately 75ha and shows a 500m long, east-trending, linear zone of moderate to strong gold values up to a maximum of 92ppb Au. The second grid lies roughly 1400m due north of the first grid. It covers an area of approximately 75ha and shows a 500m long, north-trending, intermittent zone of moderate to strong gold values up to a maximum of 368ppb Au. The third grid lies roughly 1800m due east of the first two grids. It covers an area of approximately 175ha and shows a circular zone 500m long in an east to west direction and 250m wide in a north to south direction. It shows moderate to strong gold values up to a maximum of 86ppb Au. This zone is on the north slope of a prominent hill and it seems certain that the source of the gold values is on the north side just below the summit of the hill.

The initial ridge and spur sampling identified numerous scattered spot gold anomalies on the Montana claims (Figure 11). These spot anomalies were associated with broader arsenic, antimony and silver anomalies that were used to plan detailed sampling grids.

The grid sampling outlined two anomalous gold clusters and four, widely scattered spot anomalies (Figure 10). The largest cluster of gold values is found at the south end of the Montana block on the west side of Steele Creek and shows three strong gold values of 165, 170 and 360ppb Au within an area of approximately 25ha. This area is also highly anomalous with respect to arsenic (Figure 12). The second cluster of gold values is located approximately 2700m southwest of the first and covers an area of about 25ha. It shows three strong gold values of 72, 93 and 123ppb Au and also shows highly anomalous antimony values (Figure 13). The first spot anomaly of 180ppb Au is found in the southeast corner of the claim block. This area is also marked by strong arsenic, antimony and silver values (Figure 14). The second spot anomaly of 309ppb Au is found on the northwestern side of Montana Creek near the western

boundary of the claim block. The third spot anomaly is found on the eastern side of Steele Fork near the eastern boundary of the claim block. Only one strong gold value of 63ppb Au was found here but the area is very anomalous with respect to arsenic, antimony and silver. In particular, almost every sample taken in this area returned highly anomalous arsenic. Finally two very strong gold values of 2623 and 512ppb Au were found on the ridge separating Montana and Bishop creeks. At least five strong arsenic values were also returned from this area.

10. Adjacent Properties

No lode gold deposits are known to exist on the properties immediately adjacent to the Property. There are three active placer operations on or immediately adjacent to the Bishop-Montana claim blocks. Significant gold mineralization has been reported approximately 50km south of Bishop-Montana at Kinross's White Gold deposit with a current resource estimation at the Golden Saddle zone of 1,004,570 indicated ounces at 3.2gpt Au and 407,413 inferred ounces at 2.5gpt Au; and at the Arc Zone of 170,470 inferred ounces at 1.2gpt Au (Underworld Press Release - January 19, 2010). Kaminak's discovery hole of 15.5m over 17.1gpt Au at the Supremo zone (Kaminak Press Release - May 26, 2010) is located approximately 80km south of Bishop-Montana.

The Authors have not verified the information made public on these adjacent properties and caution that **any such information is not necessarily indicative of the mineralization on the Bishop-Montana property.** However, this information does indicate that the White Gold district is an underexplored area that has solid potential for hosting significant gold deposits.

11. Mineral Processing and Metallurgical Testing

To date no mineral processing or metallurgical testing has been completed at Bishop-Montana.

12. Mineral Resource and Mineral Reserve Estimates

To date no mineral resource or mineral reserve estimates have been completed at Bishop-Montana. 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

The results from the Bishop block are the most promising as they clearly define identifiable gold trends. There is also good correlation for gold with arsenic, antimony and silver. Overall the three gold zones found on Bishop are very good exploration targets that are ready to trench. Some additional prospecting and surface sampling is required to confirm exact trench locations.

The Montana results do not indicate any trends but do show some very high gold values often with corresponding anomalous arsenic and/or silver and/or antimony values. Detailed prospecting and sampling is required in these areas. These areas are not ready to trench at this point, but the prospecting work may identify some trenching targets.

15. Recommendations

The surface work met its primary goal of outlining geochemical trends that may potentially be gold-bearing structures. It is the Authors' opinion that the Bishop-Montana property is of sufficient merit to recommend that surface exploration work continue. A two phase exploration program is recommended consisting of a first phase of prospecting and trenching followed by a 1000m of diamond drilling in the second phase contingent on good results in the first phase. The estimated cost of the first phase is \$69,000 and the second phase is \$690,000 for a total estimated cost of \$759,000 for the two phases. These estimates

include 15% for contingencies due to weather, shortage of contractors, equipment breakdown etc. The recommended program is outlined in the following table.

Table 4 - Cost Estimate for Recommended Work

Phase I - Surface Work				
Prospecting	5	days @	\$5,000.00	\$25,000.00
Trenching	7	days @	\$5,000.00	\$35,000.00
Contingency ~15%				\$9,000.00
Phase I Total				\$69,000.00
Phase II - Drilling				
Drilling	1000	m @	\$600.00	\$600,000.00
Contingency ~15%				\$90,000.00
Phase II Total				\$690,000.00
Phase I & II Total				\$759,000.00

16. References

Fekete, M. and Dubois, B. (2011): 2010 drilling on the Bishop property (unpub.)

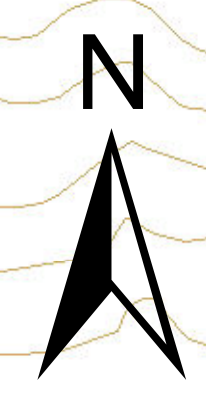
Gordey, S.P. and Ryan, J.J. (2005): Geology, Stewart River Area (115 N, 115-O and part of 115 J), Yukon Territory; Geological Survey of Canada, Open File 4970, scale 1:250 000.

Mortensen, J.K. (1996): Geological compilation maps of the northern Stewart River map area, Klondike and Sixtymile Districts (115N/15, 16; 115O/13, 14; and parts of 115O/15, 16). Exploration and Geological Services Division, Yukon region, Indian and Northern Affairs Canada, Open File 1996-1 (G).

Poon, J. (2010): Airborne geophysical survey report on the Montana property (unpub.)

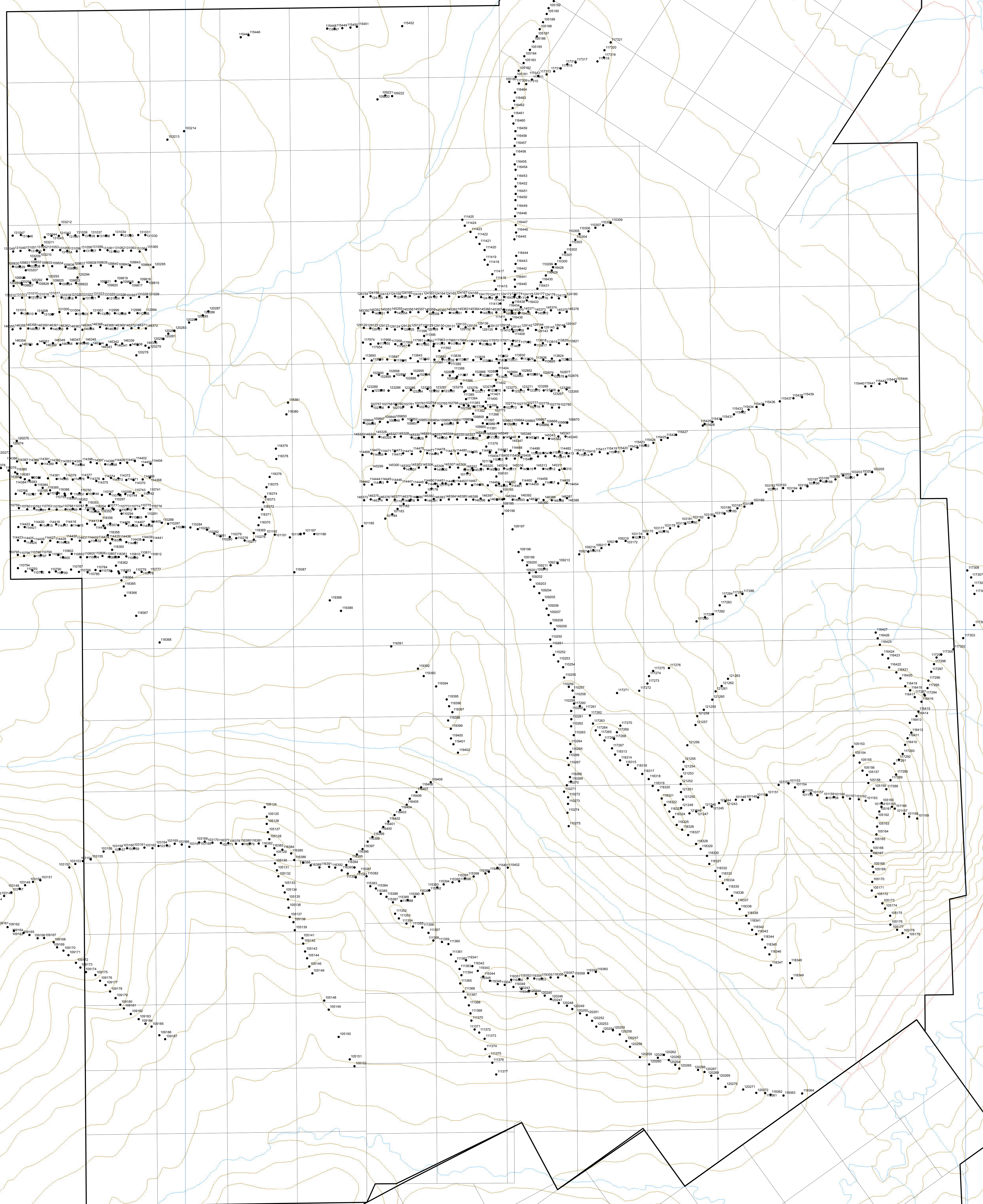
595,000

600,000



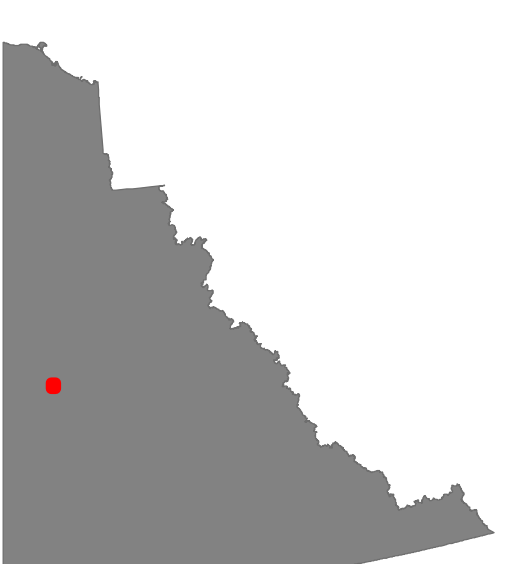
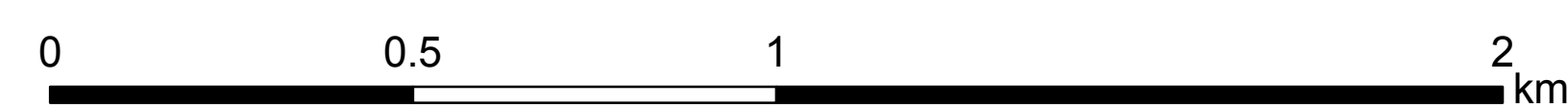
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7,060,000

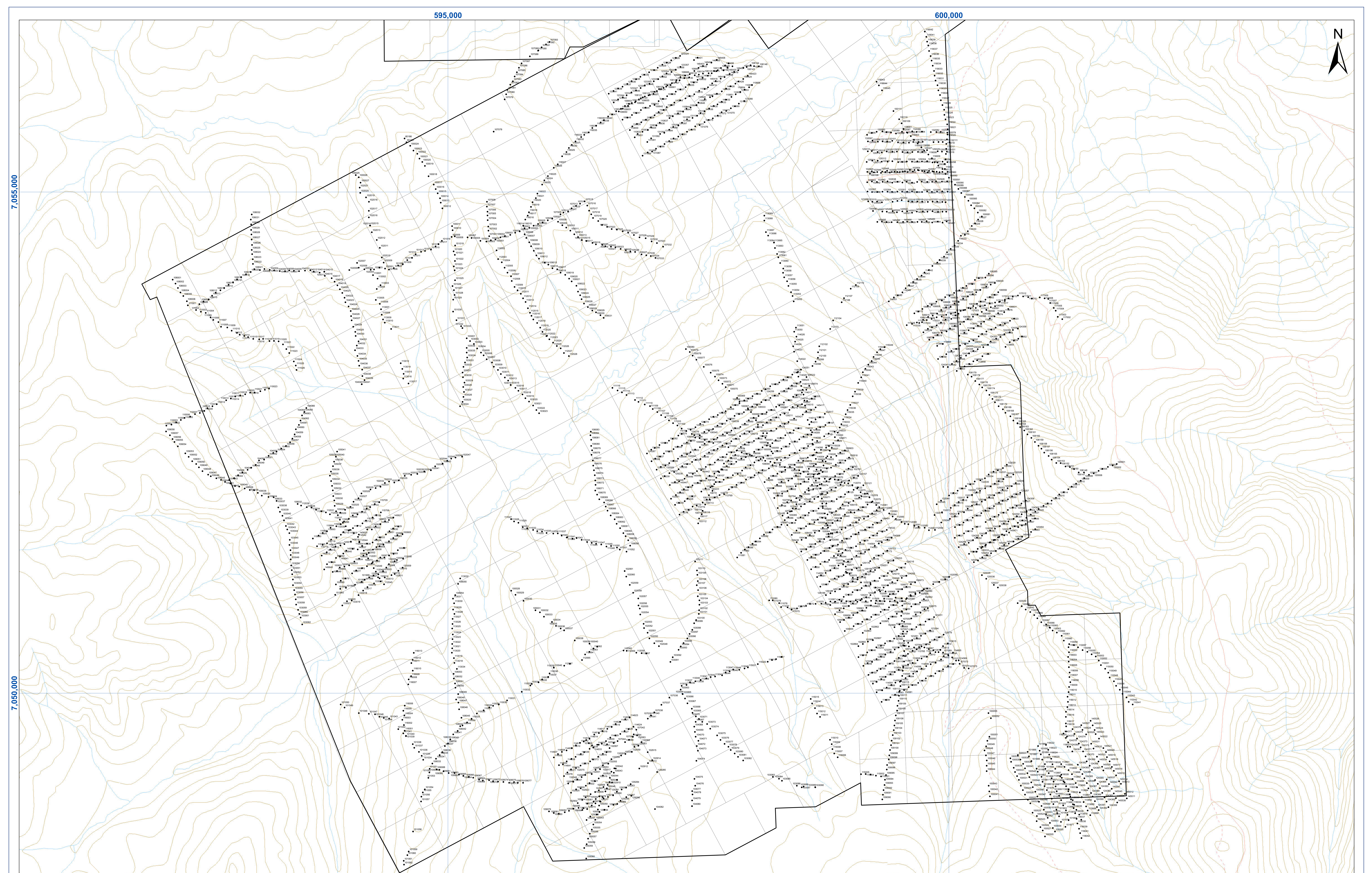


BISHOP-MONTANA PROPERTY
Figure 7. SAMPLE LOCATIONS BISHOP BLOCK

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:10 000

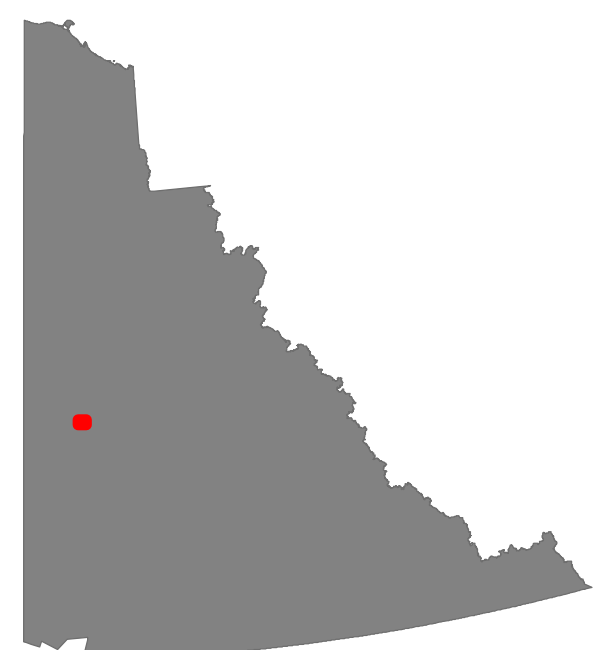
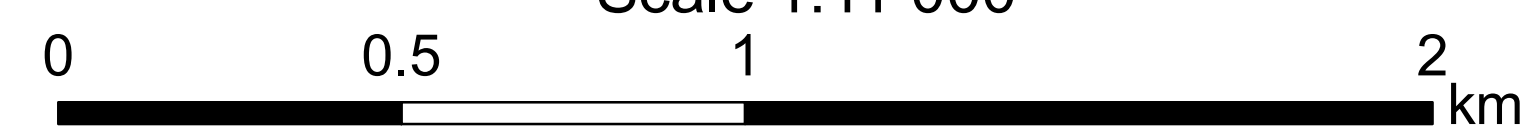


Bishop-Montana Property
 Figure 7. Sample Locations Bishop Block
 Taku Gold Corp.
 NTS Sheet: 1150/10 & 11
 Date: November 5, 2011

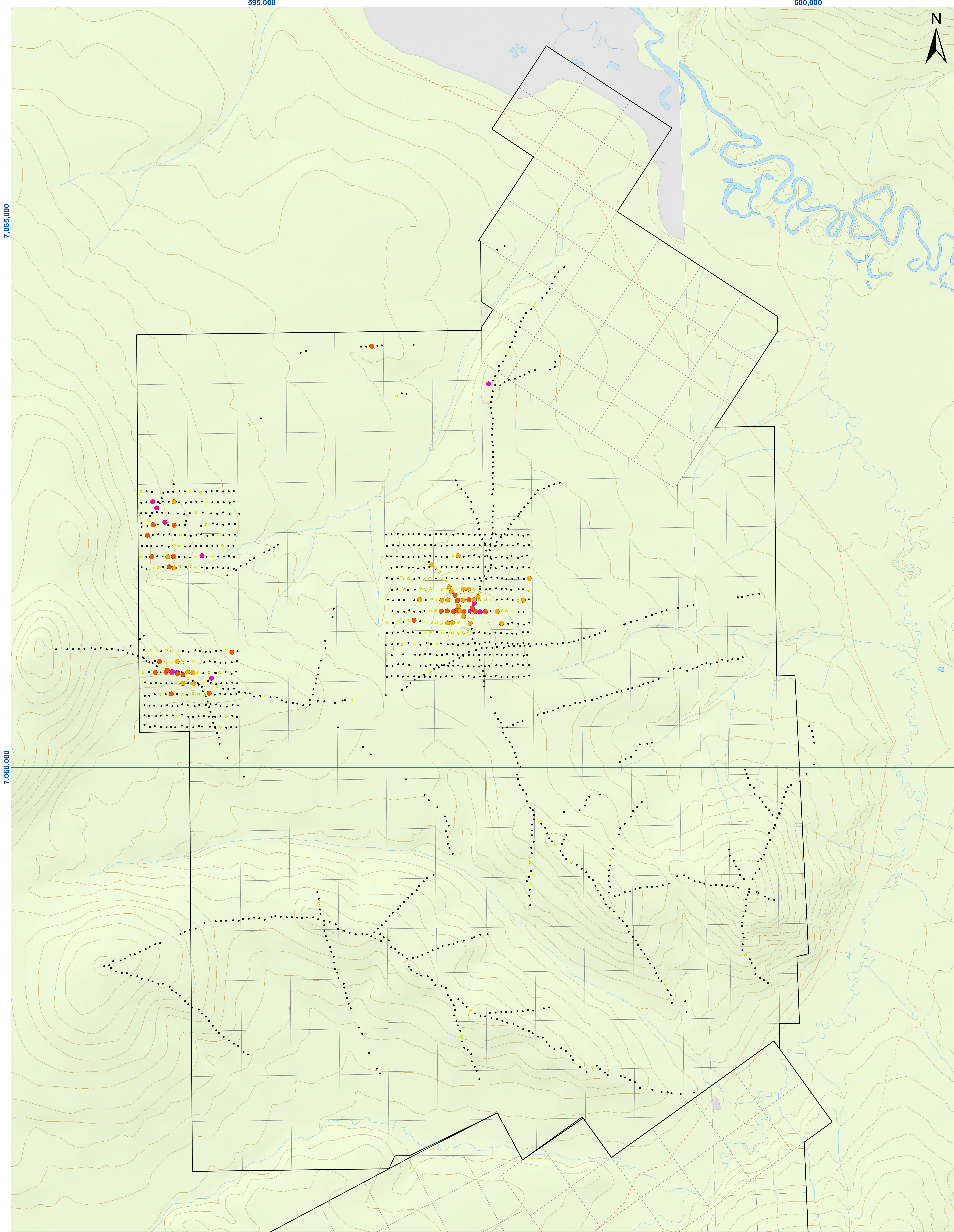


BISHOP-MONTANA PROPERTY
Figure 8. SAMPLE LOCATIONS MONTANA BLOCK

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:11 000



Bishop-Montana Property
Figure 8. Sample Locations Montana Block
Taku Gold Corp.
NTS Sheet: 115O/10 & 11
Date: November 5, 2011

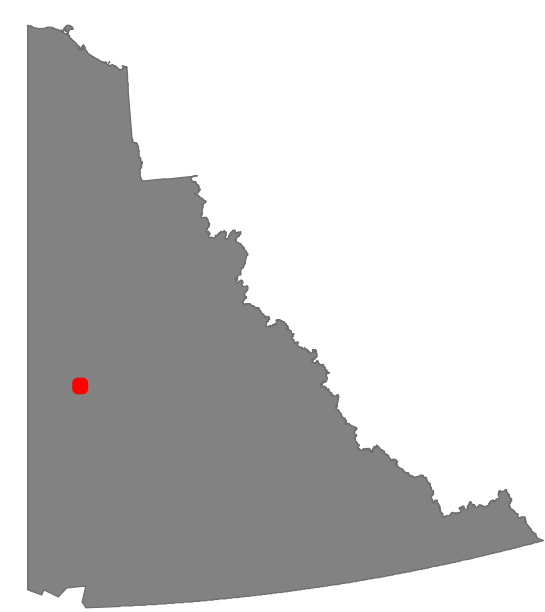


Soil Au ppb

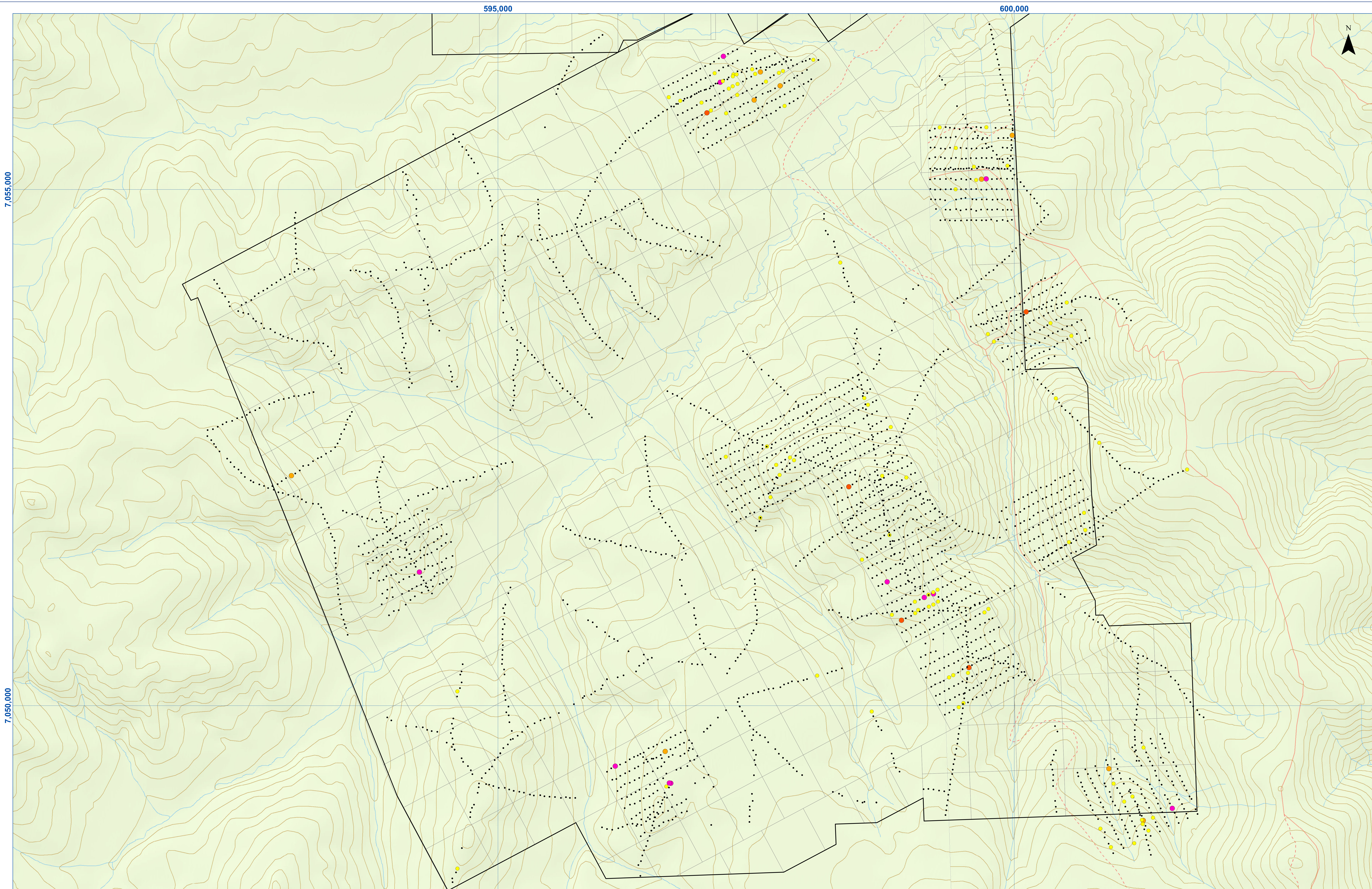
- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 60
- > 60

BISHOP-MONTANA PROPERTY
Figure 9. DETAILED GOLD ANOMOLY MAP BISHOP BLOCK

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:10 000



Bishop-Montana Property
 Figure 9. Detailed Gold Anomaly Map Bishop Block
 Taku Gold Corp.
 NTS Sheet: 1150/10 & 11
 Date: November 5, 2011

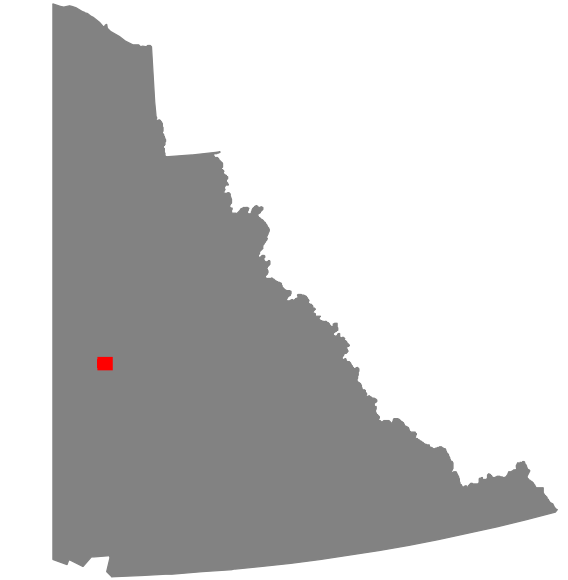


7,055,000

7,050,000

595,000

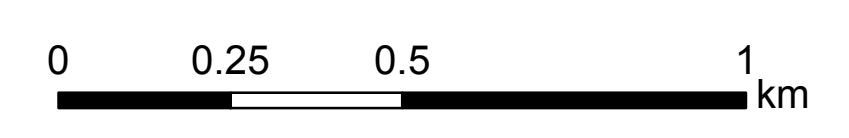
600,000



- Soil Au ppb**
- 0 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 60
 - > 60

BISHOP-MONTANA PROPERTY
Figure 10. DETAILED GOLD ANOMOLY MAP MONTANA BLOCK

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:11 000

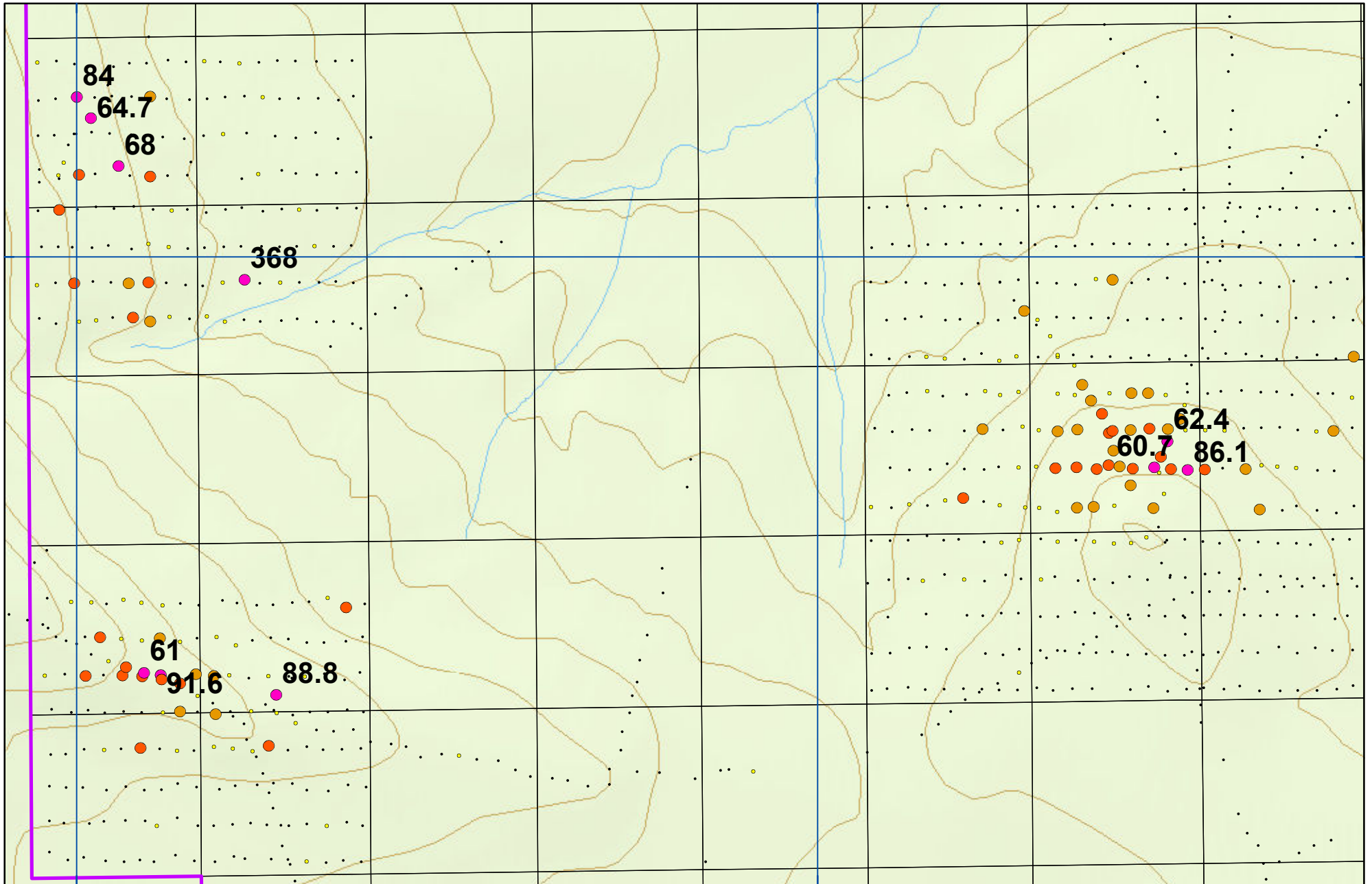


Bishop-Montana Property
 Taku Gold Corp.
 NTS Sheet: 115O/10&11
 Date: November 27, 2011

594000

596000

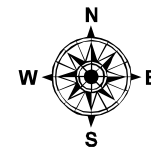
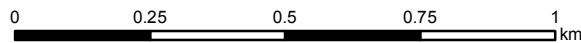
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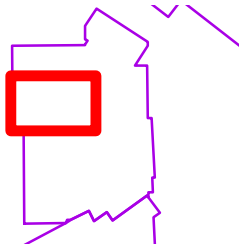
- Soil Au ppb**
- 0 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 60
 - > 60
- Taku Property
 - Taku Claims
 - Main
 - Trail
 - Watercourse
 - Waterbody
 - Vegetation

**BISHOP
GOLD RESULTS**

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:14 000



Bishop Gold Results
NTS Sheet: 1150/10&11
Date: October 7, 2011

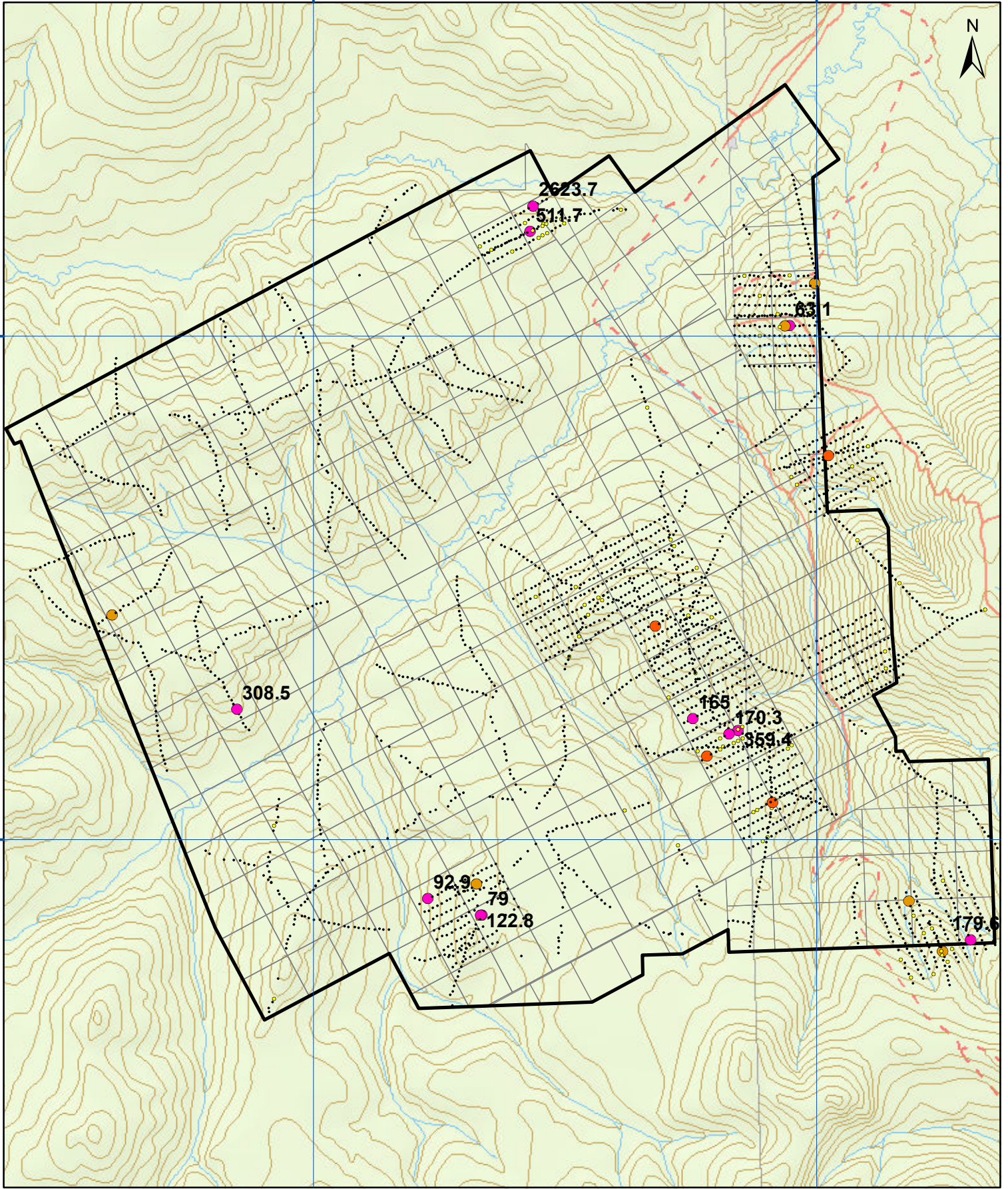


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600000

7055000

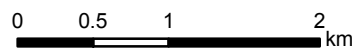
7050000



- Soil Au ppb**
- 0 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 60
 - > 60
- Legend:**
- Taku Property
 - Taku Claims
 - Main
 - Trail
 - Watercourse
 - Waterbody
 - Vegetation

**MONTANA GOLD RESULTS
TAKU GOLD CORP.**

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:50 000



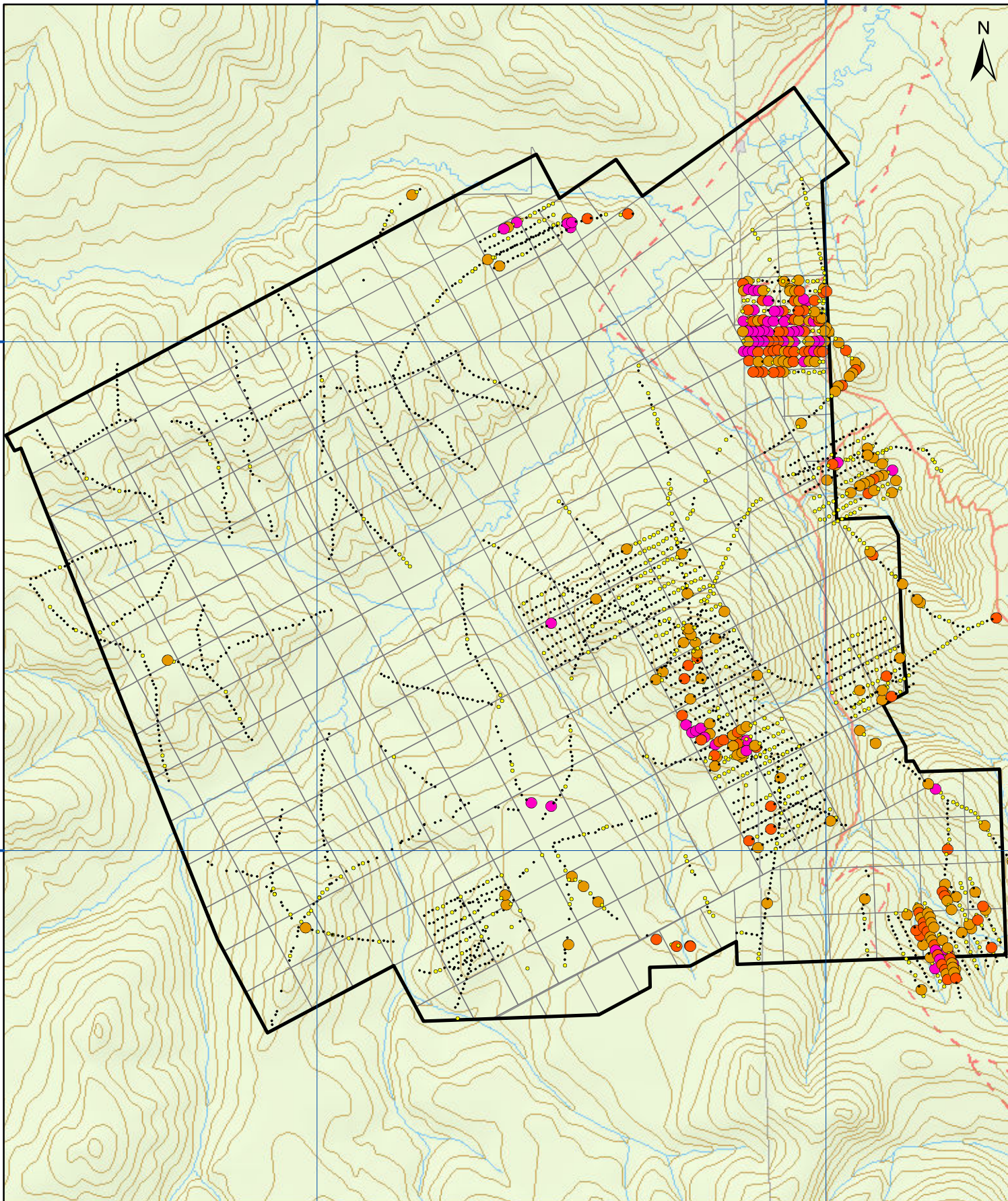
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7055000

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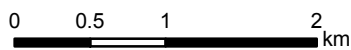
Soil As ppm

- 0 - 7.4
- 7.4 - 11.2
- 11.2 - 14.575
- 14.575 - 23.5
- > 23.5

- Taku Property
- Taku Claims
- Main
- Trail
- Watercourse
- Waterbody
- Vegetation

**MONTANA ARSENIC RESULTS
TAKU GOLD CORP.**

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:50 000



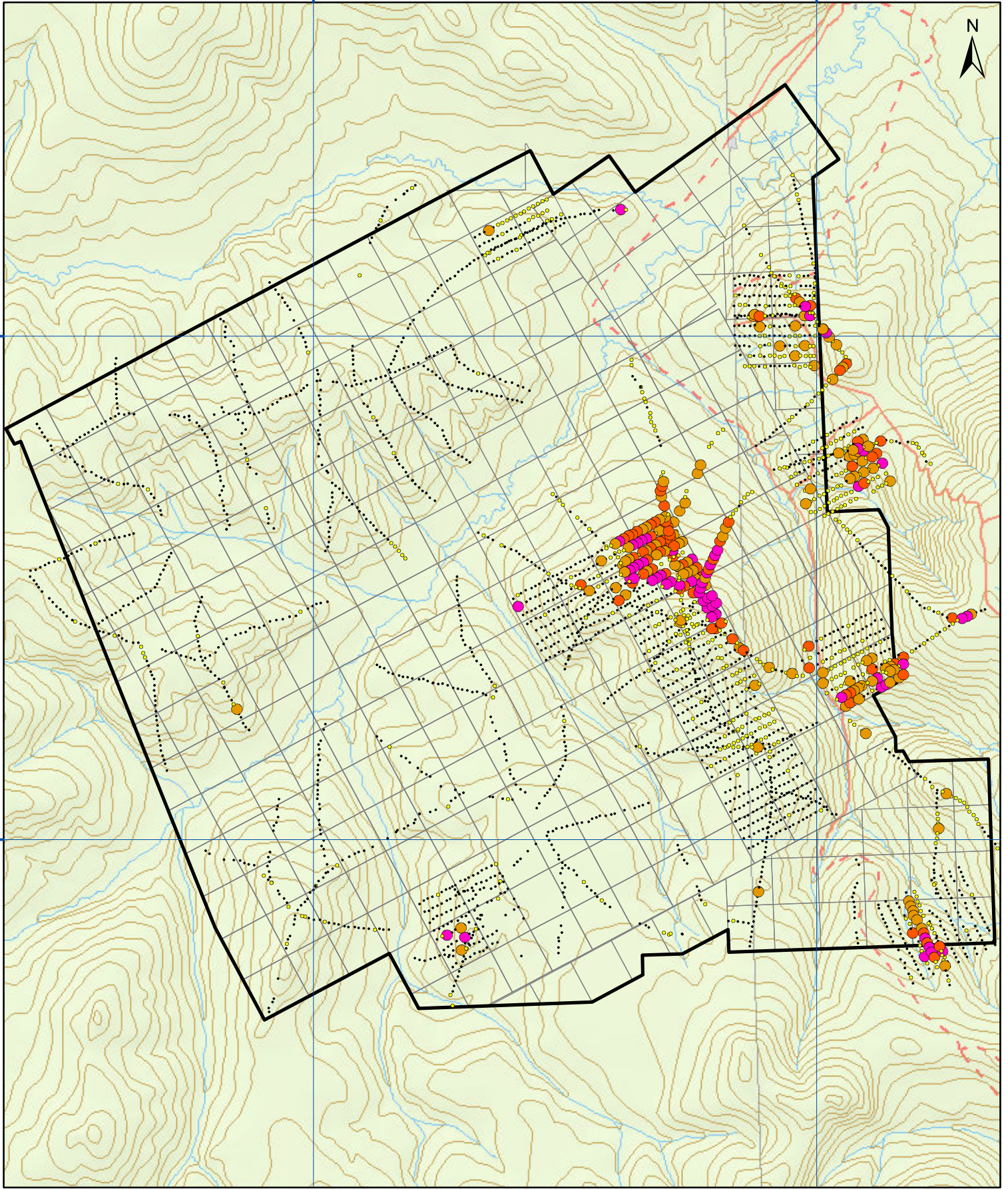
Montana Arsenic Results
Taku Gold Corp.
NTS Sheet: 1150/10&11
Date: October 25, 2011

595000

600000

7055000

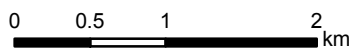
7050000



- | | | |
|-------------|---------------|------------|
| Soil Sb ppm | Taku Property | Main |
| • 0 - 0.5 | Taku Claims | Trail |
| • 0.5 - 0.9 | Watercourse | Waterbody |
| • 0.9 - 1.2 | Waterbody | Vegetation |
| • 1.2 - 1.7 | | |
| • > 1.7 | | |

MONTANA ANTIMONY RESULTS TAKU GOLD CORP.

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:50 000



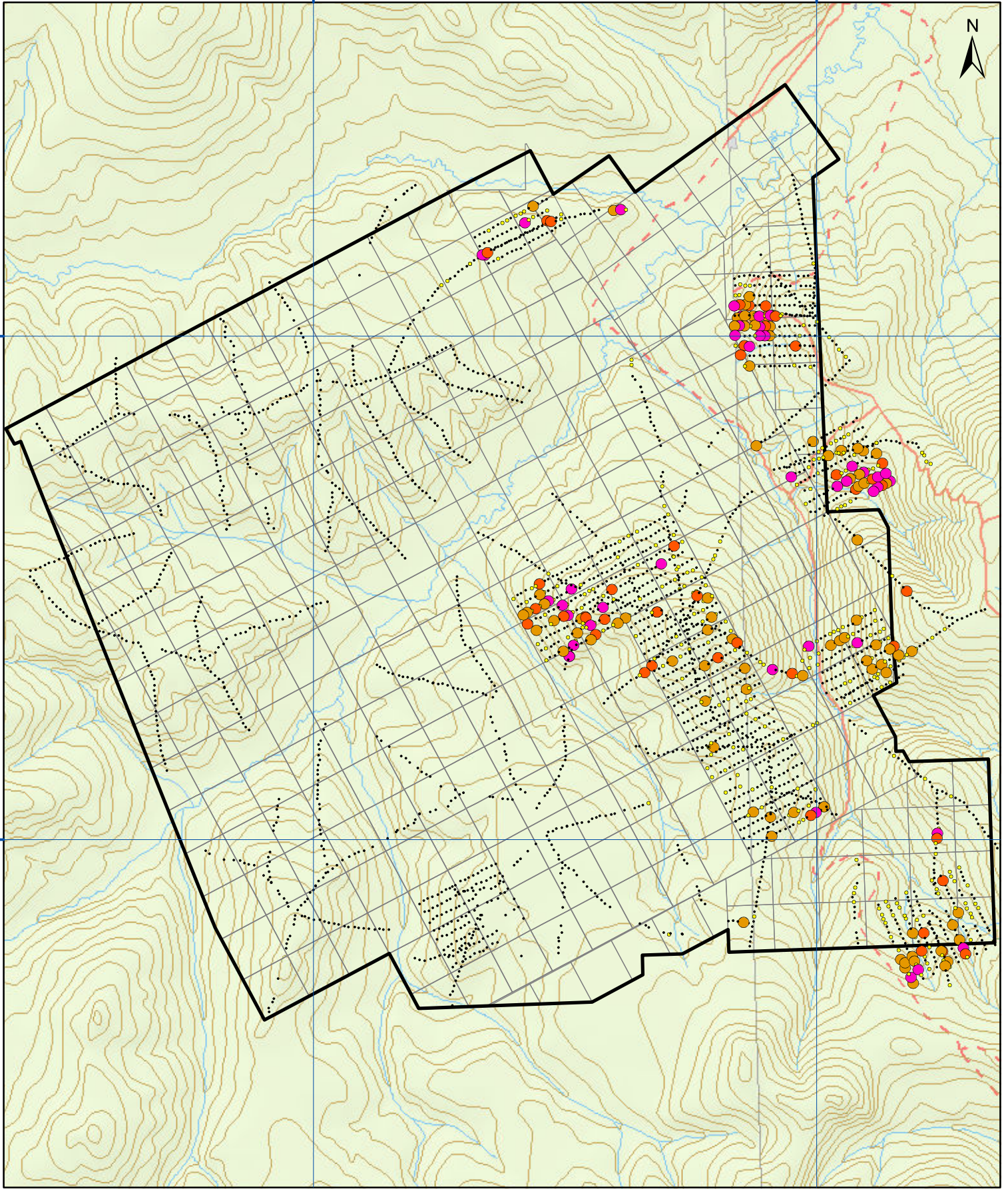
Montana Antimony Results
Taku Gold Corp.
NTS Sheet: 1150/10&11
Date: October 25, 2011

595000

600000

7055000

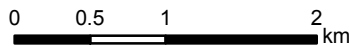
7050000



- | | | |
|-------------|---------------|-----------|
| • 0 - 0.1 | Taku Property | Main |
| • 0.1 - 0.2 | Taku Claims | Trail |
| • 0.2 - 0.3 | Watercourse | Waterbody |
| • 0.3 - 0.4 | Vegetation | |
| • > 0.4 | | |

MONTANA SILVER RESULTS TAKU GOLD CORP.

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:50 000



Montana Silver Results
Taku Gold Corp.
NTS Sheet: 1150/10&11
Date: October 25, 2011

Appendix A – Certificate of Work

QD01475

I, Mark Fehete
of 172 Dennison Val'd'or Qc J9P 1S5
Phone 819 374 8182
make oath and say that:



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 list

situated at Bishop Creek Claim sheet No. 1150/10811
in the DAWSON Mining District, to the value of at least 291,279.41 dollars,
since the 15th day of May - 20 Sept. 20 11
to represent the following mineral claims under the authority of Grouping Certificate No. HDD3249.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

see attached list
cid to 01 Mar. 2016.

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).

Geodemiol Soil sample. Costs include labor, hel. copter, assays, rentals, misc F&L & supplies. Breakaway did the work.

Sworn before me at [Signature] this 30th day of Sept 20 11
[Signature] Notary Public [Signature] Owner or Authorized Agent

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD17717	Quartz	Farm	1	22/07/2012 0:00	\$ -			\$ -
YD17716	Quartz	Farm	2	22/07/2012 0:00	\$ -			\$ -
YD17719	Quartz	Farm	3	22/07/2012 0:00	\$ -			\$ -
YD17718	Quartz	Farm	4	22/07/2012 0:00	\$ -			\$ -
YD17721	Quartz	Farm	5	22/07/2012 0:00	\$ -			\$ -
YD17720	Quartz	Farm	6	22/07/2012 0:00	\$ -			\$ -
YD29081	Quartz	IN	1	15/09/2011 0:00	\$ -			\$ -
YD29082	Quartz	IN	2	15/09/2011 0:00	\$ -			\$ -
YD29083	Quartz	IN	3	15/09/2011 0:00	\$ -			\$ -
YD29084	Quartz	IN	4	15/09/2011 0:00	\$ -			\$ -
YD29085	Quartz	IN	5	15/09/2011 0:00	\$ -			\$ -
YD29086	Quartz	IN	6	15/09/2011 0:00	\$ -			\$ -
YD29087	Quartz	IN	7	15/09/2011 0:00	\$ -			\$ -
YD29088	Quartz	IN	8	15/09/2011 0:00	\$ -			\$ -
YD29089	Quartz	IN	9	15/09/2011 0:00	\$ 869.55			\$ -
YD29090	Quartz	IN	10	15/09/2011 0:00	\$ -			\$ -
YD06597	Quartz	IN	11	15/09/2011 0:00	\$ 869.55			\$ -
YD06598	Quartz	IN	12	15/09/2011 0:00	\$ -			\$ -
YC95373	Quartz	IN	13	14/10/2011 0:00	\$ -			\$ -
YC95374	Quartz	IN	14	14/10/2011 0:00	\$ -			\$ -
YC95375	Quartz	IN	15	14/10/2011 0:00	\$ -			\$ -
YC95376	Quartz	IN	16	14/10/2011 0:00	\$ -			\$ -
YC95377	Quartz	IN	17	14/10/2011 0:00	\$ -			\$ -
YC95378	Quartz	IN	18	14/10/2011 0:00	\$ -			\$ -
YC95379	Quartz	IN	19	14/10/2011 0:00	\$ 869.55			\$ -
YC95380	Quartz	IN	20	14/10/2011 0:00	\$ -			\$ -
YC95381	Quartz	IN	21	14/10/2011 0:00	\$ 869.55			\$ -
YC95382	Quartz	IN	22	14/10/2011 0:00	\$ 869.55			\$ -
YC95383	Quartz	IN	23	14/10/2011 0:00	\$ -			\$ -
YD101504	Quartz	IN	24	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101505	Quartz	IN	25	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101506	Quartz	IN	26	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101507	Quartz	IN	27	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101508	Quartz	IN	28	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101509	Quartz	IN	29	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101510	Quartz	IN	30	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101511	Quartz	IN	31	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101512	Quartz	IN	32	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101513	Quartz	IN	33	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101514	Quartz	IN	34	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101515	Quartz	IN	35	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101516	Quartz	IN	36	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101517	Quartz	IN	37	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101518	Quartz	IN	38	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101519	Quartz	IN	39	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101520	Quartz	IN	40	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101521	Quartz	IN	41	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101522	Quartz	IN	42	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101523	Quartz	IN	43	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101524	Quartz	IN	44	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101525	Quartz	IN	45	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101526	Quartz	IN	46	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101527	Quartz	IN	47	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101528	Quartz	IN	48	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101529	Quartz	IN	49	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101530	Quartz	IN	50	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101531	Quartz	IN	51	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101532	Quartz	IN	52	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101533	Quartz	IN	53	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101534	Quartz	IN	54	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD101535	Quartz	IN	55	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101536	Quartz	IN	56	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101537	Quartz	IN	57	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101538	Quartz	IN	58	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101539	Quartz	IN	59	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101540	Quartz	IN	60	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101541	Quartz	IN	61	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101542	Quartz	IN	62	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101543	Quartz	IN	63	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101544	Quartz	IN	64	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101545	Quartz	IN	65	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101546	Quartz	IN	66	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101547	Quartz	IN	67	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101548	Quartz	IN	68	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101549	Quartz	IN	69	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101550	Quartz	IN	70	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101551	Quartz	IN	71	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101552	Quartz	IN	72	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101553	Quartz	IN	73	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101554	Quartz	IN	74	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101555	Quartz	IN	75	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101556	Quartz	IN	76	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101557	Quartz	IN	77	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101558	Quartz	IN	78	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101559	Quartz	IN	79	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101560	Quartz	IN	80	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101561	Quartz	IN	81	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101562	Quartz	IN	82	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101563	Quartz	IN	83	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101564	Quartz	IN	84	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101565	Quartz	IN	85	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101566	Quartz	IN	86	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101567	Quartz	IN	87	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101568	Quartz	IN	88	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101569	Quartz	IN	89	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101570	Quartz	IN	90	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101571	Quartz	IN	91	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101572	Quartz	IN	92	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101573	Quartz	IN	93	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101574	Quartz	IN	94	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101575	Quartz	IN	95	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101576	Quartz	IN	96	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101577	Quartz	IN	97	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101578	Quartz	IN	98	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101579	Quartz	IN	99	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101580	Quartz	IN	100	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101581	Quartz	IN	101	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101582	Quartz	IN	102	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101583	Quartz	IN	103	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101584	Quartz	IN	104	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101585	Quartz	IN	105	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101586	Quartz	IN	106	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101587	Quartz	IN	107	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101588	Quartz	IN	108	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101589	Quartz	IN	109	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101590	Quartz	IN	110	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101591	Quartz	IN	111	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101592	Quartz	IN	112	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101593	Quartz	IN	113	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101594	Quartz	IN	114	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD101595	Quartz	IN	115	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101596	Quartz	IN	116	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101597	Quartz	IN	117	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101598	Quartz	IN	118	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101599	Quartz	IN	119	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101600	Quartz	IN	120	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101601	Quartz	IN	121	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101602	Quartz	IN	122	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101603	Quartz	IN	123	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101604	Quartz	IN	124	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101605	Quartz	IN	125	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101606	Quartz	IN	126	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101607	Quartz	IN	127	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101608	Quartz	IN	128	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101609	Quartz	IN	129	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101610	Quartz	IN	130	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101611	Quartz	IN	131	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101612	Quartz	IN	132	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101613	Quartz	IN	133	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101614	Quartz	IN	134	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101615	Quartz	IN	135	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101616	Quartz	IN	136	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101617	Quartz	IN	137	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101618	Quartz	IN	138	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101619	Quartz	IN	139	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101620	Quartz	IN	140	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101621	Quartz	IN	141	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101622	Quartz	IN	142	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101623	Quartz	IN	143	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101624	Quartz	IN	144	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101625	Quartz	IN	145	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101626	Quartz	IN	146	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101627	Quartz	IN	147	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101628	Quartz	IN	148	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101629	Quartz	IN	149	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101630	Quartz	IN	150	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101631	Quartz	IN	151	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101632	Quartz	IN	152	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101633	Quartz	IN	153	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101634	Quartz	IN	154	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101635	Quartz	IN	155	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101636	Quartz	IN	156	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101637	Quartz	IN	157	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101638	Quartz	IN	158	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101639	Quartz	IN	159	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101640	Quartz	IN	160	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101641	Quartz	IN	161	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101642	Quartz	IN	162	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101643	Quartz	IN	163	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101644	Quartz	IN	164	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101645	Quartz	IN	165	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101646	Quartz	IN	166	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101647	Quartz	IN	167	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101648	Quartz	IN	168	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101649	Quartz	IN	169	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101650	Quartz	IN	170	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101651	Quartz	IN	171	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101652	Quartz	IN	172	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101653	Quartz	IN	173	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101654	Quartz	IN	174	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD101655	Quartz	IN	175	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101656	Quartz	IN	176	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101657	Quartz	IN	177	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101658	Quartz	IN	178	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101659	Quartz	IN	179	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101660	Quartz	IN	180	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101661	Quartz	IN	181	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101662	Quartz	IN	182	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101663	Quartz	IN	183	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101664	Quartz	IN	184	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101665	Quartz	IN	185	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101666	Quartz	IN	186	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101667	Quartz	IN	187	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101668	Quartz	IN	188	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101669	Quartz	IN	189	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101670	Quartz	IN	190	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101671	Quartz	IN	191	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101672	Quartz	IN	192	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101673	Quartz	IN	193	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101674	Quartz	IN	194	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101675	Quartz	IN	195	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101676	Quartz	IN	196	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101677	Quartz	IN	197	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101678	Quartz	IN	198	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101679	Quartz	IN	199	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101680	Quartz	IN	200	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101681	Quartz	IN	201	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101682	Quartz	IN	202	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101683	Quartz	IN	203	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101684	Quartz	IN	204	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101685	Quartz	IN	205	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101686	Quartz	IN	206	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101687	Quartz	IN	207	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101688	Quartz	IN	208	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101689	Quartz	IN	209	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101690	Quartz	IN	210	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101691	Quartz	IN	211	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101692	Quartz	IN	212	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101693	Quartz	IN	213	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101694	Quartz	IN	214	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101695	Quartz	IN	215	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101696	Quartz	IN	216	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101697	Quartz	IN	217	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101698	Quartz	IN	218	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101699	Quartz	IN	219	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101700	Quartz	IN	220	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101701	Quartz	IN	221	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101702	Quartz	IN	222	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101703	Quartz	IN	223	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101704	Quartz	IN	224	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101705	Quartz	IN	225	04/11/2011 0:00	\$ 869.55	4.5	\$ 5.00	\$ 22.50
YD101706	Quartz	IN	226	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD101707	Quartz	IN	227	04/11/2011 0:00	\$ -	4.5	\$ 5.00	\$ 22.50
YD132351	Quartz	M	1	04/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132352	Quartz	M	2	04/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132353	Quartz	M	3	04/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132354	Quartz	M	4	04/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132355	Quartz	M	5	04/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132356	Quartz	M	6	04/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132357	Quartz	M	7	04/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD132358	Quartz	M	8	08/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132359	Quartz	M	9	08/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132360	Quartz	M	10	08/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132361	Quartz	M	11	08/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132362	Quartz	M	12	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132363	Quartz	M	13	08/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132364	Quartz	M	14	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132365	Quartz	M	15	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132366	Quartz	M	16	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132367	Quartz	M	17	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132368	Quartz	M	18	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132369	Quartz	M	19	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132370	Quartz	M	20	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132371	Quartz	M	21	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132372	Quartz	M	22	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132373	Quartz	M	23	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132374	Quartz	M	24	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132375	Quartz	M	25	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132376	Quartz	M	26	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132377	Quartz	M	27	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132378	Quartz	M	28	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132379	Quartz	M	29	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132380	Quartz	M	30	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132381	Quartz	M	31	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132382	Quartz	M	32	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132383	Quartz	M	33	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132384	Quartz	M	34	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132385	Quartz	M	35	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD132386	Quartz	M	36	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD105947	Quartz	M	37	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD105948	Quartz	M	38	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD105949	Quartz	M	39	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD105950	Quartz	M	40	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD105951	Quartz	M	41	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD19614	Quartz	MT	1	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19615	Quartz	MT	2	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19616	Quartz	MT	3	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19617	Quartz	MT	4	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19618	Quartz	MT	5	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19619	Quartz	MT	6	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19620	Quartz	MT	7	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19621	Quartz	MT	8	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19622	Quartz	MT	9	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19623	Quartz	MT	10	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19624	Quartz	MT	11	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19625	Quartz	MT	12	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19626	Quartz	MT	13	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19627	Quartz	MT	14	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19628	Quartz	MT	15	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19629	Quartz	MT	16	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19630	Quartz	MT	17	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19631	Quartz	MT	18	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19632	Quartz	MT	19	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19633	Quartz	MT	20	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19634	Quartz	MT	21	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19635	Quartz	MT	22	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19636	Quartz	MT	23	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19637	Quartz	MT	24	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19638	Quartz	MT	25	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19639	Quartz	MT	26	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD19640	Quartz	MT	27	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19641	Quartz	MT	28	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19642	Quartz	MT	29	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19643	Quartz	MT	30	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19644	Quartz	MT	31	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19645	Quartz	MT	32	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19646	Quartz	MT	33	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19647	Quartz	MT	34	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19648	Quartz	MT	35	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19649	Quartz	MT	36	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19650	Quartz	MT	37	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19651	Quartz	MT	38	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19652	Quartz	MT	39	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19653	Quartz	MT	40	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19654	Quartz	MT	41	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19655	Quartz	MT	42	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19656	Quartz	MT	43	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19657	Quartz	MT	44	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19658	Quartz	MT	45	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19659	Quartz	MT	46	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19660	Quartz	MT	47	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19661	Quartz	MT	48	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19662	Quartz	MT	49	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19663	Quartz	MT	50	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19664	Quartz	MT	51	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19665	Quartz	MT	52	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19666	Quartz	MT	53	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19667	Quartz	MT	54	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19668	Quartz	MT	55	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19669	Quartz	MT	56	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19670	Quartz	MT	57	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19671	Quartz	MT	58	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19672	Quartz	MT	59	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19673	Quartz	MT	60	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19674	Quartz	MT	61	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19675	Quartz	MT	62	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19676	Quartz	MT	63	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19677	Quartz	MT	64	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19678	Quartz	MT	65	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19679	Quartz	MT	66	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19680	Quartz	MT	67	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19681	Quartz	MT	68	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19682	Quartz	MT	69	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19683	Quartz	MT	70	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19684	Quartz	MT	71	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19685	Quartz	MT	72	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19686	Quartz	MT	73	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19687	Quartz	MT	74	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD129075	Quartz	MT	75	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD129076	Quartz	MT	76	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD129077	Quartz	MT	77	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD129078	Quartz	MT	78	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD129079	Quartz	MT	79	15/03/2012 0:00	\$ -	4	\$ 5.00	\$ 20.00
YD129080	Quartz	MT	80	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132431	Quartz	MT	81	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132432	Quartz	MT	82	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132433	Quartz	MT	83	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132434	Quartz	MT	84	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132435	Quartz	MT	85	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00
YD132436	Quartz	MT	86	15/03/2012 0:00	\$ 869.55	4	\$ 5.00	\$ 20.00

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD19700	Quartz	MT	87	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19701	Quartz	MT	88	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19702	Quartz	MT	89	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19703	Quartz	MT	90	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19704	Quartz	MT	91	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19705	Quartz	MT	92	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19706	Quartz	MT	93	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19707	Quartz	MT	94	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19708	Quartz	MT	95	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19709	Quartz	MT	96	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19710	Quartz	MT	97	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19711	Quartz	MT	98	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19712	Quartz	MT	99	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19713	Quartz	MT	100	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19714	Quartz	MT	101	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19715	Quartz	MT	102	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19716	Quartz	MT	103	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19717	Quartz	MT	104	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19718	Quartz	MT	105	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19719	Quartz	MT	106	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19720	Quartz	MT	107	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19721	Quartz	MT	108	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19722	Quartz	MT	109	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19723	Quartz	MT	110	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19724	Quartz	MT	111	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19725	Quartz	MT	112	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19726	Quartz	MT	113	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19727	Quartz	MT	114	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19728	Quartz	MT	115	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19729	Quartz	MT	116	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19730	Quartz	MT	117	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19731	Quartz	MT	118	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19732	Quartz	MT	119	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19733	Quartz	MT	120	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19734	Quartz	MT	121	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19735	Quartz	MT	122	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19736	Quartz	MT	123	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19737	Quartz	MT	124	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19738	Quartz	MT	125	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19739	Quartz	MT	126	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19740	Quartz	MT	127	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19741	Quartz	MT	128	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19742	Quartz	MT	129	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19743	Quartz	MT	130	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19744	Quartz	MT	131	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19745	Quartz	MT	132	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19746	Quartz	MT	133	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19747	Quartz	MT	134	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19748	Quartz	MT	135	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19749	Quartz	MT	136	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19750	Quartz	MT	137	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19751	Quartz	MT	138	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19752	Quartz	MT	139	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19753	Quartz	MT	140	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19754	Quartz	MT	141	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19755	Quartz	MT	142	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19756	Quartz	MT	143	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19757	Quartz	MT	144	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19758	Quartz	MT	145	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19759	Quartz	MT	146	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD19760	Quartz	MT	147	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19761	Quartz	MT	148	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19762	Quartz	MT	149	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19763	Quartz	MT	150	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19764	Quartz	MT	151	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19765	Quartz	MT	152	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19766	Quartz	MT	153	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19767	Quartz	MT	154	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19768	Quartz	MT	155	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19769	Quartz	MT	156	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19770	Quartz	MT	157	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19771	Quartz	MT	158	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19772	Quartz	MT	159	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19773	Quartz	MT	160	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19774	Quartz	MT	161	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19775	Quartz	MT	162	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19776	Quartz	MT	163	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19777	Quartz	MT	164	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19778	Quartz	MT	165	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19779	Quartz	MT	166	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19780	Quartz	MT	167	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19781	Quartz	MT	168	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19782	Quartz	MT	169	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19783	Quartz	MT	170	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19784	Quartz	MT	171	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19785	Quartz	MT	172	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19786	Quartz	MT	173	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19787	Quartz	MT	174	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19788	Quartz	MT	175	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19789	Quartz	MT	176	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19790	Quartz	MT	177	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19791	Quartz	MT	178	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19792	Quartz	MT	179	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19793	Quartz	MT	180	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19794	Quartz	MT	181	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19795	Quartz	MT	182	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19839	Quartz	MT	183	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19840	Quartz	MT	184	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19841	Quartz	MT	185	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19842	Quartz	MT	186	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19843	Quartz	MT	187	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19844	Quartz	MT	188	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19845	Quartz	MT	189	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19846	Quartz	MT	190	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19847	Quartz	MT	191	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19848	Quartz	MT	192	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19849	Quartz	MT	193	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19850	Quartz	MT	194	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19851	Quartz	MT	195	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19852	Quartz	MT	196	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19799	Quartz	MT	197	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19800	Quartz	MT	198	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19801	Quartz	MT	199	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19802	Quartz	MT	200	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19803	Quartz	MT	201	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19804	Quartz	MT	202	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19805	Quartz	MT	203	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19806	Quartz	MT	204	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19807	Quartz	MT	205	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19808	Quartz	MT	206	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25

Claim List for Cert of Work 2011 BishopMon.xlsx

Claim Information					Work Done	Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem Survey	Years	Annual Fee	Total
YD19809	Quartz	MT	207	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19810	Quartz	MT	208	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19811	Quartz	MT	209	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19812	Quartz	MT	210	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19813	Quartz	MT	211	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19814	Quartz	MT	212	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19815	Quartz	MT	213	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19816	Quartz	MT	214	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19817	Quartz	MT	215	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19818	Quartz	MT	216	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19819	Quartz	MT	217	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19820	Quartz	MT	218	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19821	Quartz	MT	219	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19822	Quartz	MT	220	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19823	Quartz	MT	221	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19824	Quartz	MT	222	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19825	Quartz	MT	223	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19826	Quartz	MT	224	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19827	Quartz	MT	225	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19828	Quartz	MT	226	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19829	Quartz	MT	227	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19830	Quartz	MT	228	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19831	Quartz	MT	229	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19832	Quartz	MT	230	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19833	Quartz	MT	231	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19834	Quartz	MT	232	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19835	Quartz	MT	233	14/01/2013 0:00	\$ -	3.25	\$ 5.00	\$ 16.25
YD19836	Quartz	MT	234	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19837	Quartz	MT	235	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YD19838	Quartz	MT	236	14/01/2013 0:00	\$ 869.55	3.25	\$ 5.00	\$ 16.25
YC27160	Quartz	VMS	1	02/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27161	Quartz	VMS	2	02/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27162	Quartz	VMS	3	02/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27163	Quartz	VMS	4	02/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27164	Quartz	VMS	5	02/07/2011 0:00	\$ 869.55	1	\$ 5.00	\$ 5.00
YC27165	Quartz	VMS	6	02/07/2011 0:00	\$ 869.55	1	\$ 5.00	\$ 5.00
YC27166	Quartz	VMS	7	02/07/2011 0:00	\$ 869.55	1	\$ 5.00	\$ 5.00
YC27167	Quartz	VMS	8	02/07/2011 0:00	\$ 869.55	1	\$ 5.00	\$ 5.00
YC27194	Quartz	VMS	9	15/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27195	Quartz	VMS	10	15/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27196	Quartz	VMS	11	15/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27197	Quartz	VMS	12	15/07/2011 0:00	\$ 869.55	1	\$ 5.00	\$ 5.00
YC27198	Quartz	VMS	13	15/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27199	Quartz	VMS	14	15/07/2012 0:00	\$ -	1	\$ 5.00	\$ 5.00
YC27200	Quartz	VMS	15	15/07/2011 0:00	\$ 869.55	1	\$ 5.00	\$ 5.00
YC27201	Quartz	VMS	16	15/07/2011 0:00	\$ -	1	\$ 5.00	\$ 5.00
				Column Total	\$ 291,299.41	1874		\$ 9,370.00
					526 claims			
				Check	\$ (0.00)			

Geochem2011_Taku_BishMon

Supplier	Invoice	Date			Geochem							Total
					Wages & Contract	F&L	Supplies	Transport	Rentals	Assays	Other	Total
Name	Ref No.	Date	Month	Project	5150	5151	5152	5153	5154	5156	5157	Total
1984 Enterprises	2010-1069	6-Jun-11	06-11	Bishop	435.62							435.62
1984 Enterprises	2010-1045	30-May-11	05-11	Bishop	450.00							450.00
1984 Enterprises	2010-1143	27-Jun-11	06-11	Bishop	455.79							455.79
1984 Enterprises	2010-1027	23-May-11	05-11	Bishop	458.87							458.87
1984 Enterprises	2010-1092	13-Jun-11	06-11	Bishop	499.24							499.24
1984 Enterprises	2010-1112	20-Jun-11	06-11	Bishop	506.58							506.58
1984 Enterprises	2010-1174	4-Jul-11	07-11	Bishop	522.44							522.44
1984 Enterprises	2010-1069	6-Jun-11	06-11	Montana	562.28							562.28
1984 Enterprises	2010-1045	30-May-11	05-11	Montana	580.84							580.84
1984 Enterprises	2010-1143	27-Jun-11	06-11	Montana	588.31							588.31
1984 Enterprises	2010-1027	23-May-11	05-11	Montana	592.28							592.28
1984 Enterprises	2010-1092	13-Jun-11	06-11	Montana	644.39							644.39
1984 Enterprises	2010-1112	20-Jun-11	06-11	Montana	653.86							653.86
1984 Enterprises	2010-1174	4-Jul-11	07-11	Montana	674.34							674.34
1984 Enterprises	2010-1177	14-Jul-11	07-11	Bishop	785.06							785.06
1984 Enterprises	2010-1012	16-May-11	05-11	Bishop	970.09							970.09
1984 Enterprises	2010-1177	14-Jul-11	07-11	Montana	1013.31							1,013.31
1984 Enterprises	2010-1012	16-May-11	05-11	Montana	1252.14							1,252.14
Acklands Grainger	6081 0372470	25-Jul-11	07-11	Bishop			14.07					14.07
Acklands Grainger	6081 0372470	25-Jul-11	07-11	Montana			18.16					18.16
Acme	VANI085550	27-Jun-11	06-11	Montana						256.50		256.50
Acme	VANI086193	4-Jul-11	07-11	Montana						564.30		564.30
Acme	VANI095951	19-Sep-11	09-11	Bishop						786.60		786.60
Acme	VANI086941	11-Jul-11	07-11	Bishop						3368.70		3,368.70
Acme	VANI095945	19-Sep-11	09-11	Montana						4,155.30		4,155.30
Acme	VANI095949	19-Sep-11	09-11	Bishop						4,976.10		4,976.10
Acme	VANI085547	27-Jun-11	06-11	Montana						4976.10		4,976.10
Acme	VANI085546	27-Jun-11	06-11	Montana						5044.50		5,044.50
Acme	VANI096946	26-Sep-11	09-11	Montana						5,375.10		5,375.10
Acme	VANI095948	19-Sep-11	09-11	Montana						5,386.50		5,386.50
Acme	VANI095946	19-Sep-11	09-11	Montana						5,422.60		5,422.60
Acme	VANI085548	27-Jun-11	06-11	Montana						5456.80		5,456.80
Acme	VANI086675	8-Jul-11	07-11	Bishop						5472.00		5,472.00
Acme	VANI085549	27-Jun-11	06-11	Montana						5472.00		5,472.00
Acme	VANI095947	19-Sep-11	09-11	Montana						5,472.00		5,472.00
Acme Estimated				Bishop						5,608.40		5,608.40
AFD	IN21563	31-Jul-11	07-11	Bishop				1.88				1.88
AFD	IN21563	31-Jul-11	07-11	Montana				2.43				2.43
AFD	IN016797	31-May-11	05-11	Bishop				5.51				5.51
AFD	IN016797	31-May-11	05-11	Montana				7.12				7.12
AFD	IN20510	16-Jul-11	07-11	Bishop				7.70				7.70
AFD	IN20510	16-Jul-11	07-11	Montana				9.94				9.94

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AFD	IN024164	31-Aug-11	08-11	Bishop				11.08				11.08
AFD	IN024164	31-Aug-11	08-11	Montana				14.30				14.30
AFD	IN022782	15-Aug-11	08-11	Bishop			42.62					42.62
AFD	IN020509	16-Jul-11	07-11	Bishop				44.78				44.78
AFD	IN016635	31-May-11	05-11	Bishop				47.51				47.51
AFD	IN022782	15-Aug-11	08-11	Montana			55.01					55.01
AFD	IN020509	16-Jul-11	07-11	Montana				57.80				57.80
AFD	IN016635	31-May-11	05-11	Montana				61.33				61.33
AFD	IN21562	31-Jul-11	07-11	Bishop				95.73				95.73
AFD	YT2087-4735	2-Aug-11	08-11	Bishop				100.76				100.76
AFD	IN21562	31-Jul-11	07-11	Montana				123.57				123.57
AFD	YT2087-4735	2-Aug-11	08-11	Montana				130.06				130.06
AFD	IN024163	31-Aug-11	08-11	Bishop				155.54				155.54
AFD	IN024163	31-Aug-11	08-11	Montana				200.76				200.76
AFD	YT18327-2861	22-Jul-11	07-11	Bishop				260.06				260.06
AFD	YT21913-4357	23-Aug-11	08-11	Bishop			293.67					293.67
AFD	YT18327-2861	22-Jul-11	07-11	Montana				335.67				335.67
AFD	YT21913-4357	23-Aug-11	08-11	Montana			379.05					379.05
Arctic Inland	2082246	10-Aug-11	08-11	Bishop				0.74				0.74
Arctic Inland	2082246	10-Aug-11	08-11	Montana				0.95				0.95
Arctic Inland	2082889	31-Aug-11	08-11	Bishop				7.79				7.79
Arctic Inland	Stmt 09/01/11	1-Sep-11	09-11	Bishop				8.96				8.96
Arctic Inland	2082889	31-Aug-11	08-11	Montana				10.06				10.06
Arctic Inland	Stmt 09/01/11	1-Sep-11	09-11	Montana				11.56				11.56
Bonanaza Market	Stmt 16/09/2011	16-Sep-11	09-11	Bishop		43.56						43.56
Bonanaza Market	Stmt 16/09/2011	16-Sep-11	09-11	Montana		56.22						56.22
Bonanza Gold Motel	2011058	12-Jun-11	06-11	Bishop		64.72						64.72
Bonanza Gold Motel	2011058	12-Jun-11	06-11	Montana		83.53						83.53
Bonanza Gold Motel	2011-094	27-Jul-11	07-11	Bishop		92.45						92.45
Bonanza Gold Motel	2011-048	27-May-11	05-11	Bishop		92.45						92.45
Bonanza Gold Motel	2011081	1-Jul-11	07-11	Bishop		92.45						92.45
Bonanza Gold Motel	2011-094	27-Jul-11	07-11	Montana		119.33						119.33
Bonanza Gold Motel	2011-048	27-May-11	05-11	Montana		119.33						119.33
Bonanza Gold Motel	2011081	1-Jul-11	07-11	Montana		119.33						119.33
Bonanza Gold Motel	2011-040	17-May-11	05-11	Bishop		120.19						120.19
Bonanza Gold Motel	2011-040	17-May-11	05-11	Montana		155.13						155.13
Bonanza Market	14532	10-Jun-11	06-11	Bishop		1.14						1.14
Bonanza Market	14532	10-Jun-11	06-11	Montana		1.47						1.47
Bonanza Market	14240	3-Jun-11	06-11	Bishop		1.54						1.54
Bonanza Market	14240	3-Jun-11	06-11	Montana		1.98						1.98
Bonanza Market	14517	10-Jun-11	06-11	Bishop		3.38						3.38
Bonanza Market	14517	10-Jun-11	06-11	Montana		4.37						4.37
Bonanza Market	14693	10-Jun-11	06-11	Bishop		7.59						7.59
Bonanza Market	14208	2-Jun-11	06-11	Bishop		9.05						9.05
Bonanza Market	14693	10-Jun-11	06-11	Montana		9.79						9.79
Bonanza Market	14208	2-Jun-11	06-11	Montana		11.68						11.68

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Bonanza Market	14340	5-Jun-11	06-11	Bishop		19.89						19.89
Bonanza Market	14284	4-Jun-11	06-11	Bishop		24.10						24.10
Bonanza Market	14340	5-Jun-11	06-11	Montana		25.68						25.68
Bonanza Market	14284	4-Jun-11	06-11	Montana		31.11						31.11
Bonanza Market	14140	1-Jun-11	06-11	Bishop		75.19						75.19
Bonanza Market	14140	1-Jun-11	06-11	Montana		97.05						97.05
Bonanza Market	Stmt 16/08/2011	16-Aug-11	08-11	Bishop		319.48						319.48
Bonanza Market	14160	1-Jun-11	06-11	Bishop		402.80						402.80
Bonanza Market	Stmt 16/08/2011	16-Aug-11	08-11	Montana		412.37						412.37
Bonanza Market	Stmt 01/09/2011	1-Sep-11	09-11	Bishop		449.74						449.74
Bonanza Market	14501	9-Jun-11	06-11	Bishop		456.15						456.15
Bonanza Market	14160	1-Jun-11	06-11	Montana		519.91						519.91
Bonanza Market	Stmt 19-Jul-11	19-Jul-11	07-11	Bishop		522.15						522.15
Bonanza Market	Stmt 01/08/2011	1-Aug-11	08-11	Bishop		547.08						547.08
Bonanza Market	01/07/2011	1-Jul-11	07-11	Montana		565.60						565.60
Bonanza Market	Stmt 01/09/2011	1-Sep-11	09-11	Montana		580.50						580.50
Bonanza Market	14501	9-Jun-11	06-11	Montana		588.77						588.77
Bonanza Market	Stmt 19-Jul-11	19-Jul-11	07-11	Montana		673.97						673.97
Bonanza Market	Stmt 01/08/2011	1-Aug-11	08-11	Montana		706.15						706.15
Bonanza Market	16/06/2011	16-Jun-11	06-11	Bishop		1036.18						1,036.18
Bonanza Market	16/06/2011	16-Jun-11	06-11	Montana		1337.44						1,337.44
Bonanza Market	01/07/2011	1-Jul-11	07-11	Bishop		2556.84						2,556.84
Breakaway	698	20-Sep-11	09-11	Bishop						27.59		27.59
Breakaway	698	20-Sep-11	09-11	Montana						35.61		35.61
Breakaway	690	31-Jul-11	07-11	Bishop						212.50		212.50
Breakaway	698	20-Sep-11	09-11	Bishop			259.24					259.24
Breakaway	698	20-Sep-11	09-11	Montana			334.61					334.61
Breakaway	690	31-Jul-11	07-11	Bishop				375.00				375.00
Breakaway	696	20-Sep-11	09-11	Bishop				450.00				450.00
Breakaway	696	20-Sep-11	09-11	Bishop					637.50			637.50
Breakaway	698	20-Sep-11	09-11	Bishop		672.32						672.32
Breakaway	698	20-Sep-11	09-11	Montana		867.79						867.79
Breakaway	696	20-Sep-11	09-11	Bishop			987.00					987.00
Breakaway	697	1-Sep-11	09-11	Montana					1,877.50			1,877.50
Breakaway	698	20-Sep-11	09-11	Bishop				1,908.17				1,908.17
Breakaway	697	1-Sep-11	09-11	Montana				2,100.00				2,100.00
Breakaway	698	20-Sep-11	09-11	Montana				2,462.97				2,462.97
Breakaway	697	1-Sep-11	09-11	Montana			2,640.00					2,640.00
Breakaway	698	20-Sep-11	09-11	Bishop	2863.54							2,863.54
Breakaway	690	31-Jul-11	07-11	Bishop	2975.00							2,975.00
Breakaway	698	20-Sep-11	09-11	Montana	3696.11							3,696.11
Breakaway	696	20-Sep-11	09-11	Bishop	9125.00							9,125.00
Breakaway	681	23-Jun-11	06-11	Bishop	15691.50			900.00	2513.00			19,104.50
Breakaway	697	1-Sep-11	09-11	Montana	21325.00							21,325.00
Breakaway	678	23-Jun-11	06-11	Montana	33700.25			1050.00	4708.00			39,458.25
Dawson Hardware	Stmt 31/07/2011	31-Jul-11	07-11	Bishop			53.70					53.70

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Dawson Hardware	Stmt 31/07/2011	31-Jul-11	07-11	Montana			69.31					69.31
Dawson Hardware	Stmt 31/08/2011	31-Aug-11	08-11	Bishop			97.89					97.89
Dawson Hardware	Stmt 31/08/2011	31-Aug-11	08-11	Montana			126.35					126.35
Dawson Hardware	31/05/2011	31-May-11	05-11	Bishop			284.55					284.55
Dawson Hardware	31/05/2011	31-May-11	05-11	Montana			367.28					367.28
EIS	0000119840	8-Aug-11	08-11	Bishop						160.25		160.25
EIS	0000119840	8-Aug-11	08-11	Montana						206.84		206.84
Greg Davison		30-May-11	05-11	Bishop		197.86	115.86	659.74			27.62	1,001.09
Greg Davison		30-May-11	05-11	Montana		255.39	149.54	851.56			35.66	1,292.15
Greg Davison		30-Jun-11	06-11	Bishop		20.36	58.95	1,460.76			18.49	1,558.56
Greg Davison		30-Jun-11	06-11	Montana		26.28	76.09	1,885.48			23.87	2,011.71
Heli Dynamics	11897	31-Aug-11	08-11	Bishop				205.61				205.61
Heli Dynamics	11897	31-Aug-11	08-11	Montana				265.39				265.39
Heli Dynamics	11887	24-Aug-11	08-11	Bishop				475.48				475.48
Heli Dynamics	11887	24-Aug-11	08-11	Montana				613.72				613.72
Heli Dynamics	11872	16-Aug-11	08-11	Montana				996.00				996.00
Heli Dynamics	11904	4-Aug-11	08-11	Bishop				1,251.00				1,251.00
Heli Dynamics	11871	15-Aug-11	08-11	Montana				1,459.50				1,459.50
Heli Dynamics	11905	5-Aug-11	08-11	Bishop				1,668.00				1,668.00
Heli Dynamics	11903	3-Aug-11	08-11	Bishop				1,876.50				1,876.50
Heli Dynamics	11905	5-Aug-11	08-11	Montana				2,710.50				2,710.50
Heli Dynamics	11908	8-Aug-11	08-11	Montana				2,710.50				2,710.50
Heli Dynamics	11910	10-Aug-11	08-11	Montana				2,919.00				2,919.00
Heli Dynamics	11907	7-Aug-11	08-11	Montana				3,127.50				3,127.50
Heli Dynamics	11909	9-Aug-11	08-11	Montana				3,127.50				3,127.50
Heli Dynamics	11912	11-Aug-11	08-11	Montana				3,336.00				3,336.00
Heli-Dynamics	10103	1-Jun-11	06-11	Montana				810.00				810.00
Heli-Dynamics	Fuel-1000	6-Jul-11	07-11	Bishop				1027.30				1,027.30
Heli-Dynamics	10497	30-Jul-11	07-11	Bishop				1,042.50				1,042.50
Heli-Dynamics	Fuel-1000	6-Jul-11	07-11	Montana				1325.99				1,325.99
Heli-Dynamics	10499	31-Jul-11	07-11	Bishop				1,668.00				1,668.00
Heli-Dynamics	10111	8-Jun-11	06-11	Montana				1890.00				1,890.00
Heli-Dynamics	10117	14-Jun-11	06-11	Bishop				2160.00				2,160.00
Heli-Dynamics	10104	2-Jun-11	06-11	Montana				2295.00				2,295.00
Heli-Dynamics	10110	7-Jun-11	06-11	Montana				2970.00				2,970.00
Heli-Dynamics	10109	6-Jun-11	06-11	Montana				3375.00				3,375.00
Heli-Dynamics	10120	17-Jun-11	06-11	Bishop				3510.00				3,510.00
Heli-Dynamics	10121	18-Jun-11	06-11	Bishop				3510.00				3,510.00
Heli-Dynamics	10122	19-Jun-11	06-11	Bishop				3510.00				3,510.00
Heli-Dynamics	10106	4-Jun-11	06-11	Montana				4320.00				4,320.00
Heli-Dynamics	10108	5-Jun-11	06-11	Montana				4320.00				4,320.00
Heli-Dynamics	10105	3-Jun-11	06-11	Montana				4670.00				4,670.00
Jacobs Industries	68657	5-May-11	05-11	Bishop						28.96		28.96
Jacobs Industries	68657	5-May-11	05-11	Montana						37.38		37.38
Kluane Freight Lines	155087	8-Jul-11	07-11	Bishop				2.05				2.05
Kluane Freight Lines	155087	8-Jul-11	07-11	Montana				2.65				2.65

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Kluane Freight Lines	156242	28-Jul-11	07-11	Bishop				8.34				8.34
Kluane Freight Lines	156242	28-Jul-11	07-11	Montana				10.77				10.77
NIS	SC00850	29-Jul-11	07/11	Montana				-42.79				-42.79
NIS	SC00850	29-Jul-11	07/11	Bishop				-33.15				-33.15
NIS	SC01903	6-Aug-11	08-11	Montana				(1.85)				-1.85
NIS	SC01903	6-Aug-11	08-11	Bishop				(1.43)				-1.43
NIS	SC00631	21-May-11	05-11	Montana				-0.94				-0.94
NIS	SC00631	21-May-11	05-11	Bishop				-0.73				-0.73
NIS	S047506	2-Aug-11	08-11	Bishop				0.40				0.40
NIS	S047506	2-Aug-11	08-11	Bishop				0.40				0.40
NIS	S047506	2-Aug-11	08-11	Montana				0.52				0.52
NIS	S047506	2-Aug-11	08-11	Montana				0.52				0.52
NIS	S018030	24-May-11	05-11	Bishop				0.56				0.56
NIS	S018030	24-May-11	05-11	Montana				0.72				0.72
NIS	S027339	14-Jun-11	06-11	Bishop				1.00				1.00
NIS	S058394	26-Aug-11	08-11	Bishop				1.23				1.23
NIS	S027339	14-Jun-11	06-11	Montana				1.29				1.29
NIS	S048765	4-Aug-11	08-11	Bishop				1.43				1.43
NIS	S058394	26-Aug-11	08-11	Montana				1.58				1.58
NIS	S049659	6-Aug-11	08-11	Bishop				1.68				1.68
NIS	S048765	4-Aug-11	08-11	Montana				1.85				1.85
NIS	S049659	6-Aug-11	08-11	Montana				2.17				2.17
NIS	S018782	26-May-11	05-11	Bishop				2.48				2.48
NIS	S018782	26-May-11	05-11	Montana				3.20				3.20
NIS	S018037	24-May-11	05-11	Bishop				7.38				7.38
NIS	S015400	17-May-11	05-11	Bishop				7.47				7.47
NIS	S022356	2-Jun-11	06-11	Bishop				9.09				9.09
NIS	S016186	18-May-11	05-11	Bishop				9.37				9.37
NIS	S018037	24-May-11	05-11	Montana				9.52				9.52
NIS	S015400	17-May-11	05-11	Montana				9.64				9.64
NIS	S022356	2-Jun-11	06-11	Montana				11.73				11.73
NIS	S016186	18-May-11	05-11	Montana				12.09				12.09
NIS	S017428	21-May-11	05-11	Bishop				12.58				12.58
NIS	S014895	16-May-11	05-11	Bishop				14.26				14.26
NIS	S017428	21-May-11	05-11	Montana				16.24				16.24
NIS	S046586	29-Jul-11	07-11	Bishop				16.24				16.24
NIS	S046586	29-Jul-11	07-11	Bishop				16.24				16.24
NIS	S014895	16-May-11	05-11	Montana				18.40				18.40
NIS	S046586	29-Jul-11	07-11	Montana				20.96				20.96
NIS	S046586	29-Jul-11	07-11	Montana				20.96				20.96
NIS	S023163	3-Jun-11	06-11	Bishop				38.46				38.46
NIS	S023163	3-Jun-11	06-11	Montana				49.65				49.65
NIS	S020437	30-May-11	05-11	Bishop				85.34				85.34
NIS	S020437	30-May-11	05-11	Montana				110.16				110.16
Pacesetter Petroleum	11070802C	8-Jul-11	07-11	Montana				(147.18)				-147.18
Pacesetter Petroleum	11070802C	8-Jul-11	07-11	Bishop				(114.02)				-114.02

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Pacesetter Petroleum	2011062107C	21-Jun-11	06-11	Montana				(9.55)				-9.55
Pacesetter Petroleum	2011062107C	21-Jun-11	06-11	Bishop				(7.40)				-7.40
Pacesetter Petroleum	2011053110X	31-May-11	05-11	Bishop				143.42				143.42
Pacesetter Petroleum	2011053110X	31-May-11	05-11	Montana				185.12				185.12
Pacesetter Petroleum	2011061401	14-Jun-11	06-11	Bishop				952.99				952.99
Pacesetter Petroleum	2011061401	14-Jun-11	06-11	Montana				1230.07				1,230.07
Peacock Sales	IN74803	7-Jul-11	07-11	Bishop			11.16					11.16
Peacock Sales	IN075301	29-Aug-11	08-11	Bishop			13.87					13.87
Peacock Sales	IN74803	7-Jul-11	07-11	Montana			14.40					14.40
Peacock Sales	IN075301	29-Aug-11	08-11	Montana			17.90					17.90
Small's Exp.	K5253	28-Feb-11	02-11	Bishop		2.21						2.21
Small's Exp.	K5253	28-Feb-11	02-11	Montana		2.85						2.85
Small's Exp.	K6982	31-Jul-11	07-11	Bishop					4.62			4.62
Small's Exp.	K6982	31-Jul-11	07-11	Montana					5.97			5.97
Small's Exp.	K6945	31-Jul-11	07-11	Bishop	18.49							18.49
Small's Exp.	K7045	1-Aug-11	08-11	Bishop					21.57			21.57
Small's Exp.	K6945	31-Jul-11	07-11	Montana	23.87							23.87
Small's Exp.	K6964	31-Jul-11	07-11	Bishop	25.89							25.89
Small's Exp.	K7045	1-Aug-11	08-11	Montana					27.84			27.84
Small's Exp.	K6964	31-Jul-11	07-11	Montana	33.41							33.41
Small's Exp.	K5277	1-Mar-11	03-11	Bishop		37.55						37.55
Small's Exp.	K7276	24-Aug-11	08-11	Bishop					38.22			38.22
Small's Exp.	K5277	1-Mar-11	03-11	Montana		48.46						48.46
Small's Exp.	K7276	24-Aug-11	08-11	Montana					49.33			49.33
Small's Exp.	K5034	31-Dec-10	12-10	Montana					93.26			93.26
Small's Exp.	K5035	1-Jan-11	01-11	Montana					500.00			500.00
Super Save Propane	1216423A	13-May-11	05-11	Bishop		16.05						16.05
Super Save Propane	1216423A	13-May-11	05-11	Montana		20.72						20.72
Super Save Propane	1217296	26-Jul-11	07-11	Bishop			125.88					125.88
Super Save Propane	1216423	13-May-11	05-11	Bishop		156.89						156.89
Super Save Propane	1217296	26-Jul-11	07-11	Montana			162.48					162.48
Super Save Propane	1216424	13-May-11	05-11	Bishop		168.92						168.92
Super Save Propane	1216423	13-May-11	05-11	Montana		202.50						202.50
Super Save Propane	13130	14-May-11	05-11	Bishop		210.66						210.66
Super Save Propane	1216424	13-May-11	05-11	Montana		218.04						218.04
Super Save Propane	13130	14-May-11	05-11	Montana		271.91						271.91
Total North	11-1713	29-Aug-11	08-11	Bishop					26.50			26.50
Total North	11-1713	29-Aug-11	08-11	Montana					34.21			34.21
Xplornet	I-5212677	1-Aug-11	08-11	Bishop					10.79			10.79
Xplornet	I-5212679	1-Aug-11	08-11	Bishop					10.79			10.79
Xplornet	I-5212677	1-Aug-11	08-11	Montana					13.92			13.92
Xplornet	I-5212679	1-Aug-11	08-11	Montana					13.92			13.92
bottom					101,123.50	16,555.57	7,244.62	87,180.50	11,296.09	67,793.50	105.64	291,299.41

2011 Surface Work
On the
Bishop-Montana Property

Claim Name No.	Tag No.	Expiry Date	#
Farm 1 to 6	YD17716 to YD17721	22-July-12	6
IN 1 to 10	YD29081 to YD29090	15-Sep-11	10
IN 11 to 12	YD 06597 to YD 06598	15-Sep-11	2
IN 13 to 23	YC95373 to YC95383	14-Oct-11	11
IN 24 to 227	YD101504 to YD101707	4-Nov-11	204
M 1 to 7	YD132351 to YD132357	4-Mar-12	7
M 8 to 11	YD132358 to YD132361	8-Mar-12	4
M 12	YD132362	15-Mar-12	1
M13	YD132363	8-Mar-12	1
M14 to 36	YD132364 to YD132386	15-Mar-12	23
M 37 to 41	YD105947 to YD105951	15-Mar-12	5
MT 1 to 74	YD19614 to YD19687	14-Jan-13	74
MT 75 to 80	YD129075 to YD129080	15-Mar-12	6
MT 81 to 86	YD132431 to YD132436	15-Mar-12	6
MT 87 to 182	YD19700 to YD19795	14-Jan-13	96
MT 183 to 196	YD19839 to YD19852	14-Jan-13	14
MT 197 to 236	YD19799 to YD19838	14-Jan-13	40
VMS 1 to 8	YC27160 to YC27167	2-Jul-11	8
VMS 9 to 16	YC27194 to YC27201	15-Jul-11	8

Dawson Mining District, Yukon
NTS Sheets 115O10 & 115O11
63°37' N., 139°02' W.

Operated by and Recorded to



By
Mark Fekete, P.Geo.
and
Ben Dubois, B.Sc., G.I.T
March 15, 2012

Volume II

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
101147	17/06/2011	ShawnTaylor	Bishop	598527	7058909	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	40	Moist	Excellent	ForestMixed
101148	17/06/2011	ShawnTaylor	Bishop	598569	7058909	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101149	17/06/2011	ShawnTaylor	Bishop	598617	7058911	UTM27N WGS84	Colluvium	Orange	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101150	17/06/2011	ShawnTaylor	Bishop	598670	7058924	UTM27N WGS84	Colluvium	Orange	Sand	Ridge	C	45	Moist	Excellent	ForestMixed
101151	17/06/2011	ShawnTaylor	Bishop	598725	7058939	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	40	Moist	Excellent	ForestMixed
101152	17/06/2011	ShawnTaylor	Bishop	598801	7059006	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101153	17/06/2011	ShawnTaylor	Bishop	598865	7059014	UTM27N WGS84	Colluvium	Purple	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101154	17/06/2011	ShawnTaylor	Bishop	598906	7058989	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101155	17/06/2011	ShawnTaylor	Bishop	598960	7058960	UTM27N WGS84	Colluvium	Purple	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101156	17/06/2011	ShawnTaylor	Bishop	599007	7058950	UTM27N WGS84	Colluvium	Purple	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101157	17/06/2011	ShawnTaylor	Bishop	599051	7058939	UTM27N WGS84	Colluvium	Purple	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101158	17/06/2011	ShawnTaylor	Bishop	599109	7058921	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101159	17/06/2011	ShawnTaylor	Bishop	599155	7058927	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	40	Moist	Excellent	ForestMixed
101160	17/06/2011	ShawnTaylor	Bishop	599213	7058925	UTM27N WGS84	Colluvium	Purple	Sand	Ridge	C	40	Moist	Excellent	ForestMixed
101161	17/06/2011	ShawnTaylor	Bishop	599259	7058915	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	40	Moist	Excellent	ForestMixed
101162	17/06/2011	ShawnTaylor	Bishop	599315	7058912	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
101163	17/06/2011	ShawnTaylor	Bishop	599359	7058903	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	40	Moist	Excellent	ForestMixed
101164	17/06/2011	ShawnTaylor	Bishop	599460	7058864	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	30	Moist	Poor	ForestMixed
101165	17/06/2011	ShawnTaylor	Bishop	599528	7058864	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	50	Moist	Excellent	ForestMixed
101166	17/06/2011	ShawnTaylor	Bishop	599546	7058852	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	50	Moist	Excellent	ForestMixed
101167	17/06/2011	ShawnTaylor	Bishop	599605	7058820	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Moist	Excellent	ForestMixed
101168	17/06/2011	ShawnTaylor	Bishop	599638	7058802	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	80	Moist	Excellent	ForestMixed
101169	17/06/2011	ShawnTaylor	Bishop	599689	7058789	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	60	Moist	Excellent	ForestMixed
101170	18/06/2011	ShawnTaylor	Bishop	596895	7061059	UTM27N WGS84	Colluvium	Grey	Sand	Flat	C	60	Moist	Excellent	ForestMixed
101171	18/06/2011	ShawnTaylor	Bishop	596843	7061022	UTM27N WGS84	Colluvium	Grey	Sand	Flat	C	50	Moist	Excellent	BurnNew
101172	18/06/2011	ShawnTaylor	Bishop	596808	7061003	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	50	Moist	Excellent	BurnNew
101173	18/06/2011	ShawnTaylor	Bishop	596753	7060974	UTM27N WGS84	Colluvium	Grey	Sand	Flat	C	50	Moist	Excellent	BurnNew
101174	18/06/2011	ShawnTaylor	Bishop	596717	7060954	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSW	C	50	Moist	Excellent	BurnNew
101175	18/06/2011	ShawnTaylor	Bishop	596668	7060936	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Frozen	Excellent	BurnNew
101176	18/06/2011	ShawnTaylor	Bishop	596618	7060917	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSW	C	40	Frozen	Excellent	BurnNew
101177	18/06/2011	ShawnTaylor	Bishop	596577	7060903	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Excellent	BurnNew
101178	18/06/2011	ShawnTaylor	Bishop	596543	7060878	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Excellent	BurnNew
101179	18/06/2011	ShawnTaylor	Bishop	596487	7060849	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	40	Moist	Excellent	BurnNew
101180	18/06/2011	ShawnTaylor	Bishop	596437	7060825	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	40	Moist	Excellent	BurnNew
101181	18/06/2011	ShawnTaylor	Bishop	596398	7060804	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	40	Moist	Excellent	BurnNew
101182	18/06/2011	ShawnTaylor	Bishop	596360	7060773	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	40	Moist	Excellent	BurnNew
101183	18/06/2011	ShawnTaylor	Bishop	596326	7060738	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	40	Moist	Excellent	BurnNew
101184	18/06/2011	ShawnTaylor	Bishop	596281	7060710	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	60	Frozen	Excellent	BurnNew
101185	18/06/2011	ShawnTaylor	Bishop	596134	7060663	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	40	Moist	Excellent	BurnNew
101186	18/06/2011	ShawnTaylor	Bishop	595826	7060611	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Frozen	Good	BurnNew
101187	18/06/2011	ShawnTaylor	Bishop	595760	7060616	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Frozen	Good	BurnOld
101188	18/06/2011	ShawnTaylor	Bishop	595739	7060613	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Frozen	Good	BurnNew
101189	18/06/2011	ShawnTaylor	Bishop	595670	7060591	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Moist	Excellent	BurnNew
101191	18/06/2011	ShawnTaylor	Bishop	595573	7060608	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	60	Moist	Excellent	BurnNew
101192	18/06/2011	ShawnTaylor	Bishop	595512	7060610	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	60	Moist	Excellent	BurnNew
102097	19/06/2011	JBHebsgaard	Bishop	597154	7064737	UTM27N WGS84	Soil	Brown	Sand	Flat	B	80	Moist	Good	BurnNew
102098	19/06/2011	JBHebsgaard	Bishop	597222	7064771	UTM27N WGS84	Alluvium	Brown	Sand	Flat	B	90	Moist	Good	BurnOld
102100	19/06/2011	JBHebsgaard	Bishop	597715	7064532	UTM27N WGS84	Alluvium	Blue	Gravel	ModerateN	C	60	Frozen	Good	BurnOld
102756	04/08/2011	JBHebsgaard	Bishop	596196	7061431	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	BurnOld
102757	04/08/2011	JBHebsgaard	Bishop	596248	7061425	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	BurnOld
102758	04/08/2011	JBHebsgaard	Bishop	596303	7061425	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	30	Moist	Poor	BurnOld
102759	04/08/2011	JBHebsgaard	Bishop	596350	7061441	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	80	Dry	Good	BurnOld
102760	04/08/2011	JBHebsgaard	Bishop	596396	7061427	UTM27N WGS84	Soil	Brown	Clay	Flat	B	80	Moist	Poor	BurnOld
102761	04/08/2011	JBHebsgaard	Bishop	596450	7061426	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	80	Wet	Poor	BurnOld
102762	04/08/2011	JBHebsgaard	Bishop	596489	7061433	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	60	Dry	Good	BurnOld
102763	04/08/2011	JBHebsgaard	Bishop	596542	7061432	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	60	Dry	Good	BurnOld
102764	04/08/2011	JBHebsgaard	Bishop	596589	7061434	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	40	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
102765	04/08/2011	JBHebsgaard	Bishop	596642	7061430	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Dry	Good	BurnOld
102766	04/08/2011	JBHebsgaard	Bishop	596698	7061432	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	40	Dry	Good	BurnOld
102767	04/08/2011	JBHebsgaard	Bishop	596753	7061427	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Good	BurnOld
102768	04/08/2011	JBHebsgaard	Bishop	596785	7061437	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	40	Dry	Good	BurnOld
102769	04/08/2011	JBHebsgaard	Bishop	596850	7061428	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Good	BurnOld
102770	04/08/2011	JBHebsgaard	Bishop	596908	7061431	UTM27N WGS84	Colluvium	RustyOrange	Gravel	Flat	C	40	Dry	Good	BurnOld
102771	04/08/2011	JBHebsgaard	Bishop	596954	7061427	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Dry	Good	BurnOld
102772	04/08/2011	JBHebsgaard	Bishop	596999	7061424	UTM27N WGS84	Colluvium	Brown	Gravel	Flat	B	40	Moist	Good	BurnOld
102773	04/08/2011	JBHebsgaard	Bishop	597045	7061426	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	50	Frozen	Poor	BurnOld
102774	04/08/2011	JBHebsgaard	Bishop	597093	7061429	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	40	Dry	Good	BurnOld
102775	04/08/2011	JBHebsgaard	Bishop	597155	7061427	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Dry	Poor	BurnOld
102776	04/08/2011	JBHebsgaard	Bishop	597197	7061438	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Dry	Good	BurnOld
102777	04/08/2011	JBHebsgaard	Bishop	597240	7061434	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Moist	Good	BurnOld
102778	04/08/2011	JBHebsgaard	Bishop	597291	7061430	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Moist	Poor	BurnOld
102779	04/08/2011	JBHebsgaard	Bishop	597350	7061423	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Moist	Poor	BurnOld
102780	04/08/2011	JBHebsgaard	Bishop	597395	7061423	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Moist	Poor	BurnOld
102876	09/08/2011	JBHebsgaard	Bishop	597441	7061621	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	40	Moist	Good	BurnOld
102877	09/08/2011	JBHebsgaard	Bishop	597390	7061631	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	80	Wet	Good	BurnOld
102878	09/08/2011	JBHebsgaard	Bishop	597350	7061630	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	40	Dry	Good	ForestBirch
102879	09/08/2011	JBHebsgaard	Bishop	597281	7061627	UTM27N WGS84	Colluvium	Brown	Gravel	Flat	C	80	Wet	Good	ForestBlackSpruce
102880	09/08/2011	JBHebsgaard	Bishop	597238	7061636	UTM27N WGS84	Colluvium	BrownDark	Sand	Flat	C	60	Dry	Excellent	ForestBlackSpruce
102881	09/08/2011	JBHebsgaard	Bishop	597196	7061634	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	ForestBlackSpruce
102882	09/08/2011	JBHebsgaard	Bishop	597144	7061639	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	100	Dry	Good	ForestBlackSpruce
102883	09/08/2011	JBHebsgaard	Bishop	597088	7061636	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	70	Dry	Excellent	BurnOld
102884	09/08/2011	JBHebsgaard	Bishop	597052	7061631	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Dry	Good	ForestBlackSpruce
102885	09/08/2011	JBHebsgaard	Bishop	596998	7061635	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	80	Dry	Good	BurnOld
102886	09/08/2011	JBHebsgaard	Bishop	596939	7061627	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	80	Dry	Good	BurnOld
102887	09/08/2011	JBHebsgaard	Bishop	596892	7061632	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	70	Dry	Good	BurnOld
102888	09/08/2011	JBHebsgaard	Bishop	596846	7061632	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	80	Dry	Good	BurnOld
102889	09/08/2011	JBHebsgaard	Bishop	596788	7061631	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	80	Moist	Good	DrainageAlder
102890	09/08/2011	JBHebsgaard	Bishop	596741	7061621	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Poor	BurnOld
102891	09/08/2011	JBHebsgaard	Bishop	596694	7061627	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	80	Moist	Poor	BurnOld
102892	09/08/2011	JBHebsgaard	Bishop	596648	7061630	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Wet	Poor	BurnOld
102893	09/08/2011	JBHebsgaard	Bishop	596541	7061636	UTM27N WGS84	Colluvium	Brown	Clay	Drainage	B	60	Wet	Poor	BurnOld
102894	09/08/2011	JBHebsgaard	Bishop	596492	7061627	UTM27N WGS84	Colluvium	Brown	Clay	Drainage	B	60	Dry	Good	BurnOld
102895	09/08/2011	JBHebsgaard	Bishop	596451	7061638	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Dry	Good	BurnOld
102896	09/08/2011	JBHebsgaard	Bishop	596402	7061628	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	50	Moist	Poor	BurnOld
102897	09/08/2011	JBHebsgaard	Bishop	596338	7061623	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	50	Dry	Poor	BurnOld
102898	09/08/2011	JBHebsgaard	Bishop	596295	7061638	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Dry	Good	BurnOld
102899	09/08/2011	JBHebsgaard	Bishop	596241	7061633	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	50	Dry	Good	BurnOld
102900	09/08/2011	JBHebsgaard	Bishop	596192	7061626	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
103139	17/06/2011	ChrisErdman	Bishop	593559	7058184	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	30	Moist	Good	BurnOld
103141	17/06/2011	ChrisErdman	Bishop	593604	7058191	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	BurnOld
103142	17/06/2011	ChrisErdman	Bishop	593640	7058228	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	20	Moist	Poor	BurnNew
103143	17/06/2011	ChrisErdman	Bishop	593707	7058235	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	30	Moist	Poor	BurnNew
103144	17/06/2011	ChrisErdman	Bishop	593748	7058252	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	BurnNew
103145	17/06/2011	ChrisErdman	Bishop	593798	7058289	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	B	20	Moist	Poor	BurnNew
103146	17/06/2011	ChrisErdman	Bishop	593838	7058293	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	B	20	Moist	Poor	BurnOld
103147	17/06/2011	ChrisErdman	Bishop	593885	7058316	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	B	30	Moist	Poor	BurnOld
103148	17/06/2011	ChrisErdman	Bishop	593937	7058340	UTM27N WGS84	Colluvium	Tan	Clay	ModerateE	B	30	Moist	Good	BurnNew
103149	17/06/2011	ChrisErdman	Bishop	593973	7058362	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	20	Moist	Poor	BurnOld
103150	17/06/2011	ChrisErdman	Bishop	594024	7058383	UTM27N WGS84	Colluvium	Tan	Clay	ModerateE	B	30	Dry	Good	BurnOld
103151	17/06/2011	ChrisErdman	Bishop	594070	7058394	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	B	50	Moist	Good	BurnOld
103152	17/06/2011	ChrisErdman	Bishop	594257	7058476	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	B	30	Moist	Good	BurnOld
103153	17/06/2011	ChrisErdman	Bishop	594295	7058498	UTM27N WGS84	Colluvium	Tan	Clay	ModerateE	B	30	Dry	Good	BurnOld
103154	17/06/2011	ChrisErdman	Bishop	594343	7058517	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Moist	Poor	BurnOld
103155	17/06/2011	ChrisErdman	Bishop	594394	7058528	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103156	17/06/2011	ChrisErdman	Bishop	594476	7058577	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Wet	Good	BurnOld
103157	17/06/2011	ChrisErdman	Bishop	594538	7058575	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	40	Moist	Good	BurnOld
103158	17/06/2011	ChrisErdman	Bishop	594578	7058593	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	60	Moist	Good	BurnOld
103159	17/06/2011	ChrisErdman	Bishop	594627	7058598	UTM27N WGS84	Colluvium	Tan	Sand	Flat	C	40	Dry	Excellent	BurnOld
103160	17/06/2011	ChrisErdman	Bishop	594672	7058598	UTM27N WGS84	Colluvium	White	Clay	Flat	C	50	Dry	Excellent	BurnOld
103161	17/06/2011	ChrisErdman	Bishop	594737	7058603	UTM27N WGS84	Colluvium	Tan	Clay	Flat	C	60	Dry	Excellent	BurnOld
103162	17/06/2011	ChrisErdman	Bishop	594789	7058599	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Moist	Excellent	BurnOld
103163	17/06/2011	ChrisErdman	Bishop	594828	7058613	UTM27N WGS84	Colluvium	Grey	Silt	Flat	C	60	Dry	Excellent	BurnOld
103164	17/06/2011	ChrisErdman	Bishop	594882	7058618	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Moist	Good	BurnOld
103165	17/06/2011	ChrisErdman	Bishop	594931	7058628	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	BurnOld
103166	17/06/2011	ChrisErdman	Bishop	594977	7058621	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	40	Dry	Excellent	BurnOld
103167	17/06/2011	ChrisErdman	Bishop	595025	7058608	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	BurnOld
103168	17/06/2011	ChrisErdman	Bishop	595088	7058636	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
103169	17/06/2011	ChrisErdman	Bishop	595124	7058641	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry	Excellent	BurnOld
103170	17/06/2011	ChrisErdman	Bishop	595173	7058634	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry	Excellent	BurnOld
103171	17/06/2011	ChrisErdman	Bishop	595228	7058631	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry	Excellent	BurnOld
103172	18/06/2011	ChrisErdman	Bishop	597821	7060568	UTM27N WGS84	Colluvium	Tan	Sand	ModerateE	C	50	Wet	Excellent	BurnOld
103173	18/06/2011	ChrisErdman	Bishop	597869	7060590	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Wet	Good	BurnOld
103174	18/06/2011	ChrisErdman	Bishop	597912	7060594	UTM27N WGS84	Colluvium	Tan	Sand	ModerateE	C	50	Wet	Excellent	BurnOld
103175	18/06/2011	ChrisErdman	Bishop	597960	7060611	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	60	Moist	Excellent	BurnOld
103176	18/06/2011	ChrisErdman	Bishop	598021	7060619	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
103177	18/06/2011	ChrisErdman	Bishop	598067	7060631	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Dry	Excellent	BurnOld
103178	18/06/2011	ChrisErdman	Bishop	598106	7060648	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateE	B	40	Frozen	Poor	BurnOld
103179	18/06/2011	ChrisErdman	Bishop	598159	7060662	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	50	Dry	Excellent	BurnOld
103180	18/06/2011	ChrisErdman	Bishop	598203	7060677	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	50	Dry	Excellent	BurnOld
103181	18/06/2011	ChrisErdman	Bishop	598249	7060690	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
103182	18/06/2011	ChrisErdman	Bishop	598293	7060701	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Excellent	BurnOld
103183	18/06/2011	ChrisErdman	Bishop	598352	7060717	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Dry	Excellent	BurnOld
103184	18/06/2011	ChrisErdman	Bishop	598390	7060727	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	40	Dry	Excellent	BurnOld
103185	18/06/2011	ChrisErdman	Bishop	598455	7060742	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	C	70	Moist	Good	BurnOld
103186	18/06/2011	ChrisErdman	Bishop	598491	7060763	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Moist	Good	BurnOld
103187	18/06/2011	ChrisErdman	Bishop	598537	7060777	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	C	60	Moist	Excellent	BurnOld
103188	18/06/2011	ChrisErdman	Bishop	598582	7060787	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	C	80	Moist	Good	BurnOld
103189	18/06/2011	ChrisErdman	Bishop	598632	7060810	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateE	B	60	Wet	Poor	BurnOld
103191	18/06/2011	ChrisErdman	Bishop	598722	7060880	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	80	Moist	Good	BurnOld
103192	18/06/2011	ChrisErdman	Bishop	598769	7060904	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Dry	Good	BurnOld
103193	18/06/2011	ChrisErdman	Bishop	598830	7060907	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Moist	Good	BurnOld
103194	18/06/2011	ChrisErdman	Bishop	598893	7060886	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateE	B	60	Moist	Good	BurnOld
103195	18/06/2011	ChrisErdman	Bishop	598943	7060905	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateE	B	60	Moist	Good	BurnOld
103196	18/06/2011	ChrisErdman	Bishop	598986	7060918	UTM27N WGS84	Colluvium	Grey	Silt	ModerateE	B	60	Moist	Poor	BurnOld
103197	18/06/2011	ChrisErdman	Bishop	599029	7060942	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Moist	Good	BurnOld
103198	18/06/2011	ChrisErdman	Bishop	599069	7060953	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Moist	Good	BurnOld
103199	18/06/2011	ChrisErdman	Bishop	599107	7060950	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Moist	Good	BurnOld
103200	18/06/2011	ChrisErdman	Bishop	599165	7060962	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	50	Frozen	Good	BurnOld
103201	18/06/2011	ChrisErdman	Bishop	599214	7060988	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Frozen	Poor	BurnOld
103202	18/06/2011	ChrisErdman	Bishop	599264	7060977	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
103203	18/06/2011	ChrisErdman	Bishop	599306	7060990	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	40	Dry	Excellent	BurnOld
103204	18/06/2011	ChrisErdman	Bishop	599358	7060994	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
103205	18/06/2011	ChrisErdman	Bishop	599401	7061010	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
103206	19/06/2011	ChrisErdman	Bishop	593965	7062254	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Wet	Good	BurnOld
103207	19/06/2011	ChrisErdman	Bishop	593977	7062302	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Moist	Good	BurnOld
103208	19/06/2011	ChrisErdman	Bishop	593993	7062332	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	B	60	Moist	Poor	BurnOld
103209	19/06/2011	ChrisErdman	Bishop	594038	7062374	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Wet	Good	BurnOld
103210	19/06/2011	ChrisErdman	Bishop	594065	7062416	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	50	Frozen	Good	BurnOld
103211	19/06/2011	ChrisErdman	Bishop	594084	7062463	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Frozen	Poor	BurnOld
103212	19/06/2011	ChrisErdman	Bishop	594195	7062593	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	B	30	Frozen	Poor	ForestBlackSpruce
103213	19/06/2011	ChrisErdman	Bishop	594885	7063139	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Moist	Poor	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103214	19/06/2011	ChrisErdman	Bishop	594991	7063194	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Frozen	Poor	BurnNew
105124	17/06/2011	JoeyTaylor	Bishop	595508	7058861	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Excellent	BurnNew
105125	17/06/2011	JoeyTaylor	Bishop	595521	7058800	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Good	BurnNew
105126	17/06/2011	JoeyTaylor	Bishop	595522	7058755	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	55	Moist	Excellent	BurnNew
105127	17/06/2011	JoeyTaylor	Bishop	595529	7058702	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Good	BurnNew
105128	17/06/2011	JoeyTaylor	Bishop	595537	7058657	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Good	BurnNew
105129	17/06/2011	JoeyTaylor	Bishop	595572	7058556	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	BurnOld
105130	17/06/2011	JoeyTaylor	Bishop	595574	7058502	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Moist	Excellent	BurnNew
105131	17/06/2011	JoeyTaylor	Bishop	595586	7058458	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	30	Dry	Poor	ForestMixed
105132	17/06/2011	JoeyTaylor	Bishop	595596	7058418	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	60	Moist	Excellent	ForestAspen
105133	17/06/2011	JoeyTaylor	Bishop	595626	7058358	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	55	Dry	Excellent	ForestAspen
105134	17/06/2011	JoeyTaylor	Bishop	595636	7058315	UTM27N WGS84	Colluvium	Blue	Silt	ModerateS	C	50	Dry	Excellent	ForestAspen
105135	17/06/2011	JoeyTaylor	Bishop	595658	7058270	UTM27N WGS84	Colluvium	Blue	Silt	ModerateS	C	50	Dry	Excellent	ForestAspen
105136	17/06/2011	JoeyTaylor	Bishop	595662	7058217	UTM27N WGS84	Colluvium	Grey	Silt	ModerateS	C	70	Dry	Excellent	BurnOld
105137	17/06/2011	JoeyTaylor	Bishop	595669	7058157	UTM27N WGS84	Colluvium	Grey	Silt	ModerateS	C	40	Moist	Good	BurnNew
105138	17/06/2011	JoeyTaylor	Bishop	595692	7058126	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	C	100	Frozen	Good	BurnNew
105139	17/06/2011	JoeyTaylor	Bishop	595701	7058074	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	70	Frozen	Good	BurnNew
105141	17/06/2011	JoeyTaylor	Bishop	595750	7058022	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	80	Frozen	Good	BurnNew
105142	17/06/2011	JoeyTaylor	Bishop	595755	7057988	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	80	Frozen	Good	BurnNew
105143	17/06/2011	JoeyTaylor	Bishop	595767	7057936	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	70	Frozen	Good	BurnNew
105144	17/06/2011	JoeyTaylor	Bishop	595780	7057894	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	70	Frozen	Good	BurnNew
105145	17/06/2011	JoeyTaylor	Bishop	595794	7057840	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	70	Frozen	Good	BurnNew
105146	17/06/2011	JoeyTaylor	Bishop	595813	7057797	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	50	Frozen	Good	BurnNew
105148	17/06/2011	JoeyTaylor	Bishop	595890	7057623	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	70	Frozen	Good	BurnNew
105149	17/06/2011	JoeyTaylor	Bishop	595919	7057565	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Frozen	Good	BurnNew
105150	17/06/2011	JoeyTaylor	Bishop	595982	7057389	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	40	Frozen	Poor	BurnOld
105151	17/06/2011	JoeyTaylor	Bishop	596053	7057246	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	40	Frozen	Poor	BurnOld
105152	17/06/2011	JoeyTaylor	Bishop	596083	7057202	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	B	40	Frozen	Poor	BurnOld
105153	18/06/2011	JoeyTaylor	Bishop	599276	7059249	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Frozen	Poor	BurnOld
105154	18/06/2011	JoeyTaylor	Bishop	599282	7059192	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist	Poor	BurnNew
105155	18/06/2011	JoeyTaylor	Bishop	599320	7059147	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	BurnNew
105156	18/06/2011	JoeyTaylor	Bishop	599339	7059096	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	B	30	Moist	Poor	BurnNew
105157	18/06/2011	JoeyTaylor	Bishop	599367	7059068	UTM27N WGS84	Colluvium	Purple	Silt	ModerateN	C	30	Moist	Good	BurnNew
105158	18/06/2011	JoeyTaylor	Bishop	599376	7059017	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	BurnNew
105159	18/06/2011	JoeyTaylor	Bishop	599411	7058979	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist	Poor	BurnNew
105160	18/06/2011	JoeyTaylor	Bishop	599462	7058888	UTM27N WGS84	Colluvium	Red	Silt	Ridge	C	55	Dry	Excellent	BurnOld
105161	18/06/2011	JoeyTaylor	Bishop	599446	7058834	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	25	Moist	Poor	ForestMixed
105162	18/06/2011	JoeyTaylor	Bishop	599431	7058794	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	30	Moist	Poor	ForestMixed
105163	18/06/2011	JoeyTaylor	Bishop	599432	7058738	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	ForestMixed
105164	18/06/2011	JoeyTaylor	Bishop	599428	7058687	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
105165	18/06/2011	JoeyTaylor	Bishop	599408	7058639	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	ForestMixed
105166	18/06/2011	JoeyTaylor	Bishop	599397	7058583	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
105167	18/06/2011	JoeyTaylor	Bishop	599395	7058549	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	B	30	Dry	Good	BurnNew
105168	18/06/2011	JoeyTaylor	Bishop	599404	7058481	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	30	Dry	Good	ForestFir
105169	18/06/2011	JoeyTaylor	Bishop	599409	7058445	UTM27N WGS84	Colluvium	Grey	Silt	ModerateS	B	30	Dry	Good	ForestAspen
105170	18/06/2011	JoeyTaylor	Bishop	599401	7058383	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	ForestAspen
105171	18/06/2011	JoeyTaylor	Bishop	599398	7058328	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
105172	18/06/2011	JoeyTaylor	Bishop	599425	7058287	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Excellent	BurnOld
105173	18/06/2011	JoeyTaylor	Bishop	599466	7058245	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	BurnNew
105174	18/06/2011	JoeyTaylor	Bishop	599483	7058213	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	BurnNew
105175	18/06/2011	JoeyTaylor	Bishop	599516	7058165	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	35	Moist	Good	BurnNew
105176	18/06/2011	JoeyTaylor	Bishop	599517	7058109	UTM27N WGS84	Colluvium	Purple	Sand	ModerateS	C	60	Dry	Excellent	BurnNew
105177	18/06/2011	JoeyTaylor	Bishop	599561	7058076	UTM27N WGS84	Colluvium	Purple	Sand	ModerateS	C	70	Dry	Excellent	BurnNew
105178	18/06/2011	JoeyTaylor	Bishop	599595	7058054	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	C	90	Moist	Excellent	BurnNew
105179	18/06/2011	JoeyTaylor	Bishop	599631	7058028	UTM27N WGS84	Colluvium	Purple	Silt	ModerateS	C	50	Moist	Good	BurnNew
105180	19/06/2011	JoeyTaylor	Bishop	597075	7063510	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Good	BurnNew
105181	19/06/2011	JoeyTaylor	Bishop	597117	7063541	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Good	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
105182	19/06/2011	JoeyTaylor	Bishop	597136	7063581	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	80	Moist	Excellent	BurnNew
105183	19/06/2011	JoeyTaylor	Bishop	597168	7063631	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
105184	19/06/2011	JoeyTaylor	Bishop	597172	7063673	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Dry	Good	BurnNew
105185	19/06/2011	JoeyTaylor	Bishop	597208	7063715	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Moist	Excellent	BurnNew
105186	19/06/2011	JoeyTaylor	Bishop	597231	7063768	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
105187	19/06/2011	JoeyTaylor	Bishop	597252	7063802	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	70	Dry	Excellent	BurnNew
105188	19/06/2011	JoeyTaylor	Bishop	597271	7063847	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	80	Dry	Excellent	BurnNew
105189	19/06/2011	JoeyTaylor	Bishop	597291	7063892	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	70	Dry	Excellent	BurnNew
105190	19/06/2011	JoeyTaylor	Bishop	597316	7063945	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
105192	19/06/2011	JoeyTaylor	Bishop	597327	7063983	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	55	Dry	Excellent	BurnNew
105193	19/06/2011	JoeyTaylor	Bishop	597361	7064027	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
105194	19/06/2011	JoeyTaylor	Bishop	597371	7064081	UTM27N WGS84	Colluvium	Blue	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
105195	19/06/2011	JoeyTaylor	Bishop	597394	7064115	UTM27N WGS84	Colluvium	Blue	Sand	ModerateN	C	65	Dry	Excellent	BurnNew
105196	19/06/2011	JoeyTaylor	Bishop	597419	7064159	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	100	Dry	Excellent	BurnNew
105197	19/06/2011	JoeyTaylor	Bishop	597467	7064191	UTM27N WGS84	Colluvium	Blue	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
105198	19/06/2011	JoeyTaylor	Bishop	597501	7064242	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Moist	Good	BurnNew
105199	19/06/2011	JoeyTaylor	Bishop	597568	7064298	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	60	Moist	Good	BurnNew
105200	19/06/2011	JoeyTaylor	Bishop	597607	7064344	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	50	Frozen	Good	BurnNew
105201	19/06/2011	JoeyTaylor	Bishop	597635	7064378	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	50	Dry	Good	BurnNew
105202	19/06/2011	JoeyTaylor	Bishop	597656	7064428	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	BurnNew
105203	19/06/2011	JoeyTaylor	Bishop	597679	7064490	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist	Good	BurnNew
105204	19/06/2011	JoeyTaylor	Bishop	597768	7064577	UTM27N WGS84	Alluvium	Brown	Gravel	ModerateN	C	40	Dry	Good	BurnNew
109157	17/06/2011	IanLauzon	Bishop	593620	7058166	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Good	BurnOld
109158	17/06/2011	IanLauzon	Bishop	593663	7058134	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	30	Moist	Poor	BurnOld
109159	17/06/2011	IanLauzon	Bishop	593718	7058122	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	30	Moist	Poor	BurnOld
109160	17/06/2011	IanLauzon	Bishop	593766	7058119	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	20	Moist	Poor	BurnOld
109161	17/06/2011	IanLauzon	Bishop	593802	7058099	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	BurnOld
109162	17/06/2011	IanLauzon	Bishop	593860	7058093	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	BurnOld
109163	17/06/2011	IanLauzon	Bishop	593901	7058069	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Good	ForestBirch
109164	17/06/2011	IanLauzon	Bishop	593964	7058056	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	30	Moist	Poor	ForestBirch
109165	17/06/2011	IanLauzon	Bishop	594001	7058044	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	ForestBirch
109166	17/06/2011	IanLauzon	Bishop	594054	7058022	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	30	Moist	Good	ForestBirch
109167	17/06/2011	IanLauzon	Bishop	594095	7058023	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	30	Wet	Poor	ForestBirch
109168	17/06/2011	IanLauzon	Bishop	594156	7057996	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	30	Moist	Good	ForestBirch
109169	17/06/2011	IanLauzon	Bishop	594178	7057963	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	40	Moist	Good	ForestAspen
109170	17/06/2011	IanLauzon	Bishop	594218	7057942	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	30	Moist	Good	ForestAspen
109171	17/06/2011	IanLauzon	Bishop	594250	7057914	UTM27N WGS84	Colluvium	Red	Silt	Ridge	C	40	Dry	Excellent	ForestAspen
109172	17/06/2011	IanLauzon	Bishop	594299	7057865	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Frozen	Excellent	ForestAspen
109173	17/06/2011	IanLauzon	Bishop	594327	7057835	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	30	Dry	Good	ForestAspen
109174	17/06/2011	IanLauzon	Bishop	594364	7057805	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	50	Dry	Excellent	ForestAspen
109175	17/06/2011	IanLauzon	Bishop	594424	7057786	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	30	Dry	Good	ForestAspen
109176	17/06/2011	IanLauzon	Bishop	594453	7057750	UTM27N WGS84	Colluvium	Red	Silt	Ridge	C	40	Dry	Excellent	ForestAspen
109177	17/06/2011	IanLauzon	Bishop	594489	7057722	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	30	Dry	Excellent	ForestAspen
109178	17/06/2011	IanLauzon	Bishop	594518	7057680	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	30	Moist	Good	ForestAspen
109179	17/06/2011	IanLauzon	Bishop	594553	7057638	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	30	Dry	Good	ForestAspen
109180	17/06/2011	IanLauzon	Bishop	594582	7057596	UTM27N WGS84	Colluvium	Tan	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
109181	17/06/2011	IanLauzon	Bishop	594607	7057572	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestBlackSpruce
109182	17/06/2011	IanLauzon	Bishop	594650	7057536	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Moist	Good	ForestMixed
109183	17/06/2011	IanLauzon	Bishop	594701	7057503	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
109184	17/06/2011	IanLauzon	Bishop	594744	7057474	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	30	Dry	Excellent	ForestBlackSpruce
109185	17/06/2011	IanLauzon	Bishop	594783	7057455	UTM27N WGS84	Colluvium	Orange	Silt	Ridge	C	80	Dry	Excellent	ForestBlackSpruce
109186	17/06/2011	IanLauzon	Bishop	594833	7057400	UTM27N WGS84	Colluvium	Orange	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
109187	17/06/2011	IanLauzon	Bishop	594870	7057375	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Good	ForestMixed
109189	18/06/2011	IanLauzon	Bishop	596991	7061026	UTM27N WGS84	Colluvium	Tan	Sand	Flat	C	60	Dry	Excellent	BurnOld
109191	18/06/2011	IanLauzon	Bishop	596993	7060991	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	70	Moist	Good	BurnOld
109192	18/06/2011	IanLauzon	Bishop	597010	7060934	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	80	Moist	Good	BurnOld
109193	18/06/2011	IanLauzon	Bishop	597025	7060884	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	40	Moist	Poor	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109194	18/06/2011	IanLauzon	Bishop	597031	7060834	UTM27N WGS84	Colluvium	Green	Clay	Flat	C	40	Moist	Poor	BurnOld
109195	18/06/2011	IanLauzon	Bishop	597034	7060790	UTM27N WGS84	Colluvium	Green	Clay	Flat	C	60	Frozen	Poor	BurnOld
109196	18/06/2011	IanLauzon	Bishop	597034	7060742	UTM27N WGS84	Colluvium	Green	Clay	ModerateNE	B	40	Frozen	Poor	BurnOld
109197	18/06/2011	IanLauzon	Bishop	597096	7060642	UTM27N WGS84	Colluvium	Orange	Sand	ModerateNE	C	50	Moist	Good	BurnOld
109198	18/06/2011	IanLauzon	Bishop	597135	7060496	UTM27N WGS84	Colluvium	Brown	Sand	Flat	B	30	Moist	Good	BurnOld
109199	18/06/2011	IanLauzon	Bishop	597160	7060444	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	50	Dry	Good	BurnOld
109200	18/06/2011	IanLauzon	Bishop	597189	7060411	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	40	Dry	Good	BurnOld
109201	18/06/2011	IanLauzon	Bishop	597204	7060363	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	50	Dry	Excellent	BurnOld
109202	18/06/2011	IanLauzon	Bishop	597210	7060319	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	50	Dry	Excellent	BurnOld
109203	18/06/2011	IanLauzon	Bishop	597234	7060276	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	70	Frozen	Excellent	BurnOld
109204	18/06/2011	IanLauzon	Bishop	597268	7060233	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	70	Moist	Good	BurnOld
109205	18/06/2011	IanLauzon	Bishop	597293	7060189	UTM27N WGS84	Regolith	RustyOrange	Silt	Flat	C	60	Moist	Good	BurnOld
109206	18/06/2011	IanLauzon	Bishop	597314	7060135	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	30	Dry	Excellent	BurnOld
109207	18/06/2011	IanLauzon	Bishop	597327	7060093	UTM27N WGS84	Colluvium	RustyOrange	Sand	Flat	C	40	Dry	Excellent	BurnOld
109208	18/06/2011	IanLauzon	Bishop	597342	7060040	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	50	Moist	Good	BurnOld
109209	18/06/2011	IanLauzon	Bishop	597366	7060002	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	30	Moist	Poor	BurnOld
109210	18/06/2011	IanLauzon	Bishop	597246	7060367	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	C	40	Moist	Good	BurnOld
109211	18/06/2011	IanLauzon	Bishop	597299	7060390	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	40	Moist	Good	BurnOld
109212	18/06/2011	IanLauzon	Bishop	597340	7060411	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	70	Dry	Excellent	BurnOld
109213	18/06/2011	IanLauzon	Bishop	597386	7060425	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	40	Moist	Good	BurnOld
109214	18/06/2011	IanLauzon	Bishop	597524	7060482	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
109215	18/06/2011	IanLauzon	Bishop	597582	7060499	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateE	B	40	Moist	Poor	BurnOld
109216	18/06/2011	IanLauzon	Bishop	597614	7060509	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	40	Dry	Good	BurnOld
109217	18/06/2011	IanLauzon	Bishop	597666	7060522	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	70	Moist	Good	BurnOld
109218	18/06/2011	IanLauzon	Bishop	597714	7060544	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	60	Moist	Poor	BurnOld
109219	18/06/2011	IanLauzon	Bishop	597764	7060564	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
109220	19/06/2011	IanLauzon	Bishop	596231	7063397	UTM27N WGS84	Colluvium	Green	Clay	Flat	B	50	Moist	Poor	BurnOld
109221	19/06/2011	IanLauzon	Bishop	596281	7063422	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	60	Moist	Poor	BurnOld
109222	19/06/2011	IanLauzon	Bishop	596325	7063418	UTM27N WGS84	Colluvium	Green	Clay	Flat	B	60	Moist	Poor	BurnOld
109815	03/08/2011	IanLauzon	Bishop	594755	7062228	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	40	Dry	Good	BurnOld
109816	03/08/2011	IanLauzon	Bishop	594701	7062226	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	30	Wet	Poor	BurnOld
109817	03/08/2011	IanLauzon	Bishop	594648	7062221	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Moist	Poor	BurnOld
109818	03/08/2011	IanLauzon	Bishop	594591	7062224	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	80	Moist	Poor	BurnOld
109819	03/08/2011	IanLauzon	Bishop	594553	7062233	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	60	Moist	Poor	BurnOld
109820	03/08/2011	IanLauzon	Bishop	594490	7062223	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	60	Wet	Poor	BurnOld
109821	03/08/2011	IanLauzon	Bishop	594445	7062211	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Moist	Poor	BurnOld
109822	03/08/2011	IanLauzon	Bishop	594299	7062220	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	60	Wet	Poor	BurnOld
109823	03/08/2011	IanLauzon	Bishop	594246	7062219	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	80	Wet	Poor	BurnOld
109824	03/08/2011	IanLauzon	Bishop	594198	7062216	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateE	B	60	Wet	Poor	BurnOld
109825	03/08/2011	IanLauzon	Bishop	594143	7062218	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Moist	Poor	BurnOld
109826	03/08/2011	IanLauzon	Bishop	594049	7062224	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	60	Wet	Poor	BurnOld
109827	03/08/2011	IanLauzon	Bishop	593950	7062219	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Moist	Good	BurnOld
109828	03/08/2011	IanLauzon	Bishop	593899	7062235	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry	Good	BurnOld
109829	03/08/2011	IanLauzon	Bishop	593895	7062327	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry	Good	BurnOld
109830	03/08/2011	IanLauzon	Bishop	593939	7062327	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Moist	Good	BurnOld
109831	03/08/2011	IanLauzon	Bishop	593999	7062331	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Wet	Poor	BurnOld
109832	03/08/2011	IanLauzon	Bishop	594040	7062336	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateE	B	50	Wet	Poor	BurnOld
109833	03/08/2011	IanLauzon	Bishop	594089	7062332	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateE	B	60	Wet	Poor	BurnOld
109834	03/08/2011	IanLauzon	Bishop	594147	7062329	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Wet	Poor	BurnOld
109835	03/08/2011	IanLauzon	Bishop	594232	7062323	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Moist	Good	BurnOld
109836	03/08/2011	IanLauzon	Bishop	594290	7062319	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateE	B	60	Moist	Poor	BurnOld
109837	03/08/2011	IanLauzon	Bishop	594343	7062327	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	60	Wet	Poor	BurnOld
109838	03/08/2011	IanLauzon	Bishop	594395	7062332	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	60	Moist	Poor	BurnOld
109839	03/08/2011	IanLauzon	Bishop	594458	7062334	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Wet	Poor	BurnOld
109840	03/08/2011	IanLauzon	Bishop	594536	7062325	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	60	Moist	Poor	BurnOld
109842	03/08/2011	IanLauzon	Bishop	594592	7062321	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Poor	BurnOld
109843	03/08/2011	IanLauzon	Bishop	594646	7062334	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	60	Wet	Poor	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109844	03/08/2011	IanLauzon	Bishop	594706	7062319	UTMZ7N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Good	BurnOld
109845	04/08/2011	IanLauzon	Bishop	596144	7061324	UTMZ7N WGS84	Colluvium	BrownDark	Silt	Flat	B	60	Wet	Poor	BurnOld
109846	04/08/2011	IanLauzon	Bishop	596199	7061323	UTMZ7N WGS84	Colluvium	Orange	Silt	ModerateW	C	60	Dry	Good	BurnOld
109847	04/08/2011	IanLauzon	Bishop	596246	7061332	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist	Poor	BurnOld
109848	04/08/2011	IanLauzon	Bishop	596297	7061329	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist	Poor	BurnOld
109849	04/08/2011	IanLauzon	Bishop	596344	7061343	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
109850	04/08/2011	IanLauzon	Bishop	596393	7061348	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Dry	Poor	BurnOld
109851	04/08/2011	IanLauzon	Bishop	596449	7061339	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	B	40	Dry	Poor	BurnOld
109852	04/08/2011	IanLauzon	Bishop	596491	7061330	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateW	B	60	Wet	Poor	BurnOld
109853	04/08/2011	IanLauzon	Bishop	596560	7061323	UTMZ7N WGS84	Colluvium	Tan	Silt	ModerateW	B	40	Dry	Good	BurnOld
109854	04/08/2011	IanLauzon	Bishop	596597	7061323	UTMZ7N WGS84	Colluvium	Tan	Silt	ModerateW	B	40	Dry	Good	BurnOld
109855	04/08/2011	IanLauzon	Bishop	596646	7061312	UTMZ7N WGS84	Colluvium	Tan	Sand	ModerateW	B	40	Moist	Good	BurnOld
109856	04/08/2011	IanLauzon	Bishop	596700	7061323	UTMZ7N WGS84	Colluvium	Tan	Silt	ModerateW	B	40	Dry	Good	BurnOld
109857	04/08/2011	IanLauzon	Bishop	596744	7061324	UTMZ7N WGS84	Colluvium	Tan	Sand	ModerateW	B	40	Dry	Good	BurnOld
109858	04/08/2011	IanLauzon	Bishop	596800	7061328	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Poor	BurnOld
109859	04/08/2011	IanLauzon	Bishop	596839	7061343	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateW	B	40	Dry	Good	BurnOld
109860	04/08/2011	IanLauzon	Bishop	596932	7061318	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	B	40	Moist	Good	BurnOld
109861	04/08/2011	IanLauzon	Bishop	597005	7061321	UTMZ7N WGS84	Colluvium	Tan	Silt	Flat	C	50	Dry	Good	BurnOld
109862	04/08/2011	IanLauzon	Bishop	597048	7061317	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	40	Dry	Good	BurnOld
109863	04/08/2011	IanLauzon	Bishop	597106	7061320	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Dry	Poor	BurnOld
109864	04/08/2011	IanLauzon	Bishop	597158	7061322	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Good	BurnOld
109865	04/08/2011	IanLauzon	Bishop	597193	7061318	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Good	BurnOld
109866	04/08/2011	IanLauzon	Bishop	597254	7061316	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	B	60	Moist	Good	BurnOld
109867	04/08/2011	IanLauzon	Bishop	597292	7061327	UTMZ7N WGS84	Colluvium	Tan	Silt	ModerateNE	C	40	Dry	Good	BurnOld
109868	04/08/2011	IanLauzon	Bishop	597348	7061316	UTMZ7N WGS84	Colluvium	Tan	Clay	ModerateNE	B	60	Moist	Poor	BurnOld
109869	04/08/2011	IanLauzon	Bishop	597401	7061308	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateNE	C	60	Moist	Excellent	BurnOld
109870	04/08/2011	IanLauzon	Bishop	597447	7061327	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Moist	Good	BurnOld
110250	17/06/2011	JoelDemers	Bishop	597337	7059936	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	80	Dry	Excellent	BurnOld
110251	17/06/2011	JoelDemers	Bishop	597344	7059894	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Excellent	BurnOld
110252	17/06/2011	JoelDemers	Bishop	597360	7059837	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Good	BurnOld
110253	17/06/2011	JoelDemers	Bishop	597389	7059795	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
110254	17/06/2011	JoelDemers	Bishop	597421	7059759	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Excellent	BurnOld
110255	17/06/2011	JoelDemers	Bishop	597427	7059692	UTMZ7N WGS84	Colluvium	Grey	Silt	Flat	C	60	Dry		BurnOld
110256	17/06/2011	JoelDemers	Bishop	597457	7059632	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Excellent	BurnOld
110257	17/06/2011	JoelDemers	Bishop	597481	7059609	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	C	60	Dry	Good	BurnOld
110258	17/06/2011	JoelDemers	Bishop	597490	7059567	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	40	Dry	Excellent	BurnOld
110259	17/06/2011	JoelDemers	Bishop	597490	7059526	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	BurnOld
110260	17/06/2011	JoelDemers	Bishop	597472	7059478	UTMZ7N WGS84	Lithosoil	Green	Gravel	Flat	C	40	Dry	Excellent	BurnOld
110261	17/06/2011	JoelDemers	Bishop	597473	7059425	UTMZ7N WGS84	Lithosoil	Green	Gravel	ModerateN	C	40	Dry	Excellent	BurnOld
110262	17/06/2011	JoelDemers	Bishop	597472	7059380	UTMZ7N WGS84	Colluvium	Green	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110263	17/06/2011	JoelDemers	Bishop	597488	7059323	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	60	Dry		BurnOld
110264	17/06/2011	JoelDemers	Bishop	597466	7059266	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	50	Dry	Excellent	BurnOld
110265	17/06/2011	JoelDemers	Bishop	597470	7059216	UTMZ7N WGS84	Colluvium	BrownLight	Sand	SteepE	C	50	Dry	Excellent	BurnOld
110266	17/06/2011	JoelDemers	Bishop	597449	7059177	UTMZ7N WGS84	Colluvium	BrownLight	Sand	SteepE	C	40	Dry	Excellent	ForestMixed
110267	17/06/2011	JoelDemers	Bishop	597456	7059131	UTMZ7N WGS84	Colluvium	BrownDark	Sand	ModerateE	C	50	Dry	Excellent	ForestMixed
110268	17/06/2011	JoelDemers	Bishop	597464	7059055	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateE	C	70	Dry	Excellent	BurnOld
110269	17/06/2011	JoelDemers	Bishop	597471	7059026	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateE	C	70	Dry	Excellent	ForestMixed
110270	17/06/2011	JoelDemers	Bishop	597444	7059001	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
110271	17/06/2011	JoelDemers	Bishop	597426	7058960	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
110272	17/06/2011	JoelDemers	Bishop	597453	7058925	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateE	C	50	Dry	Excellent	ForestMixed
110273	17/06/2011	JoelDemers	Bishop	597452	7058883	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Good	ForestMixed
110274	17/06/2011	JoelDemers	Bishop	597448	7058827	UTMZ7N WGS84	Lithosoil	Brown	Silt	ModerateE	C	40	Dry	Good	ForestMixed
110275	17/06/2011	JoelDemers	Bishop	597456	7058740	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Good	ForestMixed
110276	18/06/2011	JoelDemers	Bishop	595438	7060575	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	30	Dry	Good	BurnOld
110277	18/06/2011	JoelDemers	Bishop	595380	7060570	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
110278	18/06/2011	JoelDemers	Bishop	595326	7060586	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
110279	18/06/2011	JoelDemers	Bishop	595284	7060592	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	50	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
110280	18/06/2011	JoelDemers	Bishop	595225	7060597	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
110281	18/06/2011	JoelDemers	Bishop	595184	7060615	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	30	Dry	Good	BurnOld
110282	18/06/2011	JoelDemers	Bishop	595139	7060639	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	50	Dry	Excellent	BurnOld
110283	18/06/2011	JoelDemers	Bishop	595080	7060644	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	50	Dry	Excellent	BurnOld
110284	18/06/2011	JoelDemers	Bishop	595032	7060654	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Ridge	C	70	Dry	Excellent	BurnOld
110285	18/06/2011	JoelDemers	Bishop	594985	7060658	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Ridge	C	40	Dry	Excellent	BurnOld
110286	18/06/2011	JoelDemers	Bishop	594928	7060650	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	60	Dry	Excellent	BurnOld
110287	18/06/2011	JoelDemers	Bishop	594889	7060678	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
110288	18/06/2011	JoelDemers	Bishop	594849	7060684	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	ForestBirch
110289	18/06/2011	JoelDemers	Bishop	594793	7060691	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
110291	18/06/2011	JoelDemers	Bishop	594747	7060723	UTMZ7N WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	BurnOld
110292	18/06/2011	JoelDemers	Bishop	594694	7060719	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Excellent	BurnOld
110293	18/06/2011	JoelDemers	Bishop	594648	7060722	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	80	Dry	Excellent	BurnOld
110294	18/06/2011	JoelDemers	Bishop	594591	7060742	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110295	18/06/2011	JoelDemers	Bishop	594539	7060769	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110296	18/06/2011	JoelDemers	Bishop	594509	7060792	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110297	18/06/2011	JoelDemers	Bishop	594538	7060817	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	70	Dry	Excellent	BurnOld
110298	18/06/2011	JoelDemers	Bishop	594581	7060863	UTMZ7N WGS84	Colluvium	Brown	Clay	Ridge	C	80	Moist	Good	BurnOld
110299	19/06/2011	JoelDemers	Bishop	597355	7062323	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	50	Moist	Good	BurnOld
110300	19/06/2011	JoelDemers	Bishop	597372	7062341	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
110301	19/06/2011	JoelDemers	Bishop	597401	7062382	UTMZ7N WGS84	Colluvium	RustyOrange	Gravel	ModerateNE	C	50	Dry	Excellent	BurnOld
110302	19/06/2011	JoelDemers	Bishop	597433	7062417	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
110303	19/06/2011	JoelDemers	Bishop	597466	7062464	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	70	Dry	Excellent	BurnOld
110304	19/06/2011	JoelDemers	Bishop	597498	7062498	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	50	Dry	Excellent	BurnOld
110305	19/06/2011	JoelDemers	Bishop	597525	7062536	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
110306	19/06/2011	JoelDemers	Bishop	597583	7062552	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
110307	19/06/2011	JoelDemers	Bishop	597627	7062574	UTMZ7N WGS84	Colluvium	BrownLight	Gravel	ModerateNE	C	60	Dry	Excellent	BurnOld
110308	19/06/2011	JoelDemers	Bishop	597677	7062591	UTMZ7N WGS84	Colluvium	BrownLight	Gravel	ModerateNE	C	60	Dry	Excellent	BurnOld
110309	19/06/2011	JoelDemers	Bishop	597725	7062606	UTMZ7N WGS84	Colluvium	BrownLight	Gravel	Flat	C	70	Moist	Excellent	BurnOld
110741	30/07/2011	JoelDemers	Bishop	594765	7060878	UTMZ7N WGS84	Colluvium	Grey	Clay		B	80	Moist	Good	
110742	30/07/2011	JoelDemers	Bishop	594724	7060858	UTMZ7N WGS84	Colluvium	Grey	Clay		B	80	Wet	Good	
110743	30/07/2011	JoelDemers	Bishop	594668	7060875	UTMZ7N WGS84	Colluvium	Brown	Silt		C	70	Moist	Excellent	
110744	30/07/2011	JoelDemers	Bishop	594615	7060867	UTMZ7N WGS84	Colluvium	Grey	Silt		C	70	Dry	Excellent	
110745	30/07/2011	JoelDemers	Bishop	594572	7060868	UTMZ7N WGS84	Colluvium	Grey	Clay		B	85	Moist	Good	
110746	30/07/2011	JoelDemers	Bishop	594517	7060869	UTMZ7N WGS84	Colluvium	Grey	Clay		B	105	Moist	Good	
110747	30/07/2011	JoelDemers	Bishop	594465	7060863	UTMZ7N WGS84	Colluvium	Grey	Clay		B	80	Moist	Good	
110748	30/07/2011	JoelDemers	Bishop	594412	7060871	UTMZ7N WGS84	Colluvium	BrownLight	Clay		C	80	Dry	Excellent	
110749	30/07/2011	JoelDemers	Bishop	594370	7060869	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	75	Dry	Excellent	
110750	30/07/2011	JoelDemers	Bishop	594322	7060874	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	85	Dry	Excellent	
110751	30/07/2011	JoelDemers	Bishop	594269	7060871	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	60	Dry	Excellent	
110752	30/07/2011	JoelDemers	Bishop	594226	7060871	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	45	Dry	Excellent	
110753	30/07/2011	JoelDemers	Bishop	594177	7060868	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	65	Dry	Excellent	
110754	30/07/2011	JoelDemers	Bishop	594123	7060870	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	70	Dry	Excellent	
110755	30/07/2011	JoelDemers	Bishop	594073	7060871	UTMZ7N WGS84	Lithosoil	RustyOrange	Gravel		C	35	Dry	Good	
110756	30/07/2011	JoelDemers	Bishop	594024	7060869	UTMZ7N WGS84	Lithosoil	Brown	Silt		C	40	Dry	Good	
110757	30/07/2011	JoelDemers	Bishop	593968	7060874	UTMZ7N WGS84	Lithosoil	Brown	Silt		C	45	Dry	Good	
110758	30/07/2011	JoelDemers	Bishop	593913	7060870	UTMZ7N WGS84	Colluvium	Brown	Silt		C	65	Dry	Excellent	
110759	30/07/2011	JoelDemers	Bishop	593933	7060778	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	
110760	30/07/2011	JoelDemers	Bishop	593986	7060770	UTMZ7N WGS84	Colluvium	Grey	Silt		C	50	Dry	Excellent	
110761	30/07/2011	JoelDemers	Bishop	594031	7060776	UTMZ7N WGS84	Colluvium	Grey	Silt		C	40	Dry	Good	
110762	30/07/2011	JoelDemers	Bishop	594076	7060769	UTMZ7N WGS84	Colluvium	Grey	Clay		C	45	Dry	Good	
110763	30/07/2011	JoelDemers	Bishop	594127	7060772	UTMZ7N WGS84	Colluvium	Grey	Clay		C	70	Dry	Good	
110764	30/07/2011	JoelDemers	Bishop	594175	7060770	UTMZ7N WGS84	Colluvium	Grey	Clay		C	65	Moist	Good	
110765	30/07/2011	JoelDemers	Bishop	594232	7060770	UTMZ7N WGS84	Colluvium	Brown	Silt		C	70	Moist	Excellent	
110766	30/07/2011	JoelDemers	Bishop	594278	7060773	UTMZ7N WGS84	Colluvium	Grey	Clay		B	75	Dry	Good	
110767	30/07/2011	JoelDemers	Bishop	594326	7060771	UTMZ7N WGS84	Colluvium	Brown	Clay		C	70	Dry	Good	
110768	30/07/2011	JoelDemers	Bishop	594375	7060765	UTMZ7N WGS84	Colluvium	Grey	Clay		B	70	Dry	Good	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
110769	30/07/2011	JoelDemers	Bishop	594422	7060759	UTMZ7N WGS84	Colluvium	Brown	Silt		C	75	Dry	Excellent	
110770	30/07/2011	JoelDemers	Bishop	594471	7060773	UTMZ7N WGS84	Colluvium	Brown	Clay		B	70	Dry	Good	
110771	30/07/2011	JoelDemers	Bishop	594532	7060776	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	650	Dry	Excellent	
110772	30/07/2011	JoelDemers	Bishop	594583	7060763	UTMZ7N WGS84	Colluvium	BrownLight	Clay		C	70	Dry	Good	
110773	30/07/2011	JoelDemers	Bishop	594630	7060771	UTMZ7N WGS84	Colluvium	Grey	Clay		C	70	Dry	Excellent	
110774	30/07/2011	JoelDemers	Bishop	594678	7060771	UTMZ7N WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
110775	30/07/2011	JoelDemers	Bishop	594731	7060777	UTMZ7N WGS84	Colluvium	Brown	Silt		C	80	Dry	Excellent	
110776	30/07/2011	JoelDemers	Bishop	594774	7060771	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
110777	31/07/2011	JoelDemers	Bishop	594768	7060367	UTMZ7N WGS84	Colluvium	Grey	Clay		B	70	Wet	Poor	
110778	31/07/2011	JoelDemers	Bishop	594720	7060370	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
110779	31/07/2011	JoelDemers	Bishop	594674	7060365	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	
110780	31/07/2011	JoelDemers	Bishop	594620	7060368	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
110781	31/07/2011	JoelDemers	Bishop	594570	7060372	UTMZ7N WGS84	Colluvium	Brown	Silt		C	70	Frozen	Good	
110782	31/07/2011	JoelDemers	Bishop	594526	7060375	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	65	Dry	Good	
110783	31/07/2011	JoelDemers	Bishop	594455	7060376	UTMZ7N WGS84	Colluvium	Brown	Silt		C	65	Dry	Good	
110784	31/07/2011	JoelDemers	Bishop	594424	7060381	UTMZ7N WGS84	Colluvium	Brown	Silt		C	50	Frozen	Good	
110785	31/07/2011	JoelDemers	Bishop	594374	7060367	UTMZ7N WGS84	Colluvium	Brown	Silt		C	55	Dry	Excellent	
110786	31/07/2011	JoelDemers	Bishop	594318	7060369	UTMZ7N WGS84	Colluvium	Brown	Silt		C	70	Frozen	Good	
110787	31/07/2011	JoelDemers	Bishop	594267	7060385	UTMZ7N WGS84	Colluvium	Grey	Clay		B	70	Wet	Poor	
110788	31/07/2011	JoelDemers	Bishop	594208	7060367	UTMZ7N WGS84	Colluvium	Grey	Clay		B	40	Wet	Poor	
110789	31/07/2011	JoelDemers	Bishop	594170	7060372	UTMZ7N WGS84	Colluvium	Grey	Clay		B	70	Wet	Poor	
110790	31/07/2011	JoelDemers	Bishop	594128	7060367	UTMZ7N WGS84	Colluvium	Grey	Clay		B	85	Wet	Good	
110791	31/07/2011	JoelDemers	Bishop	594079	7060369	UTMZ7N WGS84	Colluvium	Grey	Clay		B	80	Wet	Poor	
110792	31/07/2011	JoelDemers	Bishop	594019	7060379	UTMZ7N WGS84	Colluvium	Grey	Clay		B	90	Wet	Poor	
110793	31/07/2011	JoelDemers	Bishop	593976	7060372	UTMZ7N WGS84	Colluvium	Grey	Clay		B	80	Wet	Poor	
110794	31/07/2011	JoelDemers	Bishop	593927	7060394	UTMZ7N WGS84	Colluvium	Grey	Clay		B	80	Wet	Poor	
110795	31/07/2011	JoelDemers	Bishop	593927	7060478	UTMZ7N WGS84	Colluvium	Grey	Clay		B	75	Wet	Poor	
110796	31/07/2011	JoelDemers	Bishop	593966	7060472	UTMZ7N WGS84	Colluvium	Grey	Clay		B	100	Wet	Good	
110797	31/07/2011	JoelDemers	Bishop	594034	7060471	UTMZ7N WGS84	Colluvium	Grey	Clay		B	80	Wet	Poor	
110798	31/07/2011	JoelDemers	Bishop	594074	7060476	UTMZ7N WGS84	Colluvium	Grey	Clay		B	65	Moist	Good	
110799	31/07/2011	JoelDemers	Bishop	594132	7060478	UTMZ7N WGS84	Colluvium	Grey	Clay		B	75	Moist	Good	
110800	31/07/2011	JoelDemers	Bishop	594186	7060478	UTMZ7N WGS84	Colluvium	Grey	Clay		B	75	Moist	Good	
110801	31/07/2011	JoelDemers	Bishop	594216	7060464	UTMZ7N WGS84	Colluvium	Grey	Clay		B	90	Wet	Good	
110802	31/07/2011	JoelDemers	Bishop	594272	7060485	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	65	Frozen	Excellent	
110803	31/07/2011	JoelDemers	Bishop	594327	7060464	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Moist	Excellent	
110804	31/07/2011	JoelDemers	Bishop	594370	7060464	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	55	Dry	Excellent	
110805	31/07/2011	JoelDemers	Bishop	594421	7060468	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	50	Dry	Excellent	
110806	31/07/2011	JoelDemers	Bishop	594469	7060472	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	60	Dry	Excellent	
110807	31/07/2011	JoelDemers	Bishop	594513	7060467	UTMZ7N WGS84	Colluvium	Red	Silt		C	55	Dry	Excellent	
110808	31/07/2011	JoelDemers	Bishop	594573	7060465	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70	Dry	Excellent	
110809	31/07/2011	JoelDemers	Bishop	594622	7060469	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	45	Dry	Excellent	
110810	31/07/2011	JoelDemers	Bishop	594675	7060464	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60	Dry	Excellent	
110811	31/07/2011	JoelDemers	Bishop	594730	7060474	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	60	Dry	Excellent	
110812	31/07/2011	JoelDemers	Bishop	594772	7060464	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	
111350	17/06/2011	JordanHarrington	Bishop	596040	7058436	UTMZ7N WGS84	Lithosoil	RustyOrange	Sand	ModerateS	C	30	Dry	Good	BurnOld
111351	17/06/2011	JordanHarrington	Bishop	596092	7058412	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	50	Dry	Excellent	BurnOld
111352	17/06/2011	JordanHarrington	Bishop	596344	7058179	UTMZ7N WGS84	Soil	RustyOrange	Silt	Ridge	C	80	Dry	Excellent	BurnOld
111353	17/06/2011	JordanHarrington	Bishop	596368	7058149	UTMZ7N WGS84	Lithosoil	RustyOrange	Sand	Ridge	C	30	Dry	Good	BurnOld
111354	17/06/2011	JordanHarrington	Bishop	596416	7058116	UTMZ7N WGS84	Lithosoil	Yellow	Sand	Ridge	C	50	Dry	Good	BurnOld
111355	17/06/2011	JordanHarrington	Bishop	596459	7058098	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	80	Dry	Excellent	BurnOld
111356	17/06/2011	JordanHarrington	Bishop	596518	7058090	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	60	Dry	Good	BurnOld
111357	17/06/2011	JordanHarrington	Bishop	596557	7058056	UTMZ7N WGS84	Soil	RustyOrange	Silt	Ridge	C	80	Dry	Good	BurnOld
111358	17/06/2011	JordanHarrington	Bishop	596589	7058007	UTMZ7N WGS84	Lithosoil	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
111359	17/06/2011	JordanHarrington	Bishop	596644	7057997	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	90	Frozen	Good	BurnOld
111360	17/06/2011	JordanHarrington	Bishop	596685	7057984	UTMZ7N WGS84	Soil	BrownLight	Silt	Ridge	C	70	Moist	Good	BurnOld
111361	17/06/2011	JordanHarrington	Bishop	596702	7057917	UTMZ7N WGS84	Soil	BrownLight	Silt	Ridge	C	60	Frozen	Good	BurnOld
111362	17/06/2011	JordanHarrington	Bishop	596733	7057873	UTMZ7N WGS84	Lithosoil	RustyOrange	Sand	Ridge	C	40	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111363	17/06/2011	JordanHarrington	Bishop	596757	7057825	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Excellent	BurnOld
111364	17/06/2011	JordanHarrington	Bishop	596768	7057784	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	60	Dry	Good	BurnOld
111365	17/06/2011	JordanHarrington	Bishop	596761	7057732	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry	Excellent	BurnOld
111366	17/06/2011	JordanHarrington	Bishop	596782	7057681	UTM27N WGS84	Lithosoil	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111367	17/06/2011	JordanHarrington	Bishop	596794	7057642	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
111368	17/06/2011	JordanHarrington	Bishop	596817	7057592	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Moist	Good	ForestMixed
111369	17/06/2011	JordanHarrington	Bishop	596827	7057540	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
111370	17/06/2011	JordanHarrington	Bishop	596833	7057494	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Excellent	ForestMixed
111371	17/06/2011	JordanHarrington	Bishop	596853	7057437	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	60	Moist	Good	ForestBlackSpruce
111372	17/06/2011	JordanHarrington	Bishop	596883	7057418	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	50	Moist	Good	ForestBlackSpruce
111373	17/06/2011	JordanHarrington	Bishop	596917	7057378	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Good	ForestBlackSpruce
111374	17/06/2011	JordanHarrington	Bishop	596922	7057311	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Moist	Good	ForestBlackSpruce
111375	17/06/2011	JordanHarrington	Bishop	596949	7057264	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Moist	Good	ForestBlackSpruce
111376	17/06/2011	JordanHarrington	Bishop	596966	7057225	UTM27N WGS84	Soil	Grey	Clay	Flat	C	80	Wet	Good	ForestBlackSpruce
111377	17/06/2011	JordanHarrington	Bishop	596992	7057150	UTM27N WGS84		Grey	Clay	Flat	C	50	Wet	Good	ForestBlackSpruce
111378	18/06/2011	JordanHarrington	Bishop	596952	7061140	UTM27N WGS84	Lithosoil	Grey	Silt	Flat	C	30	Moist	Good	ForestBlackSpruce
111379	18/06/2011	JordanHarrington	Bishop	596928	7061173	UTM27N WGS84	Lithosoil	Grey	Silt	Flat	C	40	Moist	Good	ForestBlackSpruce
111380	18/06/2011	JordanHarrington	Bishop	596938	7061229	UTM27N WGS84	Lithosoil	Brown	Silt	Ridge	C	40	Dry	Good	ForestBlackSpruce
111381	18/06/2011	JordanHarrington	Bishop	596920	7061271	UTM27N WGS84	Lithosoil	Brown	Silt	Ridge	C	30	Dry	Good	ForestMixed
111382	18/06/2011	JordanHarrington	Bishop	596844	7061383	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	40	Dry	Good	ForestMixed
111383	18/06/2011	JordanHarrington	Bishop	596814	7061434	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	40	Dry	Good	ForestBirch
111384	18/06/2011	JordanHarrington	Bishop	596798	7061477	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	50	Frozen	Good	ForestMixed
111385	18/06/2011	JordanHarrington	Bishop	596787	7061525	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Moist	Good	ForestBlackSpruce
111386	18/06/2011	JordanHarrington	Bishop	596767	7061576	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen	Good	ForestBlackSpruce
111387	18/06/2011	JordanHarrington	Bishop	596737	7061612	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Wet	Good	ForestBlackSpruce
111388	18/06/2011	JordanHarrington	Bishop	596714	7061655	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Frozen	Good	ForestBlackSpruce
111389	18/06/2011	JordanHarrington	Bishop	596692	7061707	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen	Good	ForestBlackSpruce
111391	18/06/2011	JordanHarrington	Bishop	596648	7061731	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen	Good	ForestBlackSpruce
111392	18/06/2011	JordanHarrington	Bishop	596628	7061786	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen	Good	ForestBlackSpruce
111393	18/06/2011	JordanHarrington	Bishop	596590	7061816	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	60	Frozen	Good	BurnOld
111394	18/06/2011	JordanHarrington	Bishop	596557	7061853	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	70	Frozen	Good	ForestBlackSpruce
111395	18/06/2011	JordanHarrington	Bishop	596530	7061882	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	60	Dry	Good	ForestBlackSpruce
111396	18/06/2011	JordanHarrington	Bishop	596492	7061932	UTM27N WGS84	Soil	Grey	Silt	Flat	B	30	Wet	Good	ForestBlackSpruce
111397	19/06/2011	JordanHarrington	Bishop	596906	7061322	UTM27N WGS84	Lithosoil	BrownLight	Sand	Ridge	C	40	Dry	Good	ForestMixed
111398	19/06/2011	JordanHarrington	Bishop	596934	7061360	UTM27N WGS84	Lithosoil	RustyOrange	Sand	Flat	C	40	Dry	Good	ForestBlackSpruce
111399	19/06/2011	JordanHarrington	Bishop	596922	7061418	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	50	Dry	Good	ForestMixed
111400	19/06/2011	JordanHarrington	Bishop	596925	7061460	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	40	Dry	Good	ForestMixed
111401	19/06/2011	JordanHarrington	Bishop	596944	7061502	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	40	Frozen	Good	ForestBlackSpruce
111402	19/06/2011	JordanHarrington	Bishop	596978	7061562	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	B	30	Frozen	Good	ForestBlackSpruce
111403	19/06/2011	JordanHarrington	Bishop	596990	7061600	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Frozen	Good	ForestBlackSpruce
111404	19/06/2011	JordanHarrington	Bishop	596997	7061656	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Frozen	Good	ForestBlackSpruce
111405	19/06/2011	JordanHarrington	Bishop	597009	7061707	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Dry	Good	ForestBlackSpruce
111406	19/06/2011	JordanHarrington	Bishop	597038	7061753	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Dry	Good	ForestBlackSpruce
111407	19/06/2011	JordanHarrington	Bishop	597073	7061798	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	50	Wet	Good	ForestMixed
111408	19/06/2011	JordanHarrington	Bishop	597100	7061851	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	40	Frozen	Good	ForestMixed
111409	19/06/2011	JordanHarrington	Bishop	597100	7061910	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Dry	Good	ForestMixed
111410	19/06/2011	JordanHarrington	Bishop	597064	7061937	UTM27N WGS84	Soil	Brown	Sand	Flat	C	40	Frozen	Good	ForestMixed
111411	19/06/2011	JordanHarrington	Bishop	597053	7061986	UTM27N WGS84	Soil	Brown	Sand	Flat	C	30	Moist	Good	ForestMixed
111412	19/06/2011	JordanHarrington	Bishop	597041	7062051	UTM27N WGS84	Soil	Brown	Sand	ModerateNW	C	40	Frozen	Good	ForestMixed
111413	19/06/2011	JordanHarrington	Bishop	597018	7062088	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	40	Frozen	Good	ForestMixed
111414	19/06/2011	JordanHarrington	Bishop	596997	7062130	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	30	Frozen	Good	ForestMixed
111415	19/06/2011	JordanHarrington	Bishop	596989	7062181	UTM27N WGS84	Soil	Grey	Clay	ModerateNW	C	80	Frozen	Good	ForestMixed
111416	19/06/2011	JordanHarrington	Bishop	596981	7062235	UTM27N WGS84	Soil	Brown	Clay	ModerateNW	B	60	Frozen	Good	ForestMixed
111417	19/06/2011	JordanHarrington	Bishop	596967	7062277	UTM27N WGS84	Soil	Brown	Clay	ModerateNW	B	60	Frozen	Good	ForestMixed
111418	19/06/2011	JordanHarrington	Bishop	596937	7062337	UTM27N WGS84	Soil	Brown	Clay	ModerateNW	C	80	Frozen	Good	ForestMixed
111419	19/06/2011	JordanHarrington	Bishop	596918	7062370	UTM27N WGS84	Soil	RustyOrange	Sand	ModerateNW	C	60	Frozen	Good	ForestMixed
111420	19/06/2011	JordanHarrington	Bishop	596917	7062431	UTM27N WGS84	Soil	RustyOrange	Sand	ModerateNW	C	50	Frozen	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111421	19/06/2011	JordanHarrington	Bishop	596885	7062472	UTM27N WGS84	Soil	Brown	Sand	ModerateNW	C	30	Dry	Good	ForestMixed
111422	19/06/2011	JordanHarrington	Bishop	596864	7062514	UTM27N WGS84	Soil	RustyOrange	Sand	ModerateNW	C	60	Frozen	Good	ForestMixed
111423	19/06/2011	JordanHarrington	Bishop	596827	7062548	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	70	Frozen	Good	ForestMixed
111424	19/06/2011	JordanHarrington	Bishop	596791	7062587	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	40	Frozen	Good	ForestMixed
111425	19/06/2011	JordanHarrington	Bishop	596774	7062627	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	40	Frozen	Good	ForestMixed
112994	31/07/2011	JoshJudson	Bishop	594741	7062030	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	0.6	Moist	Good	BurnOld
112995	31/07/2011	JoshJudson	Bishop	594694	7062027	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	0.6	Moist	Good	BurnOld
112996	31/07/2011	JoshJudson	Bishop	594641	7062029	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	0.5	Moist	Good	BurnOld
112997	31/07/2011	JoshJudson	Bishop	594594	7062028	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	0.6	Moist	Good	BurnOld
112998	31/07/2011	JoshJudson	Bishop	594547	7062027	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	0.9	Moist	Good	BurnOld
112999	31/07/2011	JoshJudson	Bishop	594499	7062028	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	0.5	Moist	Good	BurnOld
113000	31/07/2011	JoshJudson	Bishop	594444	7062028	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	B	0.8	Moist	Good	BurnOld
113816	09/08/2011	HugoGirard	Bishop	597198	7061841	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	0.5	Moist	Poor	BurnOld
113817	09/08/2011	HugoGirard	Bishop	597241	7061825	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	1.1	Moist	Poor	BurnOld
113818	09/08/2011	HugoGirard	Bishop	597291	7061835	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.9	Wet	Poor	BurnOld
113819	09/08/2011	HugoGirard	Bishop	597338	7061826	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.9	Wet	Good	BurnOld
113820	09/08/2011	HugoGirard	Bishop	597393	7061835	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.9	Wet	Poor	BurnOld
113821	09/08/2011	HugoGirard	Bishop	597446	7061829	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	C	1	Wet	Poor	BurnOld
113822	09/08/2011	HugoGirard	Bishop	597446	7061731	UTM27N WGS84	Colluvium	Grey	Silt	ModerateE	B	1	Wet	Poor	BurnOld
113823	09/08/2011	HugoGirard	Bishop	597399	7061725	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.9	Wet	Poor	BurnOld
113824	09/08/2011	HugoGirard	Bishop	597349	7061736	UTM27N WGS84	Colluvium	Yellow	Silt	ModerateE	C	0.9	Wet	Good	BurnOld
113825	09/08/2011	HugoGirard	Bishop	597293	7061728	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	1	Dry	Good	BurnOld
113826	09/08/2011	HugoGirard	Bishop	597239	7061724	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Poor	BurnOld
113827	09/08/2011	HugoGirard	Bishop	597199	7061732	UTM27N WGS84	Colluvium	Yellow	Silt	ModerateNE	C	1	Wet	Good	BurnOld
113829	09/08/2011	HugoGirard	Bishop	597156	7061737	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	0.9	Wet	Poor	BurnOld
113830	09/08/2011	HugoGirard	Bishop	597102	7061739	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	1	Wet	Good	BurnOld
113831	09/08/2011	HugoGirard	Bishop	597054	7061726	UTM27N WGS84	Colluvium	Orange	Silt	ModerateN	C	0.4	Dry	Good	BurnOld
113832	09/08/2011	HugoGirard	Bishop	596994	7061733	UTM27N WGS84	Colluvium	Orange	Silt	ModerateN	C	0.9	Dry	Excellent	BurnOld
113833	09/08/2011	HugoGirard	Bishop	596950	7061723	UTM27N WGS84	Colluvium	Orange	Silt	ModerateN	C	1	Dry	Excellent	BurnOld
113834	09/08/2011	HugoGirard	Bishop	596894	7061733	UTM27N WGS84	Colluvium	Yellow	Silt	ModerateNW	C	0.5	Dry	Excellent	BurnOld
113835	09/08/2011	HugoGirard	Bishop	596845	7061727	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	0.6	Dry	Excellent	BurnOld
113836	09/08/2011	HugoGirard	Bishop	596790	7061730	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	0.7	Moist	Good	BurnOld
113837	09/08/2011	HugoGirard	Bishop	596740	7061730	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	0.7	Moist	Excellent	BurnOld
113838	09/08/2011	HugoGirard	Bishop	596690	7061735	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	0.6	Dry	Excellent	BurnOld
113839	09/08/2011	HugoGirard	Bishop	596647	7061735	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateNW	B	0.8	Moist	Good	BurnOld
113840	09/08/2011	HugoGirard	Bishop	596596	7061730	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	0.7	Moist	Good	BurnOld
113841	09/08/2011	HugoGirard	Bishop	596536	7061731	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	B	0.6	Wet	Poor	BurnOld
113842	09/08/2011	HugoGirard	Bishop	596490	7061719	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	0.6	Wet	Poor	BurnOld
113843	09/08/2011	HugoGirard	Bishop	596443	7061738	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	0.4	Dry	Good	BurnOld
113845	09/08/2011	HugoGirard	Bishop	596396	7061723	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	0.4	Moist	Excellent	BurnOld
113846	09/08/2011	HugoGirard	Bishop	596343	7061725	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	B	0.5	Moist	Good	BurnOld
113847	09/08/2011	HugoGirard	Bishop	596293	7061730	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNW	B	0.6	Moist	Good	BurnOld
113848	09/08/2011	HugoGirard	Bishop	596247	7061730	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	0.7	Dry	Excellent	BurnOld
113849	09/08/2011	HugoGirard	Bishop	596194	7061724	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	0.6	Moist	Poor	BurnOld
113850	09/08/2011	HugoGirard	Bishop	596145	7061736	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	0.6	Moist	Good	BurnOld
114368	30/07/2011	LaurenWilson	Bishop	594772	7060974	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateNW	B	40	Moist	Poor	BurnOld
114369	30/07/2011	LaurenWilson	Bishop	594726	7060962	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	40	Wet	Poor	BurnOld
114370	30/07/2011	LaurenWilson	Bishop	594668	7060958	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	100	Moist	Poor	BurnOld
114371	30/07/2011	LaurenWilson	Bishop	594622	7060958	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114372	30/07/2011	LaurenWilson	Bishop	594571	7060968	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	100	Moist	Excellent	BurnOld
114373	30/07/2011	LaurenWilson	Bishop	594524	7060972	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114374	30/07/2011	LaurenWilson	Bishop	594474	7060965	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114375	30/07/2011	LaurenWilson	Bishop	594429	7060951	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	ForestBlackSpruce
114376	30/07/2011	LaurenWilson	Bishop	594377	7060974	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	B	50	Moist	Good	ForestBlackSpruce
114377	30/07/2011	LaurenWilson	Bishop	594326	7060970	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	60	Dry	Poor	BurnOld
114378	30/07/2011	LaurenWilson	Bishop	594278	7060961	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	45	Dry	Poor	BurnOld
114379	30/07/2011	LaurenWilson	Bishop	594225	7060970	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	45	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
114380	30/07/2011	LaurenWilson	Bishop	594176	7060964	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Moist	Poor	BurnOld
114381	30/07/2011	LaurenWilson	Bishop	594119	7060969	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	50	Dry	Good	BurnOld
114382	30/07/2011	LaurenWilson	Bishop	594063	7060973	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	60	Moist	Good	BurnOld
114383	30/07/2011	LaurenWilson	Bishop	594022	7060974	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	60	Dry	Good	BurnOld
114384	30/07/2011	LaurenWilson	Bishop	593971	7060963	UTM27N WGS84	Colluvium	RustyRed	Silt	ModerateNW	B	30	Moist	Poor	BurnOld
114385	30/07/2011	LaurenWilson	Bishop	593923	7060998	UTM27N WGS84	Colluvium	RustyRed	Silt	ModerateNW	B	30	Moist	Poor	BurnOld
114386	30/07/2011	LaurenWilson	Bishop	593921	7061078	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	30	Moist	Poor	BurnOld
114387	30/07/2011	LaurenWilson	Bishop	593985	7061069	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	20	Dry	Poor	BurnOld
114388	30/07/2011	LaurenWilson	Bishop	594040	7061067	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114389	30/07/2011	LaurenWilson	Bishop	594081	7061063	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Wet	Poor	BurnOld
114391	30/07/2011	LaurenWilson	Bishop	594126	7061074	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114392	30/07/2011	LaurenWilson	Bishop	594174	7061066	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	40	Moist	Poor	BurnOld
114393	30/07/2011	LaurenWilson	Bishop	594232	7061059	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114394	30/07/2011	LaurenWilson	Bishop	594280	7061064	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	80	Wet	Poor	BurnOld
114395	30/07/2011	LaurenWilson	Bishop	594330	7061059	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	50	Moist	Poor	BurnOld
114396	30/07/2011	LaurenWilson	Bishop	594393	7061073	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Wet	Poor	BurnOld
114397	30/07/2011	LaurenWilson	Bishop	594433	7061065	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	50	Wet	Poor	BurnOld
114398	30/07/2011	LaurenWilson	Bishop	594486	7061059	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	50	Moist	Poor	BurnOld
114399	30/07/2011	LaurenWilson	Bishop	594531	7061061	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114400	30/07/2011	LaurenWilson	Bishop	594583	7061067	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	60	Moist	Poor	BurnOld
114401	30/07/2011	LaurenWilson	Bishop	594627	7061069	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114402	30/07/2011	LaurenWilson	Bishop	594677	7061079	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	80	Moist	Poor	BurnOld
114403	30/07/2011	LaurenWilson	Bishop	594727	7061054	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Wet	Poor	BurnOld
114404	30/07/2011	LaurenWilson	Bishop	594777	7061063	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114405	31/07/2011	LaurenWilson	Bishop	594767	7060673	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	20	Dry	Good	BurnOld
114406	31/07/2011	LaurenWilson	Bishop	594716	7060670	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Good	BurnOld
114407	31/07/2011	LaurenWilson	Bishop	594665	7060670	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Poor	BurnOld
114408	31/07/2011	LaurenWilson	Bishop	594621	7060678	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	60	Moist	Good	BurnOld
114409	31/07/2011	LaurenWilson	Bishop	594570	7060668	UTM27N WGS84	Colluvium	BrownLight	Clay	Ridge	B	80	Moist	Good	BurnOld
114410	31/07/2011	LaurenWilson	Bishop	594518	7060680	UTM27N WGS84	Colluvium	BrownLight	Clay	Ridge	B	60	Moist	Good	BurnOld
114411	31/07/2011	LaurenWilson	Bishop	594475	7060666	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	60	Dry	Good	BurnOld
114412	31/07/2011	LaurenWilson	Bishop	594421	7060673	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	70	Moist	Good	BurnOld
114413	31/07/2011	LaurenWilson	Bishop	594370	7060678	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	60	Moist	Good	BurnOld
114414	31/07/2011	LaurenWilson	Bishop	594317	7060666	UTM27N WGS84	Colluvium	BrownLight	Clay	Ridge	B	60	Moist	Good	BurnOld
114415	31/07/2011	LaurenWilson	Bishop	594271	7060667	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	70	Moist	Good	BurnOld
114416	31/07/2011	LaurenWilson	Bishop	594224	7060672	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Good	BurnOld
114417	31/07/2011	LaurenWilson	Bishop	594172	7060674	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	80	Wet	Poor	BurnOld
114418	31/07/2011	LaurenWilson	Bishop	594120	7060671	UTM27N WGS84	Colluvium	BrownLight	Clay	Ridge	B	60	Moist	Poor	BurnOld
114419	31/07/2011	LaurenWilson	Bishop	594073	7060669	UTM27N WGS84	Colluvium	BrownLight	Clay	Ridge	B	70	Moist	Poor	BurnOld
114420	31/07/2011	LaurenWilson	Bishop	594020	7060670	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateS	B	70	Moist	Poor	BurnOld
114421	31/07/2011	LaurenWilson	Bishop	593970	7060657	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateS	B	100	Moist	Poor	BurnOld
114422	31/07/2011	LaurenWilson	Bishop	593930	7060657	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateS	B	100	Moist	Good	BurnOld
114423	31/07/2011	LaurenWilson	Bishop	593927	7060571	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	70	Wet	Good	BurnOld
114424	31/07/2011	LaurenWilson	Bishop	593972	7060567	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	70	Moist	Good	BurnOld
114425	31/07/2011	LaurenWilson	Bishop	594016	7060567	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	80	Moist	Good	BurnOld
114426	31/07/2011	LaurenWilson	Bishop	594081	7060560	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	60	Moist	Good	BurnOld
114427	31/07/2011	LaurenWilson	Bishop	594133	7060569	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	80	Moist	Good	BurnOld
114428	31/07/2011	LaurenWilson	Bishop	594182	7060561	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	100	Moist	Good	BurnOld
114429	31/07/2011	LaurenWilson	Bishop	594229	7060561	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	80	Moist	Good	BurnOld
114430	31/07/2011	LaurenWilson	Bishop	594272	7060578	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	80	Moist	Good	BurnOld
114431	31/07/2011	LaurenWilson	Bishop	594323	7060569	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Moist	Good	BurnOld
114432	31/07/2011	LaurenWilson	Bishop	594385	7060562	UTM27N WGS84	Colluvium	Tan	Sand	ModerateS	C	80	Dry	Good	BurnOld
114433	31/07/2011	LaurenWilson	Bishop	594428	7060572	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	60	Dry	Good	BurnOld
114434	31/07/2011	LaurenWilson	Bishop	594488	7060574	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Good	BurnOld
114435	31/07/2011	LaurenWilson	Bishop	594531	7060579	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	B	80	Moist	Good	BurnOld
114436	31/07/2011	LaurenWilson	Bishop	594582	7060578	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	B	60	Dry	Good	BurnOld
114437	31/07/2011	LaurenWilson	Bishop	594622	7060560	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	B	70	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
114438	31/07/2011	LaurenWilson	Bishop	594679	7060558	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	B	70	Moist	Good	BurnOld
114439	31/07/2011	LaurenWilson	Bishop	594733	7060575	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	B	70	Moist	Good	BurnOld
114441	31/07/2011	LaurenWilson	Bishop	594781	7060568	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	60	Dry	Good	BurnOld
114442	03/08/2011	LaurenWilson	Bishop	596146	7060928	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	60	Moist	Poor	BurnOld
114443	03/08/2011	LaurenWilson	Bishop	596196	7060930	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	B	55	Moist	Good	BurnOld
114444	03/08/2011	LaurenWilson	Bishop	596248	7060945	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	80	Wet	Poor	BurnOld
114445	03/08/2011	LaurenWilson	Bishop	596294	7060946	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	B	80	Moist	Good	BurnOld
114446	03/08/2011	LaurenWilson	Bishop	596348	7060940	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	60	Moist	Good	BurnOld
114447	03/08/2011	LaurenWilson	Bishop	596453	7060929	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	B	40	Wet	Good	BurnOld
114448	03/08/2011	LaurenWilson	Bishop	596500	7060926	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	B	70	Moist	Good	BurnOld
114449	03/08/2011	LaurenWilson	Bishop	596544	7060941	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	B	50	Dry	Good	BurnOld
114450	03/08/2011	LaurenWilson	Bishop	596601	7060937	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	B	40	Dry	Good	BurnOld
114451	03/08/2011	LaurenWilson	Bishop	596647	7060937	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	B	40	Dry	Good	BurnOld
114452	03/08/2011	LaurenWilson	Bishop	596706	7060930	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	60	Dry	Good	BurnOld
114453	03/08/2011	LaurenWilson	Bishop	596752	7060931	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	B	60	Dry	Good	BurnOld
114454	03/08/2011	LaurenWilson	Bishop	597444	7060939	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	BurnOld
114455	03/08/2011	LaurenWilson	Bishop	597389	7060937	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	60	Dry	Good	BurnOld
114456	03/08/2011	LaurenWilson	Bishop	597344	7060944	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSW	B	60	Wet	Poor	BurnOld
114457	03/08/2011	LaurenWilson	Bishop	597295	7060930	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	B	50	Moist	Poor	BurnOld
114458	03/08/2011	LaurenWilson	Bishop	597245	7060947	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	B	40	Moist	Poor	BurnOld
114459	03/08/2011	LaurenWilson	Bishop	597189	7060931	UTM27N WGS84	Colluvium	Grey	Silt	ModerateSW	B	40	Moist	Poor	BurnOld
114460	03/08/2011	LaurenWilson	Bishop	597146	7060936	UTM27N WGS84	Colluvium	Grey	Silt	ModerateSW	B	40	Moist	Poor	BurnOld
114461	03/08/2011	LaurenWilson	Bishop	597081	7060932	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSW	B	40	Dry	Good	BurnOld
114462	03/08/2011	LaurenWilson	Bishop	597041	7060926	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Good	BurnOld
114463	03/08/2011	LaurenWilson	Bishop	596990	7060924	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSW	B	60	Dry	Poor	BurnOld
114464	03/08/2011	LaurenWilson	Bishop	596938	7060925	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSW	B	40	Dry	Good	BurnOld
114465	03/08/2011	LaurenWilson	Bishop	596887	7060928	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	70	Moist	Poor	BurnOld
114466	03/08/2011	LaurenWilson	Bishop	596837	7060925	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSW	B	40	Moist	Good	BurnOld
114467	03/08/2011	LaurenWilson	Bishop	596796	7060933	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	80	Moist	Good	BurnOld
114468	04/08/2011	LaurenWilson	Bishop	596135	7061118	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateNW	B	60	Wet	Poor	BurnOld
114469	04/08/2011	LaurenWilson	Bishop	596192	7061128	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Wet	Poor	BurnOld
114470	04/08/2011	LaurenWilson	Bishop	596244	7061131	UTM27N WGS84									
114471	04/08/2011	LaurenWilson	Bishop	596283	7061125	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateNW	B	62	Wet	Poor	BurnOld
114472	04/08/2011	LaurenWilson	Bishop	596342	7061142	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	70	Moist	Poor	ForestBlackSpruce
114473	04/08/2011	LaurenWilson	Bishop	596395	7061129	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	BurnOld
114474	04/08/2011	LaurenWilson	Bishop	596451	7061124	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	B	50	Wet	Poor	BurnOld
114475	04/08/2011	LaurenWilson	Bishop	596507	7061141	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	70	Moist	Good	BurnOld
114476	04/08/2011	LaurenWilson	Bishop	596549	7061130	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	B	50	Moist	Poor	BurnOld
114477	04/08/2011	LaurenWilson	Bishop	596602	7061129	UTM27N WGS84									
114478	04/08/2011	LaurenWilson	Bishop	596640	7061136	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	40	Dry	Good	BurnOld
114479	04/08/2011	LaurenWilson	Bishop	596703	7061126	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	40	Dry	Good	BurnOld
114480	04/08/2011	LaurenWilson	Bishop	596747	7061129	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	60	Dry	Good	BurnOld
114481	04/08/2011	LaurenWilson	Bishop	597442	7061131	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Poor	BurnOld
114482	04/08/2011	LaurenWilson	Bishop	597395	7061141	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	BurnOld
114483	04/08/2011	LaurenWilson	Bishop	597340	7061133	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Poor	BurnOld
114484	04/08/2011	LaurenWilson	Bishop	597295	7061131	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	BurnOld
114485	04/08/2011	LaurenWilson	Bishop	597249	7061137	UTM27N WGS84									
114486	04/08/2011	LaurenWilson	Bishop	597195	7061141	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateE	B	45	Dry	Good	BurnOld
114487	04/08/2011	LaurenWilson	Bishop	597139	7061130	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateE	B	90	Dry	Good	BurnOld
114488	04/08/2011	LaurenWilson	Bishop	597084	7061147	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	40	Dry	Poor	BurnOld
114489	04/08/2011	LaurenWilson	Bishop	597046	7061144	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	50	Dry	Poor	BurnOld
114491	04/08/2011	LaurenWilson	Bishop	596992	7061134	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Dry	Poor	BurnOld
114492	04/08/2011	LaurenWilson	Bishop	596951	7061134	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Dry	Good	BurnOld
114493	04/08/2011	LaurenWilson	Bishop	596890	7061128	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Dry	Good	BurnOld
114494	04/08/2011	LaurenWilson	Bishop	596841	7061136	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	B	40	Moist	Poor	BurnOld
114495	04/08/2011	LaurenWilson	Bishop	596797	7061120	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Dry	Good	BurnOld
115380	17/06/2011	NedaDokic	Bishop	596084	7058476	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	30	Dry	Excellent	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation	
115381	17/06/2011	NedaDokic	Bishop	596115	7058447	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	BurnNew	
115382	17/06/2011	NedaDokic	Bishop	596161	7058419	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	70	Moist	Excellent	BurnNew	
115383	17/06/2011	NedaDokic	Bishop	596186	7058355	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	30	Moist	Good	BurnNew	
115384	17/06/2011	NedaDokic	Bishop	596221	7058341	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	35	Moist	Good	BurnNew	
115385	17/06/2011	NedaDokic	Bishop	596253	7058307	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	35	Dry	Excellent	BurnNew	
115386	17/06/2011	NedaDokic	Bishop	596288	7058288	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	BurnNew	
115387	17/06/2011	NedaDokic	Bishop	596330	7058252	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	ForestMixed	
115388	17/06/2011	NedaDokic	Bishop	596383	7058261	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	BurnNew	
115389	17/06/2011	NedaDokic	Bishop	596425	7058267	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	BurnNew	
115390	17/06/2011	NedaDokic	Bishop	596470	7058287	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	BurnNew	
115391	17/06/2011	NedaDokic	Bishop	596521	7058308	UTMZ7N WGS84	Colluvium	Brown	RustyOrange	Clay	ModerateNE	C	60	Moist	Good	BurnNew
115392	17/06/2011	NedaDokic	Bishop	596563	7058329	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	50	Moist	Excellent	BurnNew	
115393	17/06/2011	NedaDokic	Bishop	596613	7058347	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	35	Dry	Excellent	BurnNew	
115394	17/06/2011	NedaDokic	Bishop	596655	7058367	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	BurnNew	
115395	17/06/2011	NedaDokic	Bishop	596712	7058381	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	45	Dry	Excellent	BurnNew	
115396	17/06/2011	NedaDokic	Bishop	596755	7058386	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	45	Dry	Excellent	BurnNew	
115397	17/06/2011	NedaDokic	Bishop	596791	7058405	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	BurnNew	
115398	17/06/2011	NedaDokic	Bishop	596848	7058417	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	60	Dry	Excellent	BurnNew	
115399	17/06/2011	NedaDokic	Bishop	596922	7058437	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	BurnNew	
115400	17/06/2011	NedaDokic	Bishop	596944	7058448	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	50	Dry	Excellent	BurnNew	
115401	17/06/2011	NedaDokic	Bishop	597000	7058472	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	45	Moist	Good	BurnNew	
115402	17/06/2011	NedaDokic	Bishop	597066	7058474	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	B	50	Wet	Poor	BurnNew	
115403	18/06/2011	NedaDokic	Bishop	596961	7061075	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	BurnOld	
115404	18/06/2011	NedaDokic	Bishop	597012	7061094	UTMZ7N WGS84	Colluvium	Tan	Sand	Flat	C	40	Dry	Excellent	BurnOld	
115405	18/06/2011	NedaDokic	Bishop	597057	7061096	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Excellent	BurnOld	
115406	18/06/2011	NedaDokic	Bishop	597111	7061097	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld	
115407	18/06/2011	NedaDokic	Bishop	597153	7061104	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	70	Dry	Excellent	BurnOld	
115408	18/06/2011	NedaDokic	Bishop	597214	7061096	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	45	Dry	Excellent	BurnOld	
115409	18/06/2011	NedaDokic	Bishop	597260	7061109	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld	
115410	18/06/2011	NedaDokic	Bishop	597308	7061110	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld	
115411	18/06/2011	NedaDokic	Bishop	597365	7061112	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	50	Moist	Good	BurnOld	
115412	18/06/2011	NedaDokic	Bishop	597404	7061116	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Good	BurnOld	
115413	18/06/2011	NedaDokic	Bishop	597455	7061110	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	55	Moist	Excellent	BurnOld	
115414	18/06/2011	NedaDokic	Bishop	597514	7061129	UTMZ7N WGS84	Colluvium	BrownDark	Silt	Flat	C	80	Frozen	Poor	BurnOld	
115415	18/06/2011	NedaDokic	Bishop	597559	7061129	UTMZ7N WGS84	Colluvium	BrownDark	Silt	Flat	C	60	Frozen	Good	BurnOld	
115416	18/06/2011	NedaDokic	Bishop	597604	7061123	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	60	Frozen	Good	BurnOld	
115417	18/06/2011	NedaDokic	Bishop	597655	7061137	UTMZ7N WGS84	Colluvium	BrownDark	Silt	Flat	C	60	Moist	Good	BurnOld	
115418	18/06/2011	NedaDokic	Bishop	597707	7061129	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Good	BurnOld	
115419	18/06/2011	NedaDokic	Bishop	597756	7061140	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist	Good	BurnOld	
115420	18/06/2011	NedaDokic	Bishop	597809	7061144	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Moist	Good	BurnOld	
115421	18/06/2011	NedaDokic	Bishop	597857	7061155	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateE	C	60	Wet	Good	BurnOld	
115422	18/06/2011	NedaDokic	Bishop	597897	7061166	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Wet	Good	BurnOld	
115423	18/06/2011	NedaDokic	Bishop	597948	7061182	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateE	C	40	Moist	Excellent	BurnOld	
115424	18/06/2011	NedaDokic	Bishop	597998	7061197	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	50	Moist	Excellent	BurnOld	
115425	18/06/2011	NedaDokic	Bishop	598049	7061215	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateE	C	40	Dry	Excellent	BurnOld	
115426	18/06/2011	NedaDokic	Bishop	598091	7061229	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	35	Dry	Excellent	BurnOld	
115427	18/06/2011	NedaDokic	Bishop	598144	7061248	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	40	Dry	Excellent	BurnOld	
115428	18/06/2011	NedaDokic	Bishop	598316	7061307	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Wet	Good	BurnOld	
115429	18/06/2011	NedaDokic	Bishop	598327	7061317	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	40	Moist	Good	BurnOld	
115430	18/06/2011	NedaDokic	Bishop	598377	7061332	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Moist	Good	BurnOld	
115431	18/06/2011	NedaDokic	Bishop	598432	7061345	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Moist	Good	BurnOld	
115432	18/06/2011	NedaDokic	Bishop	598515	7061379	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateNE	C	70	Moist	Excellent	BurnOld	
115433	18/06/2011	NedaDokic	Bishop	598571	7061397	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Moist	Good	BurnOld	
115434	18/06/2011	NedaDokic	Bishop	598609	7061409	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld	
115435	18/06/2011	NedaDokic	Bishop	598660	7061427	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld	
115436	18/06/2011	NedaDokic	Bishop	598703	7061439	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	35	Dry	Excellent	BurnOld	
115437	18/06/2011	NedaDokic	Bishop	598809	7061462	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Wet	Good	BurnOld	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
115438	18/06/2011	NedaDokic	Bishop	598896	7061481	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Moist	Good	BurnOld
115439	18/06/2011	NedaDokic	Bishop	598951	7061488	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	40	Frozen	Poor	BurnOld
115440	18/06/2011	NedaDokic	Bishop	599357	7061558	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	50	Frozen	Good	BurnOld
115441	18/06/2011	NedaDokic	Bishop	599395	7061560	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	55	Moist	Excellent	BurnOld
115442	18/06/2011	NedaDokic	Bishop	599447	7061575	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Excellent	BurnOld
115443	18/06/2011	NedaDokic	Bishop	599491	7061583	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	50	Moist	Excellent	BurnOld
115444	18/06/2011	NedaDokic	Bishop	599553	7061589	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	50	Frozen	Poor	BurnOld
115445	19/06/2011	NedaDokic	Bishop	595355	7063795	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	B	85	Frozen	Poor	BurnNew
115446	19/06/2011	NedaDokic	Bishop	595404	7063809	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	B	80	Frozen	Poor	BurnNew
115447	19/06/2011	NedaDokic	Bishop	595908	7063851	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Moist	Good	BurnNew
115448	19/06/2011	NedaDokic	Bishop	595956	7063850	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Wet	Good	BurnNew
115449	19/06/2011	NedaDokic	Bishop	596006	7063854	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Moist	Good	BurnNew
115450	19/06/2011	NedaDokic	Bishop	596058	7063857	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Moist	Excellent	BurnNew
115451	19/06/2011	NedaDokic	Bishop	596099	7063863	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	45	Moist	Good	BurnNew
115452	19/06/2011	NedaDokic	Bishop	596389	7063867	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	55	Frozen	Good	BurnNew
116377	17/06/2011	JoshJudson	Bishop	595275	7058631	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Moist	Good	BurnOld
116378	17/06/2011	JoshJudson	Bishop	595324	7058627	UTMZ7N WGS84	Colluvium	BrownLight	Clay	ModerateW	C	30	Moist	Good	BurnOld
116379	17/06/2011	JoshJudson	Bishop	595367	7058625	UTMZ7N WGS84	Colluvium	BrownLight	Clay	ModerateW	C	20	Moist	Good	BurnOld
116380	17/06/2011	JoshJudson	Bishop	595413	7058629	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	C	20	Moist	Good	BurnOld
116381	17/06/2011	JoshJudson	Bishop	595470	7058629	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	C	20	Dry	Good	BurnOld
116382	17/06/2011	JoshJudson	Bishop	595515	7058612	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Ridge	C	40	Dry	Excellent	BurnOld
116383	17/06/2011	JoshJudson	Bishop	595570	7058598	UTMZ7N WGS84	Colluvium	BrownLight	Clay	Ridge	C	40	Moist	Good	BurnOld
116384	17/06/2011	JoshJudson	Bishop	595621	7058589	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	30	Dry	Excellent	ForestMixed
116385	17/06/2011	JoshJudson	Bishop	595678	7058565	UTMZ7N WGS84	Colluvium	BrownLight	Clay	ModerateNE	C	50	Moist	Good	BurnOld
116386	17/06/2011	JoshJudson	Bishop	595697	7058524	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Dry	Good	BurnOld
116387	17/06/2011	JoshJudson	Bishop	595754	7058505	UTMZ7N WGS84	Colluvium	Orange	Clay	Ridge	C	20	Moist	Good	BurnOld
116388	17/06/2011	JoshJudson	Bishop	595803	7058489	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	30	Dry	Excellent	BurnOld
116389	17/06/2011	JoshJudson	Bishop	595859	7058475	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Excellent	BurnOld
116391	17/06/2011	JoshJudson	Bishop	595921	7058480	UTMZ7N WGS84	Colluvium	Orange	Silt	ModerateE	C	40	Dry	Excellent	BurnOld
116392	17/06/2011	JoshJudson	Bishop	595960	7058474	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	20	Dry	Good	BurnOld
116393	17/06/2011	JoshJudson	Bishop	596002	7058457	UTMZ7N WGS84	Colluvium	Orange	Silt	ModerateS	C	20	Dry	Good	BurnOld
116394	17/06/2011	JoshJudson	Bishop	596031	7058492	UTMZ7N WGS84	Colluvium	Brown	Sand	Ridge	C	30	Dry	Excellent	BurnOld
116395	17/06/2011	JoshJudson	Bishop	596060	7058528	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateN	C	30	Moist	Good	BurnOld
116396	17/06/2011	JoshJudson	Bishop	596099	7058558	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Excellent	BurnOld
116397	17/06/2011	JoshJudson	Bishop	596136	7058593	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Dry	Excellent	BurnOld
116398	17/06/2011	JoshJudson	Bishop	596169	7058641	UTMZ7N WGS84	Colluvium	Orange	Silt	ModerateN	C	40	Moist	Excellent	BurnOld
116399	17/06/2011	JoshJudson	Bishop	596198	7058671	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateN	C	30	Moist	Good	BurnOld
116400	17/06/2011	JoshJudson	Bishop	596247	7058705	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateN	C	20	Dry	Good	BurnOld
116401	17/06/2011	JoshJudson	Bishop	596268	7058735	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Good	BurnOld
116402	17/06/2011	JoshJudson	Bishop	596300	7058770	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateN	C	50	Frozen	Good	BurnOld
116403	17/06/2011	JoshJudson	Bishop	596340	7058811	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateN	C	30	Frozen	Poor	BurnOld
116404	17/06/2011	JoshJudson	Bishop	596376	7058843	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	30	Moist	Good	BurnOld
116405	17/06/2011	JoshJudson	Bishop	596418	7058878	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Dry	Good	BurnOld
116406	17/06/2011	JoshJudson	Bishop	596438	7058916	UTMZ7N WGS84	Colluvium	Brown	Clay	SteepN	C	40	Wet	Good	BurnOld
116407	17/06/2011	JoshJudson	Bishop	596481	7058959	UTMZ7N WGS84	Colluvium	Brown	Silt	SteepN	C	40	Moist	Good	BurnOld
116408	17/06/2011	JoshJudson	Bishop	596510	7058989	UTMZ7N WGS84	Colluvium	Brown	Silt	SteepN	C	20	Moist	Good	BurnOld
116409	17/06/2011	JoshJudson	Bishop	596572	7059021	UTMZ7N WGS84	Colluvium	Brown	Silt	SteepN	C	40	Wet	Good	BurnOld
116410	18/06/2011	JoshJudson	Bishop	599612	7059261	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	40	Dry	Good	ForestMixed
116411	18/06/2011	JoshJudson	Bishop	599627	7059304	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	30	Moist	Good	ForestMixed
116412	18/06/2011	JoshJudson	Bishop	599651	7059339	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	30	Moist	Good	ForestMixed
116413	18/06/2011	JoshJudson	Bishop	599642	7059403	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	30	Moist	Good	ForestMixed
116414	18/06/2011	JoshJudson	Bishop	599685	7059445	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	40	Dry	Good	ForestMixed
116415	18/06/2011	JoshJudson	Bishop	599697	7059475	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	30	Dry	Good	ForestMixed
116416	18/06/2011	JoshJudson	Bishop	599717	7059538	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateNE	C	20	Dry	Good	ForestMixed
116417	18/06/2011	JoshJudson	Bishop	599673	7059566	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	30	Dry	Good	ForestMixed
116418	18/06/2011	JoshJudson	Bishop	599644	7059611	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	C	20	Moist	Good	ForestMixed
116419	18/06/2011	JoshJudson	Bishop	599613	7059637	UTMZ7N WGS84	Colluvium	BrownDark	Sand	ModerateNE	C	80	Moist	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
116420	18/06/2011	JoshJudson	Bishop	599582	7059687	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	30	Moist	Good	ForestMixed
116421	18/06/2011	JoshJudson	Bishop	599555	7059725	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	30	Frozen	Poor	ForestMixed
116422	18/06/2011	JoshJudson	Bishop	599510	7059758	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	80	Wet	Good	BurnOld
116423	18/06/2011	JoshJudson	Bishop	599503	7059816	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	60	Wet	Good	BurnOld
116424	18/06/2011	JoshJudson	Bishop	599467	7059839	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	40	Moist	Good	ForestMixed
116425	18/06/2011	JoshJudson	Bishop	599450	7059903	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	50	Wet	Good	BurnOld
116426	18/06/2011	JoshJudson	Bishop	599436	7059944	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	60	Frozen	Good	BurnOld
116427	18/06/2011	JoshJudson	Bishop	599423	7059982	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	50	Frozen	Good	BurnOld
116428	19/06/2011	JoshJudson	Bishop	597348	7062301	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	60	Moist	Good	BurnOld
116429	19/06/2011	JoshJudson	Bishop	597309	7062269	UTM27N WGS84	Colluvium	Orange	Clay	ModerateNE	C	40	Moist	Good	BurnOld
116430	19/06/2011	JoshJudson	Bishop	597278	7062225	UTM27N WGS84	Lithosol	Orange	Clay	ModerateNE	C	30	Moist	Good	BurnOld
116431	19/06/2011	JoshJudson	Bishop	597256	7062184	UTM27N WGS84	Colluvium	Orange	Clay	ModerateNE	C	40	Moist	Good	BurnOld
116432	19/06/2011	JoshJudson	Bishop	597222	7062135	UTM27N WGS84	Colluvium	Orange	Clay	ModerateNE	C	40	Moist	Good	BurnOld
116433	19/06/2011	JoshJudson	Bishop	597187	7062109	UTM27N WGS84	Colluvium	Orange	Clay	ModerateNE	C	40	Moist	Good	BurnOld
116434	19/06/2011	JoshJudson	Bishop	597149	7062066	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	60	Moist	Good	BurnOld
116435	19/06/2011	JoshJudson	Bishop	597137	7062026	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	50	Moist	Good	BurnOld
116436	19/06/2011	JoshJudson	Bishop	597086	7061988	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	20	Dry	Good	BurnOld
116437	19/06/2011	JoshJudson	Bishop	597092	7062042	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	20	Dry	Good	BurnOld
116438	19/06/2011	JoshJudson	Bishop	597100	7062095	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	40	Moist	Good	BurnOld
116439	19/06/2011	JoshJudson	Bishop	597113	7062146	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateN	C	30	Moist	Good	BurnOld
116440	19/06/2011	JoshJudson	Bishop	597112	7062196	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	30	Moist	Good	BurnOld
116441	19/06/2011	JoshJudson	Bishop	597111	7062243	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	40	Moist	Good	BurnOld
116442	19/06/2011	JoshJudson	Bishop	597112	7062295	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateN	C	90	Moist	Good	BurnOld
116443	19/06/2011	JoshJudson	Bishop	597115	7062344	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	60	Dry	Good	BurnOld
116444	19/06/2011	JoshJudson	Bishop	597120	7062394	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Dry	Good	BurnOld
116445	19/06/2011	JoshJudson	Bishop	597108	7062500	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateN	C	60	Frozen	Good	BurnOld
116446	19/06/2011	JoshJudson	Bishop	597119	7062544	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateN	C	40	Frozen	Good	BurnOld
116447	19/06/2011	JoshJudson	Bishop	597117	7062592	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateN	C	80	Frozen	Good	BurnOld
116448	19/06/2011	JoshJudson	Bishop	597112	7062648	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Frozen	Poor	BurnOld
116449	19/06/2011	JoshJudson	Bishop	597115	7062697	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	B	20	Frozen	Good	BurnOld
116450	19/06/2011	JoshJudson	Bishop	597115	7062753	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	20	Frozen	Good	BurnOld
116451	19/06/2011	JoshJudson	Bishop	597116	7062791	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Frozen	Good	BurnOld
116452	19/06/2011	JoshJudson	Bishop	597116	7062839	UTM27N WGS84	Colluvium	Orange	Clay	ModerateN	C	30	Moist	Good	BurnOld
116453	19/06/2011	JoshJudson	Bishop	597116	7062888	UTM27N WGS84	Colluvium	Orange	Clay	ModerateN	C	60	Moist	Good	BurnOld
116454	19/06/2011	JoshJudson	Bishop	597116	7062946	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	40	Dry	Good	BurnOld
116455	19/06/2011	JoshJudson	Bishop	597110	7062981	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	50	Wet	Good	BurnOld
116456	19/06/2011	JoshJudson	Bishop	597107	7063045	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	60	Moist	Good	BurnOld
116457	19/06/2011	JoshJudson	Bishop	597110	7063100	UTM27N WGS84	Colluvium	Grey	Clay	Flat	C	60	Moist	Good	BurnOld
116458	19/06/2011	JoshJudson	Bishop	597112	7063145	UTM27N WGS84	Colluvium	Orange	Clay	ModerateS	C	50	Moist	Good	BurnOld
116459	19/06/2011	JoshJudson	Bishop	597115	7063194	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateS	C	40	Moist	Good	BurnOld
116460	19/06/2011	JoshJudson	Bishop	597102	7063243	UTM27N WGS84	Colluvium	Orange	Clay	ModerateS	C	40	Dry	Good	BurnOld
116461	19/06/2011	JoshJudson	Bishop	597095	7063291	UTM27N WGS84	Colluvium	Orange	Clay	ModerateS	C	40	Dry	Good	BurnOld
116462	19/06/2011	JoshJudson	Bishop	597097	7063343	UTM27N WGS84	Colluvium	Orange	Sand	ModerateS	C	30	Dry	Good	BurnOld
116463	19/06/2011	JoshJudson	Bishop	597107	7063388	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	C	20	Dry	Good	BurnOld
116464	19/06/2011	JoshJudson	Bishop	597113	7063441	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Dry	Excellent	BurnOld
117260	17/06/2011	HugoGirard	Bishop	597528	7059510	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.8	Dry		
117261	17/06/2011	HugoGirard	Bishop	597558	7059487	UTM27N WGS84	Colluvium	Grey	Clay	ModerateN	B	0.6	Moist		
117262	17/06/2011	HugoGirard	Bishop	597593	7059450	UTM27N WGS84	Colluvium	Grey	Clay	ModerateN	B	0.3	Moist		
117263	17/06/2011	HugoGirard	Bishop	597612	7059397	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	0.6	Dry		
117264	17/06/2011	HugoGirard	Bishop	597629	7059353	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	0.8	Dry		
117265	17/06/2011	HugoGirard	Bishop	597656	7059325	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.6	Moist		
117266	17/06/2011	HugoGirard	Bishop	597686	7059289	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	0.6	Dry		
117267	17/06/2011	HugoGirard	Bishop	597733	7059239	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.6	Moist		
117268	17/06/2011	HugoGirard	Bishop	597747	7059299	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	0.7	Moist		
117269	17/06/2011	HugoGirard	Bishop	597765	7059341	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.6	Moist		
117270	17/06/2011	HugoGirard	Bishop	597787	7059383	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	0.4	Moist		
117271	17/06/2011	HugoGirard	Bishop	597766	7059594	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.4	Wet		

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
117272	17/06/2011	HugoGirard	Bishop	597908	7059608	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.4	Wet		
117273	17/06/2011	HugoGirard	Bishop	597960	7059653	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.5	Wet		
117274	17/06/2011	HugoGirard	Bishop	597971	7059702	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.4	Wet		
117275	17/06/2011	HugoGirard	Bishop	597997	7059735	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.4	Wet		
117276	17/06/2011	HugoGirard	Bishop	598098	7059754	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.3	Wet		
117280	17/06/2011	HugoGirard	Bishop	598276	7060052	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.6	Moist		
117281	17/06/2011	HugoGirard	Bishop	598330	7060079	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	0.6	Dry		
117282	17/06/2011	HugoGirard	Bishop	598380	7060098	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	0.8	Dry		
117283	17/06/2011	HugoGirard	Bishop	598424	7060155	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	0.8	Dry		
117284	17/06/2011	HugoGirard	Bishop	598458	7060212	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.6	Moist		
117285	17/06/2011	HugoGirard	Bishop	598529	7060219	UTM27N WGS84	Colluvium	Orange	Silt	ModerateN	C	0.9	Moist		
117286	17/06/2011	HugoGirard	Bishop	598569	7060228	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	0.6	Moist		
117287	19/06/2011	HugoGirard	Bishop	599734	7059583	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	0.4	Dry		
117288	18/06/2011	HugoGirard	Bishop	599491	7058977	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	0.5	Moist		
117289	18/06/2011	HugoGirard	Bishop	599519	7059035	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	0.4	Moist		
117290	18/06/2011	HugoGirard	Bishop	599554	7059070	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	0.4	Wet		
117291	18/06/2011	HugoGirard	Bishop	599543	7059141	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	B	0.4	Moist		
117292	18/06/2011	HugoGirard	Bishop	599572	7059166	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	B	0.4	Moist		
117293	18/06/2011	HugoGirard	Bishop	599597	7059203	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	0.6	Dry		
117294	18/06/2011	HugoGirard	Bishop	599739	7059578	UTM27N WGS84	Colluvium	Blue	Silt	ModerateNE	C	0.7	Dry		
117295	18/06/2011	HugoGirard	Bishop	599755	7059625	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	0.6	Dry		
117296	18/06/2011	HugoGirard	Bishop	599760	7059673	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	0.6	Dry		
117297	18/06/2011	HugoGirard	Bishop	599779	7059729	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	0.6	Moist		
117298	18/06/2011	HugoGirard	Bishop	599797	7059779	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	0.6	Dry		
117299	18/06/2011	HugoGirard	Bishop	599813	7059820	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	0.6	Dry		
117300	18/06/2011	HugoGirard	Bishop	599843	7059840	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	C	0.6	Wet		
117302	18/06/2011	HugoGirard	Bishop	599922	7059873	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	B	0.6	Wet		
117303	18/06/2011	HugoGirard	Bishop	599984	7059945	UTM27N WGS84	Colluvium	Black	Clay	Swamp	B	0.4	Wet		
117304	18/06/2011	HugoGirard	Bishop	600053	7060028	UTM27N WGS84	Colluvium	Brown	Silt	Swamp	C	0.6	Frozen		
117305	18/06/2011	HugoGirard	Bishop	600056	7060229	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.6	Wet		
117306	18/06/2011	HugoGirard	Bishop	600046	7060281	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	0.6	Moist		
117307	18/06/2011	HugoGirard	Bishop	600034	7060333	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	0.7	Dry		
117308	18/06/2011	HugoGirard	Bishop	600010	7060378	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	0.6	Dry		
117309	19/06/2011	HugoGirard	Bishop	597137	7063499	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	1	Dry		
117310	19/06/2011	HugoGirard	Bishop	597184	7063496	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	0.6	Dry		
117311	19/06/2011	HugoGirard	Bishop	597221	7063524	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	1	Dry		
117312	19/06/2011	HugoGirard	Bishop	597261	7063547	UTM27N WGS84	Colluvium	Grey	Silt	ModerateE	C	0.6	Moist		
117313	19/06/2011	HugoGirard	Bishop	597314	7063558	UTM27N WGS84	Colluvium	Grey	Clay	Flat	C	0.8	Moist		
117314	19/06/2011	HugoGirard	Bishop	597363	7063577	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.8	Moist		
117315	19/06/2011	HugoGirard	Bishop	597404	7063595	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.8	Moist		
117316	19/06/2011	HugoGirard	Bishop	597448	7063621	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	1.1	Moist		
117317	19/06/2011	HugoGirard	Bishop	597500	7063635	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	1	Moist		
117318	19/06/2011	HugoGirard	Bishop	597640	7063641	UTM27N WGS84	Colluvium	Brown	Silt	Swamp	C	0.7	Moist		
117319	19/06/2011	HugoGirard	Bishop	597681	7063666	UTM27N WGS84	Colluvium	Green	Clay	Swamp	C	0.6	Wet		
117320	19/06/2011	HugoGirard	Bishop	597686	7063712	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	1	Moist		
117321	19/06/2011	HugoGirard	Bishop	597725	7063762	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.5	Wet		
117954	05/08/2011	HugoGirard	Bishop	596187	7061828	UTM27N WGS84	Colluvium	Grey	Silt	ModerateW	B	0.7	Wet	Poor	BurnOld
117955	05/08/2011	HugoGirard	Bishop	596236	7061832	UTM27N WGS84	Colluvium	Grey	Silt	ModerateW	B	0.8	Wet	Poor	BurnOld
117956	05/08/2011	HugoGirard	Bishop	596280	7061838	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	1	Moist	Good	BurnOld
117957	05/08/2011	HugoGirard	Bishop	596345	7061829	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	0.8	Moist	Good	BurnOld
117958	05/08/2011	HugoGirard	Bishop	596384	7061831	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	0.8	Moist	Good	BurnOld
117959	05/08/2011	HugoGirard	Bishop	596433	7061821	UTM27N WGS84	Colluvium	BrownLight	Gravel	ModerateNW	B	0.8	Moist	Good	BurnOld
117960	05/08/2011	HugoGirard	Bishop	596487	7061828	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNW	B	1.1	Wet	Poor	BurnOld
117961	05/08/2011	HugoGirard	Bishop	596533	7061835	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	1	Wet	Poor	BurnOld
117962	05/08/2011	HugoGirard	Bishop	596592	7061830	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	1	Dry	Good	BurnOld
117963	05/08/2011	HugoGirard	Bishop	596645	7061837	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	0.8	Moist	Good	BurnOld
117964	05/08/2011	HugoGirard	Bishop	596691	7061834	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	0.7	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
117965	05/08/2011	HugoGirard	Bishop	596738	7061835	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	0.9	Dry	Good	BurnOld
117966	05/08/2011	HugoGirard	Bishop	596785	7061835	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	C	1	Dry	Excellent	BurnOld
117967	05/08/2011	HugoGirard	Bishop	596837	7061829	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	C	0.7	Dry	Good	BurnOld
117968	05/08/2011	HugoGirard	Bishop	596889	7061832	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	1	Dry	Excellent	BurnOld
117969	05/08/2011	HugoGirard	Bishop	596932	7061830	UTM27N WGS84	Colluvium	Yellow	Silt	ModerateNW	C	0.7	Dry	Excellent	BurnOld
117970	05/08/2011	HugoGirard	Bishop	596981	7061833	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	C	0.6	Dry	Excellent	BurnOld
117971	05/08/2011	HugoGirard	Bishop	597047	7061832	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	C	0.6	Dry	Good	BurnOld
117972	05/08/2011	HugoGirard	Bishop	597093	7061829	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	0.6	Dry	Good	BurnOld
117973	05/08/2011	HugoGirard	Bishop	597141	7061823	UTM27N WGS84	Colluvium	BrownDark	Silt	Flat	C	0.7	Dry	Good	BurnOld
117974	05/08/2011	HugoGirard	Bishop	596138	7061839	UTM27N WGS84	Colluvium	Grey	Silt	ModerateW	B	0.7	Moist	Good	BurnOld
118313	17/06/2011	DrewMacPhail	Bishop	597754	7059199	UTM27N WGS84	Soil	Brown	Silt	Flat	C	0.85	Moist		
118314	17/06/2011	DrewMacPhail	Bishop	597785	7059162	UTM27N WGS84	Soil	Grey	Sand	Flat	C	0.5	Dry		
118315	17/06/2011	DrewMacPhail	Bishop	597835	7059133	UTM27N WGS84	Soil	Grey	Sand	Flat	C	0.65	Dry		
118316	17/06/2011	DrewMacPhail	Bishop	597882	7059110	UTM27N WGS84	Soil	Tan	Sand	Flat	C	0.65	Moist		
118317	17/06/2011	DrewMacPhail	Bishop	597928	7059075	UTM27N WGS84	Soil	Grey	Sand	Flat	C	0.7	Dry		
118318	17/06/2011	DrewMacPhail	Bishop	597969	7059042	UTM27N WGS84	Soil	Brown	Sand	Flat	C	0.6	Dry		
118319	17/06/2011	DrewMacPhail	Bishop	597995	7058997	UTM27N WGS84	Colluvium	Grey	Sand	Ridge	C	0.6	Dry		
118320	17/06/2011	DrewMacPhail	Bishop	598030	7058971	UTM27N WGS84	Colluvium	Grey	Gravel	Ridge	C	0.65	Dry		
118321	17/06/2011	DrewMacPhail	Bishop	598052	7058917	UTM27N WGS84	Colluvium	Grey	Sand	Ridge	C	0.6	Dry		
118322	17/06/2011	DrewMacPhail	Bishop	598073	7058876	UTM27N WGS84	Colluvium	Grey	Sand	Ridge	C	0.6	Dry		
118323	17/06/2011	DrewMacPhail	Bishop	598101	7058834	UTM27N WGS84	Colluvium	Grey	Gravel	Ridge	C	0.45	Dry		
118324	17/06/2011	DrewMacPhail	Bishop	598127	7058799	UTM27N WGS84	Colluvium	Grey	Sand	Ridge	C	0.65	Dry		
118325	17/06/2011	DrewMacPhail	Bishop	598149	7058748	UTM27N WGS84	Colluvium	Grey	Sand	Ridge	C	0.5	Dry		
118326	17/06/2011	DrewMacPhail	Bishop	598183	7058718	UTM27N WGS84	Colluvium	Grey	Gravel	ModerateS	C	0.45	Dry		
118327	17/06/2011	DrewMacPhail	Bishop	598221	7058682	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	0.65	Dry		
118328	17/06/2011	DrewMacPhail	Bishop	598272	7058626	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	0.5	Dry		
118329	17/06/2011	DrewMacPhail	Bishop	598302	7058594	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	0.45	Dry		
118330	17/06/2011	DrewMacPhail	Bishop	598342	7058550	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSE	C	0.6	Dry		
118331	17/06/2011	DrewMacPhail	Bishop	598357	7058498	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSE	C	0.6	Dry		
118332	17/06/2011	DrewMacPhail	Bishop	598396	7058452	UTM27N WGS84	Colluvium	Tan	Sand	ModerateSE	C	0.6	Dry		
118333	17/06/2011	DrewMacPhail	Bishop	598426	7058417	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	0.6	Dry		
118334	17/06/2011	DrewMacPhail	Bishop	598443	7058375	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSE	C	0.5	Dry		
118335	17/06/2011	DrewMacPhail	Bishop	598471	7058335	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSE	C	0.6	Dry		
118336	17/06/2011	DrewMacPhail	Bishop	598502	7058294	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	0.6	Dry		
118337	17/06/2011	DrewMacPhail	Bishop	598532	7058247	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSE	C	0.6	Dry		
118338	17/06/2011	DrewMacPhail	Bishop	598552	7058208	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	0.65	Dry		
118339	17/06/2011	DrewMacPhail	Bishop	598593	7058165	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSE	C	0.65	Dry		
118341	17/06/2011	DrewMacPhail	Bishop	598611	7058117	UTM27N WGS84	Colluvium	Grey	Sand	ModerateSE	C	0.6	Dry		
118342	17/06/2011	DrewMacPhail	Bishop	598631	7058075	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	0.65	Dry		
118343	17/06/2011	DrewMacPhail	Bishop	598658	7058048	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	1.1	Moist		
118344	17/06/2011	DrewMacPhail	Bishop	598696	7058014	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	0.75	Moist		
118345	17/06/2011	DrewMacPhail	Bishop	598715	7057962	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	C	1	Moist		
118346	17/06/2011	DrewMacPhail	Bishop	598742	7057918	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	C	1	Moist		
118347	17/06/2011	DrewMacPhail	Bishop	598752	7057848	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	C	1	Moist		
118348	17/06/2011	DrewMacPhail	Bishop	598875	7057863	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	0.7	Dry		
118349	17/06/2011	DrewMacPhail	Bishop	598887	7057766	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	0.6	Dry		
118350	18/06/2011	DrewMacPhail	Bishop	594229	7060859	UTM27N WGS84	Soil	BrownLight	Sand	ModerateS	C	0.45	Dry		
118351	18/06/2011	DrewMacPhail	Bishop	594278	7060848	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	0.6	Moist		
118352	18/06/2011	DrewMacPhail	Bishop	594326	7060815	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	0.7	Dry		
118353	18/06/2011	DrewMacPhail	Bishop	594367	7060795	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	0.65	Dry		
118354	18/06/2011	DrewMacPhail	Bishop	594415	7060772	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	0.75	Dry		
118355	18/06/2011	DrewMacPhail	Bishop	594452	7060740	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	1.2	Dry		
118356	18/06/2011	DrewMacPhail	Bishop	594459	7060697	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	0.7	Dry		
118357	18/06/2011	DrewMacPhail	Bishop	594486	7060650	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	0.65	Dry		
118358	18/06/2011	DrewMacPhail	Bishop	594503	7060605	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	1	Dry		
118359	18/06/2011	DrewMacPhail	Bishop	594519	7060553	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	C	1	Dry		
118360	18/06/2011	DrewMacPhail	Bishop	594531	7060512	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	C	1	Dry		

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
118361	18/06/2011	DrewMacPhail	Bishop	594552	7060466	UTM27N WGS84	Colluvium	Brown	Clay	ModerateS	C	1	Dry		
118362	18/06/2011	DrewMacPhail	Bishop	594555	7060409	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	0.65	Dry		
118363	18/06/2011	DrewMacPhail	Bishop	594576	7060360	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	0.7	Dry		
118364	18/06/2011	DrewMacPhail	Bishop	594590	7060315	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	0.8	Dry		
118365	18/06/2011	DrewMacPhail	Bishop	594606	7060275	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	0.7	Dry		
118366	18/06/2011	DrewMacPhail	Bishop	594614	7060217	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	0.65	Dry		
118367	18/06/2011	DrewMacPhail	Bishop	594685	7060088	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	1	Dry		
118368	18/06/2011	DrewMacPhail	Bishop	594835	7059917	UTM27N WGS84	Colluvium	Grey	Clay	ModerateS	C	0.75	Dry		
118369	19/06/2011	DrewMacPhail	Bishop	595439	7060618	UTM27N WGS84	Colluvium	Brown	Sand	ModerateE	C	0.6	Dry		
118370	19/06/2011	DrewMacPhail	Bishop	595468	7060668	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	0.65	Dry		
118371	19/06/2011	DrewMacPhail	Bishop	595473	7060718	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	0.8	Dry		
118372	19/06/2011	DrewMacPhail	Bishop	595492	7060769	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	0.7	Dry		
118373	19/06/2011	DrewMacPhail	Bishop	595500	7060815	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	1	Moist		
118374	19/06/2011	DrewMacPhail	Bishop	595513	7060852	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	1	Moist		
118375	19/06/2011	DrewMacPhail	Bishop	595520	7060912	UTM27N WGS84	Colluvium	Tan	Sand	ModerateNE	C	0.65	Frozen		
118376	19/06/2011	DrewMacPhail	Bishop	595540	7060979	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	0.8	Wet		
118378	19/06/2011	DrewMacPhail	Bishop	595583	7061093	UTM27N WGS84	Colluvium	Tan	Sand	ModerateNE	C	0.75	Wet		
118379	19/06/2011	DrewMacPhail	Bishop	595580	7061159	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	0.8	Moist		
118380	19/06/2011	DrewMacPhail	Bishop	595648	7061378	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	0.8	Moist		
118381	19/06/2011	DrewMacPhail	Bishop	595658	7061453	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	0.85	Wet		
119341	17/06/2011	MartyHuber	Bishop	596799	7057881	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.55	Dry	Excellent	BurnOld
119342	17/06/2011	MartyHuber	Bishop	596839	7057843	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.85	Dry	Excellent	BurnOld
119343	17/06/2011	MartyHuber	Bishop	596874	7057813	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.7	Dry	Excellent	BurnOld
119344	17/06/2011	MartyHuber	Bishop	596909	7057776	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.7	Dry	Excellent	BurnOld
119345	17/06/2011	MartyHuber	Bishop	596951	7057749	UTM27N WGS84	Colluvium	Brown	Gravel	Ridge	C	0.55	Dry	Good	BurnOld
119346	17/06/2011	MartyHuber	Bishop	597001	7057727	UTM27N WGS84	Colluvium	Orange	Sand	Ridge	C	0.6	Dry	Good	BurnOld
119347	17/06/2011	MartyHuber	Bishop	597046	7057723	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	0.5	Dry	Good	BurnOld
119348	17/06/2011	MartyHuber	Bishop	597153	7057698	UTM27N WGS84	Colluvium	Brown	Gravel	Ridge	C	0.45	Dry	Good	BurnOld
119349	17/06/2011	MartyHuber	Bishop	597102	7057710	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	0.5	Dry	Good	BurnOld
119350	17/06/2011	MartyHuber	Bishop	597088	7057756	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	0.5	Dry	Good	BurnOld
119351	17/06/2011	MartyHuber	Bishop	597139	7057758	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.5	Dry	Good	BurnOld
119352	17/06/2011	MartyHuber	Bishop	597193	7057765	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	0.55	Dry	Good	BurnOld
119353	17/06/2011	MartyHuber	Bishop	597235	7057764	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateN	C	0.6	Dry	Good	BurnOld
119354	17/06/2011	MartyHuber	Bishop	597284	7057763	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.65	Dry	Good	BurnOld
119355	17/06/2011	MartyHuber	Bishop	597340	7057770	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.6	Moist	Good	BurnOld
119356	17/06/2011	MartyHuber	Bishop	597388	7057771	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	0.75	Dry	Excellent	BurnOld
119357	17/06/2011	MartyHuber	Bishop	597436	7057782	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	0.65	Dry	Good	BurnOld
119358	17/06/2011	MartyHuber	Bishop	597484	7057778	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	0.55	Moist	Good	BurnOld
119359	17/06/2011	MartyHuber	Bishop	597582	7057798	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	0.75	Wet	Excellent	BurnOld
119360	17/06/2011	MartyHuber	Bishop	597631	7057805	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	0.45	Wet	Good	BurnOld
119361	17/06/2011	MartyHuber	Bishop	598715	7057030	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.45	Dry	Good	ForestMixed
119362	17/06/2011	MartyHuber	Bishop	598750	7057019	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.55	Dry	Good	ForestMixed
119363	17/06/2011	MartyHuber	Bishop	598833	7057014	UTM27N WGS84	Colluvium	Grey	Clay	Swamp	B	0.45	Moist	Poor	ForestMixed
119364	17/06/2011	MartyHuber	Bishop	598952	7057028	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	0.55	Dry	Good	ForestFir
119365	18/06/2011	MartyHuber	Bishop	593118	7061082	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.35	Dry	Good	ForestMixed
119366	18/06/2011	MartyHuber	Bishop	593221	7061081	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.6	Dry	Good	BurnOld
119367	18/06/2011	MartyHuber	Bishop	593274	7061084	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.45	Dry	Good	BurnOld
119368	18/06/2011	MartyHuber	Bishop	593325	7061086	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	0.45	Dry	Good	BurnOld
119369	18/06/2011	MartyHuber	Bishop	593377	7061086	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	0.45	Dry	Poor	BurnOld
119370	18/06/2011	MartyHuber	Bishop	593441	7061095	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.5	Dry	Good	BurnOld
119371	18/06/2011	MartyHuber	Bishop	593474	7061082	UTM27N WGS84	Colluvium	Brown	Sand	ModerateE	C	0.5	Dry	Good	BurnOld
119372	18/06/2011	MartyHuber	Bishop	593525	7061096	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.55	Dry	Good	BurnOld
119373	18/06/2011	MartyHuber	Bishop	593581	7061082	UTM27N WGS84	Colluvium	Brown	Sand	ModerateE	C	0.5	Dry	Good	BurnOld
119374	18/06/2011	MartyHuber	Bishop	593627	7061086	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.45	Dry	Good	BurnOld
119375	18/06/2011	MartyHuber	Bishop	593687	7061077	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.4	Dry	Good	ForestMixed
119376	18/06/2011	MartyHuber	Bishop	593728	7061071	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.5	Dry	Good	ForestMixed
119377	18/06/2011	MartyHuber	Bishop	593771	7061049	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.45	Dry	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
119378	18/06/2011	MartyHuber	Bishop	593818	7061035	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	0.4	Dry	Good	ForestMixed
119379	18/06/2011	MartyHuber	Bishop	593867	7061019	UTM27N WGS84	Colluvium	Orange	Sand	ModerateE	C	0.45	Dry	Good	ForestMixed
119380	18/06/2011	MartyHuber	Bishop	593909	7061008	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	0.45	Dry	Good	ForestMixed
119381	18/06/2011	MartyHuber	Bishop	593944	7060974	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.45	Dry	Good	ForestMixed
119382	18/06/2011	MartyHuber	Bishop	594000	7060955	UTM27N WGS84	Colluvium	Red	Silt	ModerateE	C	0.45	Dry	Good	ForestMixed
119383	18/06/2011	MartyHuber	Bishop	594040	7060927	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.4	Dry	Good	ForestMixed
119384	18/06/2011	MartyHuber	Bishop	594086	7060908	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	0.5	Dry	Good	ForestMixed
119385	18/06/2011	MartyHuber	Bishop	594133	7060892	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	0.65	Dry	Good	ForestMixed
119386	18/06/2011	MartyHuber	Bishop	594181	7060877	UTM27N WGS84	Alluvium	Brown	Gravel	ModerateE	C	0.4	Dry	Good	ForestMixed
119387	19/06/2011	MartyHuber	Bishop	595698	7060367	UTM27N WGS84	Colluvium	Grey	Clay	Flat	C	0.65	Moist	Good	BurnNew
119388	19/06/2011	MartyHuber	Bishop	595926	7060187	UTM27N WGS84	Soil	Grey	Silt	Flat	B	0.65	Wet	Poor	BurnNew
119389	19/06/2011	MartyHuber	Bishop	595997	7060120	UTM27N WGS84	Soil	Grey	Sand	Flat	C	0.95	Wet	Good	BurnNew
119391	19/06/2011	MartyHuber	Bishop	596319	7059892	UTM27N WGS84	Soil	Grey	Clay	Flat	C	0.65	Moist	Poor	ForestMixed
119392	19/06/2011	MartyHuber	Bishop	596490	7059749	UTM27N WGS84	Soil	Grey	Clay	Flat	B	0.7	Dry	Poor	ForestFir
119393	19/06/2011	MartyHuber	Bishop	596527	7059702	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	C	0.65	Moist	Good	ForestFir
119394	19/06/2011	MartyHuber	Bishop	596607	7059636	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	C	0.8	Moist	Poor	BurnNew
119395	19/06/2011	MartyHuber	Bishop	596675	7059552	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	C	0.6	Dry	Good	ForestMixed
119396	19/06/2011	MartyHuber	Bishop	596690	7059509	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	C	0.55	Dry	Good	ForestMixed
119397	19/06/2011	MartyHuber	Bishop	596711	7059470	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	C	0.5	Dry	Good	ForestMixed
119398	19/06/2011	MartyHuber	Bishop	596684	7059417	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	C	65	Dry	Good	ForestMixed
119399	19/06/2011	MartyHuber	Bishop	596700	7059364	UTM27N WGS84	Colluvium	Orange	Silt	ModerateS	C	0.6	Dry	Good	ForestMixed
119400	19/06/2011	MartyHuber	Bishop	596702	7059303	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	0.45	Dry	Excellent	ForestMixed
119401	19/06/2011	MartyHuber	Bishop	596717	7059265	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	0.45	Dry	Excellent	ForestMixed
119402	19/06/2011	MartyHuber	Bishop	596747	7059211	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	0.45	Dry	Good	ForestMixed
120243	17/06/2011	SteveCrowell	Bishop	597201	7057685	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	0.45	Dry		
120244	17/06/2011	SteveCrowell	Bishop	597246	7057666	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	0.45	Wet		
120245	17/06/2011	SteveCrowell	Bishop	597303	7057654	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	0.5	Dry		
120246	17/06/2011	SteveCrowell	Bishop	597342	7057631	UTM27N WGS84	Colluvium	Orange	Silt	Ridge	C	0.6	Dry		
120247	17/06/2011	SteveCrowell	Bishop	597392	7057607	UTM27N WGS84	Colluvium	Blue	Silt	Ridge	C	0.4	Dry		
120248	17/06/2011	SteveCrowell	Bishop	597445	7057589	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.4	Dry		
120249	17/06/2011	SteveCrowell	Bishop	597479	7057569	UTM27N WGS84	Colluvium	Grey	Gravel	Ridge	B	0.25	Dry		
120250	17/06/2011	SteveCrowell	Bishop	597529	7057540	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.65	Dry		
120251	17/06/2011	SteveCrowell	Bishop	597572	7057530	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	0.4	Moist		
120252	17/06/2011	SteveCrowell	Bishop	597606	7057492	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.6	Dry		
120253	17/06/2011	SteveCrowell	Bishop	597633	7057455	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	0.35	Dry		
120254	17/06/2011	SteveCrowell	Bishop	597677	7057424	UTM27N WGS84	Colluvium	Grey	Gravel	Ridge	C	0.65	Moist		
120255	17/06/2011	SteveCrowell	Bishop	597739	7057431	UTM27N WGS84	Colluvium	Blue	Gravel	Ridge	C	0.35	Moist		
120256	17/06/2011	SteveCrowell	Bishop	597784	7057405	UTM27N WGS84	Colluvium	Blue	Sand	Ridge	C	0.4	Moist		
120257	17/06/2011	SteveCrowell	Bishop	597825	7057364	UTM27N WGS84	Colluvium	Blue	Sand	Ridge	C	0.4	Dry		
120258	17/06/2011	SteveCrowell	Bishop	597849	7057325	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	0.55	Wet		
120259	17/06/2011	SteveCrowell	Bishop	597912	7057261	UTM27N WGS84	Colluvium	BrownDark	Sand	Ridge	C	0.4	Dry		
120260	17/06/2011	SteveCrowell	Bishop	597972	7057214	UTM27N WGS84	Colluvium	BrownDark	Sand	SteepW	C	0.4	Dry		
120261	17/06/2011	SteveCrowell	Bishop	598027	7057256	UTM27N WGS84	Colluvium	Blue	Gravel	Ridge	C	0.6	Dry		
120262	17/06/2011	SteveCrowell	Bishop	598066	7057274	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	0.45	Moist		
120263	17/06/2011	SteveCrowell	Bishop	598098	7057241	UTM27N WGS84	Colluvium	Blue	Sand	Ridge	C	0.6	Dry		
120264	17/06/2011	SteveCrowell	Bishop	598140	7057210	UTM27N WGS84	Colluvium	Brown	Gravel	Ridge	C	0.4	Moist		
120265	17/06/2011	SteveCrowell	Bishop	598165	7057187	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateW	C	0.4	Dry		
120266	17/06/2011	SteveCrowell	Bishop	598285	7057178	UTM27N WGS84	Colluvium	Grey	Gravel	ModerateW	C	0.4	Dry		
120267	17/06/2011	SteveCrowell	Bishop	598326	7057165	UTM27N WGS84	Colluvium	Grey	Gravel	ModerateW	C	0.6	Moist		
120268	17/06/2011	SteveCrowell	Bishop	598369	7057141	UTM27N WGS84	Colluvium	Blue	Gravel	ModerateW	C	0.4	Dry		
120269	17/06/2011	SteveCrowell	Bishop	598413	7057123	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	0.45	Dry		
120270	17/06/2011	SteveCrowell	Bishop	598461	7057070	UTM27N WGS84	Colluvium	Tan	Silt	ModerateW	C	0.5	Dry		
120271	17/06/2011	SteveCrowell	Bishop	598574	7057052	UTM27N WGS84	Soil	Brown	Gravel	ModerateW	C	0.55	Wet		
120272	17/06/2011	SteveCrowell	Bishop	598659	7057031	UTM27N WGS84	Colluvium	Tan	Sand	ModerateW	C	0.6	Moist		
120273	18/06/2011	SteveCrowell	Bishop	593799	7061115	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	0.6	Moist		
120274	18/06/2011	SteveCrowell	Bishop	593886	7061175	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	0.5	Wet		
120275	18/06/2011	SteveCrowell	Bishop	593920	7061208	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	0.6	Wet		

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
120278	18/06/2011	SteveCrowell	Bishop	594686	7061758	UTM27N WGS84	Colluvium	Brown	Clay	Flat	C	0.5	Moist		
120279	18/06/2011	SteveCrowell	Bishop	594767	7061806	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	0.6	Wet		
120280	18/06/2011	SteveCrowell	Bishop	594807	7061845	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	0.75	Wet		
120281	18/06/2011	SteveCrowell	Bishop	594860	7061862	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	0.6	Wet		
120282	18/06/2011	SteveCrowell	Bishop	594891	7061895	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	0.45	Dry		
120283	18/06/2011	SteveCrowell	Bishop	594930	7061915	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	0.55	Dry		
120284	18/06/2011	SteveCrowell	Bishop	595024	7061968	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	0.45	Moist		
120285	18/06/2011	SteveCrowell	Bishop	595068	7061988	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	0.3	Dry		
120286	18/06/2011	SteveCrowell	Bishop	595112	7062014	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	0.4	Dry		
120287	18/06/2011	SteveCrowell	Bishop	595147	7062039	UTM27N WGS84	Colluvium	Brown	Clay	ModerateN	C	0.45	Wet		
120289	19/06/2011	SteveCrowell	Bishop	593900	7062201	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	B	0.65	Moist		
120291	19/06/2011	SteveCrowell	Bishop	593953	7062210	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	0.65	Moist		
120292	19/06/2011	SteveCrowell	Bishop	594006	7062221	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	1	Wet		
120293	19/06/2011	SteveCrowell	Bishop	594113	7062245	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	0.45	Wet		
120294	19/06/2011	SteveCrowell	Bishop	594309	7062255	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	0.55	Wet		
120295	19/06/2011	SteveCrowell	Bishop	594795	7062322	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	0.5	Moist		
121243	15/06/2011	DarcyHudson	Bishop	598460	7058900	UTM27N WGS84	Colluvium	Blue	Silt	ModerateE	C	0.65	Dry		
121244	17/06/2011	DarcyHudson	Bishop	598419	7058888	UTM27N WGS84	Soil	Brown	Gravel	ModerateE	C	0.6	Dry		
121245	17/06/2011	DarcyHudson	Bishop	598373	7058866	UTM27N WGS84	Colluvium	Brown	Sand	ModerateE	C	0.5	Dry		
121246	17/06/2011	DarcyHudson	Bishop	598322	7058859	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	0.7	Dry		
121247	17/06/2011	DarcyHudson	Bishop	598273	7058833	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	0.7	Dry		
121248	17/06/2011	DarcyHudson	Bishop	598229	7058822	UTM27N WGS84	Soil	Grey	Silt	ModerateE	C	0.65	Dry		
121249	17/06/2011	DarcyHudson	Bishop	598176	7058857	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateNE	B	0.45	Dry		
121250	17/06/2011	DarcyHudson	Bishop	598188	7058910	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	0.7	Moist		
121251	17/06/2011	DarcyHudson	Bishop	598175	7058958	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	0.75	Moist		
121252	17/06/2011	DarcyHudson	Bishop	598174	7059010	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	C	0.6	Dry		
121253	17/06/2011	DarcyHudson	Bishop	598179	7059060	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	0.65	Moist		
121254	17/06/2011	DarcyHudson	Bishop	598188	7059104	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateNE	C	0.65	Moist		
121255	17/06/2011	DarcyHudson	Bishop	598192	7059153	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	0.6	Moist		
121256	17/06/2011	DarcyHudson	Bishop	598217	7059259	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	0.45	Wet		
121257	17/06/2011	DarcyHudson	Bishop	598269	7059389	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	0.8	Moist		
121258	17/06/2011	DarcyHudson	Bishop	598279	7059444	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	0.55	Dry		
121259	17/06/2011	DarcyHudson	Bishop	598322	7059486	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	0.45	Wet		
121260	17/06/2011	DarcyHudson	Bishop	598377	7059551	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	0.65	Dry		
121261	17/06/2011	DarcyHudson	Bishop	598397	7059604	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	0.6	Moist		
121262	17/06/2011	DarcyHudson	Bishop	598436	7059639	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	0.5	Wet		
121263	17/06/2011	DarcyHudson	Bishop	598477	7059685	UTM27N WGS84	Soil	BrownDark	Clay	Flat	B	0.5	Moist		
123265	09/08/2011	RandyCampbell	Bishop		2260		Colluvium	Brown	Silt	ModerateNE	B	60	Moist	Poor	ForestBlackSpruce
123266	09/08/2011	RandyCampbell	Bishop	597392	7061530	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	80	Moist	Poor	ForestBlackSpruce
123267	09/08/2011	RandyCampbell	Bishop	597345	7061529	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	80	Moist	Poor	ForestBlackSpruce
123268	09/08/2011	RandyCampbell	Bishop	597296	7061533	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Dry	Good	ForestMixed
123269	09/08/2011	RandyCampbell	Bishop	597248	7061539	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	50	Moist	Poor	ForestBlackSpruce
123270	09/08/2011	RandyCampbell	Bishop	597197	7061538	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Dry	Good	ForestBlackSpruce
123271	09/08/2011	RandyCampbell	Bishop	597150	7061537	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Dry	Poor	ForestBlackSpruce
123272	09/08/2011	RandyCampbell	Bishop	597098	7061532	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Moist	Poor	ForestBlackSpruce
123273	09/08/2011	RandyCampbell	Bishop	597046	7061532	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Dry	Good	ForestMixed
123274	09/08/2011	RandyCampbell	Bishop	596992	7061533	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Moist	Poor	ForestBlackSpruce
123275	09/08/2011	RandyCampbell	Bishop	596944	7061534	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	60	Moist	Poor	ForestBlackSpruce
123276	09/08/2011	RandyCampbell	Bishop	596895	7061536	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	60	Dry	Good	ForestBlackSpruce
123277	09/08/2011	RandyCampbell	Bishop	596844	7061532	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Poor	ForestBlackSpruce
123278	09/08/2011	RandyCampbell	Bishop	596795	7061530	UTM27N WGS84	Lithosoil	Brown	Silt	Ridge	B	50	Dry	Poor	ForestBlackSpruce
123279	09/08/2011	RandyCampbell	Bishop	596701	7061533	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Moist	Poor	ForestBlackSpruce
123280	09/08/2011	RandyCampbell	Bishop	596648	7061529	UTM27N WGS84	Soil	Brown	Clay		B	60	Wet	Poor	ForestBlackSpruce
123281	09/08/2011	RandyCampbell	Bishop	596596	7061533	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Poor	ForestBlackSpruce
123282	09/08/2011	RandyCampbell	Bishop	596552	7061542	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Moist	Poor	ForestBlackSpruce
123283	09/08/2011	RandyCampbell	Bishop	596500	7061532	UTM27N WGS84	Soil	Brown	Clay	ModerateW	B	70	Moist	Poor	ForestBlackSpruce
123284	09/08/2011	RandyCampbell	Bishop	596445	7061535	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	40	Moist	Poor	ForestBlackSpruce

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Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
123285	09/08/2011	RandyCampbell	Bishop	596396	7061530	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	B	50	Moist	Poor	ForestBlackSpruce
123286	09/08/2011	RandyCampbell	Bishop	596302	7061532	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	B	40	Dry	Poor	ForestBlackSpruce
123287	09/08/2011	RandyCampbell	Bishop	596255	7061534	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Dry	Poor	ForestBlackSpruce
123288	09/08/2011	RandyCampbell	Bishop	596202	7061528	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Dry	Poor	ForestBlackSpruce
123289	09/08/2011	RandyCampbell	Bishop	596155	7061537	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Poor	ForestBlackSpruce
124154	05/08/2011	MarkHiggins	Bishop	596138	7062132	UTMZ7N WGS84	Colluvium	Grey	Silt	Flat	B	70	Moist	Good	BurnNew
124155	05/08/2011	MarkHiggins	Bishop	596187	7062135	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Frozen	Good	BurnNew
124156	05/08/2011	MarkHiggins	Bishop	596244	7062138	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	B	70	Wet	Poor	BurnNew
124157	05/08/2011	MarkHiggins	Bishop	596291	7062130	UTMZ7N WGS84	Colluvium	Grey	Silt	Flat	B	60	Moist	Good	BurnNew
124158	05/08/2011	MarkHiggins	Bishop	596343	7062136	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Moist	Good	ForestMixed
124159	05/08/2011	MarkHiggins	Bishop	596388	7062134	UTMZ7N WGS84	Colluvium	Grey	Silt			60	Moist	Good	BurnNew
124160	05/08/2011	MarkHiggins	Bishop	596438	7062138	UTMZ7N WGS84	Colluvium	BrownLight			C	70	Dry	Excellent	BurnNew
124161	05/08/2011	MarkHiggins	Bishop	596495	7062131	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
124162	05/08/2011	MarkHiggins	Bishop	596539	7062125	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Dry	Excellent	ForestMixed
124163	05/08/2011	MarkHiggins	Bishop	596595	7062136	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Dry	Excellent	ForestMixed
124164	05/08/2011	MarkHiggins	Bishop	596639	7062135	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Dry	Excellent	ForestMixed
124165	05/08/2011	MarkHiggins	Bishop	596689	7062135	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Dry	Excellent	ForestPine
124166	05/08/2011	MarkHiggins	Bishop	596753	7062132	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60	Wet	Good	BurnOld
124167	05/08/2011	MarkHiggins	Bishop	596796	7062140	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Moist	Excellent	ForestMixed
124168	05/08/2011	MarkHiggins	Bishop	596843	7062138	UTMZ7N WGS84	Colluvium	BrownLight		Flat	C	50	Dry	Excellent	ForestMixed
124169	05/08/2011	MarkHiggins	Bishop	596895	7062130	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Dry	Good	ForestMixed
124170	05/08/2011	MarkHiggins	Bishop	596949	7062129	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Excellent	ForestMixed
124171	05/08/2011	MarkHiggins	Bishop	596992	7062128	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	ForestMixed
124172	05/08/2011	MarkHiggins	Bishop	597042	7062132	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	ForestMixed
124173	05/08/2011	MarkHiggins	Bishop	597107	7062132	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	ForestMixed
124174	05/08/2011	MarkHiggins	Bishop	597141	7062133	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Dry	Excellent	ForestMixed
124175	05/08/2011	MarkHiggins	Bishop	597193	7062130	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	ForestMixed
124176	05/08/2011	MarkHiggins	Bishop	597247	7062127	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	ForestMixed
124177	05/08/2011	MarkHiggins	Bishop	597292	7062132	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50		Excellent	ForestMixed
124178	05/08/2011	MarkHiggins	Bishop	597348	7062128	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	ForestMixed
124179	05/08/2011	MarkHiggins	Bishop	597394	7062122	UTMZ7N WGS84	Colluvium					60			ForestMixed
124180	05/08/2011	MarkHiggins	Bishop	597436	7062132	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Dry	Good	ForestMixed
129120	05/08/2011	JoeyTaylor	Bishop	596144	7061932	UTMZ7N WGS84	Colluvium	Grey	Silt		B	70	Frozen	Good	BurnOld
129121	05/08/2011	JoeyTaylor	Bishop	596185	7061931	UTMZ7N WGS84	Colluvium	Grey	Silt		B	70	Frozen	Good	BurnOld
129122	05/08/2011	JoeyTaylor	Bishop	596238	7061931	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Frozen	Good	BurnOld
129123	05/08/2011	JoeyTaylor	Bishop	596292	7061928	UTMZ7N WGS84	Colluvium	Grey	Silt		B	80	Frozen	Good	BurnOld
129124	05/08/2011	JoeyTaylor	Bishop	596342	7061923	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Moist	Good	BurnOld
129125	05/08/2011	JoeyTaylor	Bishop	596389	7061928	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Frozen	Good	BurnOld
129126	05/08/2011	JoeyTaylor	Bishop	596436	7061927	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50	Wet	Good	BurnOld
129127	05/08/2011	JoeyTaylor	Bishop	596492	7061931	UTMZ7N WGS84	Colluvium	Grey	Sand		B	70	Wet	Good	BurnOld
129128	05/08/2011	JoeyTaylor	Bishop	596542	7061938	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld
129129	05/08/2011	JoeyTaylor	Bishop	596593	7061930	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Moist	Excellent	BurnOld
129130	05/08/2011	JoeyTaylor	Bishop	596645	7061928	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	BurnOld
129131	05/08/2011	JoeyTaylor	Bishop	596696	7061925	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	BurnOld
129132	05/08/2011	JoeyTaylor	Bishop	596750	7061941	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	BurnOld
129133	05/08/2011	JoeyTaylor	Bishop	596796	7061937	UTMZ7N WGS84	Colluvium	Brown	Sand		B	60	Moist	Good	BurnOld
129134	05/08/2011	JoeyTaylor	Bishop	596847	7061929	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	BurnOld
129135	05/08/2011	JoeyTaylor	Bishop	596893	7061939	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnOld
129136	05/08/2011	JoeyTaylor	Bishop	596944	7061943	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnOld
129137	05/08/2011	JoeyTaylor	Bishop	596991	7061927	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50	Moist	Good	BurnOld
129138	05/08/2011	JoeyTaylor	Bishop	597043	7061932	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld
129139	05/08/2011	JoeyTaylor	Bishop	597093	7061924	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	BurnOld
129141	05/08/2011	JoeyTaylor	Bishop	597142	7061922	UTMZ7N WGS84	Colluvium	Brown	RustyOrange	Sand	C	60	Dry	Excellent	BurnNew
129142	05/08/2011	JoeyTaylor	Bishop	597195	7061930	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		C	50	Dry	Excellent	BurnNew
129143	05/08/2011	JoeyTaylor	Bishop	597246	7061919	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Frozen	Good	BurnNew
129144	05/08/2011	JoeyTaylor	Bishop	597285	7061935	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Frozen	Good	BurnNew
129145	05/08/2011	JoeyTaylor	Bishop	597346	7061918	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Frozen	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
129146	05/08/2011	JoeyTaylor	Bishop	597385	7061931	UTM27N WGS84	Colluvium	Brown	Silt		B	60	Frozen	Good	ForestMixed
129147	05/08/2011	JoeyTaylor	Bishop	597429	7061940	UTM27N WGS84	Colluvium	Brown	Silt		B	40	Frozen	Poor	ForestMixed
131001	31/07/2011	JoshJudson	Bishop	594397	7062027	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	0.9	Moist	Good	BurnOld
131002	31/07/2011	JoshJudson	Bishop	594345	7062025	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateE	B	0.9	Moist	Good	BurnOld
131003	31/07/2011	JoshJudson	Bishop	594300	7062022	UTM27N WGS84	Colluvium	Orange	Clay	ModerateE	C	0.8	Moist	Good	BurnOld
131004	31/07/2011	JoshJudson	Bishop	594248	7062026	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateE	B	1	Wet	Poor	BurnOld
131005	31/07/2011	JoshJudson	Bishop	594193	7062035	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateE	B	0.6	Wet	Poor	BurnOld
131006	31/07/2011	JoshJudson	Bishop	594148	7062021	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNE	B	0.6	Wet	Poor	BurnOld
131007	31/07/2011	JoshJudson	Bishop	594085	7062030	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	B	0.5	Wet	Good	BurnOld
131008	31/07/2011	JoshJudson	Bishop	594041	7062024	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.3	Moist	Good	BurnOld
131009	31/07/2011	JoshJudson	Bishop	593988	7062026	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.5	Moist	Good	BurnOld
131010	31/07/2011	JoshJudson	Bishop	593950	7062027	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.8	Wet	Poor	BurnOld
131011	31/07/2011	JoshJudson	Bishop	593905	7062027	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.6	Wet	Poor	BurnOld
131012	31/07/2011	JoshJudson	Bishop	593895	7062124	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Moist	Good	BurnOld
131013	31/07/2011	JoshJudson	Bishop	593953	7062126	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	B	0.8	Moist	Good	BurnOld
131014	31/07/2011	JoshJudson	Bishop	594002	7062128	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	1	Moist	Good	BurnOld
131015	31/07/2011	JoshJudson	Bishop	594052	7062134	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.4	Moist	Good	BurnOld
131016	31/07/2011	JoshJudson	Bishop	594101	7062129	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Poor	BurnOld
131017	31/07/2011	JoshJudson	Bishop	594154	7062136	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Wet	Good	BurnOld
131018	31/07/2011	JoshJudson	Bishop	594207	7062128	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.9	Wet	Good	BurnOld
131019	31/07/2011	JoshJudson	Bishop	594257	7062125	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.9	Wet	Poor	BurnOld
131020	31/07/2011	JoshJudson	Bishop	594299	7062128	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.9	Wet	Poor	BurnOld
131021	31/07/2011	JoshJudson	Bishop	594350	7062119	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateE	B	0.4	Moist	Good	BurnOld
131022	31/07/2011	JoshJudson	Bishop	594402	7062128	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.9	Moist	Good	BurnOld
131023	31/07/2011	JoshJudson	Bishop	594446	7062133	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.6	Moist	Good	BurnOld
131024	31/07/2011	JoshJudson	Bishop	594502	7062122	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.8	Wet	Poor	BurnOld
131025	31/07/2011	JoshJudson	Bishop	594554	7062128	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.9	Wet	Poor	BurnOld
131026	31/07/2011	JoshJudson	Bishop	594600	7062127	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.9	Wet	Good	BurnOld
131027	31/07/2011	JoshJudson	Bishop	594649	7062125	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.6	Moist	Good	BurnOld
131028	31/07/2011	JoshJudson	Bishop	594704	7062131	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.4	Moist	Good	BurnOld
131029	31/07/2011	JoshJudson	Bishop	594755	7062131	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.4	Moist	Good	BurnOld
131030	03/08/2011	JoshJudson	Bishop	594744	7062529	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.5	Wet	Poor	BurnOld
131031	03/08/2011	JoshJudson	Bishop	594698	7062528	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.9	Wet	Poor	BurnOld
131032	03/08/2011	JoshJudson	Bishop	594647	7062527	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Frozen	Poor	BurnOld
131033	03/08/2011	JoshJudson	Bishop	594591	7062528	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Poor	BurnOld
131034	03/08/2011	JoshJudson	Bishop	594542	7062529	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	B	0.8	Wet	Poor	BurnOld
131035	03/08/2011	JoshJudson	Bishop	594492	7062524	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Poor	BurnOld
131036	03/08/2011	JoshJudson	Bishop	594439	7062522	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Good	BurnOld
131037	03/08/2011	JoshJudson	Bishop	594388	7062526	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	B	0.5	Wet	Poor	BurnOld
131038	03/08/2011	JoshJudson	Bishop	594344	7062528	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Frozen	Good	BurnOld
131039	03/08/2011	JoshJudson	Bishop	594295	7062526	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Good	BurnOld
131041	03/08/2011	JoshJudson	Bishop	594247	7062530	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Wet	Good	BurnOld
131042	03/08/2011	JoshJudson	Bishop	594189	7062523	UTM27N WGS84	Colluvium	Orange	Sand	ModerateNE	C	0.4	Wet	Good	BurnOld
131043	03/08/2011	JoshJudson	Bishop	594142	7062523	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Good	BurnOld
131044	03/08/2011	JoshJudson	Bishop	594099	7062513	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	B	0.5	Wet	Good	BurnOld
131045	03/08/2011	JoshJudson	Bishop	593995	7062520	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Wet	Poor	BurnOld
131046	03/08/2011	JoshJudson	Bishop	593946	7062528	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Poor	BurnOld
131047	03/08/2011	JoshJudson	Bishop	593893	7062524	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	B	0.6	Wet	Poor	BurnOld
131048	03/08/2011	JoshJudson	Bishop	593897	7062422	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Moist	Good	BurnOld
131049	03/08/2011	JoshJudson	Bishop	593944	7062427	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Wet	Good	BurnOld
131050	03/08/2011	JoshJudson	Bishop	594001	7062431	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.4	Wet	Poor	BurnOld
131051	03/08/2011	JoshJudson	Bishop	594049	7062430	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.5	Wet	Good	BurnOld
131052	03/08/2011	JoshJudson	Bishop	594095	7062433	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Good	BurnOld
131053	03/08/2011	JoshJudson	Bishop	594149	7062432	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Poor	BurnOld
131054	03/08/2011	JoshJudson	Bishop	594198	7062432	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Good	BurnOld
131055	03/08/2011	JoshJudson	Bishop	594243	7062426	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Good	BurnOld
131056	03/08/2011	JoshJudson	Bishop	594304	7062424	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.6	Wet	Poor	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
131057	03/08/2011	JoshJudson	Bishop	594352	7062427	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.7	Wet	Good	BurnOld
131058	03/08/2011	JoshJudson	Bishop	594401	7062431	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateNE	B	0.8	Wet	Good	BurnOld
131059	03/08/2011	JoshJudson	Bishop	594453	7062433	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.9	Wet	Poor	BurnOld
131060	03/08/2011	JoshJudson	Bishop	594501	7062430	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateNE	C	0.9	Wet	Poor	BurnOld
131061	03/08/2011	JoshJudson	Bishop	594548	7062426	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateE	B	0.3	Moist	Poor	BurnOld
131062	03/08/2011	JoshJudson	Bishop	594599	7062427	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.9	Wet	Poor	BurnOld
131063	03/08/2011	JoshJudson	Bishop	594652	7062427	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.8	Wet	Good	BurnOld
131064	03/08/2011	JoshJudson	Bishop	594707	7062422	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.7	Wet	Good	BurnOld
131065	03/08/2011	JoshJudson	Bishop	594748	7062434	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateE	B	0.8	Wet	Poor	BurnOld
145299	03/08/2011	TomStridsland	Bishop	596190	7061028	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	40	Wet	Poor	
145300	03/08/2011	TomStridsland	Bishop	596293	7061036	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	40	Wet	Poor	
145301	03/08/2011	TomStridsland	Bishop	596403	7061033	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	90	Wet	Poor	
145302	03/08/2011	TomStridsland	Bishop	596446	7061031	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Wet	Poor	
145303	03/08/2011	TomStridsland	Bishop	596496	7061038	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50		Poor	
145304	03/08/2011	TomStridsland	Bishop	596542	7061038	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60		Good	
145305	03/08/2011	TomStridsland	Bishop	596601	7061028	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145306	03/08/2011	TomStridsland	Bishop	596649	7061029	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60		Good	
145307	03/08/2011	TomStridsland	Bishop	596695	7061040	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60		Excellent	
145308	03/08/2011	TomStridsland	Bishop	596747	7061038	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Good	
145309	03/08/2011	TomStridsland	Bishop	597430	7061031	UTMZ7N WGS84	Colluvium	Grey	Silt		B	80		Good	
145310	03/08/2011	TomStridsland	Bishop	597397	7061023	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Good	
145311	03/08/2011	TomStridsland	Bishop	597340	7061034	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60		Good	
145312	03/08/2011	TomStridsland	Bishop	597293	7061030	UTMZ7N WGS84	Colluvium	Tan	Sand		C	70		Good	
145313	03/08/2011	TomStridsland	Bishop	597240	7061033	UTMZ7N WGS84	Colluvium	Blue	Sand		C	60		Excellent	
145314	03/08/2011	TomStridsland	Bishop	597195	7061030	UTMZ7N WGS84	Colluvium	Tan	Gravel		C	40			
145315	03/08/2011	TomStridsland	Bishop	597151	7061034	UTMZ7N WGS84	Colluvium	Tan	Gravel		B	30		Good	
145316	03/08/2011	TomStridsland	Bishop	597087	7061033	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60		Good	
145317	03/08/2011	TomStridsland	Bishop	597042	7061032	UTMZ7N WGS84	Colluvium	Tan	Sand		C	50		Excellent	
145318	03/08/2011	TomStridsland	Bishop	596987	7061031	UTMZ7N WGS84	Colluvium	Tan	Sand		B	60		Good	
145319	03/08/2011	TomStridsland	Bishop	596938	7061030	UTMZ7N WGS84	Colluvium	Tan	Sand		C	50		Excellent	
145320	03/08/2011	TomStridsland	Bishop	596894	7061030	UTMZ7N WGS84	Colluvium	Tan	Sand		B	60		Good	
145321	03/08/2011	TomStridsland	Bishop	596838	7061034	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Wet	Good	
145322	03/08/2011	TomStridsland	Bishop	596791	7061027	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60		Good	
145323	04/08/2011	TomStridsland	Bishop	596145	7061233	UTMZ7N WGS84	Colluvium	Grey	Sand		B	50		Poor	
145324	04/08/2011	TomStridsland	Bishop	596196	7061233	UTMZ7N WGS84	Colluvium	Grey	Sand		C	70			
145325	04/08/2011	TomStridsland	Bishop	596244	7061234	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60			
145326	04/08/2011	TomStridsland	Bishop	596295	7061247	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60			
145327	04/08/2011	TomStridsland	Bishop	596340	7061235	UTMZ7N WGS84	Colluvium	Grey	Silt		B	90	Moist		
145328	04/08/2011	TomStridsland	Bishop	596381	7061237	UTMZ7N WGS84	Frostboil	Grey	Gravel		B	50			
145329	04/08/2011	TomStridsland	Bishop	596449	7061230	UTMZ7N WGS84	Frostboil	Grey	Silt		B	600		Good	
145330	04/08/2011	TomStridsland	Bishop	596496	7061229	UTMZ7N WGS84	Frostboil	Grey	Silt		B	60		Poor	
145331	04/08/2011	TomStridsland	Bishop	596543	7061236	UTMZ7N WGS84	Frostboil	Grey	Silt		B	60		Good	
145332	04/08/2011	TomStridsland	Bishop	596603	7061239	UTMZ7N WGS84	Frostboil	Grey	Silt		B	90			
145333	04/08/2011	TomStridsland	Bishop	596648	7061232	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60		Good	
145334	04/08/2011	TomStridsland	Bishop	596697	7061234	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Good	
145335	04/08/2011	TomStridsland	Bishop	596746	7061231	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145336	04/08/2011	TomStridsland	Bishop	596799	7061227	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145337	04/08/2011	TomStridsland	Bishop	596845	7061228	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50			
145338	04/08/2011	TomStridsland	Bishop	596887	7061243	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30		Poor	
145339	04/08/2011	TomStridsland	Bishop	596942	7061235	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30		Poor	
145340	04/08/2011	TomStridsland	Bishop	597436	7061237	UTMZ7N WGS84	Colluvium	Grey	Sand		B	40			
145341	04/08/2011	TomStridsland	Bishop	597390	7061237	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70		Good	
145342	04/08/2011	TomStridsland	Bishop	597330	7061223	UTMZ7N WGS84	Colluvium	Tan	Sand		C	90		Excellent	
145343	04/08/2011	TomStridsland	Bishop	597292	7061227	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	80		Excellent	
145344	04/08/2011	TomStridsland	Bishop	597242	7061226	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Good	
145345	04/08/2011	TomStridsland	Bishop	597190	7061230	UTMZ7N WGS84	Colluvium	BrownLight	Clay		B	60		Poor	
145346	04/08/2011	TomStridsland	Bishop	597138	7061235	UTMZ7N WGS84	Colluvium	BrownLight	Clay		B	70		Good	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
145347	04/08/2011	TomStridland	Bishop	597085	7061226	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	40		Poor	
145348	04/08/2011	TomStridland	Bishop	597040	7061231	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	70		Good	
145349	04/08/2011	TomStridland	Bishop	596991	7061237	UTMZ7N WGS84	Frostboil	BrownLight	Sand		B	30		Good	
145350	04/08/2011	TomStridland	Bishop	596146	7062025	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	50	Wet	Poor	
145351	05/08/2011	TomStridland	Bishop	596202	7062034	UTMZ7N WGS84	Colluvium	Grey	Silt		B	80	Wet	Poor	
145352	05/08/2011	TomStridland	Bishop	596247	7062029	UTMZ7N WGS84	Colluvium	Grey	Silt		B	80	Wet	Poor	
145353	05/08/2011	TomStridland	Bishop	596297	7062032	UTMZ7N WGS84	Colluvium	Grey	Silt		B	90	Wet	Poor	
145354	05/08/2011	TomStridland	Bishop	596346	7062033	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Good	
145355	05/08/2011	TomStridland	Bishop	596391	7062038	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Wet	Poor	
145356	05/08/2011	TomStridland	Bishop	596441	7062033	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	60	Wet	Poor	
145357	05/08/2011	TomStridland	Bishop	596494	7062034	UTMZ7N WGS84	Colluvium	Grey	Silt		B	80		Poor	
145358	05/08/2011	TomStridland	Bishop	596550	7062038	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60		Excellent	
145359	05/08/2011	TomStridland	Bishop	596587	7062033	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145360	05/08/2011	TomStridland	Bishop	596644	7062028	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60		Poor	
145361	05/08/2011	TomStridland	Bishop	596695	7062029	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Good	
145362	05/08/2011	TomStridland	Bishop	596741	7062033	UTMZ7N WGS84	Colluvium	Tan	Gravel		C	70	Wet	Good	
145363	05/08/2011	TomStridland	Bishop	596799	7062035	UTMZ7N WGS84	Colluvium	Tan	Sand		C	80	Wet	Good	
145364	05/08/2011	TomStridland	Bishop	596842	7062036	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
145365	05/08/2011	TomStridland	Bishop	596895	7062033	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145366	05/08/2011	TomStridland	Bishop	596945	7062034	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60		Excellent	
145367	05/08/2011	TomStridland	Bishop	596993	7062033	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50		Good	
145368	05/08/2011	TomStridland	Bishop	597045	7062036	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Good	
145369	05/08/2011	TomStridland	Bishop	597093	7062028	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
145370	05/08/2011	TomStridland	Bishop	597140	7062031	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
145371	05/08/2011	TomStridland	Bishop	597197	7062038	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50		Good	
145372	05/08/2011	TomStridland	Bishop	597248	7062032	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
145373	05/08/2011	TomStridland	Bishop	597299	7062032	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145374	05/08/2011	TomStridland	Bishop	597342	7062045	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145375	05/08/2011	TomStridland	Bishop	597398	7062030	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70		Good	
145376	05/08/2011	TomStridland	Bishop	597444	7062036	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	80		Good	
146336	31/07/2011	JordanHarrington	Bishop	594744	7061819	UTMZ7N WGS84	Colluvium	Grey	Clay	Drainage	B	60	Moist	Poor	ForestMixed
146337	31/07/2011	JordanHarrington	Bishop	594694	7061825	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateNE	B	80	Frozen	Poor	BurnOld
146338	31/07/2011	JordanHarrington	Bishop	594648	7061824	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateN	B	50	Frozen	Poor	BurnOld
146339	31/07/2011	JordanHarrington	Bishop	594595	7061833	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Wet	Poor	BurnOld
146341	31/07/2011	JordanHarrington	Bishop	594553	7061827	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Wet	Poor	BurnOld
146342	31/07/2011	JordanHarrington	Bishop	594496	7061825	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Frozen	Poor	BurnOld
146343	31/07/2011	JordanHarrington	Bishop	594452	7061830	UTMZ7N WGS84	Colluvium	Brown	Silt	Drainage	B	30	Frozen	Poor	ForestMixed
146344	31/07/2011	JordanHarrington	Bishop	594400	7061825	UTMZ7N WGS84	Colluvium	Brown	Silt	Drainage	B	40	Frozen	Poor	DrainageBrush
146345	31/07/2011	JordanHarrington	Bishop	594351	7061840	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	70	Frozen	Poor	BurnOld
146346	31/07/2011	JordanHarrington	Bishop	594305	7061832	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Frozen	Poor	BurnOld
146347	31/07/2011	JordanHarrington	Bishop	594250	7061838	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	50	Frozen	Poor	BurnOld
146348	31/07/2011	JordanHarrington	Bishop	594199	7061826	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Frozen	Poor	BurnOld
146349	31/07/2011	JordanHarrington	Bishop	594152	7061836	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateSE	C	70	Dry	Good	BurnOld
146350	31/07/2011	JordanHarrington	Bishop	594098	7061836	UTMZ7N WGS84	Colluvium	Orange	Sand	Flat	C	100	Dry	Excellent	BurnOld
146351	31/07/2011	JordanHarrington	Bishop	594052	7061829	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	50	Wet	Poor	BurnOld
146352	31/07/2011	JordanHarrington	Bishop	594006	7061825	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	80	Frozen	Poor	BurnOld
146353	31/07/2011	JordanHarrington	Bishop	593944	7061819	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Frozen	Poor	BurnOld
146354	31/07/2011	JordanHarrington	Bishop	593899	7061833	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Frozen	Good	BurnOld
146355	31/07/2011	JordanHarrington	Bishop	593892	7061924	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Frozen	Poor	BurnOld
146356	31/07/2011	JordanHarrington	Bishop	593944	7061930	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Frozen	Good	BurnOld
146357	31/07/2011	JordanHarrington	Bishop	593993	7061928	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Frozen	Poor	BurnOld
146358	31/07/2011	JordanHarrington	Bishop	594044	7061934	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Frozen	Good	BurnOld
146359	31/07/2011	JordanHarrington	Bishop	594092	7061931	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Frozen	Poor	BurnOld
146360	31/07/2011	JordanHarrington	Bishop	594140	7061928	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	90	Wet	Poor	BurnOld
146361	31/07/2011	JordanHarrington	Bishop	594194	7061930	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Frozen	Poor	BurnOld
146362	31/07/2011	JordanHarrington	Bishop	594242	7061929	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	70	Frozen	Poor	BurnOld
146363	31/07/2011	JordanHarrington	Bishop	594294	7061924	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	B	50	Frozen	Poor	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
146364	31/07/2011	JordanHarrington	Bishop	594341	7061922	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Frozen	Poor	BurnOld
146365	31/07/2011	JordanHarrington	Bishop	594393	7061931	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Frozen	Poor	BurnOld
146366	31/07/2011	JordanHarrington	Bishop	594453	7061938	UTM27N WGS84	Lithosoil	Brown	Sand	ModerateSE	B	40	Wet	Poor	BurnOld
146367	31/07/2011	JordanHarrington	Bishop	594494	7061928	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Frozen	Poor	BurnOld
146368	31/07/2011	JordanHarrington	Bishop	594549	7061931	UTM27N WGS84	Colluvium	Brown	Silt	Drainage	B	80	Frozen	Poor	BurnOld
146369	31/07/2011	JordanHarrington	Bishop	594601	7061931	UTM27N WGS84	Colluvium	Brown	Clay	Drainage	B	60	Frozen	Poor	BurnOld
146370	31/07/2011	JordanHarrington	Bishop	594654	7061931	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	B	60	Moist	Poor	BurnOld
146371	31/07/2011	JordanHarrington	Bishop	594700	7061933	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist	Poor	ForestMixed
146372	31/07/2011	JordanHarrington	Bishop	594747	7061929	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Frozen	Poor	ForestBlackSpruce
146373	03/08/2011	JordanHarrington	Bishop	596146	7060829	UTM27N WGS84	Soil	Grey	Clay	Flat	B	90	Frozen	Poor	BurnOld
146374	03/08/2011	JordanHarrington	Bishop	596188	7060834	UTM27N WGS84	Soil	Grey	Clay	Flat	B	70	Frozen	Poor	BurnOld
146375	03/08/2011	JordanHarrington	Bishop	596244	7060838	UTM27N WGS84	Soil	Grey	Clay	Flat	B	80	Frozen	Poor	BurnOld
146376	03/08/2011	JordanHarrington	Bishop	596291	7060831	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	80	Frozen	Poor	BurnOld
146377	03/08/2011	JordanHarrington	Bishop	596342	7060833	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Frozen	Poor	BurnOld
146378	03/08/2011	JordanHarrington	Bishop	596394	7060834	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	50	Frozen	Poor	BurnOld
146379	03/08/2011	JordanHarrington	Bishop	596443	7060833	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	50	Frozen	Poor	BurnOld
146380	03/08/2011	JordanHarrington	Bishop	596490	7060831	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	80	Frozen	Poor	BurnOld
146381	03/08/2011	JordanHarrington	Bishop	596539	7060830	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	40	Frozen	Poor	BurnOld
146382	03/08/2011	JordanHarrington	Bishop	596591	7060837	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Frozen	Poor	BurnOld
146383	03/08/2011	JordanHarrington	Bishop	596636	7060830	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateNW	B	30	Frozen	Poor	BurnOld
146384	03/08/2011	JordanHarrington	Bishop	596688	7060834	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Frozen	Poor	BurnOld
146385	03/08/2011	JordanHarrington	Bishop	596741	7060834	UTM27N WGS84	Colluvium	Grey	Clay	ModerateW	B	70	Frozen	Poor	BurnOld
146386	03/08/2011	JordanHarrington	Bishop	597445	7060842	UTM27N WGS84	Soil	Brown	Clay	ModerateE	B	60	Frozen	Poor	BurnOld
146387	03/08/2011	JordanHarrington	Bishop	597401	7060833	UTM27N WGS84	Soil	Brown	Clay	ModerateE	B	50	Frozen	Poor	BurnOld
146388	03/08/2011	JordanHarrington	Bishop	597348	7060829	UTM27N WGS84	Soil	Brown	Clay	ModerateE	B	60	Frozen	Poor	BurnOld
146389	03/08/2011	JordanHarrington	Bishop	597295	7060830	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	100	Frozen	Good	BurnOld
146390	03/08/2011	JordanHarrington	Bishop	597249	7060829	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	80	Frozen	Poor	BurnOld
146391	03/08/2011	JordanHarrington	Bishop	597193	7060828	UTM27N WGS84	Colluvium	Grey	Clay	ModerateE	B	80	Frozen	Poor	BurnOld
146392	03/08/2011	JordanHarrington	Bishop	597140	7060841	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	B	60	Frozen	Poor	BurnOld
146393	03/08/2011	JordanHarrington	Bishop	597097	7060833	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	B	60	Frozen	Poor	BurnOld
146394	03/08/2011	JordanHarrington	Bishop	597042	7060836	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Frozen	Poor	BurnOld
146395	03/08/2011	JordanHarrington	Bishop	596996	7060833	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	70	Frozen	Poor	BurnOld
146396	03/08/2011	JordanHarrington	Bishop	596945	7060827	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	50	Frozen	Poor	BurnOld
146397	03/08/2011	JordanHarrington	Bishop	596892	7060840	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	60	Frozen	Poor	BurnOld
146398	03/08/2011	JordanHarrington	Bishop	596844	7060832	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	50	Frozen	Poor	BurnOld
146399	03/08/2011	JordanHarrington	Bishop	596798	7060833	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Good	BurnOld
60185	03/06/2011	TomStridsland	Montana	594585	7055497	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	50	Frozen	Excellent	BurnOld
60186	03/06/2011	TomStridsland	Montana	594567	7055535	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
100001	03/06/2011	TomStridsland	Montana	595474	7054528	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	60	Moist	Excellent	ForestMixed
100002	03/06/2011	TomStridsland	Montana	595429	7054519	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	50	Moist	Excellent	BurnOld
100003	03/06/2011	TomStridsland	Montana	595383	7054506	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Moist	Excellent	BurnOld
100004	03/06/2011	TomStridsland	Montana	595324	7054514	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	60	Moist	Excellent	BurnOld
100005	03/06/2011	TomStridsland	Montana	595236	7054543	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C		Moist	Excellent	BurnOld
100006	03/06/2011	TomStridsland	Montana				Colluvium	Green	Sand	ModerateS	C	50	Moist	Excellent	ForestMixed
100007	03/06/2011	TomStridsland	Montana	595195	7054547	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	60	Moist	Excellent	ForestMixed
100008	03/06/2011	TomStridsland	Montana	595068	7054559	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	40	Moist	Excellent	ForestMixed
100009	03/06/2011	TomStridsland	Montana	595036	7054554	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	30	Moist	Good	ForestMixed
100010	03/06/2011	TomStridsland	Montana	595046	7054621	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	30	Moist	Good	BurnOld
100011	03/06/2011	TomStridsland	Montana	595041	7054661	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	30	Moist	Excellent	BurnOld
100012	03/06/2011	TomStridsland	Montana	594944	7054838	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	80	Frozen	Good	ForestPine
100013	03/06/2011	TomStridsland	Montana	594928	7054894	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	40	Dry	Excellent	BurnOld
100014	03/06/2011	TomStridsland	Montana	594921	7054939	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Moist	Excellent	BurnOld
100015	03/06/2011	TomStridsland	Montana	594898	7054987	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	30	Moist	Good	BurnOld
100016	03/06/2011	TomStridsland	Montana	594877	7055030	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Moist	Excellent	BurnOld
100017	03/06/2011	TomStridsland	Montana	594858	7055075	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	50	Dry	Excellent	ForestMixed
100018	03/06/2011	TomStridsland	Montana	594806	7055157	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	40	Dry	Excellent	ForestMixed
100019	03/06/2011	TomStridsland	Montana	594769	7055261	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Dry	Excellent	ForestMixed

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Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
100020	03/06/2011	TomStridsland	Montana	594743	7055302	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
100021	03/06/2011	TomStridsland	Montana	594716	7055335	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Dry	Excellent	ForestMixed
100022	03/06/2011	TomStridsland	Montana	594694	7055382	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Excellent	ForestMixed
100023	03/06/2011	TomStridsland	Montana	594655	7055414	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Frozen	Excellent	ForestMixed
100024	03/06/2011	TomStridsland	Montana	594623	7055462	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	70	Frozen	Excellent	ForestMixed
100025	03/06/2011	TomStridsland	Montana	594080	7055170	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	25	Dry	Excellent	ForestMixed
100026	03/06/2011	TomStridsland	Montana	594110	7055148	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Excellent	ForestMixed
100027	03/06/2011	TomStridsland	Montana	594127	7055094	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Moist	Excellent	ForestMixed
100028	05/06/2011	TomStridsland	Montana	595632	7051023	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	50	Moist	Excellent	ForestBlackSpruce
100029	05/06/2011	TomStridsland	Montana	595674	7050982	UTM27N WGS84	Colluvium	Green	Silt	SteepN	C	50	Moist	Excellent	ForestBlackSpruce
100030	05/06/2011	TomStridsland	Montana	595754	7050922	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
100031	05/06/2011	TomStridsland	Montana	595873	7050828	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	60	Moist	Good	ForestBlackSpruce
100032	05/06/2011	TomStridsland	Montana	595918	7050807	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Moist	Excellent	ForestBlackSpruce
100033	05/06/2011	TomStridsland	Montana	595958	7050764	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Moist	Good	ForestMixed
100034	05/06/2011	TomStridsland	Montana	596038	7050712	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Moist	Excellent	ForestMixed
100035	05/06/2011	TomStridsland	Montana	596078	7050672	UTM27N WGS84	Soil	Green	Silt	Flat	C	60	Moist	Excellent	ForestMixed
100036	05/06/2011	TomStridsland	Montana	596125	7050647	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	30	Moist	Good	ForestMixed
100037	05/06/2011	TomStridsland	Montana	596160	7050627	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	50	Moist	Excellent	ForestMixed
100038	05/06/2011	TomStridsland	Montana	596266	7050527	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	30	Moist	Good	ForestMixed
100039	05/06/2011	TomStridsland	Montana	596413	7050495	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	40	Moist	Excellent	ForestMixed
100040	05/06/2011	TomStridsland	Montana	596413	7050495	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	40	Moist	Excellent	ForestMixed
100041	06/06/2011	TomStridsland	Montana	600410	7048972	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Excellent	ForestMixed
100042	06/06/2011	TomStridsland	Montana	600403	7049021	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Poor	ForestMixed
100043	06/06/2011	TomStridsland	Montana	600397	7049077	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Wet	Good	ForestMixed
100044	06/06/2011	TomStridsland	Montana	600378	7049222	UTM27N WGS84	Colluvium	Tan	Silt	Flat	C	60	Moist	Excellent	ForestMixed
100045	06/06/2011	TomStridsland	Montana	600377	7049278	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Moist	Excellent	BurnOld
100046	06/06/2011	TomStridsland	Montana	600378	7049330	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Moist	Excellent	SubAlpineAlder
100047	06/06/2011	TomStridsland	Montana	600370	7049380	UTM27N WGS84	Colluvium	Tan	Silt	Flat	C	80	Moist	Excellent	BurnOld
100048	06/06/2011	TomStridsland	Montana	600356	7049429	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	80	Moist	Excellent	ForestMixed
100049	06/06/2011	TomStridsland	Montana	600372	7049470	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	C	100	Moist	Excellent	ForestMixed
100050	06/06/2011	TomStridsland	Montana	600384	7049526	UTM27N WGS84	Colluvium	Tan	Sand	Flat	C	80	Moist	Excellent	ForestMixed
100051	06/06/2011	TomStridsland	Montana	600404	7049566	UTM27N WGS84	Colluvium	Tan	Sand	Flat	C	40	Moist	Good	ForestMixed
100052	06/06/2011	TomStridsland	Montana	600420	7049750	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	80	Moist	Excellent	BurnOld
100053	06/06/2011	TomStridsland	Montana	600396	7049802	UTM27N WGS84	Colluvium	Grey	Clay	ModerateN	B	90	Wet	Poor	ForestMixed
100057	07/06/2011	TomStridsland	Montana	598285	7052329	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	40	Moist	Good	ForestMixed
100058	07/06/2011	TomStridsland	Montana	598230	7052412	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	60	Moist	Excellent	ForestMixed
100059	07/06/2011	TomStridsland	Montana	598217	7052462	UTM27N WGS84	Colluvium	RustyOrange	Sand	Ridge	C	90	Moist	Excellent	ForestMixed
100060	07/06/2011	TomStridsland	Montana	598194	7052497	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	80	Moist	Excellent	ForestMixed
100061	07/06/2011	TomStridsland	Montana	598169	7052550	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	80	Moist	Excellent	ForestMixed
100062	07/06/2011	TomStridsland	Montana	598147	7052595	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	60	Moist	Excellent	ForestMixed
100063	07/06/2011	TomStridsland	Montana	598093	7052679	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Moist	Good	ForestMixed
100064	07/06/2011	TomStridsland	Montana	598075	7052724	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	50	Moist	Excellent	ForestMixed
100065	07/06/2011	TomStridsland	Montana	598074	7052724	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	50	Moist	Excellent	ForestMixed
100066	07/06/2011	TomStridsland	Montana	598025	7052806	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Excellent	ForestMixed
100067	07/06/2011	TomStridsland	Montana	597994	7052844	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Moist	Excellent	ForestMixed
100068	07/06/2011	TomStridsland	Montana	597911	7052912	UTM27N WGS84	Colluvium	Tan	Silt	Ridge	C	80	Moist	Excellent	ForestMixed
100069	07/06/2011	TomStridsland	Montana	597886	7052946	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Excellent	ForestMixed
100070	07/06/2011	TomStridsland	Montana	597808	7053017	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Excellent	BurnOld
100071	07/06/2011	TomStridsland	Montana	597772	7053054	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Excellent	ForestMixed
100072	07/06/2011	TomStridsland	Montana	597740	7053087	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	60	Moist	Excellent	BurnOld
100073	07/06/2011	TomStridsland	Montana	597701	7053122	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	70	Moist	Excellent	BurnOld
100074	07/06/2011	TomStridsland	Montana	597666	7053160	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Moist	Excellent	BurnOld
100075	07/06/2011	TomStridsland	Montana	597622	7053198	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	60	Moist	Excellent	BurnOld
100076	07/06/2011	TomStridsland	Montana	597553	7053256	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
100077	07/06/2011	TomStridsland	Montana	597480	7053327	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
100078	07/06/2011	TomStridsland	Montana	597442	7053369	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	80	Moist	Excellent	BurnOld
100079	07/06/2011	TomStridsland	Montana	597414	7053404	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	70	Moist	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
100080	07/06/2011	TomStridsland	Montana	597375	7053434	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
100081	08/06/2011	TomStridsland	Montana	600329	7054757	UTMZ7N WGS84	Colluvium	Tan	Sand	Ridge	B	30	Dry	Good	BurnOld
100082	08/06/2011	TomStridsland	Montana	600289	7054796	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	B	30	Moist	Good	BurnOld
100083	08/06/2011	TomStridsland	Montana	600255	7054838	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Ridge	B	30	Dry	Good	BurnOld
100084	08/06/2011	TomStridsland	Montana	600222	7054870	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	30	Dry	Good	BurnOld
100085	08/06/2011	TomStridsland	Montana	600195	7054914	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Excellent	BurnOld
100086	08/06/2011	TomStridsland	Montana	600160	7054952	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Good	BurnOld
100087	08/06/2011	TomStridsland	Montana	600124	7054990	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Excellent	BurnOld
100088	08/06/2011	TomStridsland	Montana	600095	7055033	UTMZ7N WGS84	Colluvium	Tan	Silt	ModerateNW	C	40	Moist	Excellent	BurnOld
100089	08/06/2011	TomStridsland	Montana	600062	7055073	UTMZ7N WGS84	Colluvium	Tan	Sand	ModerateNW	C	40	Dry	Excellent	BurnOld
100090	08/06/2011	TomStridsland	Montana	600062	7055073	UTMZ7N WGS84	Colluvium	Tan	Sand	ModerateNW	C	40	Dry	Excellent	BurnOld
100091	08/06/2011	TomStridsland	Montana	600028	7055103	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Excellent	BurnOld
100092	08/06/2011	TomStridsland	Montana	600000	7055144	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Moist	Excellent	BurnOld
100093	08/06/2011	TomStridsland	Montana	599967	7055181	UTMZ7N WGS84	Colluvium	Tan	Silt	ModerateNW	C	40	Moist	Excellent	BurnOld
100094	08/06/2011	TomStridsland	Montana	599907	7055199	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	30	Dry	Good	BurnOld
100095	08/06/2011	TomStridsland	Montana	599851	7055202	UTMZ7N WGS84	Colluvium	Tan	Sand	ModerateNW	C	30	Dry	Good	BurnOld
100096	08/06/2011	TomStridsland	Montana	599802	7055212	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Excellent	BurnOld
100097	08/06/2011	TomStridsland	Montana	599757	7055208	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	60	Dry	Excellent	ForestMixed
100098	08/06/2011	TomStridsland	Montana	599701	7055218	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Dry	Excellent	ForestMixed
100099	08/06/2011	TomStridsland	Montana	599656	7055220	UTMZ7N WGS84	Colluvium	Tan	Sand	ModerateNW	C	40	Dry	Excellent	ForestMixed
100100	08/06/2011	TomStridsland	Montana	599611	7055221	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	100	Dry	Excellent	ForestMixed
100101	08/06/2011	TomStridsland	Montana	599562	7055208	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	80	Dry	Excellent	ForestMixed
100102	08/06/2011	TomStridsland	Montana	599510	7055201	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	80	Dry	Excellent	ForestMixed
100103	08/06/2011	TomStridsland	Montana	599459	7055203	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	80	Dry	Excellent	ForestMixed
100104	08/06/2011	TomStridsland	Montana	599411	7055194	UTMZ7N WGS84	Colluvium	Green	Silt	Flat	C	30	Dry	Excellent	ForestMixed
100105	08/06/2011	TomStridsland	Montana	599366	7055201	UTMZ7N WGS84	Colluvium	Grey	Sand	ModerateW	C	40	Dry	Excellent	ForestMixed
100106	08/06/2011	TomStridsland	Montana	599322	7055191	UTMZ7N WGS84	Colluvium	Grey	Sand	ModerateNW	C	40	Dry	Excellent	ForestMixed
100107	08/06/2011	TomStridsland	Montana	599253	7055197	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Excellent	ForestMixed
100108	08/06/2011	TomStridsland	Montana	599212	7055183	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateNW	C	40	Dry	Excellent	ForestMixed
100109	08/06/2011	TomStridsland	Montana	599528	7055687	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateN	C	40	Dry	Excellent	BurnOld
100110	08/06/2011	TomStridsland	Montana	599504	7055727	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateN	C	40	Dry	Excellent	BurnOld
100111	08/06/2011	TomStridsland	Montana	599447	7055809	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateN	C	40	Moist	Good	ForestMixed
100112	09/06/2011	TomStridsland	Montana												
100520	11/08/2011	ChrisErdman	Montana	600959	7048571	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Moist	Poor	
100521	11/08/2011	ChrisErdman	Montana	600937	7048630	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	
100522	11/08/2011	ChrisErdman	Montana	600914	7048664	UTMZ7N WGS84	Colluvium	Brown	Silt		C	70	Dry	Good	
100523	11/08/2011	ChrisErdman	Montana	600876	7048724	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Wet	Poor	
100524	11/08/2011	ChrisErdman	Montana	600879	7048776	UTMZ7N WGS84	Colluvium	Brown	Silt		B	80	Moist	Poor	
100525	11/08/2011	ChrisErdman	Montana	600835	7048809	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Poor	
100526	11/08/2011	ChrisErdman	Montana	600813	7048901	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Poor	
100527	11/08/2011	ChrisErdman	Montana	600788	7048938	UTMZ7N WGS84	Colluvium	Brown	Sand		B	60	Moist	Good	
100528	11/08/2011	ChrisErdman	Montana	600760	7048989	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Good	
100529	11/08/2011	ChrisErdman	Montana	600739	7049034	UTMZ7N WGS84	Colluvium	Brown	Silt		B	70	Moist	Poor	
100530	11/08/2011	ChrisErdman	Montana	600718	7049078	UTMZ7N WGS84	Colluvium	Brown	Silt		C	80	Moist	Good	
100531	11/08/2011	ChrisErdman	Montana	600699	7049136	UTMZ7N WGS84	Colluvium	Brown	Silt		C	70	Moist	Good	
100532	11/08/2011	ChrisErdman	Montana	600682	7049173	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	70	Moist	Poor	
100533	11/08/2011	ChrisErdman	Montana	600661	7049214	UTMZ7N WGS84	Colluvium	Blue	Silt		C	60	Moist	Good	
100534	11/08/2011	ChrisErdman	Montana	600647	7049256	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	60	Moist	Poor	
100535	11/08/2011	ChrisErdman	Montana	600621	7049316	UTMZ7N WGS84	Colluvium	Brown	Silt		B	70	Moist	Good	
100536	11/08/2011	ChrisErdman	Montana	600614	7049351	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
100537	11/08/2011	ChrisErdman	Montana	600689	7049384	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
100538	11/08/2011	ChrisErdman	Montana	600715	7049338	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
100539	11/08/2011	ChrisErdman	Montana	600742	7049295	UTMZ7N WGS84	Colluvium	Brown	Silt		B	70	Moist	Good	
100541	11/08/2011	ChrisErdman	Montana	600760	7049251	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	60	Moist	Poor	
100542	11/08/2011	ChrisErdman	Montana	600784	7049202	UTMZ7N WGS84	Colluvium	Brown	Sand		B	70	Wet	Poor	
100543	11/08/2011	ChrisErdman	Montana	600803	7049164	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60	Dry	Excellent	
100544	11/08/2011	ChrisErdman	Montana	600822	7049112	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	

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Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
100545	11/08/2011	ChrisErdman	Montana	600837	7049064	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
100546	11/08/2011	ChrisErdman	Montana	600862	7049017	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
100547	11/08/2011	ChrisErdman	Montana	600883	7048970	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
100548	11/08/2011	ChrisErdman	Montana	600900	7048918	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	
100549	11/08/2011	ChrisErdman	Montana	600925	7048875	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
100550	11/08/2011	ChrisErdman	Montana	600948	7048838	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Poor	
100551	11/08/2011	ChrisErdman	Montana	600970	7048793	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Poor	
100552	11/08/2011	ChrisErdman	Montana	600987	7048757	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Moist	Excellent	
100553	11/08/2011	ChrisErdman	Montana	601009	7048706	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
100554	11/08/2011	ChrisErdman	Montana	601037	7048655	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	
100555	11/08/2011	ChrisErdman	Montana	601059	7048620	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
100649	15/08/2011	ChrisErdman	Montana	593849	7051211	UTMZ7N WGS84	Colluvium	Green	Silt		C	70	Dry	Excellent	
100650	15/08/2011	ChrisErdman	Montana	593893	7051219	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Excellent	
100651	15/08/2011	ChrisErdman	Montana	593920	7051254	UTMZ7N WGS84	Colluvium	Brown	Silt		C	100	Dry	Excellent	
100652	15/08/2011	ChrisErdman	Montana	593966	7051265	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
100653	15/08/2011	ChrisErdman	Montana	594014	7051276	UTMZ7N WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
100654	15/08/2011	ChrisErdman	Montana	594065	7051314	UTMZ7N WGS84	Colluvium	Tan	Silt		C	60	Dry	Excellent	
100655	15/08/2011	ChrisErdman	Montana	594113	7051343	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
100656	15/08/2011	ChrisErdman	Montana	594156	7051373	UTMZ7N WGS84	Colluvium	Brown	Silt		C	80	Dry	Excellent	
100657	15/08/2011	ChrisErdman	Montana	594209	7051400	UTMZ7N WGS84	Colluvium	Tan	Silt		C	70	Dry	Excellent	
100658	15/08/2011	ChrisErdman	Montana	594251	7051434	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
100659	15/08/2011	ChrisErdman	Montana	594285	7051459	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
100660	15/08/2011	ChrisErdman	Montana	594317	7051467	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
100661	15/08/2011	ChrisErdman	Montana	594357	7051482	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
100662	15/08/2011	ChrisErdman	Montana	594411	7051516	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
100663	15/08/2011	ChrisErdman	Montana	594454	7051548	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
100664	15/08/2011	ChrisErdman	Montana	594495	7051577	UTMZ7N WGS84	Colluvium	Green	Sand		C	60	Dry	Good	
100665	15/08/2011	ChrisErdman	Montana	594546	7051586	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
100666	15/08/2011	ChrisErdman	Montana	594561	7051451	UTMZ7N WGS84	Colluvium	Grey	Silt		B	80	Moist	Poor	
100667	15/08/2011	ChrisErdman	Montana	594499	7051427	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	60	Moist	Poor	
100668	15/08/2011	ChrisErdman	Montana	594457	7051392	UTMZ7N WGS84	Colluvium	Grey	Clay		B	100	Moist	Poor	
100669	15/08/2011	ChrisErdman	Montana	594413	7051375	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
100670	15/08/2011	ChrisErdman	Montana	594366	7051355	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	
100671	15/08/2011	ChrisErdman	Montana	594324	7051354	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
100672	15/08/2011	ChrisErdman	Montana	594291	7051323	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
100673	15/08/2011	ChrisErdman	Montana	594249	7051309	UTMZ7N WGS84	Colluvium	Tan	Silt		C	60	Dry	Excellent	
100674	15/08/2011	ChrisErdman	Montana	594191	7051267	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Dry	Good	
100675	15/08/2011	ChrisErdman	Montana	594142	7051248	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
100676	15/08/2011	ChrisErdman	Montana	594085	7051225	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
100677	15/08/2011	ChrisErdman	Montana	594044	7051196	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60	Dry	Excellent	
100678	15/08/2011	ChrisErdman	Montana	593976	7051146	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60	Moist	Good	
100679	15/08/2011	ChrisErdman	Montana	593930	7051124	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	60	Moist	Poor	
100680	15/08/2011	ChrisErdman	Montana	593882	7051085	UTMZ7N WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
101006	03/06/2011	ShawnTaylor	Montana	594411	7054227	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Moist	Excellent	BurnOld
101007	03/06/2011	ShawnTaylor	Montana	594459	7054241	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateS	C	60	Moist	Excellent	ForestMixed
101008	03/06/2011	ShawnTaylor	Montana	594503	7054268	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateS	C	50	Moist	Excellent	BurnOld
101009	03/06/2011	ShawnTaylor	Montana	594549	7054280	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	50	Moist	Excellent	ForestMixed
101010	03/06/2011	ShawnTaylor	Montana	594594	7054322	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	50	Moist	Excellent	ForestMixed
101011	03/06/2011	ShawnTaylor	Montana	594641	7054345	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	40	Moist	Excellent	ForestMixed
101012	03/06/2011	ShawnTaylor	Montana	594677	7054380	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Moist	Excellent	BurnOld
101013	03/06/2011	ShawnTaylor	Montana	594731	7054404	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateN	C	40	Moist	Excellent	ForestMixed
101014	03/06/2011	ShawnTaylor	Montana	594770	7054414	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Moist	Excellent	ForestMixed
101015	03/06/2011	ShawnTaylor	Montana	594830	7054426	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Moist	Excellent	BurnOld
101016	03/06/2011	ShawnTaylor	Montana	594876	7054459	UTMZ7N WGS84	Colluvium	BrownLight	Sand	DrainageSeasonal	C	40	Wet	Excellent	BurnOld
101017	03/06/2011	ShawnTaylor	Montana	594906	7054481	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	40	Moist	Excellent	BurnOld
101018	03/06/2011	ShawnTaylor	Montana	594939	7054513	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	40	Moist	Excellent	BurnOld
101019	03/06/2011	ShawnTaylor	Montana	595072	7054467	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateS	C	40	Moist	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
101020	03/06/2011	ShawnTaylor	Montana	595057	7054409	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	40	Moist	Excellent	ForestMixed
101021	03/06/2011	ShawnTaylor	Montana	595068	7054375	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	60	Moist	Excellent	BurnOld
101022	03/06/2011	ShawnTaylor	Montana	595069	7054313	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	40	Moist	Excellent	BurnOld
101023	03/06/2011	ShawnTaylor	Montana	595059	7054259	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	50	Moist	Excellent	BurnOld
101024	03/06/2011	ShawnTaylor	Montana	595067	7054219	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	40	Moist	Excellent	ForestMixed
101025	03/06/2011	ShawnTaylor	Montana	595070	7054120	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	40	Moist	Excellent	ForestMixed
101026	03/06/2011	ShawnTaylor	Montana	595046	7054062	UTM27N WGS84	Colluvium	Yellow	Sand	ModerateS	C	60	Frozen	Excellent	ForestMixed
101027	03/06/2011	ShawnTaylor	Montana	595060	7054022	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	50	Moist	Excellent	ForestMixed
101028	03/06/2011	ShawnTaylor	Montana	595066	7053973	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	40	Moist	Excellent	ForestMixed
101029	03/06/2011	ShawnTaylor	Montana	595052	7053926	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Moist	Excellent	ForestMixed
101030	03/06/2011	ShawnTaylor	Montana	595051	7053807	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Moist	Excellent	ForestMixed
101031	03/06/2011	ShawnTaylor	Montana	595085	7053722	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	50	Moist	Excellent	ForestMixed
101032	03/06/2011	ShawnTaylor	Montana	595131	7053663	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	50	Moist	Excellent	ForestMixed
101033	03/06/2011	ShawnTaylor	Montana	595144	7053643	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	60	Moist	Excellent	ForestMixed
101034	04/06/2011	ShawnTaylor	Montana	594753	7049336	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Moist	Excellent	ForestMixed
101035	04/06/2011	ShawnTaylor	Montana	594738	7049375	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Moist	Excellent	ForestMixed
101036	04/06/2011	ShawnTaylor	Montana	594710	7049415	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Moist	Excellent	ForestMixed
101037	04/06/2011	ShawnTaylor	Montana	594663	7049456	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Moist	Good	ForestMixed
101038	04/06/2011	ShawnTaylor	Montana	594649	7049491	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	30	Moist	Excellent	ForestMixed
101039	04/06/2011	ShawnTaylor	Montana	594581	7049575	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	50	Moist	Good	ForestMixed
101040	04/06/2011	ShawnTaylor	Montana	594581	7049572	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Moist	Excellent	ForestMixed
101041	04/06/2011	ShawnTaylor	Montana	594555	7049600	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Moist	Excellent	ForestMixed
101042	04/06/2011	ShawnTaylor	Montana	594504	7049642	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	40	Moist	Excellent	ForestMixed
101043	04/06/2011	ShawnTaylor	Montana	594413	7049747	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Moist	Excellent	ForestMixed
101044	04/06/2011	ShawnTaylor	Montana	594359	7049754	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Frozen	Excellent	ForestMixed
101045	04/06/2011	ShawnTaylor	Montana	594315	7049767	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Frozen	Excellent	ForestMixed
101046	04/06/2011	ShawnTaylor	Montana	594272	7049790	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	70	Frozen	Excellent	ForestMixed
101047	04/06/2011	ShawnTaylor	Montana	594210	7049795	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateW	C	50	Moist	Excellent	ForestMixed
101048	04/06/2011	ShawnTaylor	Montana	594110	7049802	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Moist	Excellent	ForestMixed
101049	04/06/2011	ShawnTaylor	Montana	593968	7049858	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Moist	Excellent	ForestMixed
101050	04/06/2011	ShawnTaylor	Montana	593929	7049887	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Moist	Excellent	ForestMixed
101051	05/06/2011	ShawnTaylor	Montana	594817	7049246	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	B	40	Moist	Good	ForestMixed
101052	05/06/2011	ShawnTaylor	Montana	594814	7049209	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	50	Moist	Excellent	ForestMixed
101053	05/06/2011	ShawnTaylor	Montana	594804	7049156	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	45	Moist	Excellent	ForestMixed
101054	05/06/2011	ShawnTaylor	Montana	594768	7049041	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	60	Moist	Excellent	ForestMixed
101055	05/06/2011	ShawnTaylor	Montana	594749	7049010	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Moist	Excellent	ForestMixed
101056	05/06/2011	ShawnTaylor	Montana	594734	7048968	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	50	Moist	Excellent	ForestMixed
101057	05/06/2011	ShawnTaylor	Montana	594732	7048920	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	40	Moist	Excellent	ForestMixed
101058	05/06/2011	ShawnTaylor	Montana	594651	7048621	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	90	Moist	Excellent	ForestMixed
101059	05/06/2011	ShawnTaylor	Montana	594608	7048422	UTM27N WGS84	Colluvium	Brown	Sand	Drainage	C	40	Wet	Excellent	ForestMixed
101060	05/06/2011	ShawnTaylor	Montana	594595	7048385	UTM27N WGS84	Colluvium	Orange	Sand	ModerateE	C	60	Moist	Excellent	ForestMixed
101061	05/06/2011	ShawnTaylor	Montana	594558	7048327	UTM27N WGS84	Colluvium	Orange	Sand	ModerateSW	C	50	Moist	Excellent	ForestMixed
101062	05/06/2011	ShawnTaylor	Montana	594561	7048290	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	50	Moist	Excellent	ForestMixed
101871	11/08/2011	ShawnTaylor	Montana	601164	7048667	UTM27N WGS84	Colluvium	BrownLight	Sand		C	70	Moist	Excellent	ForestMixed
101872	11/08/2011	ShawnTaylor	Montana	601119	7048717	UTM27N WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101873	11/08/2011	ShawnTaylor	Montana	601100	7048772	UTM27N WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101874	11/08/2011	ShawnTaylor	Montana	601081	7048803	UTM27N WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101875	11/08/2011	ShawnTaylor	Montana	601073	7048839	UTM27N WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101876	11/08/2011	ShawnTaylor	Montana	601043	7048894	UTM27N WGS84	Colluvium	BrownLight	Sand		B	60	Moist	Excellent	ForestMixed
101877	11/08/2011	ShawnTaylor	Montana	601028	7048949	UTM27N WGS84	Colluvium	BrownLight	Sand		C	90	Moist	Excellent	ForestMixed
101878	11/08/2011	ShawnTaylor	Montana	601012	7048990	UTM27N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101879	11/08/2011	ShawnTaylor	Montana	600978	7049034	UTM27N WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101880	11/08/2011	ShawnTaylor	Montana	600955	7049072	UTM27N WGS84	Colluvium	Grey	Sand		B	50	Wet	Good	ForestMixed
101881	11/08/2011	ShawnTaylor	Montana	600936	7049116	UTM27N WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101882	11/08/2011	ShawnTaylor	Montana	600925	7049166	UTM27N WGS84	Colluvium	Brown	Sand		B	100	Wet	Good	ForestMixed
101883	11/08/2011	ShawnTaylor	Montana	600887	7049217	UTM27N WGS84	Colluvium	Grey	Sand		B	40	Frozen	Good	ForestMixed
101884	11/08/2011	ShawnTaylor	Montana	600875	7049248	UTM27N WGS84	Colluvium	Grey	Sand		B	40	Frozen	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
101886	11/08/2011	ShawnTaylor	Montana	600825	7049324	UTMZ7N WGS84	Colluvium	Grey	Sand		B	40	Frozen	Good	ForestMixed
101887	11/08/2011	ShawnTaylor	Montana	600799	7049370	UTMZ7N WGS84	Colluvium	Brown	Sand		B	40	Frozen	Good	ForestMixed
101888	11/08/2011	ShawnTaylor	Montana	600786	7049416	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50	Frozen	Good	ForestMixed
101889	11/08/2011	ShawnTaylor	Montana	600891	7049473	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50	Frozen	Good	ForestMixed
101890	11/08/2011	ShawnTaylor	Montana	600906	7049428	UTMZ7N WGS84	Colluvium	Grey	Sand		B	50	Frozen	Good	ForestMixed
101891	11/08/2011	ShawnTaylor	Montana	600917	7049390	UTMZ7N WGS84	Colluvium	Grey	Sand		B	50	Frozen	Good	ForestMixed
101892	11/08/2011	ShawnTaylor	Montana	600932	7049338	UTMZ7N WGS84	Colluvium	Grey	Sand		B	70	Wet	Good	ForestMixed
101893	11/08/2011	ShawnTaylor	Montana	600959	7049293	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60	Moist	Excellent	ForestMixed
101894	11/08/2011	ShawnTaylor	Montana	600963	7049245	UTMZ7N WGS84	Colluvium	Grey	Sand		B	50	Frozen	Good	ForestMixed
101895	11/08/2011	ShawnTaylor	Montana	600997	7049203	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60	Moist	Excellent	ForestMixed
101896	11/08/2011	ShawnTaylor	Montana	601026	7049151	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60	Moist	Good	ForestMixed
101897	11/08/2011	ShawnTaylor	Montana	601045	7049118	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101898	11/08/2011	ShawnTaylor	Montana	601066	7049071	UTMZ7N WGS84	Colluvium	Grey	Sand		C	50	Moist	Excellent	ForestMixed
101899	11/08/2011	ShawnTaylor	Montana	601077	7049022	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101900	11/08/2011	ShawnTaylor	Montana	601100	7048976	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101901	11/08/2011	ShawnTaylor	Montana	601121	7048934	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101902	11/08/2011	ShawnTaylor	Montana	601141	7048880	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101903	11/08/2011	ShawnTaylor	Montana	601169	7048832	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101904	11/08/2011	ShawnTaylor	Montana	601184	7048787	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101905	11/08/2011	ShawnTaylor	Montana	601195	7048734	UTMZ7N WGS84	Colluvium	Brown	Sand		B	80	Moist	Excellent	ForestMixed
101993	14/08/2011	ShawnTaylor	Montana	593875	7050982	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101994	14/08/2011	ShawnTaylor	Montana	593925	7051042	UTMZ7N WGS84	Colluvium	BrownDark	Sand		C	90	Moist	Excellent	ForestMixed
101995	14/08/2011	ShawnTaylor	Montana	593982	7051051	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50	Frozen	Good	ForestMixed
101996	14/08/2011	ShawnTaylor	Montana	594072	7051083	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101997	14/08/2011	ShawnTaylor	Montana	594138	7051112	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101998	14/08/2011	ShawnTaylor	Montana	594169	7051132	UTMZ7N WGS84	Colluvium	Orange	Sand		C	60	Moist	Excellent	ForestMixed
101999	14/08/2011	ShawnTaylor	Montana	594214	7051157	UTMZ7N WGS84	Colluvium	BrownDark	Sand		C	50	Moist	Excellent	ForestMixed
102001	03/06/2011	JBHebsgaard	Montana	594372	7054238	UTMZ7N WGS84	Soil	Black	Silt	Ridge	C	40	Dry	Excellent	BurnOld
102002	03/06/2011	JBHebsgaard	Montana	594316	7054246	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateSE	C	80	Moist	Excellent	BurnOld
102003	03/06/2011	JBHebsgaard	Montana	594262	7054228	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Excellent	BurnOld
102004	03/06/2011	JBHebsgaard	Montana	594229	7054225	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateSE	C	90	Moist	Excellent	BurnOld
102005	03/06/2011	JBHebsgaard	Montana	594165	7054230	UTMZ7N WGS84	Soil	Green	Sand	Flat	C	90	Moist	Excellent	BurnOld
102006	03/06/2011	JBHebsgaard	Montana	594109	7054246	UTMZ7N WGS84	Soil	Green	Sand	Ridge	C	50	Dry	Excellent	BurnOld
102007	03/06/2011	JBHebsgaard	Montana	594093	7054293	UTMZ7N WGS84	Lithosoil	Green	Sand	Ridge	C	40	Dry	Excellent	BurnOld
102008	03/06/2011	JBHebsgaard	Montana	594015	7054222	UTMZ7N WGS84	Soil	Green	Sand	Flat	C	40	Dry	Excellent	BurnOld
102009	03/06/2011	JBHebsgaard	Montana	594358	7054297	UTMZ7N WGS84	Alluvium	BrownLight	Gravel	Flat	C	80	Moist	Excellent	BurnOld
102010	03/06/2011	JBHebsgaard	Montana	594340	7054347	UTMZ7N WGS84	Lacustrian	Brown	Sand	Flat	C	80	Dry	Excellent	BurnOld
102011	03/06/2011	JBHebsgaard	Montana	594320	7054444	UTMZ7N WGS84	Alluvium	Green	Sand	ModerateNE	C	40	Dry	Excellent	BurnOld
102012	03/06/2011	JBHebsgaard	Montana	594289	7054522	UTMZ7N WGS84	Soil	Green	Sand	ModerateNE	C	70	Dry	Excellent	BurnOld
102013	03/06/2011	JBHebsgaard	Montana	594240	7054600	UTMZ7N WGS84	Soil	Green	Sand	ModerateNE	C	70	Dry	Excellent	BurnOld
102014	03/06/2011	JBHebsgaard	Montana	594224	7054666	UTMZ7N WGS84	Soil	Green	Sand	ModerateNE	C	60	Dry	Excellent	ForestBlackSpruce
102015	03/06/2011	JBHebsgaard	Montana	594221	7054667	UTMZ7N WGS84	Soil	Green	Sand	ModerateNE	C	60	Dry	Excellent	ForestBlackSpruce
102016	03/06/2011	JBHebsgaard	Montana	594210	7054747	UTMZ7N WGS84	Soil	Green	Sand	ModerateNE	C	80	Dry	Excellent	BurnOld
102017	03/06/2011	JBHebsgaard	Montana	594210	7054814	UTMZ7N WGS84	Soil	Green	Sand	Flat	C	40	Dry	Excellent	BurnOld
102018	03/06/2011	JBHebsgaard	Montana	594211	7054903	UTMZ7N WGS84	Soil	Brown	Gravel	Flat	C	80	Wet	Excellent	ForestBlackSpruce
102019	03/06/2011	JBHebsgaard	Montana	594182	7054947	UTMZ7N WGS84	Soil	Green	Sand	Ridge	C	80	Dry	Excellent	ForestBlackSpruce
102020	03/06/2011	JBHebsgaard	Montana	594125	7054992	UTMZ7N WGS84	Regolith	Green	Clay	Ridge	C	120	Moist	Excellent	ForestMixed
102021	03/06/2011	JBHebsgaard	Montana	594118	7055044	UTMZ7N WGS84	Soil	Green	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
102023	04/06/2011	JBHebsgaard	Montana	593926	7051801	UTMZ7N WGS84	Colluvium	BrownDark	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
102024	04/06/2011	JBHebsgaard	Montana	593974	7051830	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateNE	C	70	Dry	Excellent	BurnOld
102025	04/06/2011	JBHebsgaard	Montana	594026	7051860	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	70	Dry	Excellent	BurnOld
102026	04/06/2011	JBHebsgaard	Montana	594057	7051911	UTMZ7N WGS84	Colluvium	BrownDark	Sand	ModerateNE	B	40	Dry	Excellent	BurnNew
102027	04/06/2011	JBHebsgaard	Montana	594106	7051944	UTMZ7N WGS84	Colluvium	BrownDark	Sand	ModerateNE	C	60	Dry	Excellent	BurnNew
102028	04/06/2011	JBHebsgaard	Montana	594137	7051993	UTMZ7N WGS84	Colluvium	Tan	Silt	ModerateNE	C	50	Dry	Excellent	BurnNew
102029	04/06/2011	JBHebsgaard	Montana	594226	7052032	UTMZ7N WGS84	Lithosoil	Tan	Sand	Ridge	C	20	Dry	Excellent	BurnNew
102030	04/06/2011	JBHebsgaard	Montana	594278	7052047	UTMZ7N WGS84	Lithosoil	Brown	Sand	Ridge	C	30	Dry	Excellent	BurnNew
102031	04/06/2011	JBHebsgaard	Montana	594326	7052060	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	50	Dry	Excellent	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
102032	04/06/2011	JBHebsgaard	Montana	594370	7052098	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateNE	C	50	Dry	Excellent	BurnOld
102033	04/06/2011	JBHebsgaard	Montana	594412	7052113	UTMZ7N WGS84	Colluvium	BrownDark	Sand	ModerateE	C	50	Dry	Excellent	BurnOld
102034	04/06/2011	JBHebsgaard	Montana	594464	7052102	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
102035	04/06/2011	JBHebsgaard	Montana	594510	7052125	UTMZ7N WGS84	Colluvium	BrownDark	Sand	ModerateNE	C	80	Dry	Excellent	BurnOld
102036	04/06/2011	JBHebsgaard	Montana	594569	7052169	UTMZ7N WGS84	Colluvium	Green	Sand	Ridge	C	60	Dry	Excellent	BurnOld
102037	04/06/2011	JBHebsgaard	Montana	594633	7052181	UTMZ7N WGS84	Lithosoil	BrownDark	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
102038	04/06/2011	JBHebsgaard	Montana	594694	7052188	UTMZ7N WGS84	Soil	Brown	Sand	ModerateNE	B	110	Frozen	Good	BurnOld
102039	04/06/2011	JBHebsgaard	Montana	594764	7052213	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	40	Dry	Excellent	BurnOld
102040	04/06/2011	JBHebsgaard	Montana	594763	7052213	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	40	Dry	Excellent	BurnOld
102041	04/06/2011	JBHebsgaard	Montana	594830	7052224	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	90	Dry	Excellent	BurnOld
102042	04/06/2011	JBHebsgaard	Montana	594872	7052264	UTMZ7N WGS84	Soil	Brown	Clay	Ridge	C	60	Moist	Good	BurnOld
102043	04/06/2011	JBHebsgaard	Montana	594946	7052292	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	30	Dry	Excellent	BurnOld
102044	04/06/2011	JBHebsgaard	Montana	594993	7052320	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateNE	C	70	Moist	Excellent	BurnOld
102045	04/06/2011	JBHebsgaard	Montana	595032	7052341	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateNE	C	70	Dry	Excellent	BurnOld
102046	04/06/2011	JBHebsgaard	Montana	595075	7052351	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
102047	04/06/2011	JBHebsgaard	Montana	595141	7052360	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Excellent	BurnOld
102048	05/06/2011	JBHebsgaard	Montana	597106	7050471	UTMZ7N WGS84	Lithosoil	Brown	Silt	Flat	C	40	Moist	Excellent	BurnOld
102049	05/06/2011	JBHebsgaard	Montana	597060	7050499	UTMZ7N WGS84	Lithosoil	Brown	Sand	Flat	C	60	Dry	Excellent	BurnOld
102050	05/06/2011	JBHebsgaard	Montana	597011	7050547	UTMZ7N WGS84	Lithosoil	BrownLight	Sand	Flat	C	70	Dry	Excellent	ForestBlackSpruce
102051	05/06/2011	JBHebsgaard	Montana	596993	7050605	UTMZ7N WGS84	Lithosoil	Brown	Gravel	Flat	C	60	Moist	Good	BurnOld
102052	05/06/2011	JBHebsgaard	Montana	596957	7050650	UTMZ7N WGS84	Colluvium	Brown	Gravel	Flat	B	60	Dry	Good	BurnOld
102053	05/06/2011	JBHebsgaard	Montana	596953	7050692	UTMZ7N WGS84	Soil	Green	Sand	ModerateN	B	80	Moist	Excellent	BurnOld
102054	05/06/2011	JBHebsgaard	Montana	596919	7050786	UTMZ7N WGS84	Lacustrian	Brown	Clay	Flat	C	70	Frozen	Good	BurnOld
102055	05/06/2011	JBHebsgaard	Montana	596915	7050846	UTMZ7N WGS84	Lacustrian	Green	Silt	Flat	C	80	Frozen	Good	BurnOld
102056	05/06/2011	JBHebsgaard	Montana	596902	7050876	UTMZ7N WGS84	Soil	RustyOrange	Silt	Flat	C	100	Dry	Excellent	BurnOld
102057	05/06/2011	JBHebsgaard	Montana	596900	7050946	UTMZ7N WGS84	Soil	RustyOrange	Silt	Flat	C	80	Dry	Good	BurnOld
102058	05/06/2011	JBHebsgaard	Montana	596848	7051003	UTMZ7N WGS84	Soil	Brown	Silt	Flat	C	70	Dry	Good	BurnOld
102059	05/06/2011	JBHebsgaard	Montana	596815	7051081	UTMZ7N WGS84	Soil	Orange	Clay	Flat	C	60	Frozen	Good	BurnOld
102060	05/06/2011	JBHebsgaard	Montana	596780	7051163	UTMZ7N WGS84	Soil	Tan	Silt	Flat	C	60	Dry	Excellent	BurnOld
102061	05/06/2011	JBHebsgaard	Montana	596764	7051220	UTMZ7N WGS84	Soil	Tan	Gravel	Flat	C	110	Dry	Good	BurnOld
102064	06/06/2011	JBHebsgaard	Montana	598794	7051654	UTMZ7N WGS84	Soil	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
102065	06/06/2011	JBHebsgaard	Montana	598799	7051591	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	80	Dry	Excellent	BurnOld
102066	06/06/2011	JBHebsgaard	Montana	598816	7051529	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	80	Dry	Excellent	BurnOld
102067	06/06/2011	JBHebsgaard	Montana	598838	7051465	UTMZ7N WGS84	Soil	Grey	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
102068	06/06/2011	JBHebsgaard	Montana	598901	7051417	UTMZ7N WGS84	Soil	Grey	Silt	ModerateS	C	90	Dry	Excellent	BurnOld
102069	06/06/2011	JBHebsgaard	Montana	598920	7051372	UTMZ7N WGS84	Soil	Grey	Silt	ModerateS	C	80	Dry	Excellent	BurnOld
102070	06/06/2011	JBHebsgaard	Montana	598953	7051317	UTMZ7N WGS84	Soil	Green	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
102071	06/06/2011	JBHebsgaard	Montana	598970	7051265	UTMZ7N WGS84	Soil	Tan	Silt	Flat	C	80	Dry	Excellent	BurnOld
102072	06/06/2011	JBHebsgaard	Montana	598972	7051212	UTMZ7N WGS84	Soil	BrownLight	Silt	Flat	C	70	Dry	Excellent	BurnOld
102073	06/06/2011	JBHebsgaard	Montana	599009	7051191	UTMZ7N WGS84	Soil	Grey	Silt	ModerateS	C	80	Dry	Excellent	BurnOld
102074	06/06/2011	JBHebsgaard	Montana	599041	7051152	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	100	Dry	Excellent	BurnOld
102075	06/06/2011	JBHebsgaard	Montana	599091	7051154	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	60	Dry	Excellent	BurnOld
102076	06/06/2011	JBHebsgaard	Montana	599123	7051106	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	90	Moist	Excellent	BurnOld
102077	06/06/2011	JBHebsgaard	Montana	599171	7051075	UTMZ7N WGS84	Soil	Brown	Sand	Flat	C	80	Dry	Excellent	BurnOld
102078	06/06/2011	JBHebsgaard	Montana	599219	7051084	UTMZ7N WGS84	Soil	Brown	Sand	Flat	C	70	Dry	Excellent	BurnOld
102079	06/06/2011	JBHebsgaard	Montana	599267	7051054	UTMZ7N WGS84	Soil	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
102080	06/06/2011	JBHebsgaard	Montana	599314	7051016	UTMZ7N WGS84	Soil	Brown	Clay	Flat	C	120	Frozen	Excellent	BurnOld
102081	06/06/2011	JBHebsgaard	Montana	599368	7051015	UTMZ7N WGS84	Soil	Brown	Sand	Flat	C	60	Dry	Excellent	BurnOld
102082	06/06/2011	JBHebsgaard	Montana	599410	7050988	UTMZ7N WGS84	Soil	BrownLight	Silt	Flat	C	60	Moist	Excellent	BurnOld
102083	06/06/2011	JBHebsgaard	Montana	599468	7050954	UTMZ7N WGS84	Soil	BrownLight	Sand	Ridge	C	40	Dry	Excellent	BurnOld
102084	06/06/2011	JBHebsgaard	Montana	599529	7050947	UTMZ7N WGS84	Soil	RustyOrange	Sand	Ridge	C	40	Dry	Excellent	BurnOld
102085	06/06/2011	JBHebsgaard	Montana	599574	7050940	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	80	Dry	Excellent	BurnOld
102086	06/06/2011	JBHebsgaard	Montana	599618	7050980	UTMZ7N WGS84	Colluvium	Grey	Silt	Flat	C	120	Dry	Excellent	BurnOld
102087	06/06/2011	JBHebsgaard	Montana	599666	7050987	UTMZ7N WGS84	Soil	Green	Silt	Flat	C	120	Dry	Excellent	BurnOld
102088	06/06/2011	JBHebsgaard	Montana	599709	7051002	UTMZ7N WGS84	Soil	Brown	Sand	Flat	C	70	Dry	Excellent	BurnOld
102089	06/06/2011	JBHebsgaard	Montana	599751	7051037	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	70	Dry	Excellent	BurnOld
102090	06/06/2011	JBHebsgaard	Montana	599750	7051037	UTMZ7N WGS84	Soil	Grey	Sand	Flat	C	70	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
102091	06/06/2011	JBHebsgaard	Montana	599783	7051046	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	50	Dry	Excellent	BurnOld
102092	06/06/2011	JBHebsgaard	Montana	599843	7051089	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Moist	Good	BurnOld
102093	06/06/2011	JBHebsgaard	Montana	599905	7051111	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	80	Wet	Excellent	BurnOld
102094	06/06/2011	JBHebsgaard	Montana	599963	7051138	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Moist	Excellent	BurnOld
102095	06/06/2011	JBHebsgaard	Montana	600003	7051161	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Wet	Poor	BurnOld
102781	05/08/2011	JBHebsgaard	Montana	599041	7052255	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Dry	Excellent	BurnOld
102782	05/08/2011	JBHebsgaard	Montana	598999	7052241	UTM27N WGS84	Colluvium	RustyOrange	Clay	Flat	B	110	Dry	Good	BurnOld
102783	05/08/2011	JBHebsgaard	Montana	598956	7052211	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	60	Dry	Excellent	BurnOld
102784	05/08/2011	JBHebsgaard	Montana	598912	7052186	UTM27N WGS84	Colluvium	BrownDark	Silt	Flat	C	40	Dry	Excellent	BurnOld
102785	05/08/2011	JBHebsgaard	Montana	598865	7052167	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld
102786	05/08/2011	JBHebsgaard	Montana	598818	7052140	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	BurnOld
102787	05/08/2011	JBHebsgaard	Montana	598779	7052115	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
102788	05/08/2011	JBHebsgaard	Montana	598730	7052088	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	60	Dry	Excellent	BurnOld
102789	05/08/2011	JBHebsgaard	Montana	598689	7052069	UTM27N WGS84	Soil	Brown	Silt	Flat	B	40	Dry	Good	BurnOld
102791	05/08/2011	JBHebsgaard	Montana	598647	7052037	UTM27N WGS84	Soil	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld
102792	05/08/2011	JBHebsgaard	Montana	598602	7052021	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld
102793	05/08/2011	JBHebsgaard	Montana	598515	7051971	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld
102794	05/08/2011	JBHebsgaard	Montana	598476	7051946	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	BurnOld
102795	05/08/2011	JBHebsgaard	Montana	598426	7051924	UTM27N WGS84	Colluvium	Grey	Silt	Flat	C	50	Dry	Excellent	BurnOld
102796	05/08/2011	JBHebsgaard	Montana	598386	7051906	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Dry	Good	BurnOld
102797	05/08/2011	JBHebsgaard	Montana	598333	7051877	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	80	Dry	Good	BurnOld
102798	05/08/2011	JBHebsgaard	Montana	598291	7051847	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	70	Dry	Excellent	BurnOld
102799	05/08/2011	JBHebsgaard	Montana	598258	7051948	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	BurnOld
102800	05/08/2011	JBHebsgaard	Montana	598293	7051974	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Dry	Excellent	BurnOld
102801	05/08/2011	JBHebsgaard	Montana	598336	7051992	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
102802	05/08/2011	JBHebsgaard	Montana	598389	7052018	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	BurnOld
102803	05/08/2011	JBHebsgaard	Montana	598429	7052041	UTM27N WGS84	Colluvium	Orange	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102804	05/08/2011	JBHebsgaard	Montana	598471	7052066	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	70	Dry	Excellent	BurnOld
102805	05/08/2011	JBHebsgaard	Montana	598521	7052089	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
102806	05/08/2011	JBHebsgaard	Montana	598557	7052113	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
102807	05/08/2011	JBHebsgaard	Montana	598601	7052136	UTM27N WGS84	Colluvium	BrownDark	Silt	Flat	C	60	Dry	Excellent	BurnOld
102808	05/08/2011	JBHebsgaard	Montana	598648	7052161	UTM27N WGS84	Soil	Brown	Clay	Flat	B	60	Dry	Good	BurnOld
102809	05/08/2011	JBHebsgaard	Montana	598691	7052185	UTM27N WGS84	Soil	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld
102810	05/08/2011	JBHebsgaard	Montana	598739	7052207	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
102811	05/08/2011	JBHebsgaard	Montana	598782	7052242	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	50	Dry	Excellent	BurnOld
102812	05/08/2011	JBHebsgaard	Montana	598824	7052251	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Excellent	BurnOld
102813	05/08/2011	JBHebsgaard	Montana	598872	7052280	UTM27N WGS84	Colluvium	RustyOrange	Sand	Flat	C	110	Dry	Excellent	BurnOld
102814	05/08/2011	JBHebsgaard	Montana	598914	7052302	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateNE	B	40	Dry	Good	BurnOld
102815	05/08/2011	JBHebsgaard	Montana	598966	7052321	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	30	Dry	Good	BurnOld
102816	05/08/2011	JBHebsgaard	Montana	599003	7052351	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	30	Dry	Good	BurnOld
102817	07/08/2011	JBHebsgaard	Montana	598761	7052787	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	30	Dry	Poor	BurnOld
102818	07/08/2011	JBHebsgaard	Montana	598712	7052754	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	40	Moist	Poor	BurnOld
102819	07/08/2011	JBHebsgaard	Montana	598670	7052731	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	30	Moist	Poor	BurnOld
102820	07/08/2011	JBHebsgaard	Montana	598627	7052708	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	60	Moist	Good	BurnOld
102821	07/08/2011	JBHebsgaard	Montana	598498	7052643	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Dry	Good	BurnOld
102822	07/08/2011	JBHebsgaard	Montana	598451	7052623	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Dry	Good	BurnOld
102823	07/08/2011	JBHebsgaard	Montana	598414	7052599	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	60	Dry	Good	BurnOld
102824	07/08/2011	JBHebsgaard	Montana	598367	7052573	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Dry	Good	BurnOld
102825	07/08/2011	JBHebsgaard	Montana	598322	7052547	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
102826	07/08/2011	JBHebsgaard	Montana	598272	7052524	UTM27N WGS84	Colluvium	BrownLight	Silt	DrainageSeasonal	C	50	Dry	Excellent	BurnOld
102827	07/08/2011	JBHebsgaard	Montana	598238	7052496	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	BurnOld
102828	07/08/2011	JBHebsgaard	Montana	598184	7052471	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
102829	07/08/2011	JBHebsgaard	Montana	598140	7052454	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
102830	07/08/2011	JBHebsgaard	Montana	598101	7052430	UTM27N WGS84	Lithosoil	Brown	Clay	Flat	B	60	Dry	Good	BurnOld
102831	07/08/2011	JBHebsgaard	Montana	598058	7052410	UTM27N WGS84	Lithosoil	Grey	Silt	Flat	C	40	Dry	Excellent	BurnOld
102832	07/08/2011	JBHebsgaard	Montana	598013	7052380	UTM27N WGS84	Lithosoil	Green	Silt	Flat	C	60	Dry	Excellent	BurnOld
102833	07/08/2011	JBHebsgaard	Montana	597972	7052357	UTM27N WGS84	Lithosoil	Orange	Silt	Flat	C	60	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
102834	07/08/2011	JBHebsgaard	Montana	597929	7052340	UTMZ7N WGS84	Lithosoil	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
102835	07/08/2011	JBHebsgaard	Montana	597878	7052308	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	30	Dry	Excellent	BurnOld
102836	07/08/2011	JBHebsgaard	Montana	597828	7052287	UTMZ7N WGS84	Colluvium	BrownDark	Silt	Flat	C	80	Dry	Good	BurnOld
102837	07/08/2011	JBHebsgaard	Montana	597783	7052266	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Excellent	ForestMixed
102838	07/08/2011	JBHebsgaard	Montana	597738	7052234	UTMZ7N WGS84	Colluvium	BrownDark	Silt	Flat	C	60	Dry	Excellent	ForestMixed
102839	07/08/2011	JBHebsgaard	Montana	597696	7052214	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestMixed
102841	07/08/2011	JBHebsgaard	Montana	597660	7052191	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	ForestMixed
102842	07/08/2011	JBHebsgaard	Montana	597612	7052170	UTMZ7N WGS84	Colluvium	Brown	Silt	SteepW	C	40	Dry	Excellent	ForestMixed
102843	07/08/2011	JBHebsgaard	Montana	597578	7052143	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateW	C	80	Dry	Excellent	ForestMixed
102844	07/08/2011	JBHebsgaard	Montana	597526	7052118	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	ForestMixed
102845	07/08/2011	JBHebsgaard	Montana	597494	7052101	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	ForestMixed
102846	07/08/2011	JBHebsgaard	Montana	597441	7052073	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Dry	Good	ForestMixed
102847	07/08/2011	JBHebsgaard	Montana	597397	7052055	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	40	Dry	Excellent	ForestMixed
102848	07/08/2011	JBHebsgaard	Montana	597355	7052035	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestMixed
102849	07/08/2011	JBHebsgaard	Montana	597317	7052005	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestBlackSpruce
102850	07/08/2011	JBHebsgaard	Montana	597275	7051977	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	100	Dry	Excellent	ForestBlackSpruce
102851	07/08/2011	JBHebsgaard	Montana	597226	7051941	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateW	B	100	Dry	Good	ForestBlackSpruce
102852	08/08/2011	JBHebsgaard	Montana	599751	7050938	UTMZ7N WGS84	Soil	BrownDark	Silt	Flat	C	70	Dry	Excellent	BurnOld
102853	08/08/2011	JBHebsgaard	Montana	599712	7050904	UTMZ7N WGS84	Soil		Silt	Flat	C	70	Dry	Excellent	BurnOld
102854	08/08/2011	JBHebsgaard	Montana	599666	7050889	UTMZ7N WGS84	Soil	Orange	Sand	Flat	C	50	Dry	Excellent	BurnOld
102855	08/08/2011	JBHebsgaard	Montana	599625	7050866	UTMZ7N WGS84	Soil	White	Sand	Flat	C	40	Dry	Excellent	BurnOld
102856	08/08/2011	JBHebsgaard	Montana	599576	7050834	UTMZ7N WGS84	Colluvium	RustyRed	Sand	Flat	C	40	Dry	Excellent	BurnOld
102857	08/08/2011	JBHebsgaard	Montana	599534	7050812	UTMZ7N WGS84	Colluvium	RustyRed	Sand	Flat	C	30	Dry	Good	BurnOld
102858	08/08/2011	JBHebsgaard	Montana	599480	7050792	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	70	Dry	Excellent	BurnOld
102859	08/08/2011	JBHebsgaard	Montana	599437	7050764	UTMZ7N WGS84	Colluvium	Brown	Clay	Flat	B	100	Dry	Good	BurnOld
102860	08/08/2011	JBHebsgaard	Montana	599399	7050743	UTMZ7N WGS84	Colluvium	Brown	Clay	Flat	B	50	Dry	Poor	BurnOld
102861	08/08/2011	JBHebsgaard	Montana	599316	7050699	UTMZ7N WGS84	OrganicHumus	BrownDark	Clay	Flat	B	100	Dry	Poor	BurnOld
102862	08/08/2011	JBHebsgaard	Montana	599216	7050642	UTMZ7N WGS84	OrganicHumus	BrownDark	Clay	Flat	B	100	Moist	Poor	BurnOld
102863	08/08/2011	JBHebsgaard	Montana	599141	7050602	UTMZ7N WGS84	OrganicHumus	Black	Clay	Drainage	B	80	Wet	Good	BurnOld
102864	08/08/2011	JBHebsgaard	Montana	599097	7050470	UTMZ7N WGS84	OrganicHumus	BrownDark	Clay	Drainage	B	100	Moist	Poor	BurnOld
102865	08/08/2011	JBHebsgaard	Montana	599142	7050491	UTMZ7N WGS84	OrganicHumus	BrownDark	Clay	Drainage	B	80	Frozen	Poor	BurnOld
102866	08/08/2011	JBHebsgaard	Montana	599192	7050515	UTMZ7N WGS84	OrganicHumus	BrownDark	Clay	Drainage	B	100	Moist	Poor	BurnOld
102867	08/08/2011	JBHebsgaard	Montana	599241	7050529	UTMZ7N WGS84	OrganicHumus	BrownDark	Clay	Drainage	B	80	Moist	Poor	BurnOld
102868	08/08/2011	JBHebsgaard	Montana	599458	7050659	UTMZ7N WGS84	OrganicHumus	Grey	Clay	Flat	B	80	Dry	Poor	BurnOld
102869	08/08/2011	JBHebsgaard	Montana	599506	7050686	UTMZ7N WGS84	OrganicHumus	Grey	Clay	Flat	B	60	Dry	Poor	BurnOld
102870	08/08/2011	JBHebsgaard	Montana	599554	7050714	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	70	Dry	Excellent	BurnOld
102871	08/08/2011	JBHebsgaard	Montana	599625	7050746	UTMZ7N WGS84	Soil	Brown	Clay	Flat	B	80	Dry	Poor	BurnOld
102872	08/08/2011	JBHebsgaard	Montana	599670	7050785	UTMZ7N WGS84	Soil	Grey	Silt	Flat	C	80	Dry	Good	BurnOld
102873	08/08/2011	JBHebsgaard	Montana	599718	7050803	UTMZ7N WGS84	Soil	Tan	Sand	Flat	C	60	Dry	Good	BurnOld
102874	08/08/2011	JBHebsgaard	Montana	599757	7050838	UTMZ7N WGS84	Soil	BrownDark	Silt	Flat	C	50	Dry	Excellent	BurnOld
102875	08/08/2011	JBHebsgaard	Montana	599790	7050848	UTMZ7N WGS84	Soil	BrownDark	Silt	Flat	C	60	Dry	Excellent	BurnOld
102902	10/08/2011	JBHebsgaard	Montana	596295	7048905	UTMZ7N WGS84	Colluvium	Brown	Gravel	ModerateW	C	40	Dry	Good	ForestMixed
102903	10/08/2011	JBHebsgaard	Montana	596340	7048937	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Good	ForestMixed
102904	10/08/2011	JBHebsgaard	Montana	596374	7048962	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Good	ForestMixed
102905	10/08/2011	JBHebsgaard	Montana	596424	7048994	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Dry	Good	ForestMixed
102906	10/08/2011	JBHebsgaard	Montana	596469	7049014	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	20	Dry	Good	ForestMixed
102907	10/08/2011	JBHebsgaard	Montana	596506	7049031	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Excellent	ForestMixed
102908	10/08/2011	JBHebsgaard	Montana	596552	7049064	UTMZ7N WGS84	Colluvium	Green	Silt	Flat	C	30	Dry	Excellent	ForestMixed
102909	10/08/2011	JBHebsgaard	Montana	596595	7049087	UTMZ7N WGS84	Soil	Green	Silt	Flat	C	80	Dry	Excellent	ForestMixed
102910	10/08/2011	JBHebsgaard	Montana	596638	7049109	UTMZ7N WGS84	Soil	Orange	Silt	Flat	C	50	Dry	Excellent	ForestMixed
102911	10/08/2011	JBHebsgaard	Montana	596688	7049135	UTMZ7N WGS84	OrganicHumus	Brown	Clay	Flat	B	80	Dry	Poor	ForestBlackSpruce
102912	10/08/2011	JBHebsgaard	Montana	596910	7049250	UTMZ7N WGS84	Soil	Tan	Clay	Flat	B	40	Dry	Poor	ForestBlackSpruce
102913	10/08/2011	JBHebsgaard	Montana	596997	7049303	UTMZ7N WGS84	OrganicHumus	White	Sand	Flat	B	40	Moist	Poor	ForestBlackSpruce
102914	10/08/2011	JBHebsgaard	Montana	597039	7049331	UTMZ7N WGS84	OrganicHumus	Tan	Clay	Flat	B	80	Moist	Poor	ForestMixed
102915	10/08/2011	JBHebsgaard	Montana	596994	7049412	UTMZ7N WGS84	OrganicHumus	Tan	Clay	Flat	B	80	Moist	Poor	ForestBlackSpruce
102916	10/08/2011	JBHebsgaard	Montana	596675	7049248	UTMZ7N WGS84	Glacial	Brown	Sand	Flat	B	30	Dry	Good	ForestMixed
102917	10/08/2011	JBHebsgaard	Montana	596631	7049217	UTMZ7N WGS84	Glacial	White	Sand	Flat	B	80	Dry	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
102918	10/08/2011	JBHebsgaard	Montana	596546	7049178	UTM27N WGS84	Soil	BrownDark	Silt	Flat	B	110	Dry	Good	ForestBlackSpruce
102919	10/08/2011	JBHebsgaard	Montana	596505	7049150	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	80	Dry	Excellent	ForestMixed
102920	10/08/2011	JBHebsgaard	Montana	596467	7049122	UTM27N WGS84	Colluvium	Orange	Sand	ModerateNW	C	80	Dry	Excellent	ForestMixed
102921	10/08/2011	JBHebsgaard	Montana	596413	7049104	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Dry	Excellent	ForestMixed
102922	10/08/2011	JBHebsgaard	Montana	596377	7049077	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	60	Dry	Excellent	ForestMixed
102923	10/08/2011	JBHebsgaard	Montana	596325	7049052	UTM27N WGS84	Colluvium	Green	Silt	ModerateW	C	60	Dry	Excellent	ForestBirch
102924	10/08/2011	JBHebsgaard	Montana	596279	7049041	UTM27N WGS84	Colluvium	Green	Silt	ModerateW	C	40	Dry	Excellent	ForestMixed
102925	10/08/2011	JBHebsgaard	Montana	596228	7049008	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	ForestMixed
102926	11/08/2011	JBHebsgaard	Montana	599983	7055107	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	40	Dry	Good	BurnOld
102927	11/08/2011	JBHebsgaard	Montana	599931	7055104	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	40	Dry	Good	BurnOld
102928	11/08/2011	JBHebsgaard	Montana	599871	7055108	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	50	Dry	Good	BurnOld
102929	11/08/2011	JBHebsgaard	Montana	599834	7055103	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	50	Dry	Good	BurnOld
102930	11/08/2011	JBHebsgaard	Montana	599785	7055102	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	80		Excellent	BurnOld
102931	11/08/2011	JBHebsgaard	Montana	599729	7055104	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
102932	11/08/2011	JBHebsgaard	Montana	599683	7055101	UTM27N WGS84	Colluvium	Green	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102933	11/08/2011	JBHebsgaard	Montana	599633	7055093	UTM27N WGS84	Colluvium	Green	Silt	ModerateW	C	70	Dry	Excellent	BurnOld
102934	11/08/2011	JBHebsgaard	Montana	599578	7055103	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102935	11/08/2011	JBHebsgaard	Montana	599536	7055095	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102936	11/08/2011	JBHebsgaard	Montana	599488	7055103	UTM27N WGS84	Colluvium	Blue	Silt	ModerateW	C	80	Dry	Excellent	BurnOld
102937	11/08/2011	JBHebsgaard	Montana	599435	7055095	UTM27N WGS84	Colluvium	Blue	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102938	11/08/2011	JBHebsgaard	Montana	599387	7055108	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102939	11/08/2011	JBHebsgaard	Montana	599339	7055103	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102940	11/08/2011	JBHebsgaard	Montana	599282	7055102	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102942	11/08/2011	JBHebsgaard	Montana	599232	7055106	UTM27N WGS84	Colluvium	Blue	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102943	11/08/2011	JBHebsgaard	Montana	599185	7055099	UTM27N WGS84	Colluvium	Blue	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102944	11/08/2011	JBHebsgaard	Montana	599187	7055202	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102945	11/08/2011	JBHebsgaard	Montana	599231	7055207	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102946	11/08/2011	JBHebsgaard	Montana	599285	7055201	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102947	11/08/2011	JBHebsgaard	Montana	599334	7055205	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102948	11/08/2011	JBHebsgaard	Montana	599384	7055214	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102949	11/08/2011	JBHebsgaard	Montana	599430	7055200	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102950	11/08/2011	JBHebsgaard	Montana	599484	7055201	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102951	11/08/2011	JBHebsgaard	Montana	599540	7055205	UTM27N WGS84	Colluvium	Blue	Silt	Flat	C	60	Dry	Excellent	BurnOld
102952	11/08/2011	JBHebsgaard	Montana	599589	7055200	UTM27N WGS84	Colluvium	Blue	Silt	Flat	C	70	Dry	Excellent	BurnOld
102953	11/08/2011	JBHebsgaard	Montana	599641	7055204	UTM27N WGS84	Colluvium	Blue	Silt	ModerateW	C	70	Dry	Excellent	BurnOld
102954	11/08/2011	JBHebsgaard	Montana	599691	7055222	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
102955	11/08/2011	JBHebsgaard	Montana	599734	7055211	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
102956	11/08/2011	JBHebsgaard	Montana	599789	7055198	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	100	Dry	Excellent	BurnOld
102957	11/08/2011	JBHebsgaard	Montana	599837	7055208	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	40		Good	BurnOld
102958	11/08/2011	JBHebsgaard	Montana	599878	7055204	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateW	C	50	Dry	Good	BurnOld
102959	11/08/2011	JBHebsgaard	Montana	599935	7055202	UTM27N WGS84	Colluvium	Orange	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
102960	11/08/2011	JBHebsgaard	Montana	599988	7055202	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Dry	Good	BurnOld
103001	03/06/2011	ChrisErdman	Montana	595187	7053542	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	70	Dry	Excellent	BurnOld
103002	03/06/2011	ChrisErdman	Montana	595220	7053514	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Excellent	BurnOld
103003	03/06/2011	ChrisErdman	Montana	595259	7053484	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	50	Dry	Excellent	BurnOld
103004	03/06/2011	ChrisErdman	Montana	595292	7053441	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnOld
103005	03/06/2011	ChrisErdman	Montana	595330	7053400	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnOld
103006	03/06/2011	ChrisErdman	Montana	595355	7053371	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnOld
103007	03/06/2011	ChrisErdman	Montana	595387	7053333	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	50	Dry	Excellent	BurnOld
103008	03/06/2011	ChrisErdman	Montana	595439	7053300	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	20	Dry	Poor	BurnOld
103009	03/06/2011	ChrisErdman	Montana	595458	7053258	UTM27N WGS84	Colluvium	Tan	Silt	ModerateSE	C	40	Dry	Excellent	BurnOld
103010	03/06/2011	ChrisErdman	Montana	595499	7053225	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	50	Dry	Excellent	BurnOld
103011	03/06/2011	ChrisErdman	Montana	595528	7053185	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Excellent	BurnOld
103012	03/06/2011	ChrisErdman	Montana	595568	7053150	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	30	Dry	Good	BurnOld
103013	03/06/2011	ChrisErdman	Montana	595600	7053120	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
103014	03/06/2011	ChrisErdman	Montana	595626	7053075	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Excellent	ForestMixed
103015	03/06/2011	ChrisErdman	Montana	595627	7053076	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Excellent	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103016	03/06/2011	ChrisErdman	Montana	595673	7053047	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	40	Dry	Excellent	ForestMixed
103017	03/06/2011	ChrisErdman	Montana	595702	7053017	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	80	Dry	Excellent	ForestMixed
103018	03/06/2011	ChrisErdman	Montana	595744	7052981	UTM27N WGS84	Colluvium	Brown	Silt	SteepSE	C	50	Dry	Excellent	BurnOld
103019	03/06/2011	ChrisErdman	Montana	595772	7052944	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	60	Wet	Good	BurnNew
103020	03/06/2011	ChrisErdman	Montana	595809	7052911	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	50	Wet	Good	BurnNew
103021	03/06/2011	ChrisErdman	Montana	595850	7052870	UTM27N WGS84	Colluvium	Green	Clay	Flat	B	40	Wet	Good	BurnNew
103022	03/06/2011	ChrisErdman	Montana	595883	7052826	UTM27N WGS84									
103023	03/06/2011	ChrisErdman	Montana	595910	7052793	UTM27N WGS84	Colluvium	Green	Clay	Flat	B	30	Wet	Poor	BurnNew
103024	03/06/2011	ChrisErdman	Montana	595121	7052864	UTM27N WGS84	Colluvium	Green	Sand	ModerateW	C	40	Dry	Excellent	ForestMixed
103025	03/06/2011	ChrisErdman	Montana	595146	7052907	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	ForestMixed
103026	03/06/2011	ChrisErdman	Montana	595154	7052957	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Good	ForestMixed
103027	03/06/2011	ChrisErdman	Montana	595160	7053007	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Excellent	ForestMixed
103028	03/06/2011	ChrisErdman	Montana	595152	7053055	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Good	ForestMixed
103029	03/06/2011	ChrisErdman	Montana	595165	7053100	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	40	Dry	Excellent	BurnOld
103030	03/06/2011	ChrisErdman	Montana	595150	7053152	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	50	Dry	Excellent	BurnOld
103031	03/06/2011	ChrisErdman	Montana	595146	7053199	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	30	Dry	Good	BurnOld
103032	03/06/2011	ChrisErdman	Montana	595154	7053257	UTM27N WGS84	Colluvium	Tan	Sand	Flat	C	40	Dry	Excellent	BurnOld
103033	03/06/2011	ChrisErdman	Montana	595170	7053301	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	40	Dry	Excellent	BurnOld
103034	03/06/2011	ChrisErdman	Montana	595192	7053350	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Excellent	BurnOld
103035	03/06/2011	ChrisErdman	Montana	595187	7053398	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	40	Dry	Excellent	BurnOld
103036	03/06/2011	ChrisErdman	Montana	595187	7053446	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	40	Dry	Excellent	BurnOld
103037	04/06/2011	ChrisErdman	Montana	593288	7051919	UTM27N WGS84		BrownDark	Silt	ModerateNE	B	40	Frozen	Poor	BurnNew
103038	04/06/2011	ChrisErdman	Montana	593307	7051853	UTM27N WGS84	Soil	BrownDark	Silt	ModerateNE	B	30	Frozen	Poor	BurnNew
103039	04/06/2011	ChrisErdman	Montana	593323	7051810	UTM27N WGS84	Soil	BrownDark	Silt	ModerateNE	B	30	Frozen	Poor	BurnNew
103040	04/06/2011	ChrisErdman	Montana	593347	7051772	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Dry	Good	BurnNew
103041	04/06/2011	ChrisErdman	Montana	593363	7051725	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Dry	Excellent	BurnNew
103042	04/06/2011	ChrisErdman	Montana	593382	7051669	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Dry	Excellent	BurnNew
103043	04/06/2011	ChrisErdman	Montana	593396	7051635	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Excellent	BurnNew
103044	04/06/2011	ChrisErdman	Montana	593417	7051598	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	40	Dry	Excellent	BurnNew
103045	04/06/2011	ChrisErdman	Montana	593422	7051531	UTM27N WGS84	Colluvium	Green	Sand	ModerateE	C	60	Dry	Excellent	BurnNew
103046	04/06/2011	ChrisErdman	Montana	593417	7051480	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	50	Dry	Excellent	ForestMixed
103047	04/06/2011	ChrisErdman	Montana	593428	7051427	UTM27N WGS84	Colluvium	Green	Silt	ModerateSW	C	40	Dry	Excellent	BurnNew
103048	04/06/2011	ChrisErdman	Montana	593430	7051379	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	30	Dry	Good	ForestMixed
103049	04/06/2011	ChrisErdman	Montana	593430	7051335	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	B	20	Dry	Poor	ForestMixed
103050	04/06/2011	ChrisErdman	Montana	593435	7051275	UTM27N WGS84	Colluvium	Green	Sand	SteepS	C	40	Dry	Good	ForestMixed
103051	04/06/2011	ChrisErdman	Montana	593440	7051228	UTM27N WGS84	Colluvium	Brown	Sand	SteepS	C	50	Dry	Excellent	ForestMixed
103052	04/06/2011	ChrisErdman	Montana	593445	7051186	UTM27N WGS84	Colluvium	Brown	Sand	SteepS	B	40	Dry	Poor	ForestMixed
103053	04/06/2011	ChrisErdman	Montana	593452	7051135	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	B	40	Dry	Good	ForestMixed
103054	04/06/2011	ChrisErdman	Montana	593453	7051078	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	40	Dry	Good	ForestMixed
103055	04/06/2011	ChrisErdman	Montana	593465	7051030	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
103056	04/06/2011	ChrisErdman	Montana	593473	7050985	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
103057	04/06/2011	ChrisErdman	Montana	593481	7050937	UTM27N WGS84	Colluvium	Tan	Silt	ModerateS	C	40	Dry	Good	ForestMixed
103058	04/06/2011	ChrisErdman	Montana	593485	7050884	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
103059	04/06/2011	ChrisErdman	Montana	593504	7050833	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	ForestBlackSpruce
103060	04/06/2011	ChrisErdman	Montana	593516	7050790	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestBlackSpruce
103061	04/06/2011	ChrisErdman	Montana	593529	7050754	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	70	Dry	Excellent	ForestBlackSpruce
103062	04/06/2011	ChrisErdman	Montana	593545	7050687	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	50	Dry	Excellent	ForestBlackSpruce
103063	05/06/2011	ChrisErdman	Montana	597323	7050036	UTM27N WGS84	Colluvium	White	Clay	Flat	B	30	Frozen	Poor	ForestMixed
103064	05/06/2011	ChrisErdman	Montana	597342	7049994	UTM27N WGS84	Colluvium	White	Clay	Flat	B	40	Frozen	Good	ForestMixed
103065	05/06/2011	ChrisErdman	Montana	597343	7049990	UTM27N WGS84	Colluvium	White	Clay	Flat	B	40	Frozen	Good	ForestMixed
103066	05/06/2011	ChrisErdman	Montana	597367	7049947	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	30	Frozen	Poor	ForestMixed
103067	05/06/2011	ChrisErdman	Montana	597391	7049899	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	30	Frozen	Poor	ForestMixed
103068	05/06/2011	ChrisErdman	Montana	597434	7049845	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	70	Frozen	Poor	ForestMixed
103069	05/06/2011	ChrisErdman	Montana	597441	7049805	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	30	Frozen	Good	ForestMixed
103070	05/06/2011	ChrisErdman	Montana	597474	7049769	UTM27N WGS84	Colluvium	Tan	Clay	Flat	C	60	Moist	Good	ForestMixed
103071	05/06/2011	ChrisErdman	Montana	597505	7049744	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	60	Moist	Good	BurnNew
103072	05/06/2011	ChrisErdman	Montana	597539	7049714	UTM27N WGS84	Colluvium	Orange	Clay	Flat	C	40	Moist	Excellent	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103073	05/06/2011	ChrisErdman	Montana	597587	7049693	UTM27N WGS84	Colluvium	Orange	Clay	Flat	C	30	Moist	Excellent	BurnNew
103074	05/06/2011	ChrisErdman	Montana	597618	7049646	UTM27N WGS84	Colluvium	Orange	Clay	Flat	C	30	Moist	Good	ForestMixed
103075	05/06/2011	ChrisErdman	Montana	597687	7049579	UTM27N WGS84	Colluvium	Tan	Clay	Flat	B	70	Frozen	Good	BurnNew
103076	05/06/2011	ChrisErdman	Montana	597721	7049535	UTM27N WGS84	Colluvium	Orange	Clay	Flat	C	50	Moist	Excellent	BurnNew
103077	05/06/2011	ChrisErdman	Montana	597761	7049495	UTM27N WGS84	Colluvium	Tan	Clay	Flat	C	60	Moist	Excellent	ForestMixed
103078	05/06/2011	ChrisErdman	Montana	597800	7049466	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Good	BurnNew
103079	05/06/2011	ChrisErdman	Montana	597823	7049434	UTM27N WGS84	Colluvium	Grey	Clay	Flat	B	40	Frozen	Good	ForestMixed
103080	05/06/2011	ChrisErdman	Montana	597862	7049398	UTM27N WGS84	Colluvium	Green	Clay	Flat	B	80	Moist	Good	ForestMixed
103081	05/06/2011	ChrisErdman	Montana	597895	7049365	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	40	Frozen	Poor	BurnNew
103082	05/06/2011	ChrisErdman	Montana	597947	7049329	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	30	Frozen	Poor	ForestMixed
103083	05/06/2011	ChrisErdman	Montana	598244	7049166	UTM27N WGS84	Soil	Brown	Silt	Flat	B	20	Frozen	Poor	ForestMixed
103084	05/06/2011	ChrisErdman	Montana	598304	7049148	UTM27N WGS84	Soil	Brown	Silt	SteepNE	B	20	Dry	Poor	ForestMixed
103085	05/06/2011	ChrisErdman	Montana	598334	7049126	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	20	Frozen	Poor	ForestMixed
103086	05/06/2011	ChrisErdman	Montana	598482	7049078	UTM27N WGS84	Soil	BrownDark	Silt	ModerateN	B	40	Moist	Good	ForestMixed
103087	05/06/2011	ChrisErdman	Montana	598531	7049061	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	B	40	Frozen	Good	ForestMixed
103088	05/06/2011	ChrisErdman	Montana	598550	7049069	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	B	30	Frozen	Good	ForestMixed
103089	05/06/2011	ChrisErdman	Montana	598665	7049063	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	90	Moist	Excellent	ForestMixed
103090	05/06/2011	ChrisErdman	Montana	598667	7049062	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	90	Moist	Excellent	ForestMixed
103091	06/06/2011	ChrisErdman	Montana	597220	7050313	UTM27N WGS84	Colluvium	White	Clay	Flat	B	40	Frozen	Good	ForestMixed
103092	06/06/2011	ChrisErdman	Montana	597244	7050360	UTM27N WGS84	Colluvium	Grey	Clay	ModerateN	B	40	Frozen	Poor	ForestMixed
103093	06/06/2011	ChrisErdman	Montana	597302	7050434	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	80	Wet	Excellent	BurnNew
103094	06/06/2011	ChrisErdman	Montana	597324	7050467	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	60	Dry	Excellent	ForestMixed
103095	06/06/2011	ChrisErdman	Montana	597352	7050500	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	30	Moist	Good	ForestMixed
103096	06/06/2011	ChrisErdman	Montana	597390	7050548	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	B	40	Frozen	Good	ForestMixed
103097	06/06/2011	ChrisErdman	Montana	597412	7050592	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	40	Frozen	Good	ForestMixed
103098	06/06/2011	ChrisErdman	Montana	597439	7050632	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	50	Frozen	Good	ForestMixed
103099	06/06/2011	ChrisErdman	Montana	597457	7050699	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Frozen	Good	ForestMixed
103100	06/06/2011	ChrisErdman	Montana	597477	7050730	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Dry	Excellent	ForestMixed
103101	06/06/2011	ChrisErdman	Montana	597504	7050790	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	50	Dry	Excellent	ForestMixed
103102	06/06/2011	ChrisErdman	Montana	597507	7050828	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	40	Dry	Excellent	ForestMixed
103103	06/06/2011	ChrisErdman	Montana	597509	7050883	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	50	Dry	Excellent	BurnNew
103104	06/06/2011	ChrisErdman	Montana	597510	7050926	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Excellent	BurnNew
103105	06/06/2011	ChrisErdman	Montana	597494	7050968	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Excellent	BurnNew
103106	06/06/2011	ChrisErdman	Montana	597497	7051029	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	40	Dry	Excellent	BurnNew
103107	06/06/2011	ChrisErdman	Montana	597484	7051079	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	40	Dry	Excellent	BurnNew
103108	06/06/2011	ChrisErdman	Montana	597494	7051118	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Excellent	BurnNew
103109	06/06/2011	ChrisErdman	Montana	597490	7051181	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	B	60	Frozen	Good	BurnNew
103110	06/06/2011	ChrisErdman	Montana	597486	7051226	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Frozen	Poor	BurnNew
103111	06/06/2011	ChrisErdman	Montana	597467	7051315	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	20	Frozen	Poor	BurnNew
103112	06/06/2011	ChrisErdman	Montana	597498	7051695	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	30	Frozen	Good	ForestMixed
104001	03/06/2011	MarkHiggins	Montana	593123	7054223	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	40	Dry	Excellent	ForestAspen
104002	03/06/2011	MarkHiggins	Montana	593168	7054233	UTM27N WGS84	Colluvium	RustyOrange	Sand	Flat	C	80	Dry	Excellent	BurnNew
104003	03/06/2011	MarkHiggins	Montana	593221	7054224	UTM27N WGS84	Colluvium	RustyOrange	Sand	Ridge	C	40	Dry	Excellent	BurnNew
104004	03/06/2011	MarkHiggins	Montana	593264	7054220	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	50	Dry	Excellent	BurnNew
104005	03/06/2011	MarkHiggins	Montana	593320	7054213	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
104006	03/06/2011	MarkHiggins	Montana	593374	7054212	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	60	Dry	Excellent	ForestMixed
104007	03/06/2011	MarkHiggins	Montana	593416	7054218	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	80	Dry	Excellent	ForestMixed
104008	03/06/2011	MarkHiggins	Montana	593462	7054215	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	50	Dry	Excellent	ForestMixed
104009	03/06/2011	MarkHiggins	Montana	593514	7054212	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	50	Dry	Excellent	ForestMixed
104010	03/06/2011	MarkHiggins	Montana	593573	7054217	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	60	Dry	Excellent	ForestMixed
104011	03/06/2011	MarkHiggins	Montana	593626	7054219	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	60	Dry	Excellent	ForestMixed
104012	03/06/2011	MarkHiggins	Montana	593661	7054207	UTM27N WGS84	Colluvium	Orange	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104013	03/06/2011	MarkHiggins	Montana	593719	7054196	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	C	30	Dry	Excellent	ForestMixed
104014	03/06/2011	MarkHiggins	Montana	593766	7054207	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	ForestMixed
104015	03/06/2011	MarkHiggins	Montana	593765	7054205	UTM27N WGS84	Colluvium	Orange	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
104016	03/06/2011	MarkHiggins	Montana	593771	7054164	UTM27N WGS84	Lithosoil	BrownDark	Silt	ModerateSE	B	30	Dry	Poor	ForestMixed
104017	03/06/2011	MarkHiggins	Montana	593839	7054141	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
104018	03/06/2011	MarkHiggins	Montana	593868	7054107	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateSE	C	30	Dry	Good	ForestMixed
104019	03/06/2011	MarkHiggins	Montana	593896	7054069	UTM27N WGS84	Colluvium	BrownLight		ModerateNE	C	55	Dry	Good	ForestMixed
104020	03/06/2011	MarkHiggins	Montana	593921	7054030	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104021	03/06/2011	MarkHiggins	Montana	593946	7053995	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	70	Moist	Excellent	ForestMixed
104022	03/06/2011	MarkHiggins	Montana	593967	7053946	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
104023	03/06/2011	MarkHiggins	Montana	593976	7053902	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
104024	03/06/2011	MarkHiggins	Montana	594008	7053859	UTM27N WGS84	Colluvium	Green	Silt		C	40	Dry	Excellent	ForestMixed
104025	03/06/2011	MarkHiggins	Montana	594030	7053813	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104026	03/06/2011	MarkHiggins	Montana	594033	7053762	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	40	Wet	Poor	BurnOld
104027	03/06/2011	MarkHiggins	Montana	594039	7053721	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104028	03/06/2011	MarkHiggins	Montana	594055	7053657	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	80	Dry	Excellent	BurnOld
104029	03/06/2011	MarkHiggins	Montana	594075	7053606	UTM27N WGS84	Lacustrian	Green	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
104030	03/06/2011	MarkHiggins	Montana	594079	7053565	UTM27N WGS84	Lacustrian	Green	Sand	ModerateN	C	80	Dry	Excellent	BurnOld
104031	03/06/2011	MarkHiggins	Montana	594107	7053510	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
104032	03/06/2011	MarkHiggins	Montana	594090	7053469	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	60	Dry	Excellent	ForestMixed
104033	03/06/2011	MarkHiggins	Montana	594072	7053422	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	30	Dry	Good	ForestMixed
104034	03/06/2011	MarkHiggins	Montana	594096	7053366	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
104035	03/06/2011	MarkHiggins	Montana	594106	7053316	UTM27N WGS84	Lithosoil	Green	Silt	ModerateNE	C	40	Dry	Excellent	ForestMixed
104036	03/06/2011	MarkHiggins	Montana	594114	7053269	UTM27N WGS84	Lithosoil	Green	Silt	ModerateNE	C	40	Dry	Excellent	ForestMixed
104037	03/06/2011	MarkHiggins	Montana	594144	7053228	UTM27N WGS84	Colluvium	BrownLight				40			ForestMixed
104038	03/06/2011	MarkHiggins	Montana	594145	7053165	UTM27N WGS84	Lithosoil	Green				40			
104039	03/06/2011	MarkHiggins	Montana	594167	7053124	UTM27N WGS84	Lithosoil	Green				40			
104040	03/06/2011	MarkHiggins	Montana	594139	7053083	UTM27N WGS84	Lithosoil	Green				40		Excellent	ForestMixed
104041	03/06/2011	MarkHiggins	Montana	594139	7053083	UTM27N WGS84	Lithosoil	Green				50	Dry	Excellent	ForestMixed
104043	04/06/2011	MarkHiggins	Montana	592815	7052128	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	80	Dry	Excellent	ForestAspen
104044	04/06/2011	MarkHiggins	Montana	592866	7052147	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	30	Moist	Good	ForestAspen
104045	04/06/2011	MarkHiggins	Montana	592906	7052176	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Moist	Good	ForestAspen
104046	04/06/2011	MarkHiggins	Montana	592948	7052205	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestAspen
104047	04/06/2011	MarkHiggins	Montana	593000	7052229	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Wet	Good	ForestAspen
104048	04/06/2011	MarkHiggins	Montana	593037	7052250	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Moist	Excellent	DrainageBrush
104049	04/06/2011	MarkHiggins	Montana	593081	7052278	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Excellent	ForestAspen
104050	04/06/2011	MarkHiggins	Montana	593114	7052321	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	80	Dry	Excellent	ForestAspen
104051	04/06/2011	MarkHiggins	Montana	593165	7052332	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	80	Dry	Excellent	ForestAspen
104052	04/06/2011	MarkHiggins	Montana	593209	7052368	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	60	Dry	Excellent	ForestAspen
104053	04/06/2011	MarkHiggins	Montana	593256	7052398	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	40	Dry	Excellent	ForestAspen
104054	04/06/2011	MarkHiggins	Montana	593289	7052411	UTM27N WGS84	Colluvium	Orange	Sand	ModerateN	C	90	Dry	Excellent	ForestAspen
104055	04/06/2011	MarkHiggins	Montana	593335	7052441	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	80	Dry	Excellent	ForestMixed
104056	04/06/2011	MarkHiggins	Montana	593383	7052467	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	70	Dry	Excellent	ForestAspen
104057	04/06/2011	MarkHiggins	Montana	593424	7052504	UTM27N WGS84	Lithosoil	Green	Sand	ModerateN	C	40	Dry	Excellent	ForestAspen
104058	04/06/2011	MarkHiggins	Montana	593447	7052541	UTM27N WGS84	Lithosoil	RustyOrange	Sand	ModerateNW	C	40	Dry	Excellent	ForestAspen
104059	04/06/2011	MarkHiggins	Montana	593469	7052582	UTM27N WGS84	Colluvium	Orange	Sand	ModerateN	C	80	Dry	Excellent	ForestAspen
104060	04/06/2011	MarkHiggins	Montana	593481	7052633	UTM27N WGS84	Lithosoil	BrownLight	Sand	ModerateN	C	40	Dry	Excellent	ForestAspen
104061	04/06/2011	MarkHiggins	Montana	593512	7052677	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateN	C	40	Dry	Excellent	ForestAspen
104062	04/06/2011	MarkHiggins	Montana	593528	7052721	UTM27N WGS84	Lithosoil	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	ForestAspen
104063	04/06/2011	MarkHiggins	Montana	593543	7052772	UTM27N WGS84	Colluvium	Grey	Silt		C	80	Dry	Excellent	ForestAspen
104064	04/06/2011	MarkHiggins	Montana	593567	7052806	UTM27N WGS84	Colluvium	Orange	Sand	ModerateN	C	80	Dry	Excellent	ForestAspen
104065	04/06/2011	MarkHiggins	Montana	593566	7052807	UTM27N WGS84	Colluvium	Orange	Sand	ModerateN	C	80	Dry	Excellent	ForestAspen
104066	04/06/2011	MarkHiggins	Montana	593586	7052846	UTM27N WGS84	Lithosoil	BrownLight	Sand	ModerateN	C	45	Moist	Excellent	ForestAspen
104067	05/06/2011	MarkHiggins	Montana	597472	7049715	UTM27N WGS84	Lithosoil	BrownLight		Flat	C	40	Moist	Poor	BurnOld
104068	05/06/2011	MarkHiggins	Montana	597459	7049667	UTM27N WGS84	Lithosoil	BrownLight	Clay	Flat	C	60	Dry	Poor	BurnOld
104069	05/06/2011	MarkHiggins	Montana	597465	7049614	UTM27N WGS84	Lithosoil	BrownLight	Clay	Flat	C	60	Dry	Poor	BurnNew
104070	05/06/2011	MarkHiggins	Montana	597473	7049566	UTM27N WGS84	Lithosoil	BrownLight	Clay	Flat	C	50	Dry	Good	BurnOld
104071	05/06/2011	MarkHiggins	Montana	597500	7049525	UTM27N WGS84	Lithosoil	RustyOrange	Clay	Flat	C	40	Dry	Poor	ForestMixed
104072	05/06/2011	MarkHiggins	Montana	597484	7049473	UTM27N WGS84	Lithosoil	BrownLight	Clay	Flat	C	40	Dry	Poor	
104073	05/06/2011	MarkHiggins	Montana	597495	7049427	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	C	40	Moist	Poor	ForestMixed
104074	05/06/2011	MarkHiggins	Montana	597480	7049325	UTM27N WGS84	Lithosoil	Grey	Clay	Flat	C	30	Wet	Poor	ForestBlackSpruce
104075	05/06/2011	MarkHiggins	Montana	597460	7049146	UTM27N WGS84	OrganicHumus	BrownDark	Silt	Flat	B	20	Wet	Poor	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
104076	05/06/2011	MarkHiggins	Montana	597468	7049078	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Moist	Poor	ForestMixed
104077	05/06/2011	MarkHiggins	Montana	597438	7049024	UTM27N WGS84	Lithosoil	Grey	Silt	Flat	C	40	Moist	Poor	ForestBlackSpruce
104078	05/06/2011	MarkHiggins	Montana	597441	7048990	UTM27N WGS84	Colluvium	Grey	Silt	Flat	C	60	Moist	Good	ForestBlackSpruce
104079	05/06/2011	MarkHiggins	Montana	597437	7048930	UTM27N WGS84	Colluvium	Grey	Clay	Flat	C	60	Moist	Good	ForestBlackSpruce
104080	05/06/2011	MarkHiggins	Montana	597436	7048874	UTM27N WGS84	Colluvium	Green	Clay	Flat	C	40	Dry	Excellent	ForestBlackSpruce
104082	05/06/2011	MarkHiggins	Montana	597067	7048845	UTM27N WGS84	Colluvium	Orange	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
105001	03/06/2011	JoeyTaylor	Montana	595764	7054638	UTM27N WGS84	Colluvium	Black	Sand	ModerateSE	C	50	Moist	Excellent	BurnNew
105002	03/06/2011	JoeyTaylor	Montana	595812	7054644	UTM27N WGS84	Colluvium	Black	Sand	ModerateSE	C	50	Dry	Excellent	BurnNew
105003	03/06/2011	JoeyTaylor	Montana	595854	7054666	UTM27N WGS84	Colluvium	Black	Sand	ModerateSE	C	55	Dry	Excellent	BurnNew
105004	03/06/2011	JoeyTaylor	Montana	595900	7054682	UTM27N WGS84	Colluvium	Black	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105005	03/06/2011	JoeyTaylor	Montana	595945	7054697	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105006	03/06/2011	JoeyTaylor	Montana	595996	7054719	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105007	03/06/2011	JoeyTaylor	Montana	596041	7054734	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105008	03/06/2011	JoeyTaylor	Montana	596099	7054705	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105009	03/06/2011	JoeyTaylor	Montana	596142	7054669	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	70	Dry	Excellent	BurnNew
105010	03/06/2011	JoeyTaylor	Montana	596181	7054646	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105011	03/06/2011	JoeyTaylor	Montana	596222	7054614	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105012	03/06/2011	JoeyTaylor	Montana	596260	7054579	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	80	Dry	Excellent	BurnNew
105013	03/06/2011	JoeyTaylor	Montana	596298	7054551	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Good	BurnNew
105014	03/06/2011	JoeyTaylor	Montana	596336	7054521	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	70	Dry	Excellent	BurnNew
105015	03/06/2011	JoeyTaylor	Montana	596335	7054522	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	70	Frozen	Excellent	BurnNew
105016	03/06/2011	JoeyTaylor	Montana	596382	7054512	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	50	Dry	Excellent	BurnNew
105017	03/06/2011	JoeyTaylor	Montana	596442	7054493	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Good	BurnNew
105018	03/06/2011	JoeyTaylor	Montana	596477	7054479	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnNew
105019	03/06/2011	JoeyTaylor	Montana	596540	7054474	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	70	Dry	Excellent	BurnNew
105020	03/06/2011	JoeyTaylor	Montana	596571	7054459	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	40	Dry	Good	BurnNew
105021	03/06/2011	JoeyTaylor	Montana	596627	7054454	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	50	Dry	Good	BurnNew
105022	03/06/2011	JoeyTaylor	Montana	596671	7054449	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	70	Dry	Excellent	BurnNew
105023	03/06/2011	JoeyTaylor	Montana	596724	7054434	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Good	BurnNew
105024	03/06/2011	JoeyTaylor	Montana	596775	7054420	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Good	BurnNew
105025	03/06/2011	JoeyTaylor	Montana	596821	7054409	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	50	Dry	Excellent	BurnNew
105026	03/06/2011	JoeyTaylor	Montana	596868	7054402	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	50	Dry	Excellent	BurnNew
105027	03/06/2011	JoeyTaylor	Montana	596933	7054379	UTM27N WGS84	Lithosoil	Green	Sand	SteepSE	C	50	Dry	Good	ForestBlackSpruce
105028	04/06/2011	JoeyTaylor	Montana	593883	7051816	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
105029	04/06/2011	JoeyTaylor	Montana	593869	7051869	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	40	Dry	Good	BurnOld
105030	04/06/2011	JoeyTaylor	Montana	593865	7051923	UTM27N WGS84	Lithosoil	Green	Silt	ModerateN	C	60	Moist	Excellent	BurnOld
105031	04/06/2011	JoeyTaylor	Montana	593855	7051967	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Frozen	Poor	BurnOld
105032	04/06/2011	JoeyTaylor	Montana	593850	7052024	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
105033	04/06/2011	JoeyTaylor	Montana	593843	7052070	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
105034	04/06/2011	JoeyTaylor	Montana	593834	7052117	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
105035	04/06/2011	JoeyTaylor	Montana	593822	7052171	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
105036	04/06/2011	JoeyTaylor	Montana	593832	7052212	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	70	Dry	Excellent	BurnOld
105037	04/06/2011	JoeyTaylor	Montana	593852	7052266	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	40	Moist	Good	BurnOld
105038	04/06/2011	JoeyTaylor	Montana	593864	7052311	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Dry	Good	BurnOld
105039	04/06/2011	JoeyTaylor	Montana	593881	7052360	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	55	Moist	Excellent	BurnOld
105040	04/06/2011	JoeyTaylor	Montana	593881	7052360	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	55	Moist	Excellent	BurnOld
105041	04/06/2011	JoeyTaylor	Montana	593894	7052410	UTM27N WGS84		Green	Sand	ModerateN	C	50	Moist	Good	BurnOld
105042	05/06/2011	JoeyTaylor	Montana	596660	7049251	UTM27N WGS84	Lithosoil	Tan	Silt	Flat	B	40	Frozen	Good	ForestMixed
105043	05/06/2011	JoeyTaylor	Montana	596656	7049206	UTM27N WGS84	Alluvium	White	Sand	Flat	C	60	Frozen	Excellent	ForestMixed
105044	05/06/2011	JoeyTaylor	Montana	596615	7049156	UTM27N WGS84	Alluvium	Grey	Silt	Flat	C	70	Frozen	Good	ForestMixed
105045	05/06/2011	JoeyTaylor	Montana	596613	7049114	UTM27N WGS84	Soil	BrownLight	Silt	Flat	C	70	Frozen	Excellent	ForestMixed
105046	05/06/2011	JoeyTaylor	Montana	596586	7049051	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateSE	C	30	Dry	Good	ForestMixed
105047	05/06/2011	JoeyTaylor	Montana	596572	7049021	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Frozen	Good	ForestMixed
105048	05/06/2011	JoeyTaylor	Montana	596543	7048965	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateSW	B	30	Frozen	Poor	ForestMixed
105049	05/06/2011	JoeyTaylor	Montana	596523	7048919	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
105050	05/06/2011	JoeyTaylor	Montana	596509	7048880	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
105051	05/06/2011	JoeyTaylor	Montana	596496	7048841	UTM27N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	30	Dry	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
105052	05/06/2011	JoeyTaylor	Montana	596485	7048789	UTM27N WGS84	Colluvium	Orange	Sand	ModerateSW	C	30	Dry	Good	ForestMixed
105053	05/06/2011	JoeyTaylor	Montana	596470	7048738	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	30	Dry	Poor	ForestMixed
105054	05/06/2011	JoeyTaylor	Montana	596451	7048690	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
105055	05/06/2011	JoeyTaylor	Montana	596436	7048639	UTM27N WGS84	Colluvium	Green	Sand	ModerateSW	C	30	Dry	Good	ForestMixed
105056	05/06/2011	JoeyTaylor	Montana	596416	7048598	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	40	Dry	Good	ForestAspen
105057	05/06/2011	JoeyTaylor	Montana	596399	7048549	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	40	Dry	Good	ForestAspen
105058	05/06/2011	JoeyTaylor	Montana	596385	7048494	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	60	Dry	Excellent	ForestAspen
105059	05/06/2011	JoeyTaylor	Montana	596360	7048457	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	55	Dry	Excellent	ForestAspen
105060	05/06/2011	JoeyTaylor	Montana	596380	7048351	UTM27N WGS84	Lacustrian	Grey	Clay	Swamp	B	80	Dry	Excellent	ForestMixed
105061	05/06/2011	JoeyTaylor	Montana	596453	7048918	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateSW	C	50	Dry	Good	ForestMixed
105062	05/06/2011	JoeyTaylor	Montana	596475	7048944	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
105063	05/06/2011	JoeyTaylor	Montana	596509	7048971	UTM27N WGS84	Lithosoil	Grey	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
105064	06/06/2011	JoeyTaylor	Montana	598822	7051596	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	70	Dry	Excellent	BurnOld
105065	06/06/2011	JoeyTaylor	Montana	598794	7051653	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	BurnOld
105066	06/06/2011	JoeyTaylor	Montana	598775	7051692	UTM27N WGS84	Lithosoil	Grey	Sand	ModerateS	C	50	Dry	Excellent	BurnOld
105067	06/06/2011	JoeyTaylor	Montana	598770	7051746	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	BurnOld
105068	06/06/2011	JoeyTaylor	Montana	598762	7051795	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	BurnOld
105069	06/06/2011	JoeyTaylor	Montana	598742	7051848	UTM27N WGS84	Lithosoil	Grey	Sand	ModerateS	C	55	Dry	Excellent	BurnOld
105070	06/06/2011	JoeyTaylor	Montana	598737	7051892	UTM27N WGS84	Lithosoil	Grey	Silt	ModerateS	C	50	Dry	Good	BurnOld
105071	06/06/2011	JoeyTaylor	Montana	598732	7051942	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Good	BurnOld
105072	06/06/2011	JoeyTaylor	Montana	598725	7051988	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Moist	Good	BurnOld
105073	06/06/2011	JoeyTaylor	Montana	598718	7052044	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Good	BurnOld
105074	06/06/2011	JoeyTaylor	Montana	598711	7052081	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Moist	Good	BurnOld
105075	06/06/2011	JoeyTaylor	Montana	598704	7052143	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateS	C	60	Moist	Excellent	BurnOld
105076	06/06/2011	JoeyTaylor	Montana	598672	7052122	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	BurnOld
105077	06/06/2011	JoeyTaylor	Montana	598634	7052079	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
105078	06/06/2011	JoeyTaylor	Montana	598599	7052046	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
105079	06/06/2011	JoeyTaylor	Montana	598564	7052008	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	55	Moist	Excellent	BurnOld
105080	06/06/2011	JoeyTaylor	Montana	598531	7051967	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateS	C	40	Moist	Good	BurnOld
105081	06/06/2011	JoeyTaylor	Montana	598511	7051928	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateS	C	40	Moist	Good	BurnOld
105082	06/06/2011	JoeyTaylor	Montana	598479	7051886	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	BurnOld
105083	06/06/2011	JoeyTaylor	Montana	598442	7051844	UTM27N WGS84	Lithosoil	RustyOrange	Silt	ModerateS	C	40	Moist	Good	BurnOld
105084	06/06/2011	JoeyTaylor	Montana	598415	7051813	UTM27N WGS84	Lithosoil	RustyOrange	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
105085	06/06/2011	JoeyTaylor	Montana	598397	7051757	UTM27N WGS84	Lithosoil	RustyOrange	Sand	SteepS	C	55	Moist	Excellent	BurnOld
105086	06/06/2011	JoeyTaylor	Montana	598362	7051728	UTM27N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	BurnOld
105087	06/06/2011	JoeyTaylor	Montana	598329	7051682	UTM27N WGS84	Soil	Brown	Silt	ModerateS	B	70	Moist	Good	BurnOld
105088	06/06/2011	JoeyTaylor	Montana	598290	7051660	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Excellent	BurnOld
105089	06/06/2011	JoeyTaylor	Montana	598240	7051634	UTM27N WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Dry	Good	BurnOld
105090	06/06/2011	JoeyTaylor	Montana	598212	7051607	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Moist	Excellent	BurnOld
105091	06/06/2011	JoeyTaylor	Montana	598155	7051582	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Excellent	BurnOld
105092	06/06/2011	JoeyTaylor	Montana	598113	7051545	UTM27N WGS84	Colluvium	Orange	Sand	ModerateS	C	60	Dry	Excellent	BurnOld
105093	06/06/2011	JoeyTaylor	Montana	598072	7051514	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	BurnOld
105094	06/06/2011	JoeyTaylor	Montana	598041	7051491	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
105095	06/06/2011	JoeyTaylor	Montana	597999	7051459	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	60	Dry	Excellent	BurnOld
105096	06/06/2011	JoeyTaylor	Montana	597962	7051433	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	60	Moist	Excellent	ForestMixed
106412	05/08/2011	BenDubois	Montana	599184	7051993	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Dry	Excellent	BurnNew
106413	05/08/2011	BenDubois	Montana	599127	7051965	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Dry	Excellent	BurnNew
106414	05/08/2011	BenDubois	Montana	599105	7051952	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	BurnNew
106415	05/08/2011	BenDubois	Montana	599047	7051920	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Excellent	BurnNew
106416	05/08/2011	BenDubois	Montana	599000	7051897	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	BurnNew
106417	05/08/2011	BenDubois	Montana	598940	7051885	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Excellent	BurnNew
106418	05/08/2011	BenDubois	Montana	598917	7051850	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Dry	Excellent	BurnNew
106419	05/08/2011	BenDubois	Montana	598874	7051818	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Dry	Excellent	BurnOld
106420	05/08/2011	BenDubois	Montana	598832	7051799	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
106421	05/08/2011	BenDubois	Montana	598788	7051785	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	80	Dry	Excellent	BurnNew
106422	05/08/2011	BenDubois	Montana	598737	7051750	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
106423	05/08/2011	BenDubois	Montana	598693	7051732	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
106424	05/08/2011	BenDubois	Montana	598659	7051708	UTM27N WGS84	Colluvium	Orange	Silt	ModerateS	C	70	Dry	Excellent	BurnOld
106425	05/08/2011	BenDubois	Montana	598610	7051689	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Excellent	BurnOld
106426	05/08/2011	BenDubois	Montana	598575	7051666	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Good	BurnOld
106427	05/08/2011	BenDubois	Montana	598523	7051641	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	BurnOld
106428	05/08/2011	BenDubois	Montana	598480	7051624	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
106429	05/08/2011	BenDubois	Montana	598432	7051579	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	80	Dry	Excellent	BurnOld
106430	05/08/2011	BenDubois	Montana	598482	7051507	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	90	Dry	Excellent	BurnOld
106431	05/08/2011	BenDubois	Montana	598530	7051531	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Dry	Excellent	BurnOld
106432	05/08/2011	BenDubois	Montana	598574	7051549	UTM27N WGS84	Colluvium	Brown	Silt	SteepSW	C	60	Dry	Excellent	BurnOld
106433	05/08/2011	BenDubois	Montana	598612	7051579	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Excellent	BurnOld
106434	05/08/2011	BenDubois	Montana	598661	7051602	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Good	BurnOld
106435	05/08/2011	BenDubois	Montana	598707	7051619	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Dry	Good	BurnOld
106436	05/08/2011	BenDubois	Montana	598742	7051650	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	BurnOld
106437	05/08/2011	BenDubois	Montana	598789	7051677	UTM27N WGS84	Colluvium	Yellow	Silt	Flat	C	90	Dry	Excellent	BurnOld
106438	05/08/2011	BenDubois	Montana	598839	7051698	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
106439	05/08/2011	BenDubois	Montana	598889	7051726	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Dry	Excellent	BurnOld
106440	05/08/2011	BenDubois	Montana	598924	7051746	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Dry	Good	BurnOld
106441	05/08/2011	BenDubois	Montana	598962	7051783	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
106442	05/08/2011	BenDubois	Montana	599020	7051807	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Excellent	BurnOld
106443	05/08/2011	BenDubois	Montana	599057	7051802	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	40			BurnOld
106480	07/08/2011	BenDubois	Montana	599229	7051907	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Good	BurnOld
106481	07/08/2011	BenDubois	Montana	599188	7051882	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateSE	B	40	Dry	Good	BurnOld
106482	07/08/2011	BenDubois	Montana	599142	7051857	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry	Excellent	BurnOld
106483	07/08/2011	BenDubois	Montana	599098	7051833	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Excellent	BurnOld
106484	07/08/2011	BenDubois	Montana	599074	7051706	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	BurnOld
106485	07/08/2011	BenDubois	Montana	599103	7051729	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	BurnOld
106486	07/08/2011	BenDubois	Montana	599153	7051742	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	BurnOld
106487	07/08/2011	BenDubois	Montana	599195	7051766	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	BurnOld
106488	07/08/2011	BenDubois	Montana	599234	7051793	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	BurnOld
106489	07/08/2011	BenDubois	Montana	599280	7051825	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Dry	Good	BurnOld
106491	07/08/2011	BenDubois	Montana	599326	7051722	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Dry	Good	BurnOld
106492	07/08/2011	BenDubois	Montana	599285	7051699	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Moist	Good	BurnOld
106493	07/08/2011	BenDubois	Montana	599241	7051682	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Moist	Good	BurnOld
106494	07/08/2011	BenDubois	Montana	599206	7051653	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Moist	Excellent	BurnOld
106495	07/08/2011	BenDubois	Montana	599164	7051633	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Moist	Good	BurnOld
106496	07/08/2011	BenDubois	Montana	599099	7051604	UTM27N WGS84	Soil	BrownDark	Silt	ModerateE	B	80	Dry	Excellent	BurnOld
106497	07/08/2011	BenDubois	Montana	599070	7051586	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Moist	Excellent	BurnOld
106498	07/08/2011	BenDubois	Montana	599024	7051565	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Dry	Excellent	BurnOld
106499	07/08/2011	BenDubois	Montana	598981	7051541	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
106500	07/08/2011	BenDubois	Montana	598934	7051522	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
106501	07/08/2011	BenDubois	Montana	598892	7051483	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
106502	07/08/2011	BenDubois	Montana	598843	7051472	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Excellent	BurnOld
106503	07/08/2011	BenDubois	Montana	598808	7051451	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Dry	Good	BurnOld
106504	07/08/2011	BenDubois	Montana	598757	7051420	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Excellent	BurnOld
106505	07/08/2011	BenDubois	Montana	598722	7051398	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	BurnOld
106506	07/08/2011	BenDubois	Montana	598671	7051380	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	BurnOld
106507	07/08/2011	BenDubois	Montana	598627	7051361	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Good	BurnOld
106508	07/08/2011	BenDubois	Montana	598588	7051330	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
106509	07/08/2011	BenDubois	Montana	598527	7051415	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Excellent	BurnOld
106510	07/08/2011	BenDubois	Montana	598577	7051438	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	BurnOld
106511	07/08/2011	BenDubois	Montana	598621	7051465	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Dry	Excellent	BurnOld
106512	07/08/2011	BenDubois	Montana	598667	7051490	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry	Excellent	BurnOld
106513	07/08/2011	BenDubois	Montana	598711	7051517	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	90	Moist	Excellent	BurnOld
106514	07/08/2011	BenDubois	Montana	598756	7051538	UTM27N WGS84	Colluvium	Grey	Silt	ModerateSW	C	100	Dry	Excellent	BurnOld
106515	07/08/2011	BenDubois	Montana	598801	7051565	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Excellent	BurnOld
106516	07/08/2011	BenDubois	Montana	598838	7051595	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	90	Dry	Excellent	BurnOld
106517	07/08/2011	BenDubois	Montana	598883	7051608	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
106518	07/08/2011	BenDubois	Montana	598929	7051634	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry	Good	BurnOld
106519	07/08/2011	BenDubois	Montana	598968	7051651	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
106520	07/08/2011	BenDubois	Montana	599015	7051680	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
106522	08/08/2011	BenDubois	Montana	598579	7053155	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	70	Moist	Good	BurnNew
106523	08/08/2011	BenDubois	Montana	598519	7053106	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	40	Wet	Poor	BurnNew
106524	08/08/2011	BenDubois	Montana	598482	7053089	UTM27N WGS84	Soil	BrownDark	Silt	ModerateNE	B	80	Moist	Poor	BurnNew
106525	08/08/2011	BenDubois	Montana	598433	7053071	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	B	60	Moist	Poor	BurnOld
106526	08/08/2011	BenDubois	Montana	598400	7053042	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	60	Moist	Poor	BurnNew
106527	08/08/2011	BenDubois	Montana	598356	7053016	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	40	Moist	Poor	BurnNew
106528	08/08/2011	BenDubois	Montana	598306	7052989	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	40	Moist	Poor	BurnNew
106529	08/08/2011	BenDubois	Montana	598262	7052970	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	40	Moist	Poor	BurnNew
106530	08/08/2011	BenDubois	Montana	598218	7052946	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	BurnNew
106531	08/08/2011	BenDubois	Montana	598171	7052924	UTM27N WGS84	Soil	Brown	Silt	ModerateNW	B	40	Dry	Good	BurnNew
106532	08/08/2011	BenDubois	Montana	598128	7052904	UTM27N WGS84	Lithosoil	Brown	Gravel	ModerateNW	B	30	Dry	Good	BurnNew
106533	08/08/2011	BenDubois	Montana	598084	7052876	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Dry	Good	BurnOld
106534	08/08/2011	BenDubois	Montana	598037	7052861	UTM27N WGS84	Soil	Brown	Silt	ModerateNW	C	40	Dry	Good	BurnNew
106535	08/08/2011	BenDubois	Montana	597996	7052833	UTM27N WGS84	Soil	Brown	Silt	ModerateNW	B	80	Moist	Excellent	BurnNew
106536	08/08/2011	BenDubois	Montana	597954	7052804	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	50	Dry	Good	BurnNew
106537	08/08/2011	BenDubois	Montana	597906	7052785	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	70	Dry	Excellent	BurnNew
106538	08/08/2011	BenDubois	Montana	597861	7052767	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Dry	Excellent	BurnNew
106539	08/08/2011	BenDubois	Montana	597819	7052733	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Dry	Good	BurnNew
106541	08/08/2011	BenDubois	Montana	597783	7052719	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Dry	Excellent	BurnNew
106542	08/08/2011	BenDubois	Montana	597738	7052686	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry	Excellent	BurnNew
106543	08/08/2011	BenDubois	Montana	597690	7052669	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Dry	Excellent	BurnNew
106544	08/08/2011	BenDubois	Montana	597646	7052637	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Dry	Excellent	BurnNew
106545	08/08/2011	BenDubois	Montana	597605	7052619	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	80	Dry	Excellent	BurnOld
106546	08/08/2011	BenDubois	Montana	597559	7052608	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	60	Dry	Good	BurnNew
106547	08/08/2011	BenDubois	Montana	597513	7052573	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Moist	Excellent	BurnNew
106548	08/08/2011	BenDubois	Montana	597467	7052550	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry	Excellent	BurnNew
106549	08/08/2011	BenDubois	Montana	597425	7052517	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	90	Moist	Good	BurnNew
106550	08/08/2011	BenDubois	Montana	597385	7052501	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	BurnNew
106551	08/08/2011	BenDubois	Montana	597336	7052470	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Excellent	BurnNew
106552	08/08/2011	BenDubois	Montana	597294	7052460	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateW	B	60	Dry	Good	BurnNew
106553	08/08/2011	BenDubois	Montana	597251	7052435	UTM27N WGS84	Soil	Brown	Gravel	ModerateW	B	50	Moist	Good	BurnNew
106554	08/08/2011	BenDubois	Montana	597208	7052411	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
106555	08/08/2011	BenDubois	Montana	597156	7052393	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	BurnNew
106556	08/08/2011	BenDubois	Montana	597117	7052361	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Moist	Excellent	BurnNew
106557	08/08/2011	BenDubois	Montana	597069	7052341	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Moist	Excellent	BurnNew
106558	08/08/2011	BenDubois	Montana	597032	7052314	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Excellent	BurnNew
106559	09/08/2011	BenDubois	Montana	600493	7054001	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	80	Dry	Excellent	ForestMixed
106560	09/08/2011	BenDubois	Montana	600457	7053975	UTM27N WGS84	Colluvium	Grey	Silt	ModerateW	C	80	Dry	Excellent	ForestMixed
106561	09/08/2011	BenDubois	Montana	600409	7053954	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Good	ForestMixed
106562	09/08/2011	BenDubois	Montana	600366	7053928	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Excellent	ForestMixed
106563	09/08/2011	BenDubois	Montana	600318	7053909	UTM27N WGS84	Lithosoil	Brown	Gravel	ModerateW	C	30	Moist	Poor	ForestMixed
106564	09/08/2011	BenDubois	Montana	600282	7053886	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
106565	09/08/2011	BenDubois	Montana	600243	7053863	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	30	Dry	Good	BurnOld
106566	09/08/2011	BenDubois	Montana	600195	7053842	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	80	Moist	Good	BurnOld
106567	09/08/2011	BenDubois	Montana	600147	7053822	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
106568	09/08/2011	BenDubois	Montana	600096	7053787	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	BurnOld
106569	09/08/2011	BenDubois	Montana	600066	7053770	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Moist	Excellent	BurnOld
106570	09/08/2011	BenDubois	Montana	600025	7053736	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Moist	Excellent	BurnOld
106571	09/08/2011	BenDubois	Montana	599968	7053727	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Moist	Good	BurnOld
106572	09/08/2011	BenDubois	Montana	599921	7053700	UTM27N WGS84	Soil	Black	Silt	ModerateSW	B	80	Moist	Good	BurnOld
106573	09/08/2011	BenDubois	Montana	599878	7053669	UTM27N WGS84	Soil	Brown	Silt	ModerateSW	B	80	Moist	Poor	BurnOld
106574	09/08/2011	BenDubois	Montana	599831	7053651	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Excellent	BurnOld
106575	09/08/2011	BenDubois	Montana	599791	7053636	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Moist	Good	BurnOld
106576	09/08/2011	BenDubois	Montana	599746	7053601	UTM27N WGS84	Soil	Brown	Clay	ModerateSW	B	70	Moist	Poor	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
106577	09/08/2011	BenDubois	Montana	599804	7053527	UTM27N WGS84	Soil	Brown	Silt	ModerateS	B	60	Dry	Good	BurnOld
106578	09/08/2011	BenDubois	Montana	599846	7053548	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	BurnOld
106579	09/08/2011	BenDubois	Montana	599886	7053575	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateS	B	30	Dry	Good	BurnOld
106580	09/08/2011	BenDubois	Montana	599928	7053597	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Good	BurnOld
106581	09/08/2011	BenDubois	Montana	599977	7053610	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	BurnOld
106582	09/08/2011	BenDubois	Montana	600012	7053640	UTM27N WGS84	Lithosoil	Brown	Gravel	ModerateSW	B	40	Moist	Good	BurnOld
106583	09/08/2011	BenDubois	Montana	600060	7053665	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	80	Moist	Good	BurnOld
106584	09/08/2011	BenDubois	Montana	600113	7053683	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	BurnOld
106585	09/08/2011	BenDubois	Montana	600151	7053708	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	BurnOld
106586	09/08/2011	BenDubois	Montana	600190	7053734	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Good	BurnOld
106587	09/08/2011	BenDubois	Montana	600241	7053757	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	BurnOld
106588	09/08/2011	BenDubois	Montana	600287	7053778	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	BurnOld
106589	09/08/2011	BenDubois	Montana	600329	7053806	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	BurnOld
106590	09/08/2011	BenDubois	Montana	600375	7053824	UTM27N WGS84	Soil	Brown	Silt	ModerateSW	B	40	Moist	Good	BurnOld
106591	09/08/2011	BenDubois	Montana	600418	7053852	UTM27N WGS84	Soil	Brown	Silt	ModerateSW	B	30	Moist	Poor	ForestMixed
106592	09/08/2011	BenDubois	Montana	600461	7053863	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	30	Dry	Excellent	ForestMixed
106593	09/08/2011	BenDubois	Montana	600501	7053903	UTM27N WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
106594	09/08/2011	BenDubois	Montana	600559	7053927	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	30	Dry	Excellent	ForestMixed
106595	10/08/2011	BenDubois	Montana	600399	7054187	UTM27N WGS84	Colluvium	Grey	Silt	ModerateW	C	50	Moist	Excellent	ForestMixed
106596	10/08/2011	BenDubois	Montana	600364	7054147	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	30	Moist	Poor	ForestMixed
106597	10/08/2011	BenDubois	Montana	600299	7054141	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateW	B	40	Moist	Poor	ForestMixed
106598	10/08/2011	BenDubois	Montana	600260	7054123	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Poor	ForestMixed
106599	10/08/2011	BenDubois	Montana	600234	7054083	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	40	Moist	Good	BurnOld
106600	10/08/2011	BenDubois	Montana	600175	7054064	UTM27N WGS84	Soil	BrownDark	Silt	ModerateW	B	40	Moist	Poor	BurnOld
106601	10/08/2011	BenDubois	Montana	600140	7054045	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	60	Moist	Good	BurnOld
106602	10/08/2011	BenDubois	Montana	600104	7054020	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Dry	Good	BurnOld
106603	10/08/2011	BenDubois	Montana	600053	7053994	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	60	Moist	Good	BurnOld
106604	10/08/2011	BenDubois	Montana	600005	7053966	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	60	Moist	Good	BurnOld
106605	10/08/2011	BenDubois	Montana	599963	7053952	UTM27N WGS84	Soil	BrownDark	Silt	ModerateW	B	80	Moist	Poor	BurnOld
106606	10/08/2011	BenDubois	Montana	599929	7053919	UTM27N WGS84	Soil	BrownDark	Silt	ModerateW	B	90	Moist	Good	BurnOld
106607	10/08/2011	BenDubois	Montana	599876	7053907	UTM27N WGS84	Soil	BrownDark	Silt	ModerateSW	B	80	Dry	Good	BurnOld
106608	10/08/2011	BenDubois	Montana	599829	7053875	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	80	Dry	Good	BurnOld
106609	10/08/2011	BenDubois	Montana	599789	7053865	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	80	Dry	Good	BurnOld
106610	10/08/2011	BenDubois	Montana	599736	7053834	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	50	Dry	Good	BurnOld
106611	10/08/2011	BenDubois	Montana	599695	7053808	UTM27N WGS84	Soil	Brown	Silt	ModerateSW	B	40	Moist	Good	BurnOld
106612	10/08/2011	BenDubois	Montana	599656	7053789	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	40	Moist	Good	BurnOld
106613	10/08/2011	BenDubois	Montana	599704	7053695	UTM27N WGS84	Soil	Brown	Gravel	ModerateW	B	40	Moist	Good	BurnOld
106614	10/08/2011	BenDubois	Montana	599743	7053726	UTM27N WGS84	Soil	Brown	Clay	ModerateSW	B	90	Moist	Good	BurnOld
106615	10/08/2011	BenDubois	Montana	599794	7053754	UTM27N WGS84	Soil	BrownDark	Clay	ModerateSW	B	80	Dry	Good	BurnOld
106616	10/08/2011	BenDubois	Montana	599839	7053768	UTM27N WGS84	Soil	BrownDark	Clay	Flat	B	60	Dry	Good	BurnOld
106617	10/08/2011	BenDubois	Montana	599884	7053787	UTM27N WGS84	Soil	BrownDark	Silt	ModerateSW	B	90	Dry	Good	BurnOld
106618	10/08/2011	BenDubois	Montana	599924	7053823	UTM27N WGS84	Soil	Black	Clay	ModerateSW	B	80	Dry	Good	BurnOld
106619	10/08/2011	BenDubois	Montana	599972	7053850	UTM27N WGS84	Soil	Black	Clay	ModerateSW	B	80	Dry	Good	BurnOld
106620	10/08/2011	BenDubois	Montana	600018	7053854	UTM27N WGS84	Soil	Black	Silt	ModerateSW	B	60	Dry	Good	BurnOld
106621	10/08/2011	BenDubois	Montana	600057	7053889	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	70	Dry	Good	BurnOld
106622	10/08/2011	BenDubois	Montana	600098	7053903	UTM27N WGS84	Soil	BrownDark	Silt	ModerateSW	B	90	Dry	Good	BurnOld
106623	10/08/2011	BenDubois	Montana	600142	7053937	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	60	Moist	Good	BurnOld
106624	10/08/2011	BenDubois	Montana	600190	7053961	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	40	Dry	Good	BurnOld
106625	10/08/2011	BenDubois	Montana	600240	7053982	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	60	Dry	Good	BurnOld
106626	10/08/2011	BenDubois	Montana	600274	7054002	UTM27N WGS84	Soil	Brown	Silt	ModerateW	C	70	Dry	Good	BurnOld
106627	10/08/2011	BenDubois	Montana	600314	7054025	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	20	Dry	Good	BurnOld
106628	10/08/2011	BenDubois	Montana	600373	7054056	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Good	ForestMixed
106629	10/08/2011	BenDubois	Montana	600417	7054077	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	ForestMixed
106630	10/08/2011	BenDubois	Montana	600460	7054092	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	80	Dry	Good	ForestMixed
106631	10/08/2011	BenDubois	Montana	600592	7053834	UTM27N WGS84	Soil	Brown	Silt	ModerateSW	B	40	Dry	Poor	ForestMixed
106632	11/08/2011	BenDubois	Montana	597492	7056120	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
106633	11/08/2011	BenDubois	Montana	597454	7056094	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
106634	11/08/2011	BenDubois	Montana	597408	7056075	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
106635	11/08/2011	BenDubois	Montana	597372	7056047	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
106636	11/08/2011	BenDubois	Montana	597321	7056024	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	90	Dry	Excellent	BurnOld
106637	11/08/2011	BenDubois	Montana	597274	7056002	UTM27N WGS84	Colluvium	Yellow	Silt	Flat	C	90	Dry	Excellent	BurnOld
106638	11/08/2011	BenDubois	Montana	597237	7055977	UTM27N WGS84	Soil	Brown	Silt	Flat	C	100	Dry	Excellent	BurnOld
106639	11/08/2011	BenDubois	Montana	597187	7055957	UTM27N WGS84	Alluvium	Brown	Silt	Flat	C	100	Dry	Excellent	BurnOld
106640	11/08/2011	BenDubois	Montana	597147	7055930	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
106641	11/08/2011	BenDubois	Montana	597103	7055908	UTM27N WGS84	Soil	Brown	Silt	Flat	C	100	Dry	Good	BurnOld
106642	11/08/2011	BenDubois	Montana	597062	7055870	UTM27N WGS84	Lacustrian	Brown	Silt	Flat		120	Moist	Excellent	BurnOld
106643	11/08/2011	BenDubois	Montana	597018	7055859	UTM27N WGS84	Lacustrian	Brown	Clay	Flat		100	Moist	Excellent	BurnOld
106644	11/08/2011	BenDubois	Montana	596972	7055843	UTM27N WGS84	Alluvium	Brown	Silt	ModerateE	C	70	Dry	Good	BurnOld
106645	11/08/2011	BenDubois	Montana	596926	7055819	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	100	Dry	Good	BurnOld
106646	11/08/2011	BenDubois	Montana	596879	7055789	UTM27N WGS84	Soil	Brown	Silt	ModerateS	C	90	Moist	Good	BurnOld
106647	11/08/2011	BenDubois	Montana	596836	7055770	UTM27N WGS84	Lacustrian	Brown	Clay	Flat	B	90	Moist	Good	BurnOld
106648	11/08/2011	BenDubois	Montana	596791	7055744	UTM27N WGS84	Lacustrian	Black	Clay	Flat	B	90	Moist	Good	BurnOld
106649	11/08/2011	BenDubois	Montana	596742	7055723	UTM27N WGS84	Lacustrian	Black	Clay	Flat	B	80	Moist	Good	ForestBlackSpruce
106650	11/08/2011	BenDubois	Montana	596705	7055805	UTM27N WGS84	Lacustrian	BrownDark	Clay	Flat	B	80	Dry	Good	BurnOld
106651	11/08/2011	BenDubois	Montana	596744	7055831	UTM27N WGS84	Lacustrian	Brown	Clay	Flat	B	80	Moist	Excellent	BurnOld
106652	11/08/2011	BenDubois	Montana	596797	7055861	UTM27N WGS84	Alluvium	Brown	Sand	Flat	B	70	Dry	Excellent	BurnOld
106653	11/08/2011	BenDubois	Montana	596834	7055889	UTM27N WGS84	Alluvium	Brown	Silt	Flat		100	Dry	Excellent	BurnOld
106654	11/08/2011	BenDubois	Montana	596874	7055907	UTM27N WGS84	Alluvium	Brown	Silt	Flat	B	90	Dry	Excellent	BurnOld
106655	11/08/2011	BenDubois	Montana	596925	7055932	UTM27N WGS84	Alluvium	BrownLight	Silt	Flat		80	Dry	Excellent	BurnOld
106656	11/08/2011	BenDubois	Montana	596965	7055954	UTM27N WGS84	Alluvium	Brown	Silt	Flat		80	Dry	Good	BurnOld
106657	11/08/2011	BenDubois	Montana	597016	7055970	UTM27N WGS84	Alluvium	Brown	Silt	Flat		80	Dry	Good	BurnOld
106658	11/08/2011	BenDubois	Montana	597062	7056001	UTM27N WGS84	Alluvium	Brown	Silt	Flat		80	Dry	Good	BurnOld
106659	11/08/2011	BenDubois	Montana	597107	7056028	UTM27N WGS84	Alluvium	Brown	Silt	Flat		80	Dry	Good	BurnOld
106660	11/08/2011	BenDubois	Montana	597153	7056040	UTM27N WGS84	Alluvium	Brown	Silt	Ridge		70	Dry	Good	BurnOld
106661	11/08/2011	BenDubois	Montana	597190	7056065	UTM27N WGS84	Alluvium	Brown	Silt	Ridge		70	Dry	Good	BurnOld
106662	11/08/2011	BenDubois	Montana	597235	7056086	UTM27N WGS84	Alluvium	Brown	Silt	Ridge		90	Dry	Excellent	BurnOld
106663	11/08/2011	BenDubois	Montana	597282	7056116	UTM27N WGS84	Alluvium	Brown	Silt	ModerateN		40	Dry	Excellent	BurnOld
106664	11/08/2011	BenDubois	Montana	597321	7056147	UTM27N WGS84	Alluvium	Brown	Silt	ModerateNE	B	80	Moist	Good	BurnOld
106665	11/08/2011	BenDubois	Montana	597367	7056163	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	60	Moist	Good	BurnOld
106666	11/08/2011	BenDubois	Montana	597413	7056176	UTM27N WGS84	Alluvium	Brown	Silt	ModerateN	B	60	Moist	Good	BurnOld
106667	11/08/2011	BenDubois	Montana	597459	7056209	UTM27N WGS84	Soil	BrownDark	Silt	ModerateN	B	60	Moist	Good	BurnOld
107001	03/06/2011	RandyCampbell	Montana	595411	7054560	UTM27N WGS84	Alluvium	Green	Sand	Flat	C	50	Dry	Excellent	BurnOld
107002	03/06/2011	RandyCampbell	Montana	595404	7054614	UTM27N WGS84	Alluvium	Black	Sand	Flat	C	60	Dry	Excellent	BurnOld
107003	03/06/2011	RandyCampbell	Montana	595402	7054656	UTM27N WGS84	Alluvium	BrownDark	Sand	Flat	C	50	Dry	Excellent	BurnOld
107004	03/06/2011	RandyCampbell	Montana	595396	7054720	UTM27N WGS84	Soil	Black	Silt	Flat	C	40	Dry	Excellent	BurnOld
107005	03/06/2011	RandyCampbell	Montana	595395	7054766	UTM27N WGS84	Colluvium	Black	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
107006	03/06/2011	RandyCampbell	Montana	595395	7054804	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
107007	03/06/2011	RandyCampbell	Montana	595388	7054855	UTM27N WGS84	Soil	RustyOrange	Sand	ModerateN	C	70	Dry	Excellent	BurnOld
107008	03/06/2011	RandyCampbell	Montana	595389	7054903	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Moist	Good	BurnOld
107009	03/06/2011	RandyCampbell	Montana	596123	7054779	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	50	Dry	Excellent	BurnOld
107010	03/06/2011	RandyCampbell	Montana	596153	7054797	UTM27N WGS84	Colluvium	Green	Sand	ModerateE	C	60	Dry	Excellent	BurnOld
107011	03/06/2011	RandyCampbell	Montana	596200	7054806	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
107012	03/06/2011	RandyCampbell	Montana	596234	7054837	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
107013	03/06/2011	RandyCampbell	Montana	596278	7054862	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	70	Dry	Excellent	BurnOld
107014	03/06/2011	RandyCampbell	Montana	596319	7054885	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	B	30	Moist	Poor	BurnOld
107015	03/06/2011	RandyCampbell	Montana	596364	7054907	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	30	Frozen	Poor	BurnOld
107016	03/06/2011	RandyCampbell	Montana	596390	7054866	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
107017	03/06/2011	RandyCampbell	Montana	596409	7054815	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateE	C	60	Dry	Excellent	BurnOld
107018	03/06/2011	RandyCampbell	Montana	596430	7054779	UTM27N WGS84	Colluvium	BrownDark	Sand	ModerateE	C	40	Moist	Good	BurnOld
107019	03/06/2011	RandyCampbell	Montana	596448	7054742	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	40	Dry	Excellent	BurnOld
107020	03/06/2011	RandyCampbell	Montana	596500	7054712	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
107021	03/06/2011	RandyCampbell	Montana	596539	7054673	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	BurnOld
107022	03/06/2011	RandyCampbell	Montana	596588	7054653	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	50	Dry	Excellent	BurnOld
107023	03/06/2011	RandyCampbell	Montana	596635	7054632	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Moist	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
107024	03/06/2011	RandyCampbell	Montana	596687	7054626	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	70	Dry	Excellent	BurnOld
107025	03/06/2011	RandyCampbell	Montana	596744	7054609	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107026	03/06/2011	RandyCampbell	Montana	596798	7054596	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107027	03/06/2011	RandyCampbell	Montana	596856	7054572	UTM27N WGS84	Colluvium	Grey	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
107028	03/06/2011	RandyCampbell	Montana	596912	7054548	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
107029	03/06/2011	RandyCampbell	Montana	596973	7054540	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	40	Dry	Good	BurnOld
107030	03/06/2011	RandyCampbell	Montana	597033	7054508	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	60	Dry	Excellent	BurnOld
107031	03/06/2011	RandyCampbell	Montana	597086	7054492	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry	Good	BurnOld
107032	03/06/2011	RandyCampbell	Montana	597148	7054456	UTM27N WGS84	Colluvium	Green	Sand	ModerateE	C	50	Dry	Excellent	BurnOld
107033	03/06/2011	RandyCampbell	Montana	597071	7054344	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	B	20	Moist	Poor	BurnOld
107034	03/06/2011	RandyCampbell	Montana	597025	7054362	UTM27N WGS84	Colluvium	Green	Sand	ModerateE	C	60	Dry	Excellent	BurnOld
107035	03/06/2011	RandyCampbell	Montana	596980	7054370	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Good	BurnOld
107036	05/06/2011	RandyCampbell	Montana	597210	7049957	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	30	Frozen	Poor	ForestBlackSpruce
107037	05/06/2011	RandyCampbell	Montana	597130	7049886	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	40	Frozen	Poor	ForestBlackSpruce
107038	05/06/2011	RandyCampbell	Montana	597059	7049809	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Frozen	Poor	ForestBlackSpruce
107039	05/06/2011	RandyCampbell	Montana	597029	7049777	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Frozen	Good	ForestBlackSpruce
107040	05/06/2011	RandyCampbell	Montana	597026	7049779	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Frozen	Good	ForestBlackSpruce
107041	05/06/2011	RandyCampbell	Montana	596995	7049746	UTM27N WGS84	Colluvium	Grey	Sand	Flat	B	30	Moist	Poor	ForestBlackSpruce
107042	05/06/2011	RandyCampbell	Montana	596880	7049636	UTM27N WGS84	Soil	White	Silt	Flat	C	40	Moist	Good	ForestBlackSpruce
107043	05/06/2011	RandyCampbell	Montana	596854	7049589	UTM27N WGS84	Soil	BrownLight	Silt	Flat	B	40	Frozen	Poor	ForestBlackSpruce
107044	05/06/2011	RandyCampbell	Montana	596693	7049522	UTM27N WGS84	Colluvium	White	Silt	Flat	C	40	Moist	Good	ForestBlackSpruce
107045	05/06/2011	RandyCampbell	Montana	596655	7049504	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Moist	Good	ForestBlackSpruce
107046	05/06/2011	RandyCampbell	Montana	596588	7049490	UTM27N WGS84	Colluvium	Grey	Silt	Flat	C	60	Moist	Good	ForestBlackSpruce
107047	05/06/2011	RandyCampbell	Montana	596505	7049486	UTM27N WGS84	Lacustrian	Grey	Silt	Flat	B	50	Frozen	Good	ForestBlackSpruce
107048	05/06/2011	RandyCampbell	Montana	596437	7049479	UTM27N WGS84	Soil	Brown	Silt	Flat	C	60	Moist	Good	ForestBlackSpruce
107049	05/06/2011	RandyCampbell	Montana	596406	7049503	UTM27N WGS84	Soil	Green	Sand	Flat	C	60	Moist	Good	ForestBlackSpruce
107050	05/06/2011	RandyCampbell	Montana	596355	7049518	UTM27N WGS84	Colluvium	Pink	Silt	ModerateW	C	40	Moist	Good	ForestMixed
107051	06/06/2011	RandyCampbell	Montana	599534	7050920	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	40	Dry	Good	SubAlpineAlder
107052	06/06/2011	RandyCampbell	Montana	599535	7050875	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Dry	Excellent	ForestMixed
107053	06/06/2011	RandyCampbell	Montana	599530	7050819	UTM27N WGS84	Colluvium	Yellow	Sand	ModerateS	B	40	Dry	Good	BurnOld
107054	06/06/2011	RandyCampbell	Montana	599524	7050773	UTM27N WGS84	Colluvium	Grey	Silt	ModerateS	C	60	Dry	Good	BurnOld
107055	06/06/2011	RandyCampbell	Montana	599531	7050721	UTM27N WGS84	Lacustrian	Grey	Clay	Flat	B	60	Moist	Good	BurnOld
107056	06/06/2011	RandyCampbell	Montana	599539	7050670	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
107057	06/06/2011	RandyCampbell	Montana	599543	7050617	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	50	Dry	Good	BurnOld
107058	06/06/2011	RandyCampbell	Montana	599553	7050568	UTM27N WGS84	Alluvium	Yellow	Sand	Flat	C	50	Dry	Excellent	BurnOld
107059	06/06/2011	RandyCampbell	Montana	599552	7050521	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	C	40	Dry	Good	BurnOld
107060	06/06/2011	RandyCampbell	Montana	599552	7050522	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	C	40	Dry	Good	BurnOld
107061	06/06/2011	RandyCampbell	Montana	599558	7050475	UTM27N WGS84	Colluvium	Pink	Silt	Flat	C	60	Dry	Excellent	BurnOld
107062	06/06/2011	RandyCampbell	Montana	599600	7050467	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
107063	06/06/2011	RandyCampbell	Montana	599653	7050457	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
107064	06/06/2011	RandyCampbell	Montana	599703	7050461	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107065	06/06/2011	RandyCampbell	Montana	599756	7050457	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107066	06/06/2011	RandyCampbell	Montana	599800	7050441	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Dry	Good	BurnOld
107067	06/06/2011	RandyCampbell	Montana	599845	7050428	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Dry	Good	BurnOld
107068	06/06/2011	RandyCampbell	Montana	599897	7050410	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107069	06/06/2011	RandyCampbell	Montana	599943	7050406	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107070	06/06/2011	RandyCampbell	Montana	599992	7050382	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107071	06/06/2011	RandyCampbell	Montana	600033	7050358	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	B	40	Dry	Good	BurnOld
107072	06/06/2011	RandyCampbell	Montana	600072	7050326	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
107073	06/06/2011	RandyCampbell	Montana	600107	7050295	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	50	Dry	Excellent	BurnOld
107074	06/06/2011	RandyCampbell	Montana	600152	7050253	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	50	Dry	Excellent	BurnOld
107075	06/06/2011	RandyCampbell	Montana	600198	7050247	UTM27N WGS84	Colluvium	Red	Silt	ModerateNE	B	50	Dry	Good	BurnOld
107078	07/06/2011	RandyCampbell	Montana	595456	7055604	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Moist	Good	BurnOld
107079	07/06/2011	RandyCampbell	Montana	595566	7055926	UTM27N WGS84	Lacustrian	Grey	Clay	Flat	B	50	Frozen	Poor	BurnOld
107080	07/06/2011	RandyCampbell	Montana	595581	7055976	UTM27N WGS84	Soil	Brown	Silt	Flat	B	40	Moist	Good	BurnOld
107081	07/06/2011	RandyCampbell	Montana	595592	7056020	UTM27N WGS84	Soil	BrownLight	Silt	Flat	B	50	Moist	Good	BurnOld
107082	07/06/2011	RandyCampbell	Montana	595622	7056071	UTM27N WGS84	Soil	BrownLight	Silt	Flat	B	40	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
107083	07/06/2011	RandyCampbell	Montana	595648	7056106	UTMZ7N WGS84	Soil	BrownLight	Silt	Flat	C	80	Dry	Excellent	BurnOld
107084	07/06/2011	RandyCampbell	Montana	595666	7056153	UTMZ7N WGS84	Soil	BrownLight	Silt	Flat	B	40	Moist	Good	BurnOld
107085	07/06/2011	RandyCampbell	Montana	595688	7056195	UTMZ7N WGS84	Soil	Brown	Silt	Flat	B	40	Moist	Good	BurnOld
107086	07/06/2011	RandyCampbell	Montana	595708	7056241	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Good	BurnOld
107087	07/06/2011	RandyCampbell	Montana	595734	7056284	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Excellent	BurnOld
107088	07/06/2011	RandyCampbell	Montana	595817	7056355	UTMZ7N WGS84	Colluvium	Grey	Sand	Flat	C	60	Moist	Excellent	BurnOld
107089	07/06/2011	RandyCampbell	Montana	595902	7056413	UTMZ7N WGS84	Soil	Brown	Silt	Flat	B	20	Moist	Poor	BurnOld
107090	07/06/2011	RandyCampbell	Montana	595899	7056411	UTMZ7N WGS84	Soil	Brown	Silt	Flat	B	20	Moist	Poor	BurnOld
107091	07/06/2011	RandyCampbell	Montana	595935	7056445	UTMZ7N WGS84	Soil	BrownLight	Silt	Flat	B	30	Moist	Poor	BurnOld
107092	07/06/2011	RandyCampbell	Montana	595978	7056473	UTMZ7N WGS84	Soil	Brown	Silt	Flat	B	20	Moist	Poor	BurnOld
107093	07/06/2011	RandyCampbell	Montana	596013	7056499	UTMZ7N WGS84	Colluvium	Grey	Silt	Flat	C	50	Dry	Good	BurnOld
108001	04/06/2011	BenDubois	Montana	592252	7054126	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C		Moist	Good	BurnNew
108002	04/06/2011	BenDubois	Montana	592280	7054087	UTMZ7N WGS84	Colluvium	Green	Silt		C		Moist	Good	BurnNew
108003	04/06/2011	BenDubois	Montana	592304	7054044	UTMZ7N WGS84	Colluvium	Green	Silt		C		Moist	Good	BurnNew
108004	04/06/2011	BenDubois	Montana	592330	7053999	UTMZ7N WGS84	Colluvium	Orange	Silt		C		Dry	Good	
108005	04/06/2011	BenDubois	Montana	592359	7053964	UTMZ7N WGS84	Colluvium	Green	Silt		C		Dry	Good	BurnNew
108006	04/06/2011	BenDubois	Montana	592393	7053912	UTMZ7N WGS84	Colluvium	Green	Sand		C		Dry	Good	BurnNew
108008	04/06/2011	BenDubois	Montana	592517	7053882	UTMZ7N WGS84	Colluvium	Brown	Sand		C		Moist	Good	BurnNew
108009	04/06/2011	BenDubois	Montana	592560	7053908	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Moist	Good	BurnNew
108010	04/06/2011	BenDubois	Montana	592611	7053930	UTMZ7N WGS84	Colluvium	Green	Silt		C		Dry	Good	BurnNew
108011	04/06/2011	BenDubois	Montana	592645	7053967	UTMZ7N WGS84	Colluvium	Brown	Sand		C		Dry	Good	BurnNew
108012	04/06/2011	BenDubois	Montana	592682	7053997	UTMZ7N WGS84	Colluvium	Green	Silt		C		Dry	Good	
108013	04/06/2011	BenDubois	Montana	592728	7054021	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Dry	Good	BurnNew
108014	04/06/2011	BenDubois	Montana	592766	7054043	UTMZ7N WGS84	Colluvium	BrownDark	Silt		C		Dry	Good	BurnNew
108015	04/06/2011	BenDubois	Montana	592810	7054075	UTMZ7N WGS84	Colluvium	BrownDark	Silt		C		Dry	Good	BurnNew
108016	04/06/2011	BenDubois	Montana	592855	7054100	UTMZ7N WGS84	Colluvium	Brown	Sand		C		Dry	Good	BurnNew
108017	04/06/2011	BenDubois	Montana	592895	7054130	UTMZ7N WGS84	Colluvium	Orange	Silt		C		Dry	Good	BurnNew
108018	04/06/2011	BenDubois	Montana	592936	7054151	UTMZ7N WGS84	Colluvium	Brown	Sand		C		Dry	Good	BurnNew
108019	04/06/2011	BenDubois	Montana	592984	7054181	UTMZ7N WGS84	Colluvium	Brown	Sand		C		Dry	Good	BurnNew
108020	04/06/2011	BenDubois	Montana	593031	7054204	UTMZ7N WGS84	Colluvium	BrownDark	Silt		C		Dry	Good	BurnNew
108021	04/06/2011	BenDubois	Montana	593067	7054231	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Dry	Good	BurnNew
108022	04/06/2011	BenDubois	Montana	593054	7054284	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Dry	Good	BurnNew
108023	04/06/2011	BenDubois	Montana	593052	7054331	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Moist	Good	BurnNew
108024	04/06/2011	BenDubois	Montana	593045	7054381	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Moist	Good	BurnNew
108025	04/06/2011	BenDubois	Montana	593041	7054424	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Dry	Good	BurnNew
108026	04/06/2011	BenDubois	Montana	593044	7054473	UTMZ7N WGS84	Soil	BrownDark	Silt		B		Moist	Good	BurnNew
108027	04/06/2011	BenDubois	Montana	593040	7054527	UTMZ7N WGS84	Colluvium	BrownDark	Silt		C		Moist	Good	BurnNew
108028	04/06/2011	BenDubois	Montana	593038	7054578	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Moist	Good	BurnNew
108029	04/06/2011	BenDubois	Montana	593035	7054623	UTMZ7N WGS84	Colluvium	BrownDark	Silt		C		Moist	Good	BurnNew
108030	04/06/2011	BenDubois	Montana	593035	7054677	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Dry	Good	BurnNew
108031	04/06/2011	BenDubois	Montana	593032	7054726	UTMZ7N WGS84	Colluvium	Brown	Silt		C		Moist	Good	BurnNew
108032	04/06/2011	BenDubois	Montana	593041	7054777	UTMZ7N WGS84	Colluvium	Brown	Sand		C		Dry	Good	BurnNew
108033	04/06/2011	BenDubois	Montana	594844	7049299	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	50	Moist	Good	ForestMixed
108034	04/06/2011	BenDubois	Montana	594880	7049347	UTMZ7N WGS84	Soil	Brown	Silt	ModerateNE	C	30	Dry	Good	ForestMixed
108035	04/06/2011	BenDubois	Montana	594916	7049383	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	ForestMixed
108036	04/06/2011	BenDubois	Montana	594943	7049411	UTMZ7N WGS84	Soil	Brown	Silt	ModerateNE	B	40	Moist	Good	ForestMixed
108037	04/06/2011	BenDubois	Montana	594969	7049473	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Moist	Good	ForestMixed
108038	04/06/2011	BenDubois	Montana	595000	7049499	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Dry	Excellent	ForestMixed
108039	04/06/2011	BenDubois	Montana	595023	7049540	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Moist	Excellent	ForestMixed
108040	04/06/2011	BenDubois	Montana	595023	7049538	UTMZ7N WGS84	Soil				B			Excellent	
108041	04/06/2011	BenDubois	Montana	595053	7049589	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	30	Moist	Poor	ForestMixed
108042	04/06/2011	BenDubois	Montana	595097	7049624	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateE	B	40	Moist	Good	ForestMixed
108043	04/06/2011	BenDubois	Montana	595123	7049671	UTMZ7N WGS84		BrownDark	Silt	ModerateE	C	70	Moist	Excellent	
108044	04/06/2011	BenDubois	Montana	595145	7049679	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Dry	Good	ForestMixed
108045	04/06/2011	BenDubois	Montana	595135	7049755	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	50	Moist	Excellent	ForestMixed
108046	04/06/2011	BenDubois	Montana	595112	7049840	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	30	Moist	Excellent	ForestMixed
108047	04/06/2011	BenDubois	Montana	595104	7049907	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	40	Moist	Excellent	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
108048	04/06/2011	BenDubois	Montana	595081	7049937	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	50	Moist	Excellent	ForestBlackSpruce
108049	04/06/2011	BenDubois	Montana	595102	7049991	UTM27N WGS84	Soil	Brown	Silt	ModerateN	C	40	Frozen	Good	ForestBlackSpruce
108050	04/06/2011	BenDubois	Montana	595074	7050055	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Excellent	ForestMixed
108051	04/06/2011	BenDubois	Montana	595070	7050098	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
108052	04/06/2011	BenDubois	Montana	595059	7050147	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
108053	04/06/2011	BenDubois	Montana	595057	7050193	UTM27N WGS84	Colluvium	Orange	Silt	ModerateN	C	80	Moist	Excellent	ForestBlackSpruce
108054	04/06/2011	BenDubois	Montana	595072	7050980	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Moist	Excellent	ForestBlackSpruce
108055	04/06/2011	BenDubois	Montana	595101	7051091	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Moist	Poor	ForestBlackSpruce
108056	05/06/2011	BenDubois	Montana	596819	7051473	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	30	Moist	Poor	BurnNew
108058	05/06/2011	BenDubois	Montana	596799	7051526	UTM27N WGS84	Colluvium	Tan	Silt	Ridge	C	50	Dry	Excellent	BurnNew
108059	05/06/2011	BenDubois	Montana	596773	7051566	UTM27N WGS84	Colluvium	Green	Sand	Ridge	C	60	Dry	Excellent	BurnNew
108060	05/06/2011	BenDubois	Montana	596751	7051598	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnNew
108061	05/06/2011	BenDubois	Montana	596718	7051646	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	BurnNew
108062	05/06/2011	BenDubois	Montana	596684	7051690	UTM27N WGS84	Soil	Green	Sand	Ridge	C	100	Dry	Excellent	BurnNew
108063	05/06/2011	BenDubois	Montana	596664	7051735	UTM27N WGS84	Soil	Green	Sand	ModerateW	C	50	Dry	Excellent	BurnNew
108064	05/06/2011	BenDubois	Montana	596624	7051774	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	100	Dry	Excellent	BurnNew
108066	05/06/2011	BenDubois	Montana	596592	7051822	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	60	Dry	Excellent	BurnNew
108067	05/06/2011	BenDubois	Montana	596575	7051862	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	90	Dry	Excellent	BurnNew
108068	05/06/2011	BenDubois	Montana	596559	7051903	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	40	Moist	Good	BurnNew
108069	05/06/2011	BenDubois	Montana	596510	7051934	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	50	Moist	Excellent	BurnNew
108070	05/06/2011	BenDubois	Montana	596489	7051981	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	40	Moist	Good	BurnNew
108071	05/06/2011	BenDubois	Montana	596470	7052023	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	80	Moist	Excellent	BurnNew
108072	05/06/2011	BenDubois	Montana	596473	7052080	UTM27N WGS84	Soil	Brown	Silt	ModerateNW	C	50	Moist	Excellent	BurnNew
108073	05/06/2011	BenDubois	Montana	596471	7052123	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	90	Moist	Excellent	BurnNew
108074	05/06/2011	BenDubois	Montana	596466	7052176	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	60	Moist	Excellent	BurnNew
108075	05/06/2011	BenDubois	Montana	596457	7052225	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	40	Moist	Excellent	BurnNew
108076	05/06/2011	BenDubois	Montana	596450	7052271	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	60	Moist	Excellent	ForestMixed
108077	05/06/2011	BenDubois	Montana	596446	7052323	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	40	Moist	Excellent	BurnNew
108078	05/06/2011	BenDubois	Montana	596433	7052380	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Moist	Good	BurnNew
108079	05/06/2011	BenDubois	Montana	596439	7052424	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	50	Moist	Excellent	BurnNew
108080	05/06/2011	BenDubois	Montana	596429	7052467	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	60	Moist	Excellent	BurnNew
108081	05/06/2011	BenDubois	Montana	596429	7052529	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	50	Moist	Good	BurnNew
108082	05/06/2011	BenDubois	Montana	596422	7052574	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	40	Moist	Good	BurnNew
108083	05/06/2011	BenDubois	Montana	596426	7052610	UTM27N WGS84	Colluvium	BrownDark	Sand	Flat	C	50	Wet	Good	BurnNew
108084	06/06/2011	BenDubois	Montana	598652	7052181	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Moist	Good	BurnNew
108085	06/06/2011	BenDubois	Montana	598594	7052186	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	BurnNew
108086	06/06/2011	BenDubois	Montana	598551	7052209	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Moist	Good	BurnNew
108087	06/06/2011	BenDubois	Montana	598506	7052224	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	30	Moist	Excellent	BurnNew
108088	06/06/2011	BenDubois	Montana	598460	7052238	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Moist	Good	BurnNew
108089	06/06/2011	BenDubois	Montana	598413	7052259	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Moist	Good	BurnNew
108090	06/06/2011	BenDubois	Montana	598412	7052259	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Moist	Good	BurnNew
108091	06/06/2011	BenDubois	Montana	598362	7052255	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	30	Moist	Good	BurnNew
108092	06/06/2011	BenDubois	Montana	598313	7052279	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Moist	Good	BurnNew
108093	06/06/2011	BenDubois	Montana	598263	7052299	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	30	Moist	Good	BurnNew
108094	06/06/2011	BenDubois	Montana	598218	7052309	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	50	Moist	Good	BurnNew
108095	06/06/2011	BenDubois	Montana	598167	7052320	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	30	Moist	Good	BurnNew
108096	06/06/2011	BenDubois	Montana	598122	7052338	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	30	Moist	Good	BurnNew
108097	06/06/2011	BenDubois	Montana	598076	7052352	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Moist	Good	BurnNew
108098	06/06/2011	BenDubois	Montana	598034	7052373	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Moist	Good	BurnNew
108099	06/06/2011	BenDubois	Montana	597983	7052387	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	20	Moist	Good	BurnNew
108100	06/06/2011	BenDubois	Montana	597932	7052402	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Good	BurnNew
108101	06/06/2011	BenDubois	Montana	597868	7052378	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Good	BurnNew
108102	06/06/2011	BenDubois	Montana	597825	7052349	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry	Good	BurnNew
108103	06/06/2011	BenDubois	Montana	597798	7052321	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Moist	Excellent	BurnNew
108104	06/06/2011	BenDubois	Montana	597755	7052291	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Good	BurnNew
108105	06/06/2011	BenDubois	Montana	597728	7052235	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
108106	06/06/2011	BenDubois	Montana	597707	7052207	UTM27N WGS84	Soil	Brown	Silt	ModerateS	B	50	Moist	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
108107	06/06/2011	BenDubois	Montana	597678	7052151	UTM27N WGS84	Soil	Brown	Silt	SteepS	B	50	Dry	Good	ForestMixed
108108	06/06/2011	BenDubois	Montana	597672	7052106	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	70	Dry	Good	ForestMixed
108109	06/06/2011	BenDubois	Montana	597636	7052065	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Excellent	ForestMixed
108110	06/06/2011	BenDubois	Montana	597640	7052019	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	60	Dry	Good	ForestMixed
108111	06/06/2011	BenDubois	Montana	597605	7051976	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateS	C	40	Dry	Good	ForestMixed
108112	06/06/2011	BenDubois	Montana	597582	7051931	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateS	C	40	Dry	Good	ForestAspen
108113	06/06/2011	BenDubois	Montana	597568	7051883	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Good	ForestMixed
108114	06/06/2011	BenDubois	Montana	597542	7051821	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
108115	06/06/2011	BenDubois	Montana	597542	7051820	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	90	Dry	Excellent	ForestMixed
108116	06/06/2011	BenDubois	Montana	597533	7051785	UTM27N WGS84	Colluvium	Brown	Silt	SteepS	C	40	Dry	Good	ForestMixed
108117	06/06/2011	BenDubois	Montana	597507	7051743	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	90	Dry	Good	ForestMixed
108118	07/06/2011	BenDubois	Montana	596807	7055880	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	80	Dry	Excellent	BurnNew
108119	07/06/2011	BenDubois	Montana	596867	7055896	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	80	Moist	Excellent	BurnNew
108120	07/06/2011	BenDubois	Montana	596906	7055925	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Moist	Excellent	BurnOld
108121	07/06/2011	BenDubois	Montana	596945	7055946	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Excellent	BurnOld
108122	07/06/2011	BenDubois	Montana	597002	7055965	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	90	Moist	Excellent	BurnOld
108123	07/06/2011	BenDubois	Montana	597052	7055980	UTM27N WGS84	Colluvium	Tan	Silt	Flat	C	60	Dry	Excellent	BurnOld
108124	07/06/2011	BenDubois	Montana	597086	7056008	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Excellent	BurnOld
108125	07/06/2011	BenDubois	Montana	597127	7056029	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Moist	Excellent	BurnOld
108126	07/06/2011	BenDubois	Montana	597178	7056051	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Excellent	BurnNew
108127	07/06/2011	BenDubois	Montana	597222	7056068	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	70	Dry	Excellent	BurnNew
108128	07/06/2011	BenDubois	Montana	597276	7056097	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Excellent	BurnOld
108129	07/06/2011	BenDubois	Montana	597312	7056116	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	70	Moist	Excellent	BurnOld
108130	07/06/2011	BenDubois	Montana	597360	7056137	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	40	Wet	Good	BurnOld
108131	07/06/2011	BenDubois	Montana	597408	7056144	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	30	Wet	Good	BurnOld
108132	07/06/2011	BenDubois	Montana	597463	7056165	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	100	Moist	Excellent	BurnOld
108133	07/06/2011	BenDubois	Montana	597504	7056173	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
108134	07/06/2011	BenDubois	Montana	597545	7056182	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	70	Dry	Excellent	BurnOld
108135	07/06/2011	BenDubois	Montana	597602	7056187	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateS	C	100	Moist	Excellent	BurnOld
108136	07/06/2011	BenDubois	Montana	597657	7056209	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Excellent	BurnOld
108137	07/06/2011	BenDubois	Montana	597693	7056216	UTM27N WGS84	Colluvium	BrownDark	Silt	Ridge	C	70	Dry	Excellent	BurnOld
108138	07/06/2011	BenDubois	Montana	597751	7056214	UTM27N WGS84	Colluvium	BrownDark	Silt	Ridge	C	40	Dry	Excellent	BurnOld
108139	07/06/2011	BenDubois	Montana	597790	7056245	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	70	Moist	Excellent	BurnOld
108140	07/06/2011	BenDubois	Montana	597792	7056239	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	80	Moist	Excellent	BurnOld
108141	07/06/2011	BenDubois	Montana	597839	7056255	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
108143	07/06/2011	BenDubois	Montana	597982	7056247	UTM27N WGS84	Colluvium	Grey	Silt	Ridge	C	40	Dry	Good	ForestMixed
108144	07/06/2011	BenDubois	Montana	598020	7056266	UTM27N WGS84	Colluvium	Grey	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
108145	07/06/2011	BenDubois	Montana	598055	7056257	UTM27N WGS84	Colluvium	Black	Silt	ModerateE	C	70	Dry	Excellent	ForestMixed
108146	07/06/2011	BenDubois	Montana	598104	7056255	UTM27N WGS84	Colluvium	Black	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
108147	08/06/2011	BenDubois	Montana	601349	7052203	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	BurnNew
108148	08/06/2011	BenDubois	Montana	601296	7052203	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnNew
108149	08/06/2011	BenDubois	Montana	601250	7052236	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Good	BurnNew
108150	08/06/2011	BenDubois	Montana	601208	7052257	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnNew
108151	08/06/2011	BenDubois	Montana	601164	7052263	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnNew
108152	08/06/2011	BenDubois	Montana	601116	7052297	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Excellent	BurnNew
108153	08/06/2011	BenDubois	Montana	601072	7052298	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	C	80	Dry	Excellent	BurnNew
108154	08/06/2011	BenDubois	Montana	601026	7052330	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	BurnNew
108155	08/06/2011	BenDubois	Montana	600996	7052368	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	30	Dry	Excellent	BurnNew
108156	08/06/2011	BenDubois	Montana	600952	7052401	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	BurnNew
108157	08/06/2011	BenDubois	Montana	600924	7052440	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Dry	Good	BurnNew
108158	08/06/2011	BenDubois	Montana	600895	7052469	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Moist	Good	BurnNew
108159	08/06/2011	BenDubois	Montana	600859	7052508	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNW	C	70	Moist	Excellent	BurnNew
108160	08/06/2011	BenDubois	Montana	600824	7052547	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist	Good	BurnNew
108161	08/06/2011	BenDubois	Montana	600784	7052583	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	70	Moist	Excellent	BurnNew
108162	08/06/2011	BenDubois	Montana	600752	7052621	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Good	BurnNew
108163	08/06/2011	BenDubois	Montana	600711	7052655	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Excellent	BurnNew
108164	08/06/2011	BenDubois	Montana	600684	7052695	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNW	C	70	Moist	Excellent	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
108165	08/06/2011	BenDubois	Montana	600684	7052692	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNW	C	50	Moist	Excellent	BurnNew
108166	08/06/2011	BenDubois	Montana	600644	7052721	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	30	Moist	Excellent	BurnNew
108167	08/06/2011	BenDubois	Montana	600614	7052763	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist	Good	BurnNew
108168	08/06/2011	BenDubois	Montana	600564	7052798	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	80	Moist	Excellent	BurnNew
108169	08/06/2011	BenDubois	Montana	600539	7052833	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	80	Dry	Excellent	BurnNew
108170	08/06/2011	BenDubois	Montana	600497	7052864	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	BurnNew
108171	08/06/2011	BenDubois	Montana	600460	7052902	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry	Good	BurnNew
108172	08/06/2011	BenDubois	Montana	600435	7052937	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNW	C	70	Moist	Excellent	BurnNew
108173	08/06/2011	BenDubois	Montana	600405	7052977	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateNW	C	30	Moist	Poor	BurnNew
108174	08/06/2011	BenDubois	Montana	600374	7053021	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNW	C	40	Moist	Excellent	BurnNew
108175	08/06/2011	BenDubois	Montana	600333	7053051	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNW	C	30	Moist	Good	BurnNew
108176	08/06/2011	BenDubois	Montana	600303	7053081	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateNW	B	30	Moist	Poor	BurnNew
108177	08/06/2011	BenDubois	Montana	600264	7053116	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateNW	B	40	Dry	Poor	BurnNew
108178	08/06/2011	BenDubois	Montana	600226	7053159	UTM27N WGS84	Soil	Brown	Silt	ModerateNW	C	50	Moist	Poor	BurnNew
108179	08/06/2011	BenDubois	Montana	600190	7053178	UTM27N WGS84	Soil	BrownDark	Silt	Flat	B	30	Moist	Poor	BurnNew
109001	03/06/2011	IanLauzon	Montana	595524	7054549	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	30	Dry	Good	BurnOld
109002	03/06/2011	IanLauzon	Montana	595568	7054560	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	50	Dry	Excellent	BurnOld
109003	03/06/2011	IanLauzon	Montana	595622	7054574	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	50	Dry	Excellent	BurnOld
109004	03/06/2011	IanLauzon	Montana	595671	7054595	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	40	Dry	Good	BurnOld
109005	03/06/2011	IanLauzon	Montana	595716	7054607	UTM27N WGS84	Colluvium	Orange	Sand	ModerateSE	C	70	Dry	Excellent	BurnOld
109006	03/06/2011	IanLauzon	Montana	595766	7054579	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	40	Dry	Good	BurnOld
109007	03/06/2011	IanLauzon	Montana	595782	7054543	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	50	Moist	Excellent	BurnOld
109008	03/06/2011	IanLauzon	Montana	595811	7054499	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	70	Moist	Excellent	BurnOld
109009	03/06/2011	IanLauzon	Montana	595829	7054459	UTM27N WGS84	Colluvium	Green	Sand	ModerateS	C	60	Dry	Excellent	BurnOld
109010	03/06/2011	IanLauzon	Montana	595857	7054415	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnOld
109011	03/06/2011	IanLauzon	Montana	595882	7054368	UTM27N WGS84	Colluvium	Green	Sand	ModerateSE	C	60	Dry	Excellent	BurnOld
109012	03/06/2011	IanLauzon	Montana	595909	7054337	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	70	Moist	Excellent	BurnOld
109013	03/06/2011	IanLauzon	Montana	595966	7054296	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	70	Dry	Excellent	BurnOld
109014	03/06/2011	IanLauzon	Montana	596002	7054277	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	50	Dry	Excellent	BurnOld
109015	03/06/2011	IanLauzon	Montana	596002	7054277	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	50	Dry	Excellent	BurnOld
109016	03/06/2011	IanLauzon	Montana	596043	7054240	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	50	Dry	Excellent	ForestMixed
109017	03/06/2011	IanLauzon	Montana	596091	7054231	UTM27N WGS84	Colluvium	Tan	Silt	ModerateSE	C	40	Dry	Excellent	ForestMixed
109018	03/06/2011	IanLauzon	Montana	596124	7054196	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	40	Dry	Good	BurnOld
109019	03/06/2011	IanLauzon	Montana	596170	7054175	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	40	Dry	Excellent	BurnOld
109020	03/06/2011	IanLauzon	Montana	596210	7054137	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	100	Dry	Excellent	BurnOld
109021	03/06/2011	IanLauzon	Montana	596235	7054109	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	80	Dry	Excellent	BurnOld
109022	03/06/2011	IanLauzon	Montana	596282	7054066	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	40	Dry	Good	BurnOld
109023	03/06/2011	IanLauzon	Montana	596298	7054008	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
109024	03/06/2011	IanLauzon	Montana	596320	7053971	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
109025	03/06/2011	IanLauzon	Montana	596334	7053932	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	30	Dry	Good	ForestMixed
109026	03/06/2011	IanLauzon	Montana	596358	7053889	UTM27N WGS84	Colluvium	Orange	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
109027	03/06/2011	IanLauzon	Montana	596396	7053853	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
109028	03/06/2011	IanLauzon	Montana	596440	7053819	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	50	Dry	Good	ForestMixed
109029	03/06/2011	IanLauzon	Montana	596478	7053800	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
109030	03/06/2011	IanLauzon	Montana	596522	7053771	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
109031	03/06/2011	IanLauzon	Montana	596554	7053746	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	40	Dry	Good	ForestMixed
109032	04/06/2011	IanLauzon	Montana	593499	7051889	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	50	Dry	Good	BurnOld
109033	04/06/2011	IanLauzon	Montana	593260	7051955	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Moist	Good	BurnOld
109034	04/06/2011	IanLauzon	Montana	593209	7051957	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	60	Moist	Good	BurnOld
109035	04/06/2011	IanLauzon	Montana	593141	7051971	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateE	C	70	Moist	Good	BurnOld
109036	04/06/2011	IanLauzon	Montana	593102	7051998	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	60	Moist	Good	BurnOld
109037	04/06/2011	IanLauzon	Montana	593064	7052026	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	60	Moist	Good	BurnOld
109038	04/06/2011	IanLauzon	Montana	593022	7052028	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Moist	Good	BurnOld
109039	04/06/2011	IanLauzon	Montana	592970	7052043	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	30	Moist	Good	BurnOld
109040	04/06/2011	IanLauzon	Montana	592916	7052061	UTM27N WGS84	Colluvium	Orange	Sand	ModerateSE	C	60	Moist	Good	BurnOld
109041	04/06/2011	IanLauzon	Montana	592874	7052068	UTM27N WGS84	Colluvium	Brown	Sand	ModerateE	C	40	Moist	Good	ForestMixed
109042	04/06/2011	IanLauzon	Montana	592828	7052092	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	80	Moist	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109043	04/06/2011	IanLauzon	Montana	592775	7052108	UTM27N WGS84	Colluvium	Green	Sand	ModerateE	C	40	Moist	Excellent	BurnOld
109044	04/06/2011	IanLauzon	Montana	592734	7052129	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Moist	Excellent	BurnOld
109045	04/06/2011	IanLauzon	Montana	592689	7052144	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	40	Frozen	Good	BurnOld
109046	04/06/2011	IanLauzon	Montana	592632	7052165	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	40	Wet	Good	BurnOld
109047	04/06/2011	IanLauzon	Montana	592606	7052181	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	50	Wet	Poor	BurnOld
109048	04/06/2011	IanLauzon	Montana	592549	7052216	UTM27N WGS84	Colluvium	Green	Sand	ModerateE	C	40	Wet	Good	BurnOld
109049	04/06/2011	IanLauzon	Montana	592514	7052254	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateE	C	50	Dry	Excellent	BurnOld
109050	04/06/2011	IanLauzon	Montana	592487	7052288	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	50	Moist	Good	BurnOld
109051	04/06/2011	IanLauzon	Montana	592447	7052315	UTM27N WGS84	Colluvium	Orange	Sand	ModerateE	C	50	Moist	Good	BurnOld
109052	04/06/2011	IanLauzon	Montana	592411	7052359	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateE	C	50	Moist	Good	BurnOld
109053	04/06/2011	IanLauzon	Montana	592378	7052394	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	50	Moist	Good	BurnOld
109054	04/06/2011	IanLauzon	Montana	592304	7052464	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	50	Moist	Good	BurnOld
109055	04/06/2011	IanLauzon	Montana	592270	7052506	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	50	Dry	Excellent	BurnOld
109056	04/06/2011	IanLauzon	Montana	592250	7052536	UTM27N WGS84	Colluvium	BrownDark	Sand	Ridge	C	30	Dry	Good	BurnOld
109057	04/06/2011	IanLauzon	Montana	592224	7052573	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	30	Dry	Good	BurnOld
109058	04/06/2011	IanLauzon	Montana	592186	7052611	UTM27N WGS84	Colluvium	BrownLight	Sand	Ridge	C	30	Moist	Good	BurnOld
109059	05/06/2011	IanLauzon	Montana	594915	7049236	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	60	Moist	Excellent	ForestMixed
109060	05/06/2011	IanLauzon	Montana	594955	7049222	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
109061	05/06/2011	IanLauzon	Montana	595008	7049203	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	50	Dry	Excellent	ForestBirch
109062	05/06/2011	IanLauzon	Montana	595066	7049203	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	40	Moist	Excellent	ForestAspen
109063	05/06/2011	IanLauzon	Montana	595110	7049188	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	40	Moist	Excellent	ForestMixed
109064	05/06/2011	IanLauzon	Montana	595154	7049175	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
109065	05/06/2011	IanLauzon	Montana	595154	7049175	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
109066	05/06/2011	IanLauzon	Montana	595207	7049166	UTM27N WGS84	Colluvium	Tan	Silt	SteepE	C	60	Dry	Excellent	ForestMixed
109067	05/06/2011	IanLauzon	Montana	595252	7049158	UTM27N WGS84	Colluvium	Tan	Sand	SteepE	C	40	Dry	Excellent	ForestMixed
109068	05/06/2011	IanLauzon	Montana	595311	7049139	UTM27N WGS84	Colluvium	Tan	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
109069	05/06/2011	IanLauzon	Montana	595348	7049130	UTM27N WGS84	Colluvium	Tan	Silt	ModerateSE	C	40	Dry	Excellent	ForestMixed
109070	05/06/2011	IanLauzon	Montana	595411	7049133	UTM27N WGS84	Colluvium	Tan	Sand	ModerateSE	C	60	Dry	Excellent	ForestMixed
109071	05/06/2011	IanLauzon	Montana	595451	7049122	UTM27N WGS84	Soil	Orange	Sand	ModerateSE	C	60	Dry	Excellent	ForestMixed
109072	05/06/2011	IanLauzon	Montana	595500	7049118	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateSE	C	60	Dry	Excellent	ForestMixed
109073	05/06/2011	IanLauzon	Montana	595611	7049107	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	70	Dry	Excellent	ForestMixed
109074	05/06/2011	IanLauzon	Montana	595553	7049116	UTM27N WGS84	Colluvium	Tan	Sand	ModerateNE	C	40	Dry	Excellent	ForestMixed
109075	05/06/2011	IanLauzon	Montana	595659	7049114	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	60	Dry	Excellent	ForestMixed
109076	05/06/2011	IanLauzon	Montana	595698	7049107	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	60	Dry	Excellent	ForestMixed
109077	05/06/2011	IanLauzon	Montana	595750	7049107	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	60	Dry	Excellent	ForestMixed
109079	05/06/2011	IanLauzon	Montana	596009	7048821	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateNW	C	30	Moist	Good	ForestMixed
109080	05/06/2011	IanLauzon	Montana	596056	7048805	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	20	Dry	Good	ForestMixed
109081	05/06/2011	IanLauzon	Montana	596107	7048799	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Moist	Good	ForestMixed
109082	05/06/2011	IanLauzon	Montana	596166	7048812	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNW	C	60	Dry	Excellent	ForestMixed
109083	05/06/2011	IanLauzon	Montana	596208	7048826	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Moist	Excellent	ForestMixed
109084	05/06/2011	IanLauzon	Montana	596254	7048849	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	40	Dry	Excellent	ForestMixed
109085	05/06/2011	IanLauzon	Montana	596303	7048856	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	40	Dry	Excellent	ForestMixed
109086	05/06/2011	IanLauzon	Montana	596351	7048852	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	C	40	Moist	Excellent	ForestMixed
109087	05/06/2011	IanLauzon	Montana	596389	7048899	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	60	Dry	Excellent	ForestMixed
109088	05/06/2011	IanLauzon	Montana	594886	7049241	UTM27N WGS84	Colluvium	Tan	Silt	ModerateE	C	40	Moist	Good	ForestMixed
109090	06/06/2011	IanLauzon	Montana	599335	7048941	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Frozen	Good	DrainageAlder
109091	06/06/2011	IanLauzon	Montana	599342	7048986	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	DrainageAlder
109092	06/06/2011	IanLauzon	Montana	599348	7049034	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	40	Moist	Excellent	ForestMixed
109093	06/06/2011	IanLauzon	Montana	599358	7049084	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	40	Moist	Good	ForestMixed
109094	06/06/2011	IanLauzon	Montana	599362	7049138	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Moist	Good	ForestMixed
109095	06/06/2011	IanLauzon	Montana	599373	7049185	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	40	Moist	Good	BurnOld
109096	06/06/2011	IanLauzon	Montana	599380	7049238	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Moist	Good	BurnOld
109097	06/06/2011	IanLauzon	Montana	599384	7049284	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	40	Moist	Good	BurnOld
109098	06/06/2011	IanLauzon	Montana	599400	7049339	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	70	Moist	Good	BurnOld
109099	06/06/2011	IanLauzon	Montana	599405	7049380	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	40	Moist	Excellent	BurnOld
109100	06/06/2011	IanLauzon	Montana	599413	7049434	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
109101	06/06/2011	IanLauzon	Montana	599423	7049482	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Moist	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109102	06/06/2011	IanLauzon	Montana	599430	7049527	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	40	Dry	Excellent	BurnOld
109103	06/06/2011	IanLauzon	Montana	599440	7049582	UTM27N WGS84	Colluvium	BrownDark	Silt	Flat	C	40	Dry	Excellent	BurnOld
109104	06/06/2011	IanLauzon	Montana	599450	7049632	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Good	BurnOld
109105	06/06/2011	IanLauzon	Montana	599456	7049679	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	60	Dry	Excellent	BurnOld
109106	06/06/2011	IanLauzon	Montana	599462	7049727	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	40	Dry	Excellent	BurnOld
109107	06/06/2011	IanLauzon	Montana	599471	7049779	UTM27N WGS84	Colluvium	Tan	Clay	Flat	C	80	Frozen	Good	BurnOld
109108	06/06/2011	IanLauzon	Montana	599483	7049826	UTM27N WGS84	Colluvium	Tan	Clay	Flat	C	60	Frozen	Good	BurnOld
109109	06/06/2011	IanLauzon	Montana	599487	7049875	UTM27N WGS84	Colluvium	Green	Clay	Flat	C	60	Frozen	Good	BurnOld
109110	06/06/2011	IanLauzon	Montana	599497	7049924	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	40	Frozen	Good	BurnOld
109111	06/06/2011	IanLauzon	Montana	599502	7049975	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	40	Dry	Excellent	BurnOld
109112	06/06/2011	IanLauzon	Montana	599510	7050024	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Moist	Excellent	BurnOld
109113	06/06/2011	IanLauzon	Montana	599517	7050070	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	30	Moist	Good	BurnOld
109114	06/06/2011	IanLauzon	Montana	599523	7050122	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	50	Dry	Good	BurnOld
109115	06/06/2011	IanLauzon	Montana	599521	7050123	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	50	Dry	Good	BurnOld
109116	06/06/2011	IanLauzon	Montana	599535	7050174	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	30	Dry	Good	ForestMixed
109117	06/06/2011	IanLauzon	Montana	599539	7050223	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	C	30	Dry	Good	BurnOld
109118	06/06/2011	IanLauzon	Montana	599544	7050267	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	50	Dry	Excellent	BurnOld
109119	06/06/2011	IanLauzon	Montana	599553	7050318	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	50	Dry	Excellent	BurnOld
109120	06/06/2011	IanLauzon	Montana	599562	7050368	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	30	Dry	Good	BurnOld
109121	06/06/2011	IanLauzon	Montana	599554	7050421	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	80	Frozen	Excellent	BurnOld
109871	05/08/2011	IanLauzon	Montana	598894	7052525	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	C	50	Moist	Good	BurnOld
109872	05/08/2011	IanLauzon	Montana	598804	7052466	UTM27N WGS84	Colluvium	Green	Clay	ModerateN	B	40	Moist	Poor	BurnOld
109873	05/08/2011	IanLauzon	Montana	598775	7052451	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	B	40	Moist	Poor	BurnOld
109874	05/08/2011	IanLauzon	Montana	598723	7052428	UTM27N WGS84	Colluvium	Green	Silt	ModerateN	B	60	Moist	Poor	BurnOld
109875	05/08/2011	IanLauzon	Montana	598679	7052403	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
109876	05/08/2011	IanLauzon	Montana	598640	7052373	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
109877	05/08/2011	IanLauzon	Montana	598592	7052351	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	40	Dry	Excellent	BurnOld
109878	05/08/2011	IanLauzon	Montana	598546	7052320	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	40	Dry	Good	BurnOld
109879	05/08/2011	IanLauzon	Montana	598498	7052321	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	BurnOld
109880	05/08/2011	IanLauzon	Montana	598461	7052279	UTM27N WGS84	Colluvium	Tan	Silt	Flat	C	60	Dry	Excellent	BurnOld
109881	05/08/2011	IanLauzon	Montana	598367	7052228	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	40	Dry	Excellent	BurnOld
109882	05/08/2011	IanLauzon	Montana	598331	7052206	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109883	05/08/2011	IanLauzon	Montana	598289	7052190	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNW	C	40	Dry	Excellent	BurnOld
109884	05/08/2011	IanLauzon	Montana	598245	7052170	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109885	05/08/2011	IanLauzon	Montana	598203	7052146	UTM27N WGS84	Colluvium	Green	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109886	05/08/2011	IanLauzon	Montana	598161	7052107	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNW	C	80	Dry	Excellent	BurnOld
109887	05/08/2011	IanLauzon	Montana	598200	7052025	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109888	05/08/2011	IanLauzon	Montana	598248	7052046	UTM27N WGS84	Colluvium	Tan	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
109889	05/08/2011	IanLauzon	Montana	598286	7052079	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	50	Dry	Good	BurnOld
109891	05/08/2011	IanLauzon	Montana	598329	7052111	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
109892	05/08/2011	IanLauzon	Montana	598399	7052122	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	50	Dry	Good	BurnOld
109893	05/08/2011	IanLauzon	Montana	598435	7052143	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	50	Dry	Good	BurnOld
109894	05/08/2011	IanLauzon	Montana	598473	7052172	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry	Good	BurnOld
109895	05/08/2011	IanLauzon	Montana	598520	7052191	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
109896	05/08/2011	IanLauzon	Montana	598602	7052239	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	C	50	Dry	Good	BurnOld
109897	05/08/2011	IanLauzon	Montana	598652	7052268	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
109898	05/08/2011	IanLauzon	Montana	598739	7052318	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
109899	05/08/2011	IanLauzon	Montana	598774	7052348	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
109900	05/08/2011	IanLauzon	Montana	598824	7052356	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
109901	05/08/2011	IanLauzon	Montana	598877	7052370	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	BurnOld
109902	05/08/2011	IanLauzon	Montana	598916	7052401	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Dry	Good	BurnOld
109903	05/08/2011	IanLauzon	Montana	598961	7052423	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	40	Dry	Excellent	BurnOld
109939	07/08/2011	IanLauzon	Montana	599733	7051024	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
109941	07/08/2011	IanLauzon	Montana	599665	7050998	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
109942	07/08/2011	IanLauzon	Montana	599621	7050971	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	BurnOld
109943	07/08/2011	IanLauzon	Montana	599580	7050948	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	80	Dry	Excellent	BurnOld
109944	07/08/2011	IanLauzon	Montana	599489	7050902	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	60	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109945	07/08/2011	IanLauzon	Montana	599446	7050880	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Moist	Good	BurnOld
109946	07/08/2011	IanLauzon	Montana	599402	7050857	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Good	BurnOld
109947	07/08/2011	IanLauzon	Montana	599357	7050834	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	50	Moist	Poor	BurnOld
109948	07/08/2011	IanLauzon	Montana	599319	7050811	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Moist	Poor	BurnOld
109949	07/08/2011	IanLauzon	Montana	599269	7050784	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Moist	Poor	BurnOld
109950	07/08/2011	IanLauzon	Montana	599225	7050761	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateW	B	60	Wet	Poor	BurnOld
109951	07/08/2011	IanLauzon	Montana	599182	7050739	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateW	B	60	Moist	Poor	BurnOld
109952	07/08/2011	IanLauzon	Montana	599136	7050713	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	80	Moist	Poor	BurnOld
109953	07/08/2011	IanLauzon	Montana	599093	7050692	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateW	B	60	Wet	Poor	BurnOld
109954	07/08/2011	IanLauzon	Montana	599049	7050669	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateW	B	70	Moist	Poor	BurnOld
109955	07/08/2011	IanLauzon	Montana	598960	7050621	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	60	Moist	Good	BurnOld
109956	07/08/2011	IanLauzon	Montana	598914	7050710	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist	Good	BurnOld
109957	07/08/2011	IanLauzon	Montana	598953	7050732	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	50	Moist	Good	BurnOld
109958	07/08/2011	IanLauzon	Montana	599002	7050755	UTM27N WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Moist	Poor	BurnOld
109959	07/08/2011	IanLauzon	Montana	599045	7050779	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Moist	Excellent	BurnOld
109960	07/08/2011	IanLauzon	Montana	599089	7050806	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	80	Dry	Good	BurnOld
109961	07/08/2011	IanLauzon	Montana	599135	7050827	UTM27N WGS84	Colluvium	Orange	Silt	ModerateW	C	60	Dry	Good	BurnOld
109962	07/08/2011	IanLauzon	Montana	599177	7050853	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	BurnOld
109963	07/08/2011	IanLauzon	Montana	599223	7050876	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	50	Dry	Excellent	BurnOld
109964	07/08/2011	IanLauzon	Montana	599268	7050898	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	80	Dry	Excellent	BurnOld
109965	07/08/2011	IanLauzon	Montana	599311	7050923	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	50	Dry	Good	BurnOld
109966	07/08/2011	IanLauzon	Montana	599354	7050942	UTM27N WGS84	Colluvium	Orange	Sand	Flat	C	60	Dry	Good	BurnOld
109967	07/08/2011	IanLauzon	Montana	599398	7050968	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Moist	Good	BurnOld
109968	07/08/2011	IanLauzon	Montana	599445	7050993	UTM27N WGS84	Colluvium	Orange	Silt	ModerateE	C	60	Dry	Excellent	BurnOld
109969	07/08/2011	IanLauzon	Montana	599494	7051016	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	70	Moist	Good	BurnOld
109970	07/08/2011	IanLauzon	Montana	599534	7051038	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateE	B	50	Moist	Good	BurnOld
109971	07/08/2011	IanLauzon	Montana	599575	7051062	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist	Good	BurnOld
109972	07/08/2011	IanLauzon	Montana	599621	7051088	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	C	80	Moist	Good	BurnOld
109973	07/08/2011	IanLauzon	Montana	599663	7051107	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Moist	Good	BurnOld
109974	08/08/2011	IanLauzon	Montana	598606	7053067	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	B	50	Wet	Poor	BurnOld
109975	08/08/2011	IanLauzon	Montana	598577	7053028	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Moist	Poor	BurnOld
109976	08/08/2011	IanLauzon	Montana	598534	7053000	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Moist	Poor	BurnOld
109977	08/08/2011	IanLauzon	Montana	598479	7052973	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Moist	Poor	BurnOld
109978	08/08/2011	IanLauzon	Montana	598445	7052958	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	40	Moist	Poor	BurnOld
109979	08/08/2011	IanLauzon	Montana	598402	7052925	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	50	Moist	Poor	BurnOld
109980	08/08/2011	IanLauzon	Montana	598352	7052901	UTM27N WGS84	Colluvium	Brown	Clay	ModerateNE	B	40	Moist	Poor	BurnOld
109981	08/08/2011	IanLauzon	Montana	598307	7052871	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNE	C	50	Dry	Excellent	BurnOld
109982	08/08/2011	IanLauzon	Montana	598276	7052859	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109983	08/08/2011	IanLauzon	Montana	598228	7052827	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Poor	BurnOld
109984	08/08/2011	IanLauzon	Montana	598181	7052803	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
109985	08/08/2011	IanLauzon	Montana	598136	7052786	UTM27N WGS84	Colluvium	Tan	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
109986	08/08/2011	IanLauzon	Montana	598100	7052766	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Good	BurnOld
109987	08/08/2011	IanLauzon	Montana	598052	7052748	UTM27N WGS84	Colluvium	Tan	Silt	ModerateNW	C	80	Dry	Excellent	BurnOld
109988	08/08/2011	IanLauzon	Montana	598002	7052723	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Good	BurnOld
109989	08/08/2011	IanLauzon	Montana	597963	7052689	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Good	BurnOld
109991	08/08/2011	IanLauzon	Montana	597919	7052657	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109992	08/08/2011	IanLauzon	Montana	597867	7052645	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109993	08/08/2011	IanLauzon	Montana	597830	7052620	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	70	Dry	Excellent	BurnOld
109994	08/08/2011	IanLauzon	Montana	597785	7052594	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109995	08/08/2011	IanLauzon	Montana	597743	7052583	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109996	08/08/2011	IanLauzon	Montana	597690	7052549	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109997	08/08/2011	IanLauzon	Montana	597654	7052532	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
109998	08/08/2011	IanLauzon	Montana	597604	7052510	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
109999	08/08/2011	IanLauzon	Montana	597562	7052490	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Moist	Poor	BurnOld
110001	04/06/2011	TomStridsland	Montana	592189	7052670	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Moist	Excellent	BurnOld
110002	04/06/2011	TomStridsland	Montana	592240	7052679	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	60	Moist	Excellent	BurnOld
110003	04/06/2011	TomStridsland	Montana	592287	7052703	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Moist	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
110004	04/06/2011	TomStridsland	Montana	592334	7052726	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	80	Moist	Excellent	BurnOld
110005	04/06/2011	TomStridsland	Montana	592370	7052748	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110006	04/06/2011	TomStridsland	Montana	592426	7052760	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Moist	Excellent	BurnOld
110007	04/06/2011	TomStridsland	Montana	592475	7052784	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Dry	Excellent	BurnOld
110008	04/06/2011	TomStridsland	Montana	592523	7052796	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	40	Moist	Excellent	BurnOld
110009	04/06/2011	TomStridsland	Montana	592568	7052818	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Moist	Excellent	BurnOld
110010	04/06/2011	TomStridsland	Montana	592598	7052842	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110011	04/06/2011	TomStridsland	Montana	592649	7052863	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNE	B	30	Moist	Poor	BurnOld
110012	04/06/2011	TomStridsland	Montana	592692	7052884	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Moist	Good	BurnOld
110013	04/06/2011	TomStridsland	Montana	592786	7052923	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110014	04/06/2011	TomStridsland	Montana	592833	7052940	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateNE	C	40	Moist	Excellent	BurnOld
110015	04/06/2011	TomStridsland	Montana	592833	7052940	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateNE	C	40	Moist	Excellent	BurnOld
110016	04/06/2011	TomStridsland	Montana	592878	7052962	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110017	04/06/2011	TomStridsland	Montana	592926	7052971	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
110018	04/06/2011	TomStridsland	Montana	592976	7052982	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110019	04/06/2011	TomStridsland	Montana	593025	7052999	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110020	04/06/2011	TomStridsland	Montana	593070	7053000	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110021	04/06/2011	TomStridsland	Montana	593127	7053014	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	40	Moist	Excellent	BurnOld
110022	04/06/2011	TomStridsland	Montana	593173	7053028	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110023	04/06/2011	TomStridsland	Montana	593214	7053039	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateNE	C	50	Moist	Excellent	BurnOld
110024	05/06/2011	LauraRatcliffe	Montana	595191	7049710	UTMZ7N WGS84	Colluvium	Green	Silt	Flat	C	40	Dry	Good	ForestMixed
110025	05/06/2011	LauraRatcliffe	Montana	595236	7049745	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateNE	B	30	Dry	Poor	ForestMixed
110026	05/06/2011	LauraRatcliffe	Montana	595289	7049797	UTMZ7N WGS84	Colluvium	Brown	Silt	SteepE	B	40	Dry	Poor	ForestBlackSpruce
110027	05/06/2011	LauraRatcliffe	Montana	595356	7049829	UTMZ7N WGS84	Soil	Brown	Silt	ModerateNE	B	30	Moist	Poor	ForestBlackSpruce
110028	05/06/2011	LauraRatcliffe	Montana	595413	7049859	UTMZ7N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	40	Moist	Good	ForestBlackSpruce
110029	05/06/2011	LauraRatcliffe	Montana	595450	7049875	UTMZ7N WGS84	Lithosoil	Brown	Silt	ModerateNE	C	60	Moist	Excellent	ForestMixed
110030	05/06/2011	LauraRatcliffe	Montana	595507	7049888	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateNE	C	40	Dry	Good	ForestMixed
110031	05/06/2011	LauraRatcliffe	Montana	595591	7049929	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Dry	Excellent	ForestBlackSpruce
110032	05/06/2011	LauraRatcliffe	Montana	595736	7050014	UTMZ7N WGS84	Alluvium	Grey	Silt	Drainage			Wet	Good	ForestMixed
110033	05/06/2011	LauraRatcliffe	Montana	595822	7050076	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateW	B	20	Moist	Poor	ForestBlackSpruce
110034	05/06/2011	LauraRatcliffe	Montana	595837	7050093	UTMZ7N WGS84	Regolith	Brown	Silt	SteepW	C	30	Moist	Good	ForestMixed
110035	05/06/2011	LauraRatcliffe	Montana	595904	7050109	UTMZ7N WGS84	Colluvium	Green	Silt	SteepW	C	40	Dry	Good	ForestMixed
110036	05/06/2011	LauraRatcliffe	Montana	595941	7050138	UTMZ7N WGS84	Colluvium	BrownDark	Silt	SteepW	C	40	Dry	Good	ForestMixed
110037	05/06/2011	LauraRatcliffe	Montana	596001	7050163	UTMZ7N WGS84	Colluvium	Green	Silt	SteepW	C	30	Dry	Good	ForestMixed
110038	05/06/2011	LauraRatcliffe	Montana	596014	7050198	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	30	Dry	Good	ForestMixed
110039	05/06/2011	LauraRatcliffe	Montana	596057	7050254	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	40	Dry	Good	ForestMixed
110040	05/06/2011	LauraRatcliffe	Montana	596056	7050257	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	50	Dry	Good	ForestMixed
110041	08/06/2011	JoelDemers	Montana	601835	7049888	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110042	08/06/2011	JoelDemers	Montana	601795	7049915	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	70	Dry	Excellent	BurnOld
110043	08/06/2011	JoelDemers	Montana	601774	7049957	UTMZ7N WGS84	Colluvium	Blue	Clay	Ridge	C	80	Dry	Excellent	BurnOld
110044	08/06/2011	JoelDemers	Montana	601733	7049994	UTMZ7N WGS84	Lithosoil	BrownLight	Silt	Ridge	C	70	Dry	Excellent	BurnOld
110045	08/06/2011	JoelDemers	Montana	601706	7050035	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	70	Dry	Excellent	BurnOld
110046	08/06/2011	JoelDemers	Montana	601669	7050074	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110047	08/06/2011	JoelDemers	Montana	601648	7050120	UTMZ7N WGS84	Lithosoil	BrownLight	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110048	08/06/2011	JoelDemers	Montana	601605	7050157	UTMZ7N WGS84	Colluvium	BrownLight	Clay	Ridge	C	90	Dry	Excellent	BurnOld
110049	08/06/2011	JoelDemers	Montana	601591	7050205	UTMZ7N WGS84	Colluvium	BrownLight	Clay	Ridge	C	50	Dry	Excellent	BurnOld
110050	08/06/2011	JoelDemers	Montana	601560	7050244	UTMZ7N WGS84	Colluvium	Brown	Clay	Ridge	C	60	Dry	Excellent	BurnOld
110051	08/06/2011	JoelDemers	Montana	601517	7050280	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	70	Dry	Excellent	BurnOld
110052	08/06/2011	JoelDemers	Montana	601497	7050326	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	BurnOld
110053	08/06/2011	JoelDemers	Montana	601466	7050367	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	80	Dry	Excellent	BurnOld
110054	08/06/2011	JoelDemers	Montana	601425	7050389	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	70	Dry	Excellent	BurnOld
110055	08/06/2011	JoelDemers	Montana	601382	7050414	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Excellent	BurnOld
110056	08/06/2011	JoelDemers	Montana	601335	7050431	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
110057	08/06/2011	JoelDemers	Montana	601289	7050459	UTMZ7N WGS84	Lithosoil	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
110058	08/06/2011	JoelDemers	Montana	601249	7050480	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110059	08/06/2011	JoelDemers	Montana	601201	7050491	UTMZ7N WGS84	Lithosoil	Brown	Silt	Ridge	C	60	Dry	Excellent	BurnOld
110060	08/06/2011	JoelDemers	Montana	601148	7050526	UTMZ7N WGS84	Colluvium	BrownDark	Silt	Ridge	C	40	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
110061	08/06/2011	JoelDemers	Montana	601126	7050573	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
110062	08/06/2011	JoelDemers	Montana	601077	7050606	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Excellent	BurnOld
110063	08/06/2011	JoelDemers	Montana	601036	7050625	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	BurnOld
110064	08/06/2011	JoelDemers	Montana	601010	7050653	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	BurnOld
110065	08/06/2011	JoelDemers	Montana	601005	7050655	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	BurnOld
110066	08/06/2011	JoelDemers	Montana	600972	7050686	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	BurnOld
110067	08/06/2011	JoelDemers	Montana	600922	7050707	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateW	C	80	Dry	Excellent	BurnOld
110068	08/06/2011	JoelDemers	Montana	600883	7050748	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	SteepW	C	40	Dry	Excellent	BurnOld
110069	08/06/2011	JoelDemers	Montana	600853	7050780	UTMZ7N WGS84		BrownDark	Sand	SteepW	C	40	Dry	Good	BurnOld
110070	08/06/2011	JoelDemers	Montana	600812	7050810	UTMZ7N WGS84	Colluvium	BrownDark	Silt	SteepW	C	40	Dry	Good	BurnOld
110813	16/08/2011	JoelDemers	Montana	597563	7056028	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	75	Dry	Excellent	
110814	16/08/2011	JoelDemers	Montana	597508	7056011	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60	Dry	Excellent	
110815	16/08/2011	JoelDemers	Montana	597459	7055977	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70	Dry	Excellent	
110816	16/08/2011	JoelDemers	Montana	597411	7055958	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	65	Dry	Excellent	
110817	16/08/2011	JoelDemers	Montana	597371	7055935	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	70	Dry	Excellent	
110818	16/08/2011	JoelDemers	Montana	597318	7055917	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70	Dry	Excellent	
110819	16/08/2011	JoelDemers	Montana	597260	7055893	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60	Dry	Excellent	
110820	16/08/2011	JoelDemers	Montana	597229	7055868	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70	Dry	Excellent	
110821	16/08/2011	JoelDemers	Montana	597183	7055848	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	80	Dry	Excellent	
110822	16/08/2011	JoelDemers	Montana	597153	7055819	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	65	Dry	Excellent	
110823	16/08/2011	JoelDemers	Montana	597103	7055799	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	55	Dry	Excellent	
110824	16/08/2011	JoelDemers	Montana	597062	7055766	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	80	Dry	Excellent	
110825	16/08/2011	JoelDemers	Montana	597024	7055744	UTMZ7N WGS84	Colluvium	BrownLight	Clay		C	85	Moist	Good	
110826	16/08/2011	JoelDemers	Montana	596976	7055723	UTMZ7N WGS84	Colluvium	BrownLight	Clay		C	80	Moist	Good	
110827	16/08/2011	JoelDemers	Montana	596930	7055697	UTMZ7N WGS84	Colluvium	BrownLight	Clay		C	70	Moist	Good	
110828	16/08/2011	JoelDemers	Montana	596887	7055680	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	35	Frozen	Poor	
110829	16/08/2011	JoelDemers	Montana	596840	7055656	UTMZ7N WGS84	Colluvium	Grey	Clay		B	60	Frozen	Poor	
110830	16/08/2011	JoelDemers	Montana	596816	7055619	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	65	Dry	Good	
110831	16/08/2011	JoelDemers	Montana	596865	7055546	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	30	Dry	Excellent	
110832	16/08/2011	JoelDemers	Montana	596894	7055580	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Good	
110833	16/08/2011	JoelDemers	Montana	596942	7055602	UTMZ7N WGS84	Colluvium	Grey	Clay		B	65	Moist	Good	
110834	16/08/2011	JoelDemers	Montana	596996	7055620	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	75	Moist	Good	
110835	16/08/2011	JoelDemers	Montana	597027	7055647	UTMZ7N WGS84	Colluvium	Grey	Clay		B	70	Moist	Good	
110836	16/08/2011	JoelDemers	Montana	597080	7055664	UTMZ7N WGS84	Colluvium	Grey	Clay		B	70	Frozen	Good	
110837	16/08/2011	JoelDemers	Montana	597114	7055692	UTMZ7N WGS84	Colluvium	BrownLight	Clay		C	85	Moist	Good	
110839	16/08/2011	JoelDemers	Montana	597211	7055739	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		C	65	Wet	Good	
110841	16/08/2011	JoelDemers	Montana	597245	7055756	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	75	Moist	Good	
110842	16/08/2011	JoelDemers	Montana	597297	7055785	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60	Dry	Excellent	
110843	16/08/2011	JoelDemers	Montana	597348	7055804	UTMZ7N WGS84	Colluvium	BrownLight	Silt			65	Dry	Good	
110844	16/08/2011	JoelDemers	Montana	597380	7055831	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	75	Dry	Excellent	
110845	16/08/2011	JoelDemers	Montana	597422	7055845	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	85	Dry	Excellent	
110846	16/08/2011	JoelDemers	Montana	597482	7055867	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	95	Dry	Good	
110847	16/08/2011	JoelDemers	Montana	597500	7055894	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	85	Dry	Excellent	
110848	16/08/2011	JoelDemers	Montana	597563	7055928	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	95	Moist	Good	
110849	16/08/2011	JoelDemers	Montana	597616	7055947	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70	Moist	Excellent	
110850	16/08/2011	JoelDemers	Montana	597777	7055922	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	80	Wet	Good	
110851	16/08/2011	JoelDemers	Montana	597830	7055950	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	90	Frozen	Poor	
110852	16/08/2011	JoelDemers	Montana	597872	7055975	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	80	Frozen	Good	
110853	16/08/2011	JoelDemers	Montana	597919	7055999	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	100	Wet	Poor	
110854	16/08/2011	JoelDemers	Montana	597962	7056023	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	80	Moist	Good	
110855	16/08/2011	JoelDemers	Montana	598006	7056047	UTMZ7N WGS84	Colluvium	BrownLight	Clay		C	60	Dry	Good	
110856	16/08/2011	JoelDemers	Montana	598035	7056069	UTMZ7N WGS84	Colluvium	Green	Silt		C	55	Dry	Excellent	
111001	03/06/2011	JordanHarrington	Montana	592403	7053870	UTMZ7N WGS84	Lithosoil	RustyOrange	Silt	Flat	C	60	Dry	Good	
111002	03/06/2011	JordanHarrington	Montana	592485	7053824	UTMZ7N WGS84	Lithosoil	RustyOrange	Sand	Flat	C	80	Moist	Good	
111003	03/06/2011	JordanHarrington	Montana	592533	7053806	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	60	Moist	Good	
111004	03/06/2011	JordanHarrington	Montana	592582	7053796	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	60	Moist	Excellent	
111005	03/06/2011	JordanHarrington	Montana	592630	7053750	UTMZ7N WGS84	Colluvium	RustyOrange	Sand	ModerateE	C	90	Dry	Excellent	

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Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111006	03/06/2011	JordanHarrington	Montana	592658	7053725	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateE	C	80	Dry	Good	
111007	03/06/2011	JordanHarrington	Montana	592708	7053704	UTM27N WGS84	Lithosoil	Brown	Silt	Flat	C	40	Dry	Good	
111008	03/06/2011	JordanHarrington	Montana	592734	7053657	UTM27N WGS84	Lithosoil	RustyOrange	Sand	Flat	C	30	Dry	Good	
111009	03/06/2011	JordanHarrington	Montana	592797	7053649	UTM27N WGS84	Lithosoil	RustyOrange	Sand	Flat	C	40	Dry	Good	
111010	03/06/2011	JordanHarrington	Montana	592841	7053617	UTM27N WGS84	Colluvium	Green	Sand	ModerateE	C	40	Dry	Good	
111011	03/06/2011	JordanHarrington	Montana	592893	7053596	UTM27N WGS84	Lithosoil	RustyOrange	Sand	Flat	C	40	Dry	Good	
111012	03/06/2011	JordanHarrington	Montana	592921	7053579	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	80	Dry	Good	
111013	03/06/2011	JordanHarrington	Montana	592966	7053564	UTM27N WGS84	Colluvium	Brown	Sand	ModerateE	C	70	Dry	Good	
111014	03/06/2011	JordanHarrington	Montana	593005	7053553	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Good	
111015	03/06/2011	JordanHarrington	Montana	593056	7053536	UTM27N WGS84	Colluvium	Green	Silt	SteepE	C	80	Dry	Good	
111016	03/06/2011	JordanHarrington	Montana	593116	7053531	UTM27N WGS84	Colluvium	Brown	Silt	SteepE	C	60	Dry	Good	
111017	03/06/2011	JordanHarrington	Montana	593155	7053537	UTM27N WGS84	Colluvium	Green	Sand	SteepE	C	50	Dry	Good	
111018	03/06/2011	JordanHarrington	Montana	593218	7053514	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Good	
111019	03/06/2011	JordanHarrington	Montana	593263	7053515	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	80	Dry	Excellent	
111020	03/06/2011	JordanHarrington	Montana	593309	7053511	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Excellent	
111021	03/06/2011	JordanHarrington	Montana	593353	7053481	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Good	
111022	03/06/2011	JordanHarrington	Montana	593387	7053434	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Good	
111023	03/06/2011	JordanHarrington	Montana	593416	7053395	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	60	Dry	Excellent	
111024	03/06/2011	JordanHarrington	Montana	593461	7053311	UTM27N WGS84	Lithosoil	Brown	Silt	Ridge	C	30	Moist	Good	
111025	03/06/2011	JordanHarrington	Montana	593481	7053270	UTM27N WGS84	Lithosoil	Green	Silt	Ridge	C	40	Dry	Good	
111026	03/06/2011	JordanHarrington	Montana	593488	7053225	UTM27N WGS84	Lithosoil	Green	Sand	Ridge	C	40	Dry	Good	
111027	05/06/2011	JordanHarrington	Montana	595630	7051737	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	60	Moist	Good	BurnNew
111028	05/06/2011	JordanHarrington	Montana	595661	7051714	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Moist	Good	BurnNew
111029	05/06/2011	JordanHarrington	Montana	595703	7051701	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Moist	Good	BurnNew
111030	05/06/2011	JordanHarrington	Montana	595746	7051658	UTM27N WGS84	Lithosoil	Green	Sand	Flat	C	40	Moist	Good	BurnNew
111031	05/06/2011	JordanHarrington	Montana	595790	7051645	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	60	Moist	Good	BurnNew
111032	05/06/2011	JordanHarrington	Montana	595850	7051629	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	70	Moist	Good	BurnNew
111033	05/06/2011	JordanHarrington	Montana	595891	7051616	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	60	Moist	Good	BurnNew
111034	05/06/2011	JordanHarrington	Montana	595939	7051613	UTM27N WGS84	Colluvium	BrownLight	Sand	Flat	C	90	Wet	Excellent	BurnNew
111035	05/06/2011	JordanHarrington	Montana	595984	7051599	UTM27N WGS84	Colluvium	Green	Silt	Flat	C	80	Moist	Good	BurnNew
111036	05/06/2011	JordanHarrington	Montana	596052	7051593	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	40	Moist	Good	BurnNew
111037	05/06/2011	JordanHarrington	Montana	596096	7051594	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	70	Moist	Good	BurnNew
111038	05/06/2011	JordanHarrington	Montana	596135	7051573	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	40	Moist	Good	BurnNew
111039	05/06/2011	JordanHarrington	Montana	596186	7051554	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Dry	Good	BurnNew
111040	05/06/2011	JordanHarrington	Montana	596191	7051557	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Dry	Good	BurnNew
111041	05/06/2011	JordanHarrington	Montana	596243	7051543	UTM27N WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Dry	Good	BurnNew
111042	05/06/2011	JordanHarrington	Montana	596285	7051548	UTM27N WGS84	Soil	Green	Sand	Flat	C	40	Dry	Good	BurnNew
111043	05/06/2011	JordanHarrington	Montana	596335	7051531	UTM27N WGS84	Soil	Green	Sand	Flat	C	40	Dry	Good	BurnNew
111044	05/06/2011	JordanHarrington	Montana	596389	7051509	UTM27N WGS84	Soil	RustyOrange	Silt	ModerateNW	C	80	Frozen	Excellent	BurnNew
111045	05/06/2011	JordanHarrington	Montana	596435	7051499	UTM27N WGS84	Lithosoil	Green	Sand	Flat	C	40	Dry	Good	BurnNew
111046	05/06/2011	JordanHarrington	Montana	596479	7051492	UTM27N WGS84	Alluvium	BrownLight	Sand	Flat	C	80	Dry	Excellent	BurnNew
111047	05/06/2011	JordanHarrington	Montana	596530	7051483	UTM27N WGS84	Lithosoil	BrownLight	Silt	Flat	C	40	Moist	Good	BurnNew
111048	05/06/2011	JordanHarrington	Montana	596582	7051464	UTM27N WGS84	Lithosoil	Green	Sand	Flat	C	40	Dry	Good	BurnOld
111049	05/06/2011	JordanHarrington	Montana	596628	7051470	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	60	Dry	Good	BurnOld
111050	05/06/2011	JordanHarrington	Montana	596687	7051453	UTM27N WGS84	Soil	Green	Sand	Flat	C	100	Dry	Excellent	BurnOld
111051	05/06/2011	JordanHarrington	Montana	596715	7051433	UTM27N WGS84	Soil	Green	Sand	Flat	C	40	Dry	Good	BurnOld
111052	05/06/2011	JordanHarrington	Montana	596782	7051413	UTM27N WGS84	Soil	White	Silt	ModerateE	C	40	Moist	Good	BurnOld
111053	06/06/2011	JordanHarrington	Montana	599459	7050924	UTM27N WGS84	Colluvium	Tan	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111054	06/06/2011	JordanHarrington	Montana	599412	7050916	UTM27N WGS84	Colluvium	Tan	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
111055	06/06/2011	JordanHarrington	Montana	599359	7050918	UTM27N WGS84	Colluvium	Grey	Silt	ModerateSW	C	100	Moist	Excellent	ForestMixed
111056	06/06/2011	JordanHarrington	Montana	599313	7050920	UTM27N WGS84	Colluvium	Tan	Silt	ModerateSW	C	80	Moist	Good	ForestMixed
111057	06/06/2011	JordanHarrington	Montana	599274	7050923	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
111058	06/06/2011	JordanHarrington	Montana	599223	7050923	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	40	Moist	Good	ForestMixed
111059	06/06/2011	JordanHarrington	Montana	599170	7050918	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	80	Moist	Good	ForestMixed
111060	06/06/2011	JordanHarrington	Montana	599117	7050927	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
111061	06/06/2011	JordanHarrington	Montana	599071	7050926	UTM27N WGS84	Colluvium	Tan	Silt	SteepSW	C	50	Dry	Good	ForestMixed
111062	06/06/2011	JordanHarrington	Montana	599016	7050916	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111063	06/06/2011	JordanHarrington	Montana	598977	7050919	UTM27N_WGS84	Lithosoil	RustyOrange	Silt	Flat	C	50	Moist	Good	BurnOld
111064	06/06/2011	JordanHarrington	Montana	598928	7050918	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	70	Dry	Good	BurnOld
111065	06/06/2011	JordanHarrington	Montana	598928	7050918	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	70	Dry	Good	BurnOld
111066	06/06/2011	JordanHarrington	Montana	598866	7050914	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	40	Dry	Good	BurnOld
111067	06/06/2011	JordanHarrington	Montana	598817	7050915	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	BurnNew
111068	06/06/2011	JordanHarrington	Montana	598769	7050901	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Good	ForestMixed
111069	06/06/2011	JordanHarrington	Montana	598727	7050893	UTM27N_WGS84	Colluvium	Green	Silt	ModerateSW	C	100	Dry	Excellent	ForestMixed
111070	06/06/2011	JordanHarrington	Montana	598669	7050892	UTM27N_WGS84	Soil	Green	Silt	Flat	C	90	Frozen	Excellent	ForestMixed
111071	06/06/2011	JordanHarrington	Montana	598614	7050892	UTM27N_WGS84	Lithosoil	Green	Sand	ModerateSW	C	30	Dry	Good	ForestMixed
111072	06/06/2011	JordanHarrington	Montana	598574	7050872	UTM27N_WGS84	Lithosoil	Green	Silt	ModerateSW	C	80	Dry	Good	ForestMixed
111073	06/06/2011	JordanHarrington	Montana	598524	7050867	UTM27N_WGS84	Lithosoil	Green	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111074	06/06/2011	JordanHarrington	Montana	598484	7050847	UTM27N_WGS84	Colluvium	Green	Silt	ModerateSW	C	100	Dry	Excellent	ForestMixed
111075	06/06/2011	JordanHarrington	Montana	598429	7050834	UTM27N_WGS84	Colluvium	Green	Sand	ModerateW	C	100	Dry	Excellent	ForestMixed
111076	06/06/2011	JordanHarrington	Montana	598390	7050856	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111077	06/06/2011	JordanHarrington	Montana	598326	7050860	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	ForestMixed
111078	06/06/2011	JordanHarrington	Montana	598306	7050899	UTM27N_WGS84	Colluvium	Brown	Silt	SteepSW	C	60	Dry	Good	ForestMixed
111079	06/06/2011	JordanHarrington	Montana	598242	7050927	UTM27N_WGS84	Colluvium	Brown	Silt	SteepW	B	30	Dry	Poor	ForestMixed
111080	06/06/2011	JordanHarrington	Montana	598207	7050927	UTM27N_WGS84	Colluvium	Brown	Silt	SteepW	C	40	Dry	Good	ForestMixed
111081	06/06/2011	JordanHarrington	Montana	597887	7051355	UTM27N_WGS84	Colluvium	Green	Sand	ModerateNW	C	50	Dry	Good	ForestMixed
111082	06/06/2011	JordanHarrington	Montana	597926	7051401	UTM27N_WGS84	Colluvium	Green	Silt	ModerateNW	C	30	Frozen	Poor	ForestMixed
111093	07/06/2011	JordanHarrington	Montana	597886	7052424	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	C	40	Dry	Good	ForestMixed
111094	07/06/2011	JordanHarrington	Montana	597799	7052454	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Frozen	Good	ForestMixed
111095	07/06/2011	JordanHarrington	Montana	597649	7052497	UTM27N_WGS84	Colluvium	Tan	Sand	ModerateNW	C	60	Frozen	Good	ForestMixed
111096	07/06/2011	JordanHarrington	Montana	597607	7052512	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen	Good	ForestMixed
111097	07/06/2011	JordanHarrington	Montana	597563	7052527	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Good	ForestMixed
111098	07/06/2011	JordanHarrington	Montana	597511	7052544	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Frozen	Good	ForestMixed
111099	07/06/2011	JordanHarrington	Montana	597459	7052575	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Frozen	Good	ForestMixed
111100	07/06/2011	JordanHarrington	Montana	597434	7052587	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	80	Frozen	Good	BurnNew
111101	07/06/2011	JordanHarrington	Montana	597332	7052640	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Good	BurnNew
111102	07/06/2011	JordanHarrington	Montana	597290	7052671	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Moist	Good	BurnNew
111103	07/06/2011	JordanHarrington	Montana	597247	7052695	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Moist	Good	BurnNew
111104	07/06/2011	JordanHarrington	Montana	597206	7052723	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen	Good	BurnNew
111105	07/06/2011	JordanHarrington	Montana	597170	7052754	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Good	BurnNew
111106	07/06/2011	JordanHarrington	Montana	597127	7052775	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist	Good	BurnNew
111107	07/06/2011	JordanHarrington	Montana	597090	7052806	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist	Good	BurnNew
111108	07/06/2011	JordanHarrington	Montana	597045	7052836	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Wet	Good	ForestBlackSpruce
111109	07/06/2011	JordanHarrington	Montana	597017	7052865	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Wet	Good	ForestBlackSpruce
111110	07/06/2011	JordanHarrington	Montana	596964	7052881	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Frozen	Good	BurnNew
111111	07/06/2011	JordanHarrington	Montana	596902	7052907	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Moist	Good	BurnNew
111112	07/06/2011	JordanHarrington	Montana	596867	7052926	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Good	BurnNew
111113	07/06/2011	JordanHarrington	Montana	596783	7052976	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Good	BurnNew
111114	07/06/2011	JordanHarrington	Montana	596737	7053001	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Moist	Good	BurnNew
111115	07/06/2011	JordanHarrington	Montana	596693	7053021	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Wet	Poor	BurnNew
111116	07/06/2011	JordanHarrington	Montana	596641	7053047	UTM27N_WGS84	Colluvium	Green	Silt	ModerateNW	C	70	Moist	Good	BurnNew
112001	03/06/2011	MarkLam	Montana				Colluvium	Brown	Sand	Flat	C	30	Dry	Good	ForestMixed
112002	03/06/2011	MarkLam	Montana	595485	7054418	UTM27N_WGS84	Colluvium	Green	Sand	Flat	C	30	Dry	Good	ForestMixed
112003	03/06/2011	MarkLam	Montana	595501	7054332	UTM27N_WGS84	Colluvium	BrownDark	Sand	ModerateS	C	40	Dry	Good	ForestMixed
112004	03/06/2011	MarkLam	Montana	595537	7054299	UTM27N_WGS84	Colluvium	Green	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
112005	03/06/2011	MarkLam	Montana	595565	7054245	UTM27N_WGS84	Colluvium	BrownDark	Silt	SteepS	C	80	Dry	Excellent	ForestMixed
112006	03/06/2011	MarkLam	Montana	595594	7054197	UTM27N_WGS84	Colluvium	Tan	Silt	Flat	C	90	Dry	Excellent	ForestMixed
112007	03/06/2011	MarkLam	Montana	595629	7054160	UTM27N_WGS84	Colluvium	Green	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
112008	03/06/2011	MarkLam	Montana	595637	7054114	UTM27N_WGS84	Colluvium	BrownDark	Sand	ModerateS	C	30	Dry	Good	ForestMixed
112009	03/06/2011	MarkLam	Montana	595665	7054054	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Good	ForestMixed
112010	03/06/2011	MarkLam	Montana	595695	7054020	UTM27N_WGS84	Colluvium	Brown	Silt	SteepS	C	40	Dry	Excellent	ForestMixed
112011	03/06/2011	MarkLam	Montana	595727	7053985	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Dry	Good	ForestMixed
112012	03/06/2011	MarkLam	Montana	595750	7053941	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateS	C	80	Moist	Excellent	BurnNew
112013	03/06/2011	MarkLam	Montana	595774	7053903	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateS	C	90	Dry	Excellent	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
112014	03/06/2011	MarkLam	Montana	595798	7053841	UTMZ7N WGS84									
112015	03/06/2011	MarkLam	Montana	595819	7053796	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
112016	03/06/2011	MarkLam	Montana	595833	7053766	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Excellent	ForestMixed
112017	03/06/2011	MarkLam	Montana	595852	7053729	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	30	Dry	Poor	ForestMixed
112018	03/06/2011	MarkLam	Montana	595890	7053695	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
112019	03/06/2011	MarkLam	Montana	595921	7053648	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	30	Dry	Good	ForestMixed
112020	03/06/2011	MarkLam	Montana	595943	7053606	UTMZ7N WGS84	Colluvium	BrownDark	Silt	ModerateSE	C	40	Dry	Good	ForestMixed
112021	03/06/2011	MarkLam	Montana	595982	7053563	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	30	Dry	Good	ForestMixed
112022	03/06/2011	MarkLam	Montana	595989	7053567	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	30	Dry	Good	ForestMixed
112023	03/06/2011	MarkLam	Montana	596012	7053531	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	30	Dry	Good	ForestMixed
112024	03/06/2011	MarkLam	Montana	596050	7053498	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateSE	C	80	Dry	Excellent	ForestMixed
112025	03/06/2011	MarkLam	Montana	596087	7053465	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
112026	03/06/2011	MarkLam	Montana	596125	7053441	UTMZ7N WGS84	Colluvium	Grey	Sand	ModerateSE	C	60	Dry	Excellent	ForestMixed
112027	03/06/2011	MarkLam	Montana	596157	7053395	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
112028	03/06/2011	MarkLam	Montana	596207	7053364	UTMZ7N WGS84	Lacustrian	Grey	Clay	Flat	B	40	Frozen	Poor	BurnOld
112029	04/06/2011	MarkLam	Montana	593901	7051776	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	60	Dry	Excellent	BurnOld
112030	04/06/2011	MarkLam	Montana	593822	7051786	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Excellent	BurnOld
112031	04/06/2011	MarkLam	Montana	593781	7051804	UTMZ7N WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	BurnOld
112032	04/06/2011	MarkLam	Montana	593736	7051815	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateW	C	80	Dry	Excellent	BurnOld
112033	04/06/2011	MarkLam	Montana	593684	7051830	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateW	C	80	Dry	Excellent	BurnOld
112034	04/06/2011	MarkLam	Montana	593637	7051852	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Dry	Excellent	BurnOld
112035	04/06/2011	MarkLam	Montana	593591	7051857	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
112036	04/06/2011	MarkLam	Montana	593534	7051872	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateW	C	70	Dry	Excellent	BurnOld
112037	04/06/2011	MarkLam	Montana	593921	7051731	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Excellent	BurnOld
112038	04/06/2011	MarkLam	Montana	593951	7051701	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	BurnOld
112039	04/06/2011	MarkLam	Montana	593980	7051666	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	80	Dry	Excellent	ForestMixed
112040	04/06/2011	MarkLam	Montana	594023	7051629	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
112041	04/06/2011	MarkLam	Montana	594060	7051597	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateSE	C	80	Dry	Excellent	ForestMixed
112042	04/06/2011	MarkLam	Montana	594102	7051560	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry	Good	ForestMixed
112043	04/06/2011	MarkLam	Montana	594115	7051515	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
112044	04/06/2011	MarkLam	Montana	594115	7051506	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
112045	04/06/2011	MarkLam	Montana	594362	7051087	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
112046	04/06/2011	MarkLam	Montana	594327	7051116	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
112047	04/06/2011	MarkLam	Montana	594302	7051157	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
112048	04/06/2011	MarkLam	Montana	594280	7051213	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateS	C	40	Dry	Good	ForestMixed
112049	04/06/2011	MarkLam	Montana	594259	7051249	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Good	ForestMixed
112050	04/06/2011	MarkLam	Montana	594240	7051295	UTMZ7N WGS84	Colluvium	Orange	Clay	ModerateS	C	50	Dry	Good	ForestMixed
112051	04/06/2011	MarkLam	Montana	594204	7051346	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestMixed
112052	04/06/2011	MarkLam	Montana	594190	7051383	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
112053	04/06/2011	MarkLam	Montana	594160	7051423	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
112054	04/06/2011	MarkLam	Montana	594142	7051470	UTMZ7N WGS84	Colluvium	Brown	Sand	SteepS	C	50	Dry	Excellent	ForestMixed
112055	05/06/2011	MarkLam	Montana				Lacustrian	Grey	Clay	Flat	B	80	Moist	Good	BurnNew
112056	05/06/2011	MarkLam	Montana	596980	7050397	UTMZ7N WGS84	Lithosoil	Brown	Silt	Flat	C	30	Moist	Good	BurnNew
112057	05/06/2011	MarkLam	Montana	596933	7050401	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	40	Moist	Poor	BurnNew
112058	05/06/2011	MarkLam	Montana	596880	7050404	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	70	Moist	Excellent	BurnNew
112059	05/06/2011	MarkLam	Montana	596785	7050423	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist	Excellent	ForestMixed
112060	05/06/2011	MarkLam	Montana	596752	7050426	UTMZ7N WGS84	Colluvium	Brown	Clay	Flat	C	40	Frozen	Poor	ForestMixed
112061	05/06/2011	MarkLam	Montana	596490	7050464	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateN	C	50	Dry	Good	
112062	05/06/2011	MarkLam	Montana	596453	7050446	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateNW	C	40	Dry	Good	ForestBlackSpruce
112063	05/06/2011	MarkLam	Montana	596411	7050413	UTMZ7N WGS84	Lithosoil	BrownLight	Silt	Flat	B	20	Dry	Poor	ForestBlackSpruce
112064	05/06/2011	MarkLam	Montana	596369	7050386	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Dry	Good	ForestMixed
112065	05/06/2011	MarkLam	Montana	596338	7050332	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Frozen	Poor	ForestMixed
112066	05/06/2011	MarkLam	Montana	596217	7050294	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSW	C	80	Dry	Excellent	ForestMixed
112067	05/06/2011	MarkLam	Montana	596160	7050275	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
112068	06/06/2011	MarkLam	Montana	598762	7052140	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Good	BurnOld
112069	06/06/2011	MarkLam	Montana	598807	7052134	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld
112070	06/06/2011	MarkLam	Montana	598861	7052133	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	80	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
112071	06/06/2011	MarkLam	Montana	598896	7052130	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
112072	06/06/2011	MarkLam	Montana	598931	7052107	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	C	70	Dry	Excellent	BurnOld
112073	07/06/2011	MarkLam	Montana	598995	7052093	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Poor	BurnNew
112074	06/06/2011	MarkLam	Montana	599037	7052077	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	40	Dry	Good	BurnNew
112075	06/06/2011	MarkLam	Montana	599085	7052042	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	40	Dry	Good	BurnOld
112076	06/06/2011	MarkLam	Montana	599119	7052004	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	40	Dry	Good	BurnOld
112077	06/06/2011	MarkLam	Montana	599162	7051993	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	20	Dry	Poor	BurnOld
112078	06/06/2011	MarkLam	Montana	599208	7051954	UTMZ7N WGS84	Soil	Brown	Silt	ModerateSE	C	30	Dry	Good	BurnOld
112079	06/06/2011	MarkLam	Montana	599237	7051914	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
112080	06/06/2011	MarkLam	Montana	599275	7051878	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	50	Dry	Good	BurnOld
112081	06/06/2011	MarkLam	Montana	599306	7051857	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	30	Dry	Poor	BurnOld
112082	06/06/2011	MarkLam	Montana	599349	7051829	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Dry	Good	BurnOld
112083	06/06/2011	MarkLam	Montana	599404	7051795	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	30	Dry	Poor	BurnOld
112084	06/06/2011	MarkLam	Montana	599439	7051763	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	70	Dry	Excellent	BurnOld
112085	06/06/2011	MarkLam	Montana	599470	7051739	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	40	Dry	Good	BurnOld
112086	06/06/2011	MarkLam	Montana	599526	7051709	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	60	Dry	Good	BurnOld
112087	06/06/2011	MarkLam	Montana	599559	7051690	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry	Good	BurnOld
112088	06/06/2011	MarkLam	Montana	599595	7051686	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	90	Dry	Excellent	BurnOld
112089	06/06/2011	MarkLam	Montana	599655	7051670	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
112090	07/06/2011	MarkLam	Montana	599655	7051670	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
112091	06/06/2011	MarkLam	Montana	599698	7051660	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
112092	06/06/2011	MarkLam	Montana	599758	7051652	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
112093	06/06/2011	MarkLam	Montana	599801	7051626	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry	Good	BurnOld
112094	06/06/2011	MarkLam	Montana	599861	7051630	UTMZ7N WGS84	Lacustrian	Grey	Clay	ModerateSE	B	60	Wet	Poor	BurnOld
112098	07/06/2011	MarkLam	Montana	598639	7053264	UTMZ7N WGS84	Regolith	Grey	Clay	ModerateNE	B	40	Wet	Poor	BurnNew
112099	07/06/2011	MarkLam	Montana	598669	7053309	UTMZ7N WGS84	Regolith	Grey	Silt	ModerateNE	B	50	Wet	Poor	BurnNew
112100	07/06/2011	MarkLam	Montana	598692	7053346	UTMZ7N WGS84	Regolith	Grey	Silt	Swamp	B	50	Wet	Poor	BurnNew
112101	07/06/2011	MarkLam	Montana	598695	7053402	UTMZ7N WGS84	Colluvium	Grey	Silt	Swamp	B	40	Frozen	Poor	BurnNew
112102	07/06/2011	MarkLam	Montana	598706	7053461	UTMZ7N WGS84	Colluvium	Grey	Clay	Swamp	B	40	Frozen	Poor	BurnNew
112103	08/06/2011	MarkLam	Montana	598815	7053635	UTMZ7N WGS84	Colluvium	Grey	Silt	Swamp	B	40	Wet	Poor	BurnNew
112104	07/06/2011	MarkLam	Montana	598844	7053719	UTMZ7N WGS84	Regolith	Grey	Clay	Swamp	B	40	Wet	Poor	BurnNew
112106	07/06/2011	MarkLam	Montana	598931	7053901	UTMZ7N WGS84	Colluvium	Grey	Silt	DrainageSeasonal	B	40	Wet	Poor	BurnNew
112107	07/06/2011	MarkLam	Montana	598954	7053942	UTMZ7N WGS84	Colluvium	Brown	Silt	DrainageSeasonal	B	30	Wet	Poor	BurnNew
112109	08/06/2011	MarkLam	Montana	599021	7054037	UTMZ7N WGS84	Colluvium	Brown	Silt	DrainageSeasonal	B	40	Wet	Poor	BurnNew
112110	07/06/2011	MarkLam	Montana	599072	7054073	UTMZ7N WGS84	Colluvium	Brown	Silt	DrainageSeasonal	B	30	Wet	Poor	BurnNew
113001	03/06/2011	LauraRatcliffe	Montana	594252	7054171	UTMZ7N WGS84	Soil	BrownDark	Sand	ModerateSE	C	40	Dry	Poor	ForestBlackSpruce
113002	03/06/2011	LauraRatcliffe	Montana	594297	7054137	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateSE	C	70	Frozen	Excellent	BurnOld
113003	03/06/2011	LauraRatcliffe	Montana	594327	7054072	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateSE	C	40	Dry	Good	ForestBlackSpruce
113004	03/06/2011	LauraRatcliffe	Montana	594289	7054034	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateSE	C	60	Dry	Good	ForestBlackSpruce
113005	03/06/2011	LauraRatcliffe	Montana	594280	7053925	UTMZ7N WGS84	Colluvium	Orange	Silt	SteepSE	C	80	Dry	Excellent	BurnOld
113006	03/06/2011	LauraRatcliffe	Montana	594320	7053886	UTMZ7N WGS84	Colluvium	Green	Silt	ModerateSE	C	80	Dry	Excellent	BurnOld
113007	03/06/2011	LauraRatcliffe	Montana	594332	7053831	UTMZ7N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	40	Moist	Poor	BurnOld
113008	03/06/2011	LauraRatcliffe	Montana	594339	7053777	UTMZ7N WGS84	Lithosoil	Brown	Silt	ModerateSE	C	60	Moist	Good	BurnOld
113009	03/06/2011	LauraRatcliffe	Montana	594351	7053729	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	50	Dry	Good	ForestMixed
113010	03/06/2011	LauraRatcliffe	Montana	594369	7053697	UTMZ7N WGS84	Colluvium	Orange	Silt	ModerateSE	C	80	Dry	Excellent	ForestMixed
113011	03/06/2011	LauraRatcliffe	Montana	594432	7053634	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
113012	03/06/2011	LauraRatcliffe	Montana	594529	7053294	UTMZ7N WGS84									
113013	03/06/2011	LauraRatcliffe	Montana				Colluvium	Orange		Depression	C	40	Dry	Good	ForestMixed
113014	03/06/2011	LauraRatcliffe	Montana	594544	7053236	UTMZ7N WGS84	Colluvium	Red	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
113015	03/06/2011	LauraRatcliffe	Montana	594557	7053186	UTMZ7N WGS84	Colluvium	Green	Sand	ModerateE	C	40	Dry	Good	ForestMixed
113016	03/06/2011	LauraRatcliffe	Montana	594554	7053139	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateE	C	70	Dry	Excellent	ForestMixed
113017	03/06/2011	LauraRatcliffe	Montana	594606	7053090	UTMZ7N WGS84	Colluvium	Brown		ModerateE	C	30	Dry	Good	ForestMixed
113018	04/06/2011	LauraRatcliffe	Montana	595064	7050302	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
113019	04/06/2011	LauraRatcliffe	Montana	595060	7050351	UTMZ7N WGS84	Colluvium	BrownDark	sand	ModerateN	C	50	Dry	Good	ForestBlackSpruce
113020	04/06/2011	LauraRatcliffe	Montana	595039	7050404	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateN	C	50	Moist	Good	ForestBlackSpruce
113021	04/06/2011	LauraRatcliffe	Montana	595043	7050448	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
113022	04/06/2011	LauraRatcliffe	Montana	595043	7050491	UTMZ7N WGS84	Colluvium	Orange	sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
113023	04/06/2011	LauraRatcliffe	Montana	595045	7050541	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	70	Moist	Excellent	ForestBlackSpruce
113024	04/06/2011	LauraRatcliffe	Montana	595048	7050587	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Moist	Good	ForestBlackSpruce
113025	04/06/2011	LauraRatcliffe	Montana	595043	7050646	UTM27N WGS84	Colluvium	Brown	sand	ModerateN	C	30	Moist	Good	ForestBlackSpruce
113026	04/06/2011	LauraRatcliffe	Montana	595045	7050691	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	45	Moist	Good	ForestBlackSpruce
113027	04/06/2011	LauraRatcliffe	Montana	595046	7050742	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Good	ForestBlackSpruce
113028	04/06/2011	LauraRatcliffe	Montana	595064	7050791	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
113029	04/06/2011	LauraRatcliffe	Montana	595051	7050836	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Dry	Good	ForestBlackSpruce
113030	04/06/2011	LauraRatcliffe	Montana	595062	7050898	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Dry	Good	ForestBlackSpruce
113031	04/06/2011	LauraRatcliffe	Montana	595050	7050944	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	30	Dry	Good	ForestBlackSpruce
113032	04/06/2011	LauraRatcliffe	Montana	595122	7051145	UTM27N WGS84	Colluvium	Green	Sand	ModerateN	C	30	Dry	Good	ForestBlackSpruce
113034	04/06/2011	LauraRatcliffe	Montana	595089	7050243	UTM27N WGS84	Colluvium	Orange	Sand	ModerateN	C	50	Moist	Good	ForestBlackSpruce
113035	06/06/2011	LauraRatcliffe	Montana	597333	7050074	UTM27N WGS84	Lithosoil	Grey	Clay	Ridge	B	30	Dry	Poor	ForestMixed
113036	06/06/2011	LauraRatcliffe	Montana	597381	7050083	UTM27N WGS84	Regolith	Brown	Silt	Ridge	B	20	Dry	Poor	ForestMixed
113037	06/06/2011	LauraRatcliffe	Montana	597417	7050109	UTM27N WGS84	Lithosoil	Grey	Clay	Ridge	B	30	Dry	Poor	ForestMixed
113038	06/06/2011	LauraRatcliffe	Montana	597469	7050119	UTM27N WGS84	Lithosoil	Grey	Clay	Ridge	C	70	Dry	Good	ForestMixed
113039	06/06/2011	LauraRatcliffe	Montana	597522	7050135	UTM27N WGS84	Soil	Grey	Clay	Ridge	B	30	Dry	Poor	ForestMixed
113040	06/06/2011	LauraRatcliffe	Montana	597521	7050132	UTM27N WGS84	Soil	Grey	Clay	Ridge	B	30	Dry	Poor	ForestMixed
113041	06/06/2011	LauraRatcliffe	Montana	597579	7050148	UTM27N WGS84	Soil	Grey	Clay	Ridge		30	Dry	Poor	ForestMixed
113042	06/06/2011	LauraRatcliffe	Montana	597622	7050161	UTM27N WGS84	Soil	Grey	Clay	Ridge	B	40	Dry	Poor	ForestMixed
113043	06/06/2011	LauraRatcliffe	Montana	597667	7050168	UTM27N WGS84	Soil	Grey	Clay	Ridge	B	40	Dry	Poor	ForestMixed
113044	06/06/2011	LauraRatcliffe	Montana	597736	7050178	UTM27N WGS84	Soil	Grey	Clay	Ridge	B	40	Dry	Good	ForestMixed
113045	06/06/2011	LauraRatcliffe	Montana	597772	7050206	UTM27N WGS84	Soil	Grey	Clay	Ridge	B	60	Moist	Poor	ForestMixed
113046	06/06/2011	LauraRatcliffe	Montana	597811	7050219	UTM27N WGS84	Soil	Black	Clay	ModerateNE	B	60	Wet	Good	ForestMixed
113047	06/06/2011	LauraRatcliffe	Montana	597848	7050236	UTM27N WGS84	Soil	BrownLight	Silt	ModerateNE	B	40	Wet	Good	ForestMixed
113048	06/06/2011	LauraRatcliffe	Montana	597908	7050235	UTM27N WGS84	Soil	BrownLight	Silt	ModerateNE	B	40	Wet	Good	ForestMixed
113049	06/06/2011	LauraRatcliffe	Montana	597961	7050248	UTM27N WGS84	Soil	Black	Silt	ModerateNE	B	40	Wet	Good	ForestMixed
113050	07/06/2011	LauraRatcliffe	Montana	598456	7053607	UTM27N WGS84	Regolith	Brown	Silt	ModerateNE	B	30	Wet	Good	BurnOld
113051	07/06/2011	LauraRatcliffe	Montana	598474	7053648	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	30	Moist	Good	BurnOld
113052	07/06/2011	LauraRatcliffe	Montana	598451	7053910	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
113053	07/06/2011	LauraRatcliffe	Montana	598440	7053964	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	40	Moist	Good	BurnOld
113054	07/06/2011	LauraRatcliffe	Montana	598424	7054001	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Good	BurnOld
113055	07/06/2011	LauraRatcliffe	Montana	598398	7054063	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
113056	07/06/2011	LauraRatcliffe	Montana	598385	7054111	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	20	Wet	Poor	BurnOld
113057	07/06/2011	LauraRatcliffe	Montana	598356	7054149	UTM27N WGS84									
113058	07/06/2011	LauraRatcliffe	Montana	598345	7054195	UTM27N WGS84	Soil	Grey	Clay	ModerateN	B	20	Wet	Poor	BurnOld
113059	07/06/2011	LauraRatcliffe	Montana	598347	7054238	UTM27N WGS84	Soil	Grey	Silt	ModerateNW	B	10	Wet	Poor	BurnOld
113060	07/06/2011	LauraRatcliffe	Montana	598316	7054293	UTM27N WGS84	Soil	Grey	Silt	ModerateN	B	20	Wet	Poor	BurnOld
113061	07/06/2011	LauraRatcliffe	Montana	598298	7054349	UTM27N WGS84	Soil	Grey	Clay	ModerateN	B	20	Wet	Poor	BurnOld
113062	07/06/2011	LauraRatcliffe	Montana	598285	7054382	UTM27N WGS84	Soil	Grey	Clay	ModerateN	B	20	Wet	Poor	BurnOld
113063	07/06/2011	LauraRatcliffe	Montana	598264	7054443	UTM27N WGS84	Soil	Grey	Clay	ModerateN	B	20	Wet	Poor	BurnOld
113064	07/06/2011	LauraRatcliffe	Montana	598254	7054496	UTM27N WGS84	Soil	Grey	Clay	ModerateN	B	20	Frozen	Poor	BurnOld
113065	07/06/2011	LauraRatcliffe	Montana	598254	7054497	UTM27N WGS84			Clay	ModerateN	B	20	Frozen	Poor	BurnOld
113066	07/06/2011	LauraRatcliffe	Montana	598196	7054566	UTM27N WGS84	Soil	Tan	Clay	ModerateN	B	20	Wet	Poor	BurnOld
113067	07/06/2011	LauraRatcliffe	Montana	598174	7054601	UTM27N WGS84	Soil	Grey	Clay	ModerateN	B	50	Frozen	Poor	BurnOld
113068	07/06/2011	LauraRatcliffe	Montana	598158	7054716	UTM27N WGS84	Soil	Tan	Silt	ModerateN	B	60	Wet	Good	BurnOld
113069	07/06/2011	LauraRatcliffe	Montana	598158	7054765	UTM27N WGS84	Soil	Grey		ModerateN	B	20	Wet	Poor	BurnOld
113746	07/08/2011	HugoGirard	Montana	598859	7052609	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	B	70	Moist	Poor	BurnOld
113747	07/08/2011	HugoGirard	Montana	598800	7052592	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	B	80	Moist	Good	BurnOld
113748	07/08/2011	HugoGirard	Montana	598756	7052564	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	B	40	Moist	Poor	BurnOld
113749	07/08/2011	HugoGirard	Montana	598685	7052517	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	B	30	Moist	Poor	BurnOld
113750	07/08/2011	HugoGirard	Montana	598639	7052490	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	B	80	Moist	Good	BurnOld
113751	07/08/2011	HugoGirard	Montana	598595	7052466	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	100	Moist	Good	BurnOld
113752	07/08/2011	HugoGirard	Montana	598552	7052444	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	90	Moist	Good	BurnOld
113753	07/08/2011	HugoGirard	Montana	598510	7052424	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	70	Dry	Excellent	BurnOld
113754	07/08/2011	HugoGirard	Montana	598462	7052398	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Dry	Good	BurnOld
113755	07/08/2011	HugoGirard	Montana	598409	7052374	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Moist	Good	BurnOld
113756	07/08/2011	HugoGirard	Montana	598364	7052352	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	70	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
113757	07/08/2011	HugoGirard	Montana	598324	7052326	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Dry	Good	BurnOld
113758	07/08/2011	HugoGirard	Montana	598240	7052276	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Dry	Good	BurnOld
113759	07/08/2011	HugoGirard	Montana	598203	7052244	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
113760	07/08/2011	HugoGirard	Montana	598139	7052226	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	70	Dry	Good	BurnOld
113761	07/08/2011	HugoGirard	Montana	598101	7052202	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry	Good	BurnOld
113762	07/08/2011	HugoGirard	Montana	598060	7052175	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	70	Dry	Good	BurnOld
113763	07/08/2011	HugoGirard	Montana	598024	7052150	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	BurnOld
113764	07/08/2011	HugoGirard	Montana	597976	7052132	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	50	Moist	Excellent	ForestBlackSpruce
113765	07/08/2011	HugoGirard	Montana	597928	7052101	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	50	Dry	Good	ForestBlackSpruce
113766	07/08/2011	HugoGirard	Montana	597880	7052079	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	70	Dry	Good	ForestBlackSpruce
113767	07/08/2011	HugoGirard	Montana	597835	7052056	UTM27N WGS84	Colluvium	Brown	Silt	Drainage	B	60	Dry	Good	ForestMixed
113768	07/08/2011	HugoGirard	Montana	597804	7052034	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	70	Moist	Good	ForestMixed
113769	07/08/2011	HugoGirard	Montana	597756	7051986	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	ForestMixed
113770	07/08/2011	HugoGirard	Montana	597711	7051978	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
113771	07/08/2011	HugoGirard	Montana	597663	7051952	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Moist	Good	ForestMixed
113772	07/08/2011	HugoGirard	Montana	597612	7051933	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
113773	07/08/2011	HugoGirard	Montana	597542	7051903	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	ForestMixed
113774	07/08/2011	HugoGirard	Montana	597483	7051873	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Poor	ForestMixed
113775	07/08/2011	HugoGirard	Montana	597442	7051862	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
113776	07/08/2011	HugoGirard	Montana	597403	7051830	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	80	Dry	Excellent	ForestMixed
113777	07/08/2011	HugoGirard	Montana	597351	7051811	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	50	Moist	Excellent	ForestMixed
113778	07/08/2011	HugoGirard	Montana	597312	7051782	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	ForestMixed
113779	08/08/2011	HugoGirard	Montana	599947	7050585	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	70	Dry	Excellent	BurnOld
113780	08/08/2011	HugoGirard	Montana	599902	7050559	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	100	Dry	Good	BurnOld
113781	08/08/2011	HugoGirard	Montana	599856	7050536	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	80	Dry	Good	BurnOld
113782	08/08/2011	HugoGirard	Montana	599811	7050508	UTM27N WGS84	Colluvium	Blue	Clay	ModerateNE	C	110	Moist	Excellent	BurnOld
113783	08/08/2011	HugoGirard	Montana	599773	7050487	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	70	Dry	Good	BurnOld
113784	08/08/2011	HugoGirard	Montana	599727	7050467	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Dry	Excellent	BurnOld
113785	08/08/2011	HugoGirard	Montana	599679	7050438	UTM27N WGS84	Colluvium	Grey	Silt	ModerateE	C	100	Dry	Good	BurnOld
113786	08/08/2011	HugoGirard	Montana	599638	7050424	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Dry	Good	BurnOld
113787	08/08/2011	HugoGirard	Montana	599591	7050393	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	BurnOld
113788	08/08/2011	HugoGirard	Montana	599545	7050374	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	70	Dry	Good	BurnOld
113789	08/08/2011	HugoGirard	Montana	599500	7050353	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
113791	08/08/2011	HugoGirard	Montana	599457	7050321	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	80	Dry	Excellent	BurnOld
113792	08/08/2011	HugoGirard	Montana	599410	7050295	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	100	Dry	Excellent	BurnOld
113793	08/08/2011	HugoGirard	Montana	599370	7050274	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNW	C	80	Dry	Excellent	BurnOld
113794	08/08/2011	HugoGirard	Montana	599319	7050241	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	80	Dry	Excellent	BurnOld
113795	08/08/2011	HugoGirard	Montana	599284	7050225	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Moist	Excellent	BurnOld
113796	08/08/2011	HugoGirard	Montana	599235	7050207	UTM27N WGS84	Colluvium	Grey	Silt	ModerateW	B	40	Moist	Good	BurnOld
113797	08/08/2011	HugoGirard	Montana	599197	7050183	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	BurnOld
113798	08/08/2011	HugoGirard	Montana	599242	7050096	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	90	Moist	Excellent	BurnOld
113799	08/08/2011	HugoGirard	Montana	599280	7050113	UTM27N WGS84	Colluvium	Green	Silt	ModerateW	C	80	Moist	Excellent	BurnOld
113800	08/08/2011	HugoGirard	Montana	599325	7050141	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Dry	Good	BurnOld
113801	08/08/2011	HugoGirard	Montana	599369	7050165	UTM27N WGS84	Colluvium	Green	Silt	ModerateSW	C	90	Dry	Excellent	BurnOld
113802	08/08/2011	HugoGirard	Montana	599417	7050191	UTM27N WGS84	Colluvium	Green	Silt	ModerateSW	C	60	Dry	Good	BurnOld
113803	08/08/2011	HugoGirard	Montana	599460	7050211	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry	Excellent	BurnOld
113804	08/08/2011	HugoGirard	Montana	599499	7050235	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Good	BurnOld
113805	08/08/2011	HugoGirard	Montana	599544	7050254	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Good	BurnOld
113806	08/08/2011	HugoGirard	Montana	599593	7050286	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	30	Dry	Poor	BurnOld
113807	08/08/2011	HugoGirard	Montana	599638	7050303	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	70	Dry	Good	BurnOld
113808	08/08/2011	HugoGirard	Montana	599687	7050329	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	70	Dry	Excellent	BurnOld
113809	08/08/2011	HugoGirard	Montana	599728	7050345	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Dry	Good	BurnOld
113810	08/08/2011	HugoGirard	Montana	599781	7050364	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	30	Dry	Good	BurnOld
113811	08/08/2011	HugoGirard	Montana	599814	7050399	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateE	C	80	Dry	Excellent	BurnOld
113812	08/08/2011	HugoGirard	Montana	599866	7050411	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Dry	Good	BurnOld
113813	08/08/2011	HugoGirard	Montana	599916	7050433	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Good	BurnOld
113814	08/08/2011	HugoGirard	Montana	599941	7050470	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
113815	08/08/2011	HugoGirard	Montana	599990	7050498	UTM27N WGS84	Colluvium	Yellow	Silt	ModerateE	C	90	Dry	Excellent	BurnOld
113851	10/08/2011	HugoGirard	Montana	600730	7053561	UTM27N WGS84	Colluvium	Grey	Gravel	ModerateW	C	30	Dry	Excellent	ForestAspen
113852	10/08/2011	HugoGirard	Montana	600694	7053537	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Excellent	BurnOld
113853	10/08/2011	HugoGirard	Montana	600648	7053518	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	90	Moist	Good	BurnOld
113854	10/08/2011	HugoGirard	Montana	600608	7053501	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Moist	Good	BurnOld
113855	10/08/2011	HugoGirard	Montana	600566	7053457	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Moist	Excellent	BurnOld
113856	10/08/2011	HugoGirard	Montana	600392	7053386	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateN	B	40	Moist	Poor	DrainageBrush
113857	10/08/2011	HugoGirard	Montana	600335	7053363	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	70	Moist	Good	BurnOld
113858	10/08/2011	HugoGirard	Montana	600283	7053321	UTM27N WGS84	Colluvium	Grey	Clay	ModerateN	B	100	Moist	Good	BurnOld
113859	10/08/2011	HugoGirard	Montana	600244	7053311	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateN	B	70	Moist	Good	BurnOld
113860	10/08/2011	HugoGirard	Montana	600203	7053285	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateN	B	100	Moist	Good	BurnOld
113861	10/08/2011	HugoGirard	Montana	600157	7053260	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateNW	B	100	Moist	Good	BurnOld
113862	10/08/2011	HugoGirard	Montana	600116	7053240	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	B	100	Moist	Good	BurnOld
113863	10/08/2011	HugoGirard	Montana	600078	7053216	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	B	100	Moist	Poor	BurnOld
113864	10/08/2011	HugoGirard	Montana	599884	7053467	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNW	B	100	Moist	Good	BurnOld
113865	10/08/2011	HugoGirard	Montana	599939	7053484	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	B	110	Moist	Good	BurnOld
113866	10/08/2011	HugoGirard	Montana	600103	7053566	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSW	B	60	Moist	Good	BurnOld
113867	10/08/2011	HugoGirard	Montana	600155	7053597	UTM27N WGS84	Colluvium	BrownDark	Clay	ModerateSW	B	40	Moist	Good	BurnOld
113868	10/08/2011	HugoGirard	Montana	600197	7053622	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	80	Moist	Excellent	BurnOld
113869	10/08/2011	HugoGirard	Montana	600249	7053640	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Moist	Good	BurnOld
113870	10/08/2011	HugoGirard	Montana	600289	7053667	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Moist	Good	BurnOld
113871	10/08/2011	HugoGirard	Montana	600321	7053685	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Moist	Good	BurnOld
113872	10/08/2011	HugoGirard	Montana	600352	7053707	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	80	Moist	Good	BurnOld
113873	10/08/2011	HugoGirard	Montana	600409	7053739	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Good	BurnOld
113874	10/08/2011	HugoGirard	Montana	600455	7053760	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	70	Moist	Good	BurnOld
113875	10/08/2011	HugoGirard	Montana	600492	7053793	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Moist	Good	BurnOld
113876	10/08/2011	HugoGirard	Montana	600552	7053803	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	80	Moist	Good	BurnOld
113877	11/08/2011	HugoGirard	Montana	601322	7048739	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	80	Dry	Excellent	BurnOld
113878	11/08/2011	HugoGirard	Montana	601301	7048789	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	BurnOld
113879	11/08/2011	HugoGirard	Montana	601273	7048837	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	BurnOld
113880	11/08/2011	HugoGirard	Montana	601251	7048888	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	BurnOld
113881	11/08/2011	HugoGirard	Montana	601236	7048933	UTM27N WGS84	Colluvium	Green	Silt	Ridge	C	100	Dry	Excellent	BurnOld
113882	11/08/2011	HugoGirard	Montana	601213	7048970	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Excellent	BurnOld
113883	11/08/2011	HugoGirard	Montana	601192	7049022	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	100	Moist	Excellent	BurnOld
113884	11/08/2011	HugoGirard	Montana	601171	7049074	UTM27N WGS84	Colluvium	Yellow	Silt	Ridge	C	100	Dry	Excellent	BurnOld
113885	11/08/2011	HugoGirard	Montana	601155	7049111	UTM27N WGS84	Colluvium	Green	Silt	Ridge	C	70	Dry	Excellent	BurnOld
113886	11/08/2011	HugoGirard	Montana	601128	7049156	UTM27N WGS84	Colluvium	Orange	Silt	Ridge	C	50	Dry	Excellent	BurnOld
113887	11/08/2011	HugoGirard	Montana	601122	7049186	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Excellent	BurnOld
113888	11/08/2011	HugoGirard	Montana	601411	7048783	UTM27N WGS84	Colluvium	BrownDark	Silt	SteepNE	C	70	Dry	Excellent	BurnOld
113889	11/08/2011	HugoGirard	Montana	601385	7048830	UTM27N WGS84	Colluvium	Orange	Silt	SteepNE	C	30	Dry	Excellent	BurnOld
113890	11/08/2011	HugoGirard	Montana	601370	7048871	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	40	Moist	Excellent	BurnOld
113891	11/08/2011	HugoGirard	Montana	601327	7048964	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	30	Dry	Good	BurnOld
113892	11/08/2011	HugoGirard	Montana	601345	7048914	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	C	60	Dry	Excellent	BurnOld
113894	11/08/2011	HugoGirard	Montana	601307	7049011	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	30	Dry	Good	BurnOld
113895	11/08/2011	HugoGirard	Montana	601279	7049061	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	50	Dry	Excellent	BurnOld
113896	11/08/2011	HugoGirard	Montana	601266	7049103	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	70	Moist	Excellent	BurnOld
113897	11/08/2011	HugoGirard	Montana	601235	7049145	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	40	Dry	Excellent	BurnOld
113898	11/08/2011	HugoGirard	Montana	601229	7049192	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	40	Dry	Good	BurnOld
113899	11/08/2011	HugoGirard	Montana	601195	7049233	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	30	Dry	Good	BurnOld
113900	11/08/2011	HugoGirard	Montana	601154	7049265	UTM27N WGS84	Colluvium	Brown	Silt	SteepNE	B	50	Dry	Good	BurnOld
113901	11/08/2011	HugoGirard	Montana	601121	7049293	UTM27N WGS84	Colluvium	Grey	Clay	SteepNE	B	40	Frozen	Poor	BurnOld
114001	07/06/2011	LeslyBalderas	Montana	598702	7052193	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Good	BurnOld
114002	07/06/2011	LeslyBalderas	Montana	598679	7052232	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
114003	07/06/2011	LeslyBalderas	Montana	598673	7052284	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
114004	07/06/2011	LeslyBalderas	Montana	598672	7052339	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
114005	07/06/2011	LeslyBalderas	Montana	598651	7052377	UTM27N WGS84	Colluvium	Grey	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
114006	07/06/2011	LeslyBalderas	Montana	598659	7052430	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
114007	07/06/2011	LeslyBalderas	Montana	598643	7052481	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Moist	Good	BurnOld
114008	07/06/2011	LeslyBalderas	Montana	598638	7052528	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	70	Moist	Excellent	BurnOld
114009	07/06/2011	LeslyBalderas	Montana	598628	7052579	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	B	30	Wet	Good	BurnOld
114010	07/06/2011	LeslyBalderas	Montana	598622	7052623	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	B	70	Wet	Good	BurnOld
114011	07/06/2011	LeslyBalderas	Montana	598607	7052682	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	B	60	Wet	Good	BurnOld
114012	07/06/2011	LeslyBalderas	Montana	598591	7052726	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	B	50	Wet	Good	BurnOld
114013	07/06/2011	LeslyBalderas	Montana	598576	7052815	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	B	40	Wet	Good	BurnOld
114014	07/06/2011	LeslyBalderas	Montana	598565	7052872	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	C	60	Moist	Good	BurnOld
114015	07/06/2011	LeslyBalderas	Montana	598564	7052871	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	C	50	Moist	Good	BurnOld
114016	07/06/2011	LeslyBalderas	Montana	598559	7052921	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	C	80	Moist	Good	BurnOld
114017	07/06/2011	LeslyBalderas	Montana	598549	7052980	UTM27N WGS84	Soil	Brown	Silt	ModerateN	B	30	Wet	Poor	BurnOld
114018	07/06/2011	LeslyBalderas	Montana	598540	7053028	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	C	70	Moist	Excellent	BurnOld
114019	07/06/2011	LeslyBalderas	Montana	598526	7053066	UTM27N WGS84									
114020	07/06/2011	LeslyBalderas	Montana	598498	7053159	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	C	50	Moist	Good	BurnOld
114021	07/06/2011	LeslyBalderas	Montana	598493	7053206	UTM27N WGS84	Lithosoil	BrownDark	Silt	ModerateN	C	40	Moist	Good	BurnOld
114022	07/06/2011	LeslyBalderas	Montana	598487	7053314	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateN	C	70	Moist	Good	BurnOld
114023	07/06/2011	LeslyBalderas	Montana	598455	7053408	UTM27N WGS84	Soil	Brown	Silt	ModerateN	C	60	Moist	Good	BurnOld
114024	07/06/2011	LeslyBalderas	Montana	598446	7053462	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	C	40	Moist	Good	BurnOld
114025	07/06/2011	LeslyBalderas	Montana	598465	7053507	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
114026	07/06/2011	LeslyBalderas	Montana	598479	7053558	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	C	70	Moist	Excellent	BurnOld
114027	08/06/2011	LeslyBalderas	Montana	600292	7054726	UTM27N WGS84									
114028	08/06/2011	LeslyBalderas	Montana	600261	7054689	UTM27N WGS84	Soil	Tan	Silt	ModerateW	C	40	Dry	Excellent	BurnOld
114029	08/06/2011	LeslyBalderas	Montana	600228	7054662	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Excellent	BurnOld
114030	08/06/2011	LeslyBalderas	Montana	600190	7054609	UTM27N WGS84	Colluvium	Tan	Sand	SteepW	C	40	Dry	Excellent	BurnOld
114031	08/06/2011	LeslyBalderas	Montana	600160	7054573	UTM27N WGS84	Colluvium	Tan	Sand	SteepW	C	40	Dry	Excellent	BurnOld
114032	08/06/2011	LeslyBalderas	Montana	600120	7054564	UTM27N WGS84	Colluvium	Brown	Sand	SteepW	C	40	Dry	Excellent	BurnOld
114033	08/06/2011	LeslyBalderas	Montana	600092	7054514	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	30	Dry	Excellent	BurnOld
114034	08/06/2011	LeslyBalderas	Montana	600057	7054468	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Excellent	BurnOld
114035	08/06/2011	LeslyBalderas	Montana	600018	7054434	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	80	Dry	Excellent	BurnOld
114036	08/06/2011	LeslyBalderas	Montana	599982	7054400	UTM27N WGS84	Soil	Grey	Silt	Flat	C	70	Moist	Good	BurnOld
114037	08/06/2011	LeslyBalderas	Montana	599952	7054356	UTM27N WGS84	Colluvium	Grey	Silt	Flat	C	80	Dry	Excellent	BurnOld
114038	08/06/2011	LeslyBalderas	Montana	599909	7054324	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	70	Dry	Excellent	BurnOld
114039	08/06/2011	LeslyBalderas	Montana	599885	7054297	UTM27N WGS84	Colluvium	Tan	Sand	ModerateSW	C	60	Dry	Excellent	BurnOld
114040	08/06/2011	LeslyBalderas	Montana	599835	7054264	UTM27N WGS84	Colluvium	Grey	Sand	Flat	C	60	Dry	Excellent	BurnOld
114041	08/06/2011	LeslyBalderas	Montana	599800	7054222	UTM27N WGS84	Colluvium	Grey	Sand	Flat	C	60	Dry	Excellent	BurnOld
114042	08/06/2011	LeslyBalderas	Montana	599757	7054198	UTM27N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Dry	Excellent	BurnOld
114043	08/06/2011	LeslyBalderas	Montana	599727	7054167	UTM27N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Dry	Excellent	BurnOld
114044	08/06/2011	LeslyBalderas	Montana	599682	7054134	UTM27N WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	40	Dry	Excellent	BurnOld
114045	08/06/2011	LeslyBalderas	Montana	599644	7054103	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	30	Dry	Excellent	BurnOld
114046	08/06/2011	LeslyBalderas	Montana	599603	7054072	UTM27N WGS84	Colluvium	Tan	Sand	ModerateSW	C	40	Dry	Excellent	BurnOld
114047	08/06/2011	LeslyBalderas	Montana	599569	7054041	UTM27N WGS84	Colluvium	RustyRed	Sand	Flat	C	50	Dry	Excellent	BurnOld
114048	08/06/2011	LeslyBalderas	Montana	599536	7054001	UTM27N WGS84	Colluvium	Green	Sand	Flat	C	80	Dry	Excellent	BurnOld
114049	08/06/2011	LeslyBalderas	Montana	599490	7053971	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	80	Dry	Excellent	BurnOld
114050	08/06/2011	LeslyBalderas	Montana	599451	7053949	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	C	60	Dry	Excellent	BurnOld
114051	08/06/2011	LeslyBalderas	Montana	599400	7053910	UTM27N WGS84	Colluvium	Brown	Sand	SteepW	C	50	Dry	Excellent	BurnOld
114532	07/08/2011	LaurenWilson	Montana	599380	7051630	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	60	Dry	Good	BurnOld
114533	07/08/2011	LaurenWilson	Montana	599335	7051613	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	40	Dry	Good	BurnOld
114534	07/08/2011	LaurenWilson	Montana	599285	7051595	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	40	Dry	Poor	BurnOld
114535	07/08/2011	LaurenWilson	Montana	599245	7051572	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	B	60	Dry	Good	BurnOld
114536	07/08/2011	LaurenWilson	Montana	599208	7051553	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	60	Dry	Good	BurnOld
114537	07/08/2011	LaurenWilson	Montana	599161	7051520	UTM27N WGS84	Colluvium	Brown	Clay	ModerateE	B	50	Moist	Poor	BurnOld
114538	07/08/2011	LaurenWilson	Montana	599115	7051504	UTM27N WGS84	Colluvium	Green	Silt	ModerateE	C	80	Dry	Good	BurnOld
114539	07/08/2011	LaurenWilson	Montana	599073	7051467	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	60	Dry	Good	BurnOld
114541	07/08/2011	LaurenWilson	Montana	599025	7051451	UTM27N WGS84	Colluvium	Green	Silt	Ridge	C	70	Dry	Good	BurnOld
114542	07/08/2011	LaurenWilson	Montana	598968	7051430	UTM27N WGS84	Colluvium	Green	Silt	Ridge	C	70	Dry	Good	BurnOld
114543	07/08/2011	LaurenWilson	Montana	598939	7051401	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	35	Moist	Good	BurnOld
114544	07/08/2011	LaurenWilson	Montana	598893	7051377	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	50	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
114545	07/08/2011	LaurenWilson	Montana	598853	7051369	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	60	Dry	Good	BurnOld
114546	07/08/2011	LaurenWilson	Montana	598804	7051330	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	70	Dry	Good	BurnOld
114547	07/08/2011	LaurenWilson	Montana	598762	7051314	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	40	Dry	Good	BurnOld
114548	07/08/2011	LaurenWilson	Montana	598717	7051289	UTM27N WGS84	Colluvium	RustyOrange	Silt	SteepSW	B	60	Moist	Good	BurnOld
114549	07/08/2011	LaurenWilson	Montana	598670	7051261	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	60	Dry	Good	BurnOld
114550	07/08/2011	LaurenWilson	Montana	598626	7051236	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist	Good	BurnOld
114551	07/08/2011	LaurenWilson	Montana	598685	7051159	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
114552	07/08/2011	LaurenWilson	Montana	598724	7051177	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	BurnOld
114553	07/08/2011	LaurenWilson	Montana	598770	7051201	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist	Good	BurnOld
114554	07/08/2011	LaurenWilson	Montana	598818	7051228	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	60	Dry	Good	BurnOld
114555	07/08/2011	LaurenWilson	Montana	598858	7051250	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	50	Dry	Good	BurnOld
114556	07/08/2011	LaurenWilson	Montana	598899	7051275	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	40	Dry	Good	BurnOld
114557	07/08/2011	LaurenWilson	Montana	598944	7051285	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	BurnOld
114558	07/08/2011	LaurenWilson	Montana	598993	7051313	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	BurnOld
114559	07/08/2011	LaurenWilson	Montana	599032	7051339	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	BurnOld
114560	07/08/2011	LaurenWilson	Montana	599078	7051371	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	100	Dry	Excellent	BurnOld
114561	07/08/2011	LaurenWilson	Montana	599122	7051397	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	50	Moist	Good	BurnOld
114562	07/08/2011	LaurenWilson	Montana	599164	7051409	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	60	Dry	Good	BurnOld
114563	07/08/2011	LaurenWilson	Montana	599203	7051435	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSW	B	80	Wet	Poor	ForestBlackSpruce
114564	07/08/2011	LaurenWilson	Montana	599261	7051470	UTM27N WGS84	Colluvium	Brown	Clay	Drainage	B	100	Wet	Poor	DrainageAlder
114565	07/08/2011	LaurenWilson	Montana	599301	7051494	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	50	Moist	Poor	BurnOld
114566	07/08/2011	LaurenWilson	Montana	599330	7051506	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Good	BurnOld
114567	07/08/2011	LaurenWilson	Montana	599387	7051532	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Good	BurnOld
114568	07/08/2011	LaurenWilson	Montana	599430	7051551	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Good	BurnOld
114569	08/08/2011	LaurenWilson	Montana	600098	7050327	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateE	B	80	Moist	Good	BurnOld
114570	08/08/2011	LaurenWilson	Montana	600043	7050291	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateE	B	40	Moist	Good	BurnOld
114571	08/08/2011	LaurenWilson	Montana	599992	7050270	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateE	B	40	Moist	Good	BurnOld
114572	08/08/2011	LaurenWilson	Montana	599943	7050239	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	30	Moist	Poor	BurnOld
114573	08/08/2011	LaurenWilson	Montana	599903	7050221	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	80	Moist	Poor	BurnOld
114574	08/08/2011	LaurenWilson	Montana	599865	7050198	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Dry	Good	BurnOld
114575	08/08/2011	LaurenWilson	Montana	599823	7050173	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Good	BurnOld
114576	08/08/2011	LaurenWilson	Montana	599770	7050149	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	70	Moist	Good	BurnOld
114577	08/08/2011	LaurenWilson	Montana	599733	7050125	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Dry	Good	BurnOld
114578	08/08/2011	LaurenWilson	Montana	599693	7050104	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Good	BurnOld
114579	08/08/2011	LaurenWilson	Montana	599635	7050082	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	80	Moist	Good	BurnOld
114580	08/08/2011	LaurenWilson	Montana	599599	7050062	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	40	Moist	Good	BurnOld
114581	08/08/2011	LaurenWilson	Montana	599553	7050032	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	30	Moist	Poor	BurnOld
114582	08/08/2011	LaurenWilson	Montana	599505	7050016	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Poor	BurnOld
114583	08/08/2011	LaurenWilson	Montana	599464	7049985	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	BurnOld
114584	08/08/2011	LaurenWilson	Montana	599417	7049959	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	BurnOld
114585	08/08/2011	LaurenWilson	Montana	599372	7049933	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	60	Wet	Poor	BurnOld
114586	08/08/2011	LaurenWilson	Montana	599329	7049913	UTM27N WGS84	Colluvium	BrownDark	Clay	Ridge	B	80	Wet	Poor	BurnOld
114587	08/08/2011	LaurenWilson	Montana	599279	7050011	UTM27N WGS84	Colluvium	BrownDark	Clay	Ridge	B	60	Wet	Poor	BurnOld
114588	08/08/2011	LaurenWilson	Montana	599334	7050029	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Poor	BurnOld
114589	08/08/2011	LaurenWilson	Montana	599379	7050057	UTM27N WGS84	Colluvium	BrownLight	Clay	Ridge	B	80	Moist	Poor	BurnOld
114591	08/08/2011	LaurenWilson	Montana	599426	7050083	UTM27N WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Poor	BurnOld
114592	08/08/2011	LaurenWilson	Montana	599467	7050107	UTM27N WGS84	Colluvium	BrownLight	Clay	Ridge	B	60	Dry	Poor	BurnOld
114593	08/08/2011	LaurenWilson	Montana	599511	7050115	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	BurnOld
114594	08/08/2011	LaurenWilson	Montana	599568	7050151	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	BurnOld
114595	08/08/2011	LaurenWilson	Montana	599606	7050173	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Poor	BurnOld
114596	08/08/2011	LaurenWilson	Montana	599644	7050195	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	60	Dry	Good	BurnOld
114597	08/08/2011	LaurenWilson	Montana	599683	7050219	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	60	Dry	Good	BurnOld
114598	08/08/2011	LaurenWilson	Montana	599726	7050246	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	50	Dry	Poor	BurnOld
114599	08/08/2011	LaurenWilson	Montana	599774	7050271	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Poor	BurnOld
114600	08/08/2011	LaurenWilson	Montana	599818	7050288	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Dry	Good	BurnOld
114601	08/08/2011	LaurenWilson	Montana	599868	7050303	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	60	Dry	Good	BurnOld
114602	08/08/2011	LaurenWilson	Montana	599922	7050337	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	30	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
114603	08/08/2011	LaurenWilson	Montana	599949	7050370	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	80	Moist	Good	BurnOld
114604	08/08/2011	LaurenWilson	Montana	599995	7050377	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	40	Moist	Good	BurnOld
114605	08/08/2011	LaurenWilson	Montana	600041	7050406	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSE	B	30	Moist	Good	BurnOld
114606	10/08/2011	LaurenWilson	Montana	596057	7049359	UTM27N WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Moist	Poor	ForestMixed
114607	10/08/2011	LaurenWilson	Montana	596098	7049394	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	90	Dry	Good	ForestMixed
114608	10/08/2011	LaurenWilson	Montana	596137	7049415	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	ForestMixed
114609	10/08/2011	LaurenWilson	Montana	596183	7049430	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	ForestMixed
114610	10/08/2011	LaurenWilson	Montana	596237	7049452	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	ForestMixed
114611	10/08/2011	LaurenWilson	Montana	596276	7049480	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	70	Dry	Good	ForestMixed
114612	10/08/2011	LaurenWilson	Montana	596319	7049505	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	40	Dry	Good	ForestMixed
114613	10/08/2011	LaurenWilson	Montana	596380	7049532	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	20	Dry	Poor	ForestMixed
114614	10/08/2011	LaurenWilson	Montana	596413	7049547	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateW	B	30	Dry	Good	ForestMixed
114615	10/08/2011	LaurenWilson	Montana	596460	7049588	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	40	Dry	Good	ForestMixed
114616	10/08/2011	LaurenWilson	Montana	596507	7049602	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	80	Dry	Good	ForestMixed
114617	10/08/2011	LaurenWilson	Montana	596541	7049623	UTM27N WGS84	Colluvium	RustyOrange	Silt	Ridge	B	60	Dry	Good	ForestMixed
114618	10/08/2011	LaurenWilson	Montana	596591	7049646	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Dry	Good	ForestMixed
114619	10/08/2011	LaurenWilson	Montana	596634	7049664	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	30	Dry	Poor	ForestMixed
114620	10/08/2011	LaurenWilson	Montana	596674	7049694	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	60	Moist	Poor	ForestBlackSpruce
114621	10/08/2011	LaurenWilson	Montana	596719	7049715	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	70	Moist	Poor	ForestBlackSpruce
114622	10/08/2011	LaurenWilson	Montana	596770	7049741	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	70	Moist	Good	ForestBlackSpruce
114623	10/08/2011	LaurenWilson	Montana	596814	7049758	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	90	Moist	Poor	ForestBlackSpruce
114624	10/08/2011	LaurenWilson	Montana	596852	7049666	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	40	Moist	Poor	ForestBlackSpruce
114625	10/08/2011	LaurenWilson	Montana	596803	7049641	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	70	Moist	Poor	ForestBlackSpruce
114626	10/08/2011	LaurenWilson	Montana	596763	7049624	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Poor	ForestBlackSpruce
114627	10/08/2011	LaurenWilson	Montana	596720	7049594	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Poor	ForestBlackSpruce
114628	10/08/2011	LaurenWilson	Montana	596671	7049578	UTM27N WGS84	Colluvium	RustyOrange	Silt	Flat	B	40	Dry	Good	ForestMixed
114629	10/08/2011	LaurenWilson	Montana	596620	7049558	UTM27N WGS84	Colluvium	Tan	Silt	Flat	C	100	Dry	Excellent	ForestMixed
114630	10/08/2011	LaurenWilson	Montana	596578	7049522	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Poor	ForestMixed
114631	10/08/2011	LaurenWilson	Montana	596536	7049497	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	60	Moist	Poor	ForestMixed
114632	10/08/2011	LaurenWilson	Montana	596490	7049487	UTM27N WGS84	Colluvium	Brown	Sand	Flat	B	70	Dry	Good	ForestMixed
114633	10/08/2011	LaurenWilson	Montana	596451	7049457	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	70	Dry	Good	ForestMixed
114634	10/08/2011	LaurenWilson	Montana	596413	7049445	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	100	Dry	Good	ForestMixed
114635	10/08/2011	LaurenWilson	Montana	596360	7049411	UTM27N WGS84	Colluvium	RustyOrange	Sand	ModerateW	B	60	Dry	Good	ForestMixed
114636	10/08/2011	LaurenWilson	Montana	596326	7049393	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateW	B	40	Dry	Good	ForestMixed
114637	10/08/2011	LaurenWilson	Montana	596274	7049366	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	ForestMixed
114638	10/08/2011	LaurenWilson	Montana	596233	7049345	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	ForestMixed
114639	10/08/2011	LaurenWilson	Montana	596185	7049320	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	ForestMixed
114641	10/08/2011	LaurenWilson	Montana	596147	7049290	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	ForestMixed
114642	10/08/2011	LaurenWilson	Montana	596108	7049283	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Moist	Poor	ForestMixed
115001	06/06/2011	NedaDokic	Montana	599323	7049170	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Good	BurnOld
115002	06/06/2011	NedaDokic	Montana	599272	7049177	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	BurnOld
115003	06/06/2011	NedaDokic	Montana	599218	7049189	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	BurnOld
115004	06/06/2011	NedaDokic	Montana	599170	7049193	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
115005	06/06/2011	NedaDokic	Montana	599123	7049192	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	C	70	Dry	Good	BurnOld
115006	06/06/2011	NedaDokic	Montana	598890	7049361	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Good	BurnOld
115007	06/06/2011	NedaDokic	Montana	598856	7049399	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	50	Wet	Poor	BurnOld
115008	06/06/2011	NedaDokic	Montana	598838	7049443	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	30	Moist	Poor	BurnOld
115009	06/06/2011	NedaDokic	Montana	598831	7049491	UTM27N WGS84	Colluvium	Grey	Silt	Flat	B	60	Moist	Poor	BurnOld
115010	06/06/2011	NedaDokic	Montana	598813	7049535	UTM27N WGS84									
115011	06/06/2011	NedaDokic	Montana	598714	7049763	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Good	BurnOld
115012	06/06/2011	NedaDokic	Montana	598684	7049798	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	60	Wet	Excellent	BurnOld
115013	06/06/2011	NedaDokic	Montana	598664	7049851	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	C	70	Moist	Good	BurnOld
115014	06/06/2011	NedaDokic	Montana	598635	7049898	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	60	Wet	Good	BurnOld
115015	06/06/2011	NedaDokic	Montana	598621	7049943	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNW	B	60	Moist	Good	BurnOld
115016	06/06/2011	NedaDokic	Montana	598331	7050362	UTM27N WGS84	Colluvium	BrownDark	Sand	SteepE	B	40	Wet	Poor	BurnNew
115017	06/06/2011	NedaDokic	Montana	598276	7050340	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Excellent	BurnOld
115018	06/06/2011	NedaDokic	Montana	598234	7050331	UTM27N WGS84									

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
115019	06/06/2011	NedaDokic	Montana	598192	7050315	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Dry	Excellent	BurnOld
115020	06/06/2011	NedaDokic	Montana	598093	7050291	UTM27N WGS84	Colluvium	Grey	Silt	Flat	B	80	Wet	Poor	BurnOld
115021	06/06/2011	NedaDokic	Montana	597994	7050258	UTM27N WGS84	Colluvium	Grey	Silt	ModerateE	B	60	Wet	Poor	BurnOld
115022	07/06/2011	NedaDokic	Montana	598708	7052191	UTM27N WGS84	Colluvium	Brown	Sand	Flat	C	30	Dry	Good	BurnOld
115023	07/06/2011	NedaDokic	Montana	598723	7052226	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	BurnOld
115024	07/06/2011	NedaDokic	Montana	598748	7052272	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
115025	07/06/2011	NedaDokic	Montana	598770	7052312	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Dry	Excellent	BurnOld
115026	07/06/2011	NedaDokic	Montana	598787	7052363	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Dry	Excellent	BurnOld
115027	07/06/2011	NedaDokic	Montana	598812	7052420	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Dry	Good	BurnOld
115028	07/06/2011	NedaDokic	Montana	598831	7052450	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Wet	Good	BurnOld
115029	07/06/2011	NedaDokic	Montana	598848	7052496	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Moist	Good	BurnNew
115030	07/06/2011	NedaDokic	Montana	598862	7052554	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Moist	Excellent	BurnNew
115031	07/06/2011	NedaDokic	Montana	598891	7052599	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	70	Dry	Excellent	BurnNew
115032	07/06/2011	NedaDokic	Montana	598910	7052650	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	60	Moist	Good	BurnNew
115033	07/06/2011	NedaDokic	Montana	598927	7052684	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	60	Wet	Good	BurnNew
115034	07/06/2011	NedaDokic	Montana	598945	7052732	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	40	Wet	Good	BurnNew
115035	07/06/2011	NedaDokic	Montana	598970	7052784	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	60	Wet	Good	BurnNew
115036	07/06/2011	NedaDokic	Montana	598989	7052825	UTM27N WGS84	Colluvium	BrownDark	Sand	ModerateN	C	70	Wet	Excellent	BurnNew
115037	07/06/2011	NedaDokic	Montana	599016	7052876	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	40	Wet	Good	BurnNew
115038	07/06/2011	NedaDokic	Montana	599040	7052963	UTM27N WGS84									
115039	07/06/2011	NedaDokic	Montana	599064	7053009	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	60	Wet	Good	BurnNew
115040	07/06/2011	NedaDokic	Montana	599095	7053096	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateN	C	60	Wet	Good	BurnNew
115041	07/06/2011	NedaDokic	Montana	599124	7053152	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Moist	Excellent	BurnNew
115042	07/06/2011	NedaDokic	Montana	599141	7053203	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Wet	Good	BurnNew
115043	07/06/2011	NedaDokic	Montana	599167	7053238	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Dry	Excellent	BurnNew
115044	07/06/2011	NedaDokic	Montana	599197	7053278	UTM27N WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
115045	07/06/2011	NedaDokic	Montana	599229	7053315	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
115046	07/06/2011	NedaDokic	Montana	599249	7053354	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	BurnNew
115047	07/06/2011	NedaDokic	Montana	599283	7053401	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	80	Dry	Excellent	BurnNew
115048	07/06/2011	NedaDokic	Montana	599315	7053432	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	60	Dry	Excellent	BurnNew
115049	07/06/2011	NedaDokic	Montana	599359	7053453	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Wet	Poor	BurnNew
115690	15/08/2011	JBHebsgaard	Montana	593652	7051544	UTM27N WGS84	Colluvium	Brown		ModerateS	B	50	Dry	Good	ForestMixed
115691	15/08/2011	JBHebsgaard	Montana	593708	7051572	UTM27N WGS84	Colluvium	Tan	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
115692	15/08/2011	JBHebsgaard	Montana	593750	7051600	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
115693	15/08/2011	JBHebsgaard	Montana	593792	7051615	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Dry	Good	ForestMixed
115694	15/08/2011	JBHebsgaard	Montana	593828	7051652	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
115695	15/08/2011	JBHebsgaard	Montana	593886	7051666	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
115696	15/08/2011	JBHebsgaard	Montana	593930	7051686	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	50	Dry	Good	ForestMixed
115697	15/08/2011	JBHebsgaard	Montana	593963	7051714	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	B	50	Dry	Good	BurnOld
115698	15/08/2011	JBHebsgaard	Montana	594011	7051739	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	50	Dry	Excellent	BurnOld
115699	15/08/2011	JBHebsgaard	Montana	594050	7051774	UTM27N WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Excellent	BurnOld
115700	15/08/2011	JBHebsgaard	Montana	594097	7051784	UTM27N WGS84	Colluvium	RustyRed	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
115701	15/08/2011	JBHebsgaard	Montana	594143	7051812	UTM27N WGS84	Colluvium	Brown		ModerateSE	B	50	Dry	Good	ForestBirch
115702	15/08/2011	JBHebsgaard	Montana	594188	7051842	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	70	Dry	Good	ForestMixed
115703	15/08/2011	JBHebsgaard	Montana	594224	7051857	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	50	Dry	Good	ForestMixed
115704	15/08/2011	JBHebsgaard	Montana	594269	7051887	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
115705	15/08/2011	JBHebsgaard	Montana	594314	7051905	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	70	Dry	Good	ForestMixed
115706	15/08/2011	JBHebsgaard	Montana	594330	7051804	UTM27N WGS84	Colluvium	Brown	Gravel	ModerateSE	B	80	Dry	Good	ForestMixed
115707	15/08/2011	JBHebsgaard	Montana	594285	7051778	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	50	Dry	Good	ForestBirch
115708	15/08/2011	JBHebsgaard	Montana	594248	7051753	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Dry	Good	ForestBirch
115709	15/08/2011	JBHebsgaard	Montana	594182	7051722	UTM27N WGS84	Colluvium	Green	Silt	ModerateSE	C	40	Dry	Excellent	ForestMixed
115710	15/08/2011	JBHebsgaard	Montana	594147	7051695	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
115711	15/08/2011	JBHebsgaard	Montana	594097	7051669	UTM27N WGS84	Colluvium	BrownLight	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
115712	15/08/2011	JBHebsgaard	Montana	594052	7051647	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
115713	15/08/2011	JBHebsgaard	Montana	594009	7051623	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
115714	15/08/2011	JBHebsgaard	Montana	593957	7051607	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
115715	15/08/2011	JBHebsgaard	Montana	593930	7051581	UTM27N WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
115716	15/08/2011	JBHebsgaard	Montana	593886	7051552	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	50	Dry	Good	ForestAspen
115717	15/08/2011	JBHebsgaard	Montana	593833	7051534	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
115718	15/08/2011	JBHebsgaard	Montana	593792	7051495	UTM27N WGS84	Colluvium	Green	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
115719	15/08/2011	JBHebsgaard	Montana	593749	7051482	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	80	Dry	Good	ForestAspen
115720	15/08/2011	JBHebsgaard	Montana	593693	7051466	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	50	Dry	Good	ForestMixed
116001	05/06/2011	JoshJudson	Montana	594568	7049627	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	80	Dry	Excellent	ForestMixed
116002	04/06/2011	JoshJudson	Montana	594560	7049683	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	90	Dry	Excellent	ForestMixed
116003	04/06/2011	JoshJudson	Montana	594544	7049735	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Dry	Good	ForestMixed
116004	04/06/2011	JoshJudson	Montana	594565	7049778	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Moist	Good	ForestMixed
116005	04/06/2011	JoshJudson	Montana	594554	7049825	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	40	Dry	Excellent	ForestMixed
116006	04/06/2011	JoshJudson	Montana	594568	7049876	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	90	Dry	Excellent	ForestMixed
116007	04/06/2011	JoshJudson	Montana	594604	7050089	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Frozen	Good	ForestMixed
116008	04/06/2011	JoshJudson	Montana	594607	7050139	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Moist	Good	ForestMixed
116009	04/06/2011	JoshJudson	Montana	594632	7050170	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Frozen	Good	ForestMixed
116010	04/06/2011	JoshJudson	Montana	594649	7050226	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNE	C	50	Moist	Excellent	ForestMixed
116011	04/06/2011	JoshJudson	Montana	594635	7050302	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Moist	Good	ForestMixed
116012	04/06/2011	JoshJudson	Montana	594648	7050332	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	60	Moist	Good	ForestMixed
116013	04/06/2011	JoshJudson	Montana	594659	7050402	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	B	20	Frozen	Good	ForestMixed
116014	07/06/2011	JoshJudson	Montana	595752	7054666	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	40	Dry	Good	BurnOld
116015	07/06/2011	JoshJudson	Montana	595752	7054665	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	40	Dry	Good	BurnOld
116016	07/06/2011	JoshJudson	Montana	595772	7054726	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	60	Dry	Good	BurnOld
116017	07/06/2011	JoshJudson	Montana	595796	7054766	UTM27N WGS84	Colluvium	Green	Sand	ModerateNE	C	40	Dry	Good	BurnOld
116018	07/06/2011	JoshJudson	Montana	595808	7054800	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
116019	07/06/2011	JoshJudson	Montana	595828	7054853	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Dry	Good	BurnOld
116020	07/06/2011	JoshJudson	Montana	595845	7054899	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	50	Dry	Good	BurnOld
116021	07/06/2011	JoshJudson	Montana	595877	7054940	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	60	Moist	Excellent	BurnOld
116022	07/06/2011	JoshJudson	Montana	595893	7054985	UTM27N WGS84	Colluvium	Green	Silt	ModerateNE	C	100	Dry	Excellent	BurnOld
116023	07/06/2011	JoshJudson	Montana	595941	7055075	UTM27N WGS84	Soil	Grey	Clay	ModerateNE	B	30	Frozen	Poor	BurnOld
116024	07/06/2011	JoshJudson	Montana	595962	7055117	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	B	40	Frozen	Poor	BurnOld
116025	07/06/2011	JoshJudson	Montana	595997	7055159	UTM27N WGS84	Lithosoil	BrownLight	Silt	ModerateNE	C	70	Wet	Poor	BurnOld
116026	07/06/2011	JoshJudson	Montana	596056	7055242	UTM27N WGS84	Soil	Grey	Silt	ModerateNE	B	40	Frozen	Good	BurnOld
116027	07/06/2011	JoshJudson	Montana	596096	7055278	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	B	40	Frozen	Poor	BurnOld
116028	07/06/2011	JoshJudson	Montana	596140	7055357	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNE	C	60	Dry	Excellent	BurnOld
116029	07/06/2011	JoshJudson	Montana	596182	7055400	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	B	40	Frozen	Poor	BurnOld
116030	07/06/2011	JoshJudson	Montana	596207	7055440	UTM27N WGS84	Soil	Brown	Silt	ModerateNE	B	30	Frozen	Poor	BurnOld
116031	07/06/2011	JoshJudson	Montana	596236	7055472	UTM27N WGS84	Soil	Grey	Silt	ModerateNE	B	50	Frozen	Poor	BurnOld
116032	07/06/2011	JoshJudson	Montana	596273	7055506	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	60	Moist	Good	BurnOld
116033	07/06/2011	JoshJudson	Montana	596330	7055550	UTM27N WGS84	Soil	Grey	Silt	ModerateNE	B	50	Frozen	Good	BurnOld
116034	07/06/2011	JoshJudson	Montana	596361	7055572	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	60	Moist	Good	BurnOld
116035	07/06/2011	JoshJudson	Montana	596405	7055596	UTM27N WGS84	Colluvium	BrownLight	Clay	ModerateNE	C	40	Moist	Good	BurnOld
116036	07/06/2011	JoshJudson	Montana	596441	7055640	UTM27N WGS84	Soil	Grey	Clay	ModerateNE	B	60	Moist	Good	BurnOld
116037	07/06/2011	JoshJudson	Montana	596480	7055663	UTM27N WGS84	Soil	Grey	Silt	ModerateNE	B	40	Frozen	Good	BurnOld
116038	07/06/2011	JoshJudson	Montana	596524	7055695	UTM27N WGS84	Colluvium	Grey	Clay	Flat	C	70	Wet	Poor	BurnOld
116039	07/06/2011	JoshJudson	Montana	596555	7055718	UTM27N WGS84	Soil	Black	Clay	ModerateNE	B	60	Frozen	Good	BurnOld
116040	07/06/2011	JoshJudson	Montana	596557	7055718	UTM27N WGS84	Soil	Black	Clay	ModerateNE	B	60	Frozen	Good	BurnOld
116041	07/06/2011	JoshJudson	Montana	596598	7055755	UTM27N WGS84	Colluvium	Grey	Clay	ModerateNE	C	40	Moist	Good	BurnOld
116042	07/06/2011	JoshJudson	Montana	596640	7055775	UTM27N WGS84	Colluvium	Grey	Silt	ModerateNE	C	40	Moist	Good	BurnOld
116043	07/06/2011	JoshJudson	Montana	596679	7055807	UTM27N WGS84	Soil	Black	Clay	Flat	B	60	Wet	Poor	BurnOld
116044	07/06/2011	JoshJudson	Montana	596728	7055831	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSW	C	60	Moist	Good	BurnOld
116045	07/06/2011	JoshJudson	Montana	596766	7055860	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	40	Moist	Excellent	BurnOld
117001	08/06/2011	HugoGirard	Montana	600828	7053938	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Dry		
117002	08/06/2011	HugoGirard	Montana	601132	7053733	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	20	Moist		
117003	08/06/2011	HugoGirard	Montana	601088	7053755	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist		
117004	08/06/2011	HugoGirard	Montana	601067	7053817	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C		Moist		
117005	08/06/2011	HugoGirard	Montana	601047	7053845	UTM27N WGS84	Colluvium	Brown		ModerateW	B	40	Moist		
117006	08/06/2011	HugoGirard	Montana	601012	7053893	UTM27N WGS84	Colluvium	Brown		ModerateW	B	50	Moist		
117007	08/06/2011	HugoGirard	Montana	600993	7053934	UTM27N WGS84	Colluvium	BrownDark		ModerateW	B	40	Moist		

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
117008	08/06/2011	HugoGirard	Montana	600956	7053940	UTM27N WGS84	Colluvium	Brown		ModerateW	B	40	Moist		
117009	08/06/2011	HugoGirard	Montana	600908	7053949	UTM27N WGS84	Colluvium	BrownLight		ModerateW	C	60	Moist		
117010	08/06/2011	HugoGirard	Montana	600792	7053952	UTM27N WGS84	Colluvium	BrownLight		ModerateW	C	40	Dry		
117011	08/06/2011	HugoGirard	Montana	600742	7053959	UTM27N WGS84	Colluvium	Yellow	Silt	ModerateW	C	40	Dry		
117012	08/06/2011	HugoGirard	Montana	600689	7053968	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry		
117013	08/06/2011	HugoGirard	Montana	600637	7053957	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Moist		
117014	08/06/2011	HugoGirard	Montana	600595	7053940	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Moist		
117015	08/06/2011	HugoGirard	Montana	600595	7053940	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Moist		
117016	08/06/2011	HugoGirard	Montana	600558	7053913	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	30	Dry		
117017	08/06/2011	HugoGirard	Montana	600509	7053906	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateW	C	40	Dry		
117018	08/06/2011	HugoGirard	Montana	600461	7053898	UTM27N WGS84	Colluvium	Orange	Sand	ModerateW	C	50	Dry		
117019	08/06/2011	HugoGirard	Montana	600409	7053888	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry		
117020	08/06/2011	HugoGirard	Montana	600359	7053869	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry		
117021	08/06/2011	HugoGirard	Montana	600312	7053859	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Dry		
117022	08/06/2011	HugoGirard	Montana	600269	7053845	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry		
117023	08/06/2011	HugoGirard	Montana	600216	7053839	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Moist		
117024	08/06/2011	HugoGirard	Montana	600162	7053825	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry		
117025	08/06/2011	HugoGirard	Montana	600116	7053816	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry		
117026	08/06/2011	HugoGirard	Montana	600064	7053799	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	70	Moist		
117027	08/06/2011	HugoGirard	Montana	600021	7053786	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	50	Moist		
117028	08/06/2011	HugoGirard	Montana	599973	7053775	UTM27N WGS84	Colluvium	Black	Silt	ModerateW	C	50	Moist		
117029	08/06/2011	HugoGirard	Montana	599929	7053758	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist		
117030	08/06/2011	HugoGirard	Montana	599878	7053751	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist		
117031	08/06/2011	HugoGirard	Montana	599828	7053735	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	C	60	Moist		
117032	08/06/2011	HugoGirard	Montana	599779	7053723	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	80	Moist		
117033	08/06/2011	HugoGirard	Montana	599732	7053702	UTM27N WGS84	Colluvium	Red	Silt	ModerateW	C	80	Moist		
117034	08/06/2011	HugoGirard	Montana	599681	7053698	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	80	Moist		
117035	08/06/2011	HugoGirard	Montana	599633	7053685	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry		
117036	08/06/2011	HugoGirard	Montana	599580	7053673	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Moist		
118001	08/06/2011	DrewMacPhail	Montana	601194	7050459	UTM27N WGS84	Soil	Brown	Sand	RidgeAlpine	C	60	Dry		
118002	08/06/2011	DrewMacPhail	Montana	601199	7050409	UTM27N WGS84	Soil	Brown	Sand	SteepS	C	70	Dry		
118003	08/06/2011	DrewMacPhail	Montana	601191	7050362	UTM27N WGS84	Soil	Brown	Sand	SteepS	C	60	Dry		
118004	08/06/2011	DrewMacPhail	Montana	601196	7050316	UTM27N WGS84	Soil	Brown	Sand	SteepS	C	50	Dry		
118005	08/06/2011	DrewMacPhail	Montana	601198	7050260	UTM27N WGS84	Soil	Brown	Sand	SteepS	C	60	Dry		
118006	08/06/2011	DrewMacPhail	Montana	601205	7050206	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	60	Dry		
118007	08/06/2011	DrewMacPhail	Montana	601203	7050161	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	55	Moist		
118008	08/06/2011	DrewMacPhail	Montana	601212	7050110	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	60	Dry		
118009	08/06/2011	DrewMacPhail	Montana	601200	7050062	UTM27N WGS84	Soil	Brown	Clay	Flat	C	55	Dry		
118010	08/06/2011	DrewMacPhail	Montana	601195	7050012	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Frozen		
118011	08/06/2011	DrewMacPhail	Montana	601185	7049965	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	60	Dry		
118012	08/06/2011	DrewMacPhail	Montana	601189	7049914	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	55	Frozen		
118013	08/06/2011	DrewMacPhail	Montana	601183	7049861	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	60	Moist		
118014	08/06/2011	DrewMacPhail	Montana	601169	7049816	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	60	Dry		
118016	08/06/2011	DrewMacPhail	Montana	601168	7049764	UTM27N WGS84	Soil	Brown	Sand	ModerateS	C	60	Dry		
118017	08/06/2011	DrewMacPhail	Montana	601168	7049700	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Dry		
118018	08/06/2011	DrewMacPhail	Montana	601171	7049670	UTM27N WGS84	Soil	BrownLight	Sand	Flat	C	65	Dry		
118019	08/06/2011	DrewMacPhail	Montana	601169	7049618	UTM27N WGS84	Soil	BrownLight	Sand	Flat	C	65	Dry		
118020	08/06/2011	DrewMacPhail	Montana	601179	7049568	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Dry		
118021	08/06/2011	DrewMacPhail	Montana	601186	7049467	UTM27N WGS84	Soil	Tan	Sand	ModerateW	C	50	Dry		
118022	08/06/2011	DrewMacPhail	Montana	600970	7049485	UTM27N WGS84	Soil	BrownDark	Clay	Flat	B	50	Frozen		
118023	08/06/2011	DrewMacPhail	Montana	600992	7049435	UTM27N WGS84	Soil	Grey	Clay	ModerateN	C	50	Frozen		
118024	08/06/2011	DrewMacPhail	Montana	601002	7049388	UTM27N WGS84	Soil	Brown	Sand	ModerateN	C	50	Wet		
118025	08/06/2011	DrewMacPhail	Montana	601022	7049346	UTM27N WGS84	Soil	Brown	Sand	ModerateN	C	55	Frozen		
118026	08/06/2011	DrewMacPhail	Montana	601034	7049291	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Wet		
118027	08/06/2011	DrewMacPhail	Montana	601062	7049246	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Wet		
118028	08/06/2011	DrewMacPhail	Montana	601113	7049170	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Dry		
118029	08/06/2011	DrewMacPhail	Montana	601145	7049120	UTM27N WGS84	Soil	BrownLight	Sand	Flat	C	65	Dry		

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
118030	08/06/2011	DrewMacPhail	Montana	601170	7049071	UTM27N WGS84	Soil	BrownLight	Sand	Flat	C	60	Dry		
118031	08/06/2011	DrewMacPhail	Montana	601196	7049041	UTM27N WGS84	Soil	Brown	Sand	Flat	C	65	Dry		
118032	08/06/2011	DrewMacPhail	Montana	601207	7048992	UTM27N WGS84	Soil	BrownLight	Sand	Flat	C	60	Dry		
118033	08/06/2011	DrewMacPhail	Montana	601219	7048941	UTM27N WGS84	Soil	BrownLight	Sand	Flat	C	60	Dry		
118034	08/06/2011	DrewMacPhail	Montana	601238	7048893	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Dry		
118035	08/06/2011	DrewMacPhail	Montana	601245	7048853	UTM27N WGS84	Soil	BrownLight	Sand	Flat	C	60	Dry		
118036	08/06/2011	DrewMacPhail	Montana	601261	7048803	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Dry		
118037	08/06/2011	DrewMacPhail	Montana	601275	7048747	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Dry		
118038	08/06/2011	DrewMacPhail	Montana	601283	7048701	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	60	Dry		
118039	08/06/2011	DrewMacPhail	Montana	601299	7048649	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	70	Dry		
118041	08/06/2011	DrewMacPhail	Montana	601311	7048603	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	60	Dry		
118042	08/06/2011	DrewMacPhail	Montana	601324	7048556	UTM27N WGS84	Soil	Brown	Sand	Flat	C	60	Dry		
119001	08/06/2011	MartyHuber	Montana	599547	7055630	UTM27N WGS84	Soil	Tan	Silt	ModerateW	C	50	Dry		
119002	08/06/2011	MartyHuber	Montana	599586	7055592	UTM27N WGS84	Soil	Tan	Silt	ModerateW	C	55	Dry		
119003	08/06/2011	MartyHuber	Montana	599620	7055558	UTM27N WGS84	Soil	Tan	Silt	ModerateW	C	55	Dry		
119004	08/06/2011	MartyHuber	Montana	599651	7055522	UTM27N WGS84	Soil	Brown	Silt	ModerateW	B	65	Dry		
119005	08/06/2011	MartyHuber	Montana	599689	7055486	UTM27N WGS84	Soil	Tan	Silt	ModerateW	C	75	Dry		
119006	08/06/2011	MartyHuber	Montana	599726	7055446	UTM27N WGS84	Soil	Tan	Gravel	ModerateW	B	60	Dry		
119007	08/06/2011	MartyHuber	Montana	599754	7055412	UTM27N WGS84	Soil	Tan	Gravel	ModerateW	B	65	Dry		
119008	08/06/2011	MartyHuber	Montana	599795	7055375	UTM27N WGS84	Soil	Tan	Silt	ModerateW	C	80	Dry		
119009	08/06/2011	MartyHuber	Montana	599831	7055338	UTM27N WGS84	Soil	Tan	Gravel	Flat	B	60	Dry		
119010	08/06/2011	MartyHuber	Montana	599859	7055299	UTM27N WGS84	Soil	Tan	Gravel	Flat	B	40	Dry		
119011	08/06/2011	MartyHuber	Montana	599894	7055265	UTM27N WGS84	Soil	Tan	Gravel	Flat	C	45	Dry		
119012	08/06/2011	MartyHuber	Montana	599936	7055230	UTM27N WGS84	Soil	Tan	Clay	Flat	B	35	Dry		
119013	08/06/2011	MartyHuber	Montana	599960	7055231	UTM27N WGS84	Soil	Tan	Clay	Flat	B	75	Dry		
119014	08/06/2011	MartyHuber	Montana	599958	7055281	UTM27N WGS84	Soil	Tan	Silt	Flat	C	70	Moist		
119015	08/06/2011	MartyHuber	Montana	599967	7055326	UTM27N WGS84	Soil	Tan	Silt	ModerateN	C	65	Dry		
119016	08/06/2011	MartyHuber	Montana	599971	7055380	UTM27N WGS84	Soil	BrownLight	Silt	ModerateN	C	50	Moist		
119017	08/06/2011	MartyHuber	Montana	599973	7055432	UTM27N WGS84	Soil	BrownLight	Silt	ModerateN	C	70	Moist		
119018	08/06/2011	MartyHuber	Montana	599974	7055481	UTM27N WGS84	Soil	BrownLight	Silt	ModerateN	C	70	Dry		
119019	08/06/2011	MartyHuber	Montana	599982	7055526	UTM27N WGS84	Soil	BrownLight	Sand	ModerateN	C	65	Dry		
119020	08/06/2011	MartyHuber	Montana	599986	7055575	UTM27N WGS84	Soil	BrownLight	Sand	ModerateN	C	70	Dry		
119021	08/06/2011	MartyHuber	Montana	599989	7055626	UTM27N WGS84	Soil	BrownLight	Silt	ModerateN	C	75	Dry		
119022	08/06/2011	MartyHuber	Montana	599983	7055677	UTM27N WGS84	Soil	BrownLight	Silt	ModerateN	C	60	Dry		
119023	08/06/2011	MartyHuber	Montana	599966	7055725	UTM27N WGS84	Soil	BrownLight	Silt	ModerateN	C	70	Dry		
119024	08/06/2011	MartyHuber	Montana	599955	7055771	UTM27N WGS84	Soil	Grey	Sand	ModerateN	C	65	Dry		
119025	08/06/2011	MartyHuber	Montana	599952	7055822	UTM27N WGS84	Soil	Brown	Sand	ModerateN	C	75	Dry		
119026	08/06/2011	MartyHuber	Montana	599936	7055868	UTM27N WGS84	Soil	BrownLight	Sand	ModerateN	C	55	Dry		
119027	08/06/2011	MartyHuber	Montana	599920	7055916	UTM27N WGS84	Soil	BrownLight	Sand	ModerateN	C	65	Dry		
119028	08/06/2011	MartyHuber	Montana	599912	7055968	UTM27N WGS84	Soil	BrownLight	Sand	ModerateN	C	65	Dry		
119029	08/06/2011	MartyHuber	Montana	599895	7056015	UTM27N WGS84	Soil	Brown	Silt	ModerateN	C	55	Moist		
119030	08/06/2011	MartyHuber	Montana	599887	7056066	UTM27N WGS84	Soil	BrownLight	Sand	ModerateN	C	65	Dry		
119031	08/06/2011	MartyHuber	Montana	599867	7056113	UTM27N WGS84	Soil	Brown	Sand	Flat	C	50	Wet		
119032	08/06/2011	MartyHuber	Montana	599858	7056162	UTM27N WGS84	Soil	Brown	Silt	Flat	C	50	Moist		
119033	08/06/2011	MartyHuber	Montana	599852	7056209	UTM27N WGS84	Soil	Green	Silt	ModerateN	C	60	Dry		
119034	08/06/2011	MartyHuber	Montana	599839	7056262	UTM27N WGS84	Soil	Brown	Sand	Flat	C	45	Frozen		
119035	08/06/2011	MartyHuber	Montana	599827	7056312	UTM27N WGS84	Soil	Brown	Silt	Flat	C	50	Moist		
119036	08/06/2011	MartyHuber	Montana	599818	7056357	UTM27N WGS84	Soil	Tan	Sand	Flat	C	55	Dry		
119037	08/06/2011	MartyHuber	Montana	599803	7056408	UTM27N WGS84	Soil	Tan	Gravel	ModerateN	B	40	Dry		
119038	08/06/2011	MartyHuber	Montana	599794	7056463	UTM27N WGS84	Soil	Tan	Gravel	Flat	B	40	Dry		
119039	08/06/2011	MartyHuber	Montana	599783	7056501	UTM27N WGS84	Soil	Tan	Gravel	ModerateN	C	50	Dry		
119041	08/06/2011	MartyHuber	Montana	599775	7056549	UTM27N WGS84	Soil	Tan	Sand	ModerateN	C	55	Dry		
119042	08/06/2011	MartyHuber	Montana	599760	7056601	UTM27N WGS84	Soil	Brown	Sand	ModerateN	B	45	Moist		
119043	08/06/2011	MartyHuber	Montana	599279	7056100	UTM27N WGS84	Soil	Brown	Silt	ModerateW	C	70	Dry		
119044	08/06/2011	MartyHuber	Montana	599302	7056064	UTM27N WGS84	Soil	Brown	Silt	ModerateW	C	45	Dry		
119045	08/06/2011	MartyHuber	Montana	599332	7056016	UTM27N WGS84	Soil	Brown	Sand	ModerateW	B	55	Wet		
120001	07/06/2011	SteveCrowell	Montana	601676	7052287	UTM27N WGS84	Soil	Tan	Sand	Flat	C	60	Dry		

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
120002	08/06/2011	SteveCrowell	Montana	601635	7052273	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	60	Dry		
120003	08/06/2011	SteveCrowell	Montana	601587	7052258	UTM27N WGS84	Soil	RustyOrange	Sand	Flat	C	60	Dry		
120004	08/06/2011	SteveCrowell	Montana	601532	7052238	UTM27N WGS84	Soil	Tan	Sand	Flat	C	60	Dry		
120005	08/06/2011	SteveCrowell	Montana	601495	7052219	UTM27N WGS84	Soil	Tan	Sand	Flat	C	60	Dry		
120006	08/06/2011	SteveCrowell	Montana	601445	7052195	UTM27N WGS84	Soil	Tan	Sand	Flat	C	60	Dry		
120007	08/06/2011	SteveCrowell	Montana	601398	7052181	UTM27N WGS84	Soil	Tan	Silt	Flat	C	60	Dry		
120008	08/06/2011	SteveCrowell	Montana	601351	7052146	UTM27N WGS84	Soil	Tan	Sand	Flat	C	60	Dry		
120009	08/06/2011	SteveCrowell	Montana	601316	7052120	UTM27N WGS84	Soil	RustyOrange	Sand	ModerateS	C	55	Dry		
120010	08/06/2011	SteveCrowell	Montana	601270	7052091	UTM27N WGS84	Soil	Tan	Silt	ModerateS	C	40	Dry		
120011	08/06/2011	SteveCrowell	Montana	601226	7052062	UTM27N WGS84	Soil	RustyOrange	Silt	ModerateS	C	60	Dry		
120012	08/06/2011	SteveCrowell	Montana	601192	7052036	UTM27N WGS84	Soil	RustyRed	Silt	ModerateS	C	70	Dry		
120013	08/06/2011	SteveCrowell	Montana	601148	7052007	UTM27N WGS84	Soil	RustyOrange	Silt	ModerateS	C	40	Dry		
120014	08/06/2011	SteveCrowell	Montana	601102	7051983	UTM27N WGS84	Soil	RustyOrange	Silt	ModerateS	C	60	Dry		
120015	08/06/2011	SteveCrowell	Montana	601069	7051950	UTM27N WGS84	Soil	RustyOrange	Silt	SteepS	C	80	Moist		
120016	08/06/2011	SteveCrowell	Montana	601026	7051921	UTM27N WGS84	Soil	RustyOrange	Sand	SteepS	C	60	Dry		
120017	08/06/2011	SteveCrowell	Montana	600987	7051895	UTM27N WGS84	Soil	RustyRed	Silt	SteepS	C	55	Dry		
120018	08/06/2011	SteveCrowell	Montana	600945	7051869	UTM27N WGS84	Soil	RustyRed	Silt	SteepS	C	40	Dry		
120019	08/06/2011	SteveCrowell	Montana	600896	7051838	UTM27N WGS84	Soil	RustyRed	Silt	SteepS	C	65	Dry		
120020	08/06/2011	SteveCrowell	Montana	600862	7051812	UTM27N WGS84	Soil	Tan	Sand	SteepS	C	50	Dry		
120021	08/06/2011	SteveCrowell	Montana	600817	7051781	UTM27N WGS84	Soil	RustyOrange	Sand	ModerateS	C	50	Dry		
120022	08/06/2011	SteveCrowell	Montana	600774	7051750	UTM27N WGS84	Soil	RustyOrange	Sand	ModerateS	C	50	Dry		
120023	08/06/2011	SteveCrowell	Montana	600734	7051724	UTM27N WGS84	Soil	BrownLight	Sand	ModerateS	C	45	Dry		
120024	08/06/2011	SteveCrowell	Montana	600689	7051701	UTM27N WGS84	Soil	Tan	Sand	ModerateS	C	55	Dry		
120025	08/06/2011	SteveCrowell	Montana	600658	7051666	UTM27N WGS84	Soil	RustyRed	Silt	SteepS	C	45	Dry		
120026	08/06/2011	SteveCrowell	Montana	600613	7051645	UTM27N WGS84	Soil	RustyRed	Sand	SteepS	C	45	Dry		
120027	08/06/2011	SteveCrowell	Montana	600575	7051616	UTM27N WGS84	Soil	RustyRed	Silt	SteepS	C	60	Moist		
120028	08/06/2011	SteveCrowell	Montana	600531	7051585	UTM27N WGS84	Soil	BrownLight	Sand	SteepS	C	50	Dry		
120029	08/06/2011	SteveCrowell	Montana	600490	7051554	UTM27N WGS84	Soil	RustyRed	Sand	SteepS	C	45	Dry		
120030	08/06/2011	SteveCrowell	Montana	600447	7051528	UTM27N WGS84	Soil	BrownLight	Sand	SteepS	C	60	Dry		
120031	08/06/2011	SteveCrowell	Montana	600408	7051505	UTM27N WGS84	Soil	BrownLight	Silt	ModerateS	C	45	Moist		
120032	08/06/2011	SteveCrowell	Montana	600364	7051473	UTM27N WGS84	Soil	Tan	Sand	Flat	C	65	Moist		
120033	08/06/2011	SteveCrowell	Montana	600324	7051449	UTM27N WGS84	Soil	BrownLight	Sand	ModerateS	C	80	Moist		
120034	08/06/2011	SteveCrowell	Montana	600277	7051411	UTM27N WGS84	Soil	Tan	Sand	ModerateS	C	40	Moist		
120035	08/06/2011	SteveCrowell	Montana	600330	7051179	UTM27N WGS84	Soil	Grey	Sand	ModerateS	C	60	Wet		
120036	08/06/2011	SteveCrowell	Montana	600373	7051143	UTM27N WGS84	Soil	Grey	Silt	ModerateS	C	50	Wet		
120037	08/06/2011	SteveCrowell	Montana	600449	7051080	UTM27N WGS84	Soil	Brown	Silt	ModerateS	B	60	Wet		
120038	08/06/2011	SteveCrowell	Montana	600489	7051055	UTM27N WGS84	Soil	Grey	Sand	ModerateW	B	55	Wet		
120039	08/06/2011	SteveCrowell	Montana	600687	7050899	UTM27N WGS84	Soil	Brown	Silt	ModerateS	C	45	Wet		
120040	08/06/2011	SteveCrowell	Montana	600727	7050868	UTM27N WGS84	Soil	Tan	Silt	ModerateS	B	45	Wet		
120042	08/06/2011	SteveCrowell	Montana	600767	7050834	UTM27N WGS84	Soil	Tan	Silt	ModerateS	C	40	Moist		
123121	05/08/2011	RandyCampbell	Montana	599146	7052075	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	BurnOld
123122	05/08/2011	RandyCampbell	Montana	599092	7052054	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
123123	05/08/2011	RandyCampbell	Montana	599049	7052030	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	BurnOld
123124	05/08/2011	RandyCampbell	Montana	598999	7052010	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
123125	05/08/2011	RandyCampbell	Montana	598963	7051985	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	80	Dry	Good	BurnOld
123126	05/08/2011	RandyCampbell	Montana	598922	7051960	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	BurnOld
123127	05/08/2011	RandyCampbell	Montana	598881	7051936	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	70	Dry	Good	BurnOld
123128	05/08/2011	RandyCampbell	Montana	598830	7051918	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	70	Dry	Good	BurnOld
123129	05/08/2011	RandyCampbell	Montana	598777	7051893	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	60	Dry	Good	BurnOld
123130	05/08/2011	RandyCampbell	Montana	598740	7051865	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	BurnOld
123131	05/08/2011	RandyCampbell	Montana	598699	7051844	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	60	Dry	Good	BurnOld
123132	05/08/2011	RandyCampbell	Montana	598647	7051819	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	50	Dry	Good	BurnOld
123133	05/08/2011	RandyCampbell	Montana	598602	7051799	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry	Good	BurnOld
123134	05/08/2011	RandyCampbell	Montana	598565	7051774	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Dry	Good	ForestAspen
123135	05/08/2011	RandyCampbell	Montana	598520	7051755	UTM27N WGS84	Colluvium	Brown	Silt	SteepSW	C	60	Dry	Good	ForestAspen
123136	05/08/2011	RandyCampbell	Montana	598472	7051727	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Good	ForestAspen
123137	05/08/2011	RandyCampbell	Montana	598435	7051699	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	60	Dry	Good	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
123138	05/08/2011	RandyCampbell	Montana	598387	7051678	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Good	BurnOld
123139	05/08/2011	RandyCampbell	Montana	598340	7051773	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry	Good	ForestMixed
123141	05/08/2011	RandyCampbell	Montana	598389	7051797	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	60	Dry	Good	ForestMixed
123142	05/08/2011	RandyCampbell	Montana	598432	7051816	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry	Good	BurnOld
123143	05/08/2011	RandyCampbell	Montana	598474	7051843	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Good	BurnOld
123144	05/08/2011	RandyCampbell	Montana	598524	7051864	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Good	BurnOld
123145	05/08/2011	RandyCampbell	Montana	598561	7051889	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Good	BurnOld
123146	05/08/2011	RandyCampbell	Montana	598612	7051915	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	BurnOld
123147	05/08/2011	RandyCampbell	Montana	598657	7051938	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	BurnOld
123148	05/08/2011	RandyCampbell	Montana	598697	7051960	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	70	Dry	Good	BurnOld
123149	05/08/2011	RandyCampbell	Montana	598738	7051988	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	60	Dry	Good	BurnOld
123150	05/08/2011	RandyCampbell	Montana	598788	7051998	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	BurnOld
123151	05/08/2011	RandyCampbell	Montana	598828	7052031	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
123152	05/08/2011	RandyCampbell	Montana	598873	7052052	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
123153	05/08/2011	RandyCampbell	Montana	598919	7052080	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	BurnOld
123154	05/08/2011	RandyCampbell	Montana	598959	7052097	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	B	60	Dry	Good	BurnOld
123155	05/08/2011	RandyCampbell	Montana	599004	7052123	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	BurnOld
123156	05/08/2011	RandyCampbell	Montana	599052	7052151	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	BurnOld
123157	05/08/2011	RandyCampbell	Montana	599095	7052168	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	BurnOld
123196	07/08/2011	RandyCampbell	Montana	598805	7052700	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	BurnOld
123197	07/08/2011	RandyCampbell	Montana	598768	7052676	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	70	Moist	Good	BurnOld
123198	07/08/2011	RandyCampbell	Montana	598716	7052654	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	70	Moist	Good	BurnOld
123199	07/08/2011	RandyCampbell	Montana	598678	7052637	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	BurnOld
123200	07/08/2011	RandyCampbell	Montana	598634	7052605	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	BurnOld
123201	07/08/2011	RandyCampbell	Montana	598590	7052581	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	70	Moist	Good	BurnOld
123202	07/08/2011	RandyCampbell	Montana	598550	7052560	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	BurnOld
123203	07/08/2011	RandyCampbell	Montana	598507	7052534	UTM27N WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Dry	Good	BurnOld
123204	07/08/2011	RandyCampbell	Montana	598462	7052513	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	90	Moist	Good	BurnOld
123205	07/08/2011	RandyCampbell	Montana	598410	7052488	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	C	80	Dry	Good	BurnOld
123206	07/08/2011	RandyCampbell	Montana	598373	7052463	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	60	Dry	Good	BurnOld
123207	07/08/2011	RandyCampbell	Montana	598329	7052440	UTM27N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	BurnOld
123208	07/08/2011	RandyCampbell	Montana	598285	7052419	UTM27N WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Good	BurnOld
123209	07/08/2011	RandyCampbell	Montana	598242	7052393	UTM27N WGS84	Colluvium	Brown	Clay	Flat	B	40	Moist	Good	BurnOld
123210	07/08/2011	RandyCampbell	Montana	598193	7052372	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	50	Moist	Good	ForestMixed
123211	07/08/2011	RandyCampbell	Montana	598148	7052348	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	50	Dry	Good	BurnOld
123212	07/08/2011	RandyCampbell	Montana	598101	7052322	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	30	Dry	Poor	ForestBlackSpruce
123213	07/08/2011	RandyCampbell	Montana	598059	7052303	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	80	Dry	Good	ForestBlackSpruce
123214	07/08/2011	RandyCampbell	Montana	598019	7052275	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Good	BurnOld
123215	07/08/2011	RandyCampbell	Montana	597972	7052253	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Poor	ForestMixed
123216	07/08/2011	RandyCampbell	Montana	597936	7052222	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Good	ForestMixed
123217	07/08/2011	RandyCampbell	Montana	597893	7052189	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	30	Dry	Poor	ForestBlackSpruce
123218	07/08/2011	RandyCampbell	Montana	597844	7052174	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Good	ForestBlackSpruce
123219	07/08/2011	RandyCampbell	Montana	597792	7052153	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Good	ForestMixed
123220	07/08/2011	RandyCampbell	Montana	597752	7052130	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Poor	ForestMixed
123221	07/08/2011	RandyCampbell	Montana	597711	7052109	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	B	50	Dry	Good	ForestMixed
123222	07/08/2011	RandyCampbell	Montana	597658	7052088	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Good	ForestMixed
123223	07/08/2011	RandyCampbell	Montana	597620	7052054	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Moist	Good	ForestMixed
123224	07/08/2011	RandyCampbell	Montana	597571	7052043	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	B	50	Dry	Good	ForestMixed
123225	07/08/2011	RandyCampbell	Montana	597529	7052012	UTM27N WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestMixed
123226	07/08/2011	RandyCampbell	Montana	597437	7051965	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
123227	07/08/2011	RandyCampbell	Montana	597391	7051943	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Moist	Poor	ForestMixed
123228	07/08/2011	RandyCampbell	Montana	597363	7051916	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
123229	07/08/2011	RandyCampbell	Montana	597307	7051898	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
123230	07/08/2011	RandyCampbell	Montana	597267	7051879	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Moist	Good	ForestMixed
123231	08/08/2011	RandyCampbell	Montana	599852	7050759	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Moist	Excellent	BurnOld
123232	08/08/2011	RandyCampbell	Montana	599804	7050736	UTM27N WGS84	Colluvium	RustyRed	Silt	ModerateE	C	40	Dry	Good	BurnOld
123233	08/08/2011	RandyCampbell	Montana	599767	7050716	UTM27N WGS84	Soil	Brown	Clay	Flat	B	80	Moist	Poor	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
123234	08/08/2011	RandyCampbell	Montana	599715	7050685	UTM27N WGS84	Soil	Grey	Clay	Flat	B	80	Moist	Poor	BurnOld
123235	08/08/2011	RandyCampbell	Montana	599675	7050660	UTM27N WGS84	Soil	Grey	Clay	Flat	B	80	Moist	Poor	BurnOld
123236	08/08/2011	RandyCampbell	Montana	599629	7050639	UTM27N WGS84	Soil	Grey	Clay	Flat	B	60	Dry	Poor	BurnOld
123237	08/08/2011	RandyCampbell	Montana	599584	7050614	UTM27N WGS84	Alluvium	BrownLight	Sand	Flat	C	40	Dry	Good	BurnOld
123238	08/08/2011	RandyCampbell	Montana	599539	7050591	UTM27N WGS84	Soil	Brown	Sand	Flat	B	40	Dry	Good	ForestMixed
123239	08/08/2011	RandyCampbell	Montana	599499	7050572	UTM27N WGS84	Soil	Grey	Clay	Flat	B	80	Moist	Poor	BurnOld
123240	08/08/2011	RandyCampbell	Montana	599453	7050545	UTM27N WGS84	Soil	Brown	Clay	Flat	B	80	Moist	Poor	BurnOld
123241	08/08/2011	RandyCampbell	Montana	599413	7050521	UTM27N WGS84	Soil	Brown	Clay	Flat	B	80	Moist	Poor	BurnOld
123242	08/08/2011	RandyCampbell	Montana	599364	7050498	UTM27N WGS84	Soil	Brown	Clay	Flat	B	80	Moist	Poor	BurnOld
123243	08/08/2011	RandyCampbell	Montana	599323	7050474	UTM27N WGS84	Soil	Brown	Clay	Flat	B	80	Moist	Good	BurnOld
123244	08/08/2011	RandyCampbell	Montana	599276	7050458	UTM27N WGS84	Soil	Brown	Clay	Flat	B	80	Moist	Poor	BurnOld
123245	08/08/2011	RandyCampbell	Montana	599229	7050429	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Good	BurnOld
123246	08/08/2011	RandyCampbell	Montana	599185	7050407	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Good	BurnOld
123247	08/08/2011	RandyCampbell	Montana	599143	7050378	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Good	BurnOld
123248	08/08/2011	RandyCampbell	Montana	599098	7050360	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	70	Dry	Good	BurnOld
123249	08/08/2011	RandyCampbell	Montana	599146	7050273	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Good	BurnOld
123250	08/08/2011	RandyCampbell	Montana	599189	7050299	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	BurnOld
123251	08/08/2011	RandyCampbell	Montana	599234	7050312	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	BurnOld
123252	08/08/2011	RandyCampbell	Montana	599278	7050340	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Dry	Good	BurnOld
123253	08/08/2011	RandyCampbell	Montana	599322	7050367	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Good	BurnOld
123254	08/08/2011	RandyCampbell	Montana	599366	7050385	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	BurnOld
123255	08/08/2011	RandyCampbell	Montana	599418	7050412	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Poor	BurnOld
123256	08/08/2011	RandyCampbell	Montana	599459	7050436	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Moist	Good	BurnOld
123257	08/08/2011	RandyCampbell	Montana	599499	7050457	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Moist	Good	BurnOld
123258	08/08/2011	RandyCampbell	Montana	599544	7050479	UTM27N WGS84	Colluvium	Brown	Silt	Flat	C	70	Dry	Good	BurnOld
123259	08/08/2011	RandyCampbell	Montana	599594	7050503	UTM27N WGS84	Soil	BrownLight	Clay	Flat	B	60	Moist	Poor	BurnOld
123260	08/08/2011	RandyCampbell	Montana	599634	7050531	UTM27N WGS84	Soil	BrownLight	Clay	Flat	B	60	Moist	Poor	BurnOld
123261	08/08/2011	RandyCampbell	Montana	599680	7050549	UTM27N WGS84	Soil	Brown	Clay	Flat	B	60	Moist	Poor	BurnOld
123262	08/08/2011	RandyCampbell	Montana	599722	7050573	UTM27N WGS84	Soil	Brown	Clay	Flat	B	60	Moist	Poor	BurnOld
123263	08/08/2011	RandyCampbell	Montana	599767	7050596	UTM27N WGS84	Soil	BrownLight	Clay	Flat	B	60	Moist	Poor	BurnOld
123264	08/08/2011	RandyCampbell	Montana	599812	7050625	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Good	BurnOld
123291	10/08/2011	RandyCampbell	Montana	599986	7055004	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Dry	Good	BurnOld
123292	10/08/2011	RandyCampbell	Montana	599934	7055007	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	BurnOld
123293	10/08/2011	RandyCampbell	Montana	599882	7055004	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	BurnOld
123294	10/08/2011	RandyCampbell	Montana	599831	7055002	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	60	Moist	Good	BurnOld
123295	10/08/2011	RandyCampbell	Montana	599784	7055005	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	BurnOld
123296	10/08/2011	RandyCampbell	Montana	599732	7055000	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Moist	Good	BurnOld
123297	10/08/2011	RandyCampbell	Montana	599682	7055001	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	50	Moist	Good	BurnOld
123298	10/08/2011	RandyCampbell	Montana	599632	7055005	UTM27N WGS84	Colluvium	Green	Silt	ModerateSW	C	80	Dry	Good	ForestMixed
123299	10/08/2011	RandyCampbell	Montana	599584	7055004	UTM27N WGS84	Alluvium	Brown	Silt	DrainageSeasonal	C	80	Moist	Good	ForestMixed
123300	10/08/2011	RandyCampbell	Montana	599533	7055004	UTM27N WGS84	Alluvium	Grey	Silt	DrainageSeasonal	C	80	Moist	Good	ForestMixed
123301	10/08/2011	RandyCampbell	Montana	599485	7055003	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
123302	10/08/2011	RandyCampbell	Montana	599433	7055002	UTM27N WGS84	Colluvium	Grey	Silt	ModerateSW	B	40	Dry	Poor	ForestMixed
123303	10/08/2011	RandyCampbell	Montana	599388	7055005	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
123304	10/08/2011	RandyCampbell	Montana	599337	7055003	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Moist	Good	ForestMixed
123305	10/08/2011	RandyCampbell	Montana	599286	7055001	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
123306	10/08/2011	RandyCampbell	Montana	599234	7055000	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateSW	C	80	Dry	Good	ForestMixed
123307	10/08/2011	RandyCampbell	Montana	599188	7055006	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	40	Dry	Poor	ForestMixed
123308	10/08/2011	RandyCampbell	Montana	599194	7054907	UTM27N WGS84	Colluvium	Grey	Silt	ModerateSW	C	60	Dry	Good	ForestMixed
123309	10/08/2011	RandyCampbell	Montana	599237	7054903	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Frozen	Good	ForestMixed
123310	10/08/2011	RandyCampbell	Montana	599283	7054905	UTM27N WGS84	Alluvium	Brown	Silt	DrainageSeasonal	C	60	Moist	Good	ForestMixed
123311	10/08/2011	RandyCampbell	Montana	599332	7054897	UTM27N WGS84	Alluvium	Grey	Clay	DrainageSeasonal	B	80	Moist	Poor	ForestMixed
123312	10/08/2011	RandyCampbell	Montana	599437	7054904	UTM27N WGS84	Alluvium	Grey	Clay	DrainageSeasonal	B	80	Frozen	Poor	ForestMixed
123313	10/08/2011	RandyCampbell	Montana	599487	7054912	UTM27N WGS84	Alluvium	Brown	Silt	DrainageSeasonal	B	60	Moist	Poor	ForestMixed
123314	10/08/2011	RandyCampbell	Montana	599529	7054920	UTM27N WGS84	Alluvium	Brown	Silt	DrainageSeasonal	B	60	Moist	Good	ForestMixed
123315	10/08/2011	RandyCampbell	Montana	599596	7054908	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Moist	Good	ForestMixed
123316	10/08/2011	RandyCampbell	Montana	599634	7054904	UTM27N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
123317	10/08/2011	RandyCampbell	Montana	599687	7054904	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Moist	Poor	ForestMixed
123318	10/08/2011	RandyCampbell	Montana	599734	7054906	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Moist	Poor	ForestMixed
123319	10/08/2011	RandyCampbell	Montana	599790	7054902	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Moist	Good	ForestMixed
123320	10/08/2011	RandyCampbell	Montana	599838	7054906	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Poor	ForestMixed
123321	10/08/2011	RandyCampbell	Montana	599883	7054905	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateSW	B	60	Moist	Poor	ForestMixed
123322	10/08/2011	RandyCampbell	Montana	599935	7054902	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Poor	ForestMixed
123323	10/08/2011	RandyCampbell	Montana	599967	7054900	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Dry	Good	ForestMixed
123324	11/08/2011	RandyCampbell	Montana	597317	7056359	UTMZ7N WGS84	Soil	Brown	Clay	ModerateN	B	50	Frozen	Poor	BurnOld
123325	11/08/2011	RandyCampbell	Montana	597274	7056340	UTMZ7N WGS84	Soil	Brown	Clay	ModerateN	B	50	Frozen	Poor	BurnOld
123326	11/08/2011	RandyCampbell	Montana	597229	7056316	UTMZ7N WGS84	Soil	Brown	Clay	ModerateN	B	40	Frozen	Poor	BurnOld
123327	11/08/2011	RandyCampbell	Montana	597183	7056292	UTMZ7N WGS84	Soil	Brown	Clay	ModerateN	B	70	Frozen	Good	BurnOld
123328	11/08/2011	RandyCampbell	Montana	597140	7056270	UTMZ7N WGS84	Soil	Brown	Clay	ModerateN	B	60	Wet	Poor	BurnOld
123329	11/08/2011	RandyCampbell	Montana	597093	7056241	UTMZ7N WGS84	Soil	Grey	Clay	ModerateN	B	60	Moist	Poor	BurnOld
123330	11/08/2011	RandyCampbell	Montana	597058	7056217	UTMZ7N WGS84	Soil	Brown	Silt	ModerateN	B	80	Wet	Poor	BurnOld
123331	11/08/2011	RandyCampbell	Montana	597007	7056196	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Moist	Good	BurnOld
123332	11/08/2011	RandyCampbell	Montana	596960	7056171	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	80	Frozen	Good	BurnOld
123333	11/08/2011	RandyCampbell	Montana	596921	7056151	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	80	Frozen	Good	BurnOld
123334	11/08/2011	RandyCampbell	Montana	596877	7056126	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	B	80	Frozen	Good	BurnOld
123335	11/08/2011	RandyCampbell	Montana	596832	7056107	UTMZ7N WGS84	Colluvium	BrownLight	Sand	ModerateN	C	80	Moist	Excellent	ForestBlackSpruce
123336	11/08/2011	RandyCampbell	Montana	596790	7056079	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	80	Moist	Excellent	ForestBlackSpruce
123337	11/08/2011	RandyCampbell	Montana	596742	7056051	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	80	Dry	Excellent	ForestBlackSpruce
123338	11/08/2011	RandyCampbell	Montana	596697	7056034	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	80	Moist	Excellent	ForestBlackSpruce
123339	11/08/2011	RandyCampbell	Montana	596653	7056010	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Good	ForestBlackSpruce
123341	11/08/2011	RandyCampbell	Montana	596605	7055983	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	BurnOld
123342	11/08/2011	RandyCampbell	Montana	596654	7055895	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	80	Dry	Excellent	BurnOld
123343	11/08/2011	RandyCampbell	Montana	596699	7055925	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	BurnOld
123344	11/08/2011	RandyCampbell	Montana	596745	7055945	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	BurnOld
123345	11/08/2011	RandyCampbell	Montana	596783	7055966	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	80	Dry	Excellent	ForestBlackSpruce
123346	11/08/2011	RandyCampbell	Montana	596832	7055994	UTMZ7N WGS84	Colluvium	RustyRed	Silt	Ridge	C	60	Dry	Excellent	BurnOld
123347	11/08/2011	RandyCampbell	Montana	596876	7056015	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	B	70	Moist	Good	BurnOld
123348	11/08/2011	RandyCampbell	Montana	596923	7056038	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	BurnOld
123349	11/08/2011	RandyCampbell	Montana	596965	7056065	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Good	BurnOld
123350	11/08/2011	RandyCampbell	Montana	597012	7056081	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Good	BurnOld
123351	11/08/2011	RandyCampbell	Montana	597054	7056106	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Good	BurnOld
123352	11/08/2011	RandyCampbell	Montana	597099	7056128	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	80	Wet	Poor	BurnOld
123353	11/08/2011	RandyCampbell	Montana	597141	7056154	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateN	B	80	Moist	Poor	BurnOld
123354	11/08/2011	RandyCampbell	Montana	597182	7056184	UTMZ7N WGS84	Soil	Grey	Clay	ModerateN	B	60	Moist	Poor	BurnOld
123355	11/08/2011	RandyCampbell	Montana	597231	7056198	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	80	Moist	Good	BurnOld
123356	11/08/2011	RandyCampbell	Montana	597274	7056222	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	80	Moist	Good	BurnOld
123357	11/08/2011	RandyCampbell	Montana	597321	7056249	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateN	B	60	Frozen	Poor	BurnOld
124216	07/08/2011	MarkHiggins	Montana	599567	7051293	UTMZ7N WGS84	Colluvium	BrownDark			B	80	Moist	Good	BurnOld
124217	07/08/2011	MarkHiggins	Montana	599525	7051253	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	80	Moist	Good	
124218	07/08/2011	MarkHiggins	Montana	599483	7051234	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	80	Moist	Good	
124219	07/08/2011	MarkHiggins	Montana	599431	7051212	UTMZ7N WGS84	Colluvium	BrownLight				60		Good	
124220	07/08/2011	MarkHiggins	Montana	599391	7051199	UTMZ7N WGS84	Colluvium	Brown	Silt		B	80	Dry	Poor	ForestMixed
124221	07/08/2011	MarkHiggins	Montana	599352	7051168	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
124222	07/08/2011	MarkHiggins	Montana	599308	7051149	UTMZ7N WGS84	Colluvium	BrownLight				60		Excellent	
124223	07/08/2011	MarkHiggins	Montana	599259	7051123	UTMZ7N WGS84	Colluvium	BrownLight			C	60		Excellent	
124224	07/08/2011	MarkHiggins	Montana	599217	7051098	UTMZ7N WGS84	Colluvium	BrownLight			C	50		Excellent	
124225	07/08/2011	MarkHiggins	Montana	599171	7051073	UTMZ7N WGS84	Colluvium	BrownLight				60	Dry	Excellent	
124226	07/08/2011	MarkHiggins	Montana	599130	7051048	UTMZ7N WGS84	Colluvium	BrownLight				50		Excellent	
124227	07/08/2011	MarkHiggins	Montana	599086	7051027	UTMZ7N WGS84	Colluvium	BrownLight			C	60		Excellent	
124228	07/08/2011	MarkHiggins	Montana	599039	7051008	UTMZ7N WGS84									
124229	07/08/2011	MarkHiggins	Montana	598999	7050983	UTMZ7N WGS84	Colluvium	RustyOrange			C	50		Excellent	
124230	07/08/2011	MarkHiggins	Montana	598951	7050962	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	ForestMixed
124231	07/08/2011	MarkHiggins	Montana	598907	7050933	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	ForestMixed
124232	07/08/2011	MarkHiggins	Montana	598862	7050912	UTMZ7N WGS84	Colluvium	BrownLight				60		Excellent	ForestMixed

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Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
124233	07/08/2011	MarkHiggins	Montana	598816	7050880	UTMZ7N_WGS84									
124234	07/08/2011	MarkHiggins	Montana	598864	7050789	UTMZ7N_WGS84									
124235	07/08/2011	MarkHiggins	Montana	598909	7050828	UTMZ7N_WGS84	Colluvium	BrownLight				40		Excellent	
124236	07/08/2011	MarkHiggins	Montana	598951	7050847	UTMZ7N_WGS84	Colluvium	BrownLight			C	40		Excellent	
124237	07/08/2011	MarkHiggins	Montana	599002	7050871	UTMZ7N_WGS84	Colluvium	BrownLight				40		Excellent	
124238	07/08/2011	MarkHiggins	Montana	599042	7050896	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
124239	07/08/2011	MarkHiggins	Montana	599087	7050913	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
124240	07/08/2011	MarkHiggins	Montana	599130	7050941	UTMZ7N_WGS84	Colluvium	BrownLight			C	40	Dry	Excellent	
124241	07/08/2011	MarkHiggins	Montana	599174	7050959	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124242	07/08/2011	MarkHiggins	Montana	599217	7050980	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	ForestMixed
124243	07/08/2011	MarkHiggins	Montana	599263	7051009	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124244	07/08/2011	MarkHiggins	Montana	599305	7051031	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	
124245	07/08/2011	MarkHiggins	Montana	599349	7051054	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
124246	07/08/2011	MarkHiggins	Montana	599392	7051077	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	
124247	07/08/2011	MarkHiggins	Montana	599435	7051108	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	ForestMixed
124248	07/08/2011	MarkHiggins	Montana	599486	7051126	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		B	80	Moist	Good	
124249	07/08/2011	MarkHiggins	Montana	599530	7051150	UTMZ7N_WGS84	Colluvium	BrownLight			C	70	Moist	Good	
124250	07/08/2011	MarkHiggins	Montana	599577	7051173	UTMZ7N_WGS84	Colluvium		Silt		B	80	Moist	Good	ForestMixed
124251	08/08/2011	MarkHiggins	Montana	598524	7053229	UTMZ7N_WGS84	Colluvium				B	30	Moist	Good	
124252	08/08/2011	MarkHiggins	Montana	598485	7053200	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50		Excellent	
124253	08/08/2011	MarkHiggins	Montana	598437	7053179	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40		Excellent	
124254	08/08/2011	MarkHiggins	Montana	598392	7053154	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	
124255	08/08/2011	MarkHiggins	Montana	598349	7053130	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Dry	Excellent	
124256	08/08/2011	MarkHiggins	Montana	598307	7053101	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	60		Excellent	
124257	08/08/2011	MarkHiggins	Montana	598268	7053082	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	40	Dry	Excellent	
124258	08/08/2011	MarkHiggins	Montana	598217	7053062	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	40		Excellent	
124259	08/08/2011	MarkHiggins	Montana	598170	7053032	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40		Excellent	
124260	08/08/2011	MarkHiggins	Montana	598132	7053016	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124261	08/08/2011	MarkHiggins	Montana	598085	7052989	UTMZ7N_WGS84	Colluvium	BrownLight			C	45	Dry	Excellent	
124262	08/08/2011	MarkHiggins	Montana	598041	7052964	UTMZ7N_WGS84	Colluvium	BrownLight			B	30		Good	
124263	08/08/2011	MarkHiggins	Montana	597997	7052940	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124264	08/08/2011	MarkHiggins	Montana	597958	7052921	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	55	Dry	Excellent	ForestMixed
124265	08/08/2011	MarkHiggins	Montana	597909	7052894	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	
124266	08/08/2011	MarkHiggins	Montana	597867	7052875	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
124267	08/08/2011	MarkHiggins	Montana	597824	7052853	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124268	08/08/2011	MarkHiggins	Montana	597772	7052815	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	
124269	08/08/2011	MarkHiggins	Montana	597737	7052802	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124270	08/08/2011	MarkHiggins	Montana	597693	7052776	UTMZ7N_WGS84	Colluvium	BrownLight	Sand			50			
124271	08/08/2011	MarkHiggins	Montana	597650	7052759	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124272	08/08/2011	MarkHiggins	Montana	597607	7052734	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	
124273	08/08/2011	MarkHiggins	Montana	597559	7052707	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
124274	08/08/2011	MarkHiggins	Montana	597518	7052687	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
124275	08/08/2011	MarkHiggins	Montana	597471	7052655	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	
124276	08/08/2011	MarkHiggins	Montana	597421	7052629	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	60	Dry	Excellent	
124277	08/08/2011	MarkHiggins	Montana	597379	7052616	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
124278	08/08/2011	MarkHiggins	Montana	597334	7052588	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124279	08/08/2011	MarkHiggins	Montana	597299	7052570	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	
124280	08/08/2011	MarkHiggins	Montana	597243	7052539	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124282	08/08/2011	MarkHiggins	Montana	597206	7052521	UTMZ7N_WGS84	Colluvium		Sand		C	60		Excellent	
124283	08/08/2011	MarkHiggins	Montana	597168	7052497	UTMZ7N_WGS84	Colluvium	BrownLight	Clay		C	55	Dry	Excellent	
124284	08/08/2011	MarkHiggins	Montana	597111	7052477	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	ForestMixed
124285	08/08/2011	MarkHiggins	Montana	597065	7052447	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	ForestMixed
124286	08/08/2011	MarkHiggins	Montana	597029	7052430	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	ForestMixed
124287	08/08/2011	MarkHiggins	Montana	596987	7052393	UTMZ7N_WGS84									
124288	09/08/2011	MarkHiggins	Montana	600099	7051457	UTMZ7N_WGS84	Colluvium	BrownLight				70			
124289	09/08/2011	MarkHiggins	Montana	600152	7051489	UTMZ7N_WGS84	Colluvium	BrownLight				50		Good	
124291	09/08/2011	MarkHiggins	Montana	600197	7051502	UTMZ7N_WGS84	Colluvium	BrownLight				50			

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Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
124292	09/08/2011	MarkHiggins	Montana	600242	7051527	UTMZ7N WGS84	Colluvium	BrownLight				70			
124293	09/08/2011	MarkHiggins	Montana	600282	7051553	UTMZ7N WGS84	Colluvium	BrownLight				60			
124294	09/08/2011	MarkHiggins	Montana	600330	7051573	UTMZ7N WGS84	Colluvium	BrownLight				60			
124295	09/08/2011	MarkHiggins	Montana	600371	7051599	UTMZ7N WGS84	Colluvium	BrownLight				50			
124296	09/08/2011	MarkHiggins	Montana	600413	7051624	UTMZ7N WGS84	Colluvium	BrownLight				60			
124297	09/08/2011	MarkHiggins	Montana	600461	7051643	UTMZ7N WGS84	Colluvium	BrownLight				60			
124298	09/08/2011	MarkHiggins	Montana	600509	7051667	UTMZ7N WGS84	Colluvium	BrownLight			C	60			
124299	09/08/2011	MarkHiggins	Montana	600550	7051695	UTMZ7N WGS84	Colluvium	BrownLight			C	40			
124300	09/08/2011	MarkHiggins	Montana	600594	7051714	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40			
124301	09/08/2011	MarkHiggins	Montana	600647	7051739	UTMZ7N WGS84	Colluvium	BrownLight			C	40			
124302	09/08/2011	MarkHiggins	Montana	600678	7051767	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124303	09/08/2011	MarkHiggins	Montana	600727	7051786	UTMZ7N WGS84	Colluvium	BrownLight	Sand			50			
124304	09/08/2011	MarkHiggins	Montana	600777	7051817	UTMZ7N WGS84	Colluvium	BrownLight			C	50			
124305	09/08/2011	MarkHiggins	Montana	600816	7051833	UTMZ7N WGS84	Alluvium	BrownLight	Silt		C	50			
124306	09/08/2011	MarkHiggins	Montana	600767	7051922	UTMZ7N WGS84	Colluvium	BrownLight				40			
124307	09/08/2011	MarkHiggins	Montana	600724	7051894	UTMZ7N WGS84	Colluvium	BrownLight				40		Good	
124308	09/08/2011	MarkHiggins	Montana	600677	7051869	UTMZ7N WGS84	Colluvium	BrownLight				60			
124309	09/08/2011	MarkHiggins	Montana	600639	7051854	UTMZ7N WGS84	Colluvium	BrownLight			C	60			
124310	09/08/2011	MarkHiggins	Montana	600588	7051828	UTMZ7N WGS84	Colluvium	BrownLight				50			
124311	09/08/2011	MarkHiggins	Montana	600546	7051802	UTMZ7N WGS84	Colluvium	BrownLight				40		Excellent	
124312	09/08/2011	MarkHiggins	Montana	600497	7051779	UTMZ7N WGS84	Colluvium	BrownLight			C	60			
124313	09/08/2011	MarkHiggins	Montana	600456	7051761	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60		Excellent	
124314	09/08/2011	MarkHiggins	Montana	600414	7051740	UTMZ7N WGS84	Colluvium	BrownLight			C	50		Excellent	
124315	09/08/2011	MarkHiggins	Montana	600367	7051708	UTMZ7N WGS84	Colluvium	BrownLight				60		Excellent	
124316	09/08/2011	MarkHiggins	Montana	600280	7051660	UTMZ7N WGS84	Colluvium	BrownLight				50		Excellent	
124317	09/08/2011	MarkHiggins	Montana	600238	7051639	UTMZ7N WGS84	Colluvium	BrownLight			C	60		Excellent	
124318	09/08/2011	MarkHiggins	Montana	600193	7051616	UTMZ7N WGS84	Colluvium	BrownLight			C	60			
124319	09/08/2011	MarkHiggins	Montana	600152	7051595	UTMZ7N WGS84	Colluvium	BrownLight			C	50			
124320	09/08/2011	MarkHiggins	Montana	600103	7051575	UTMZ7N WGS84	Colluvium	BrownLight				60		Excellent	
124321	09/08/2011	MarkHiggins	Montana	600059	7051551	UTMZ7N WGS84	Colluvium	BrownLight			C	60		Excellent	
124322	10/08/2011	MarkHiggins	Montana	600652	7053737	UTMZ7N WGS84	Colluvium	BrownLight			C	50		Excellent	
124323	10/08/2011	MarkHiggins	Montana	600610	7053716	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50		Excellent	
124324	10/08/2011	MarkHiggins	Montana	600559	7053687	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	70		Excellent	
124325	10/08/2011	MarkHiggins	Montana	600513	7053676	UTMZ7N WGS84	Colluvium	BrownLight			C	50		Excellent	
124326	10/08/2011	MarkHiggins	Montana	600467	7053648	UTMZ7N WGS84	Colluvium	BrownLight			C	50		Excellent	
124327	10/08/2011	MarkHiggins	Montana	600423	7053627	UTMZ7N WGS84	Colluvium	BrownLight				60		Excellent	
124328	10/08/2011	MarkHiggins	Montana	600375	7053609	UTMZ7N WGS84	Colluvium	BrownLight			C	50		Excellent	
124329	10/08/2011	MarkHiggins	Montana	600332	7053586	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50			
124330	10/08/2011	MarkHiggins	Montana	600298	7053560	UTMZ7N WGS84	Colluvium	BrownLight			C	40		Excellent	
124331	10/08/2011	MarkHiggins	Montana	600245	7053520	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50			
124332	10/08/2011	MarkHiggins	Montana	600203	7053510	UTMZ7N WGS84	Colluvium	BrownLight	Sand			50	Dry	Excellent	
124333	10/08/2011	MarkHiggins	Montana	600162	7053483	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
124334	10/08/2011	MarkHiggins	Montana	600112	7053469	UTMZ7N WGS84	Colluvium	BrownLight			B	70		Excellent	
124335	10/08/2011	MarkHiggins	Montana	600072	7053435	UTMZ7N WGS84	Colluvium	BrownLight			B	60	Wet	Good	
124336	10/08/2011	MarkHiggins	Montana	600026	7053415	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	70	Moist	Good	
124337	10/08/2011	MarkHiggins	Montana	599974	7053384	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	70		Excellent	
124338	10/08/2011	MarkHiggins	Montana	599933	7053356	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	70	Moist	Good	
124339	10/08/2011	MarkHiggins	Montana	599892	7053335	UTMZ7N WGS84	Colluvium	Brown	Silt		B	70	Moist	Good	
124341	10/08/2011	MarkHiggins	Montana	599944	7053257	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Flat	B	60		Good	
124342	10/08/2011	MarkHiggins	Montana	599990	7053255	UTMZ7N WGS84	Colluvium	BrownLight			B	60	Moist	Good	
124343	10/08/2011	MarkHiggins	Montana	600031	7053285	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Moist	Good	
124344	10/08/2011	MarkHiggins	Montana	600077	7053314	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	70		Excellent	
124345	10/08/2011	MarkHiggins	Montana	600119	7053347	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Moist	Good	
124346	10/08/2011	MarkHiggins	Montana	600172	7053369	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60		Excellent	
124347	10/08/2011	MarkHiggins	Montana	600202	7053391	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60		Good	
124348	10/08/2011	MarkHiggins	Montana	600244	7053415	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	80	Moist	Good	
124349	10/08/2011	MarkHiggins	Montana	600288	7053433	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Moist	Good	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
124350	10/08/2011	MarkHiggins	Montana	600344	7053454	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	70	Moist		
124351	10/08/2011	MarkHiggins	Montana	600390	7053478	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	40	Moist	Good	
124352	10/08/2011	MarkHiggins	Montana	600418	7053509	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Dry	Excellent	
124353	10/08/2011	MarkHiggins	Montana	600471	7053537	UTMZ7N WGS84	Colluvium	BrownLight			C	40	Dry	Excellent	
124354	10/08/2011	MarkHiggins	Montana	600514	7053554	UTMZ7N WGS84	Colluvium	BrownLight			C	50	Dry	Excellent	
124355	10/08/2011	MarkHiggins	Montana	600554	7053583	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Good	
124356	10/08/2011	MarkHiggins	Montana	600608	7053601	UTMZ7N WGS84	Colluvium	BrownLight				60			
124357	10/08/2011	MarkHiggins	Montana	600639	7053625	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	
124358	10/08/2011	MarkHiggins	Montana	600688	7053638	UTMZ7N WGS84	Colluvium	BrownLight			C	40	Dry		
124359	11/08/2011	MarkHiggins	Montana	601593	7048864	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry		
124360	11/08/2011	MarkHiggins	Montana	601574	7048919	UTMZ7N WGS84	Colluvium	BrownLight			C	50		Excellent	
124361	11/08/2011	MarkHiggins	Montana	601554	7048961	UTMZ7N WGS84	Colluvium	BrownLight			C	50	Dry	Excellent	
124362	11/08/2011	MarkHiggins	Montana	601532	7049006	UTMZ7N WGS84	Colluvium	BrownLight			C	60		Excellent	
124363	11/08/2011	MarkHiggins	Montana	601508	7049052	UTMZ7N WGS84	Colluvium	BrownLight			C	50	Dry	Excellent	
124364	11/08/2011	MarkHiggins	Montana	601487	7049096	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Dry	Excellent	
124365	11/08/2011	MarkHiggins	Montana	601459	7049135	UTMZ7N WGS84	Colluvium	BrownLight	Sand	Drainage	C	50		Excellent	
124367	11/08/2011	MarkHiggins	Montana	601428	7049235	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Wet		
124368	11/08/2011	MarkHiggins	Montana	601406	7049277	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Wet	Excellent	
124369	11/08/2011	MarkHiggins	Montana	601375	7049320	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	
124370	11/08/2011	MarkHiggins	Montana	601365	7049369	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60		Good	
124371	11/08/2011	MarkHiggins	Montana	601340	7049420	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	50	Dry	Excellent	
124372	11/08/2011	MarkHiggins	Montana	601315	7049460	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124373	11/08/2011	MarkHiggins	Montana	601297	7049498	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Dry		
124374	11/08/2011	MarkHiggins	Montana	601279	7049547	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50		Excellent	
124375	11/08/2011	MarkHiggins	Montana	601253	7049594	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	50		Excellent	
124376	11/08/2011	MarkHiggins	Montana	601234	7049641	UTMZ7N WGS84	Colluvium	BrownLight			B	50	Dry	Excellent	ForestMixed
124377	11/08/2011	MarkHiggins	Montana	601144	7049598	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124378	11/08/2011	MarkHiggins	Montana	601168	7049555	UTMZ7N WGS84	Colluvium	BrownLight			C	60	Dry	Excellent	
124379	11/08/2011	MarkHiggins	Montana	601190	7049509	UTMZ7N WGS84	Colluvium	BrownLight			B	50	Moist	Good	
124380	11/08/2011	MarkHiggins	Montana	601210	7049465	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60		Excellent	
124381	11/08/2011	MarkHiggins	Montana	601232	7049419	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60		Excellent	
124382	11/08/2011	MarkHiggins	Montana	601287	7049287	UTMZ7N WGS84	Alluvium	Black	Sand			60			
124383	11/08/2011	MarkHiggins	Montana	601314	7049238	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60	Dry	Excellent	ForestMixed
124384	11/08/2011	MarkHiggins	Montana	601333	7049194	UTMZ7N WGS84	Alluvium	BrownLight	Sand	Drainage	C	60			
124385	11/08/2011	MarkHiggins	Montana	601352	7049151	UTMZ7N WGS84	Colluvium	BrownDark				60			
124386	11/08/2011	MarkHiggins	Montana	601377	7049104	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60			
124387	11/08/2011	MarkHiggins	Montana	601392	7049052	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
124388	11/08/2011	MarkHiggins	Montana	601419	7049005	UTMZ7N WGS84	Colluvium	BrownLight			C	50	Dry	Excellent	
124389	11/08/2011	MarkHiggins	Montana	601435	7048969	UTMZ7N WGS84	Colluvium	BrownLight	Sand			60			
124390	11/08/2011	MarkHiggins	Montana	601458	7048923	UTMZ7N WGS84	Colluvium	BrownLight			C	60	Moist	Good	
124391	11/08/2011	MarkHiggins	Montana	601478	7048866	UTMZ7N WGS84	Colluvium	BrownLight	Sand			50		Good	
124392	11/08/2011	MarkHiggins	Montana	601496	7048834	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Moist		
129172	07/08/2011	JoeyTaylor	Montana	599385	7051423	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Frozen	Good	ForestMixed
129173	07/08/2011	JoeyTaylor	Montana	599346	7051395	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	60	Frozen	Good	BurnOld
129174	07/08/2011	JoeyTaylor	Montana	599300	7051374	UTMZ7N WGS84	Colluvium	BrownDark	Silt		B	50	Frozen	Good	ForestBlackSpruce
129175	07/08/2011	JoeyTaylor	Montana	599253	7051352	UTMZ7N WGS84	Colluvium	BrownDark	Sand		C	60	Moist	Excellent	BurnOld
129176	07/08/2011	JoeyTaylor	Montana	599215	7051318	UTMZ7N WGS84	Colluvium	BrownDark	Sand		B	60	Frozen	Good	BurnOld
129177	07/08/2011	JoeyTaylor	Montana				Colluvium	Grey	Silt		B	50	Frozen	Good	BurnOld
129178	07/08/2011	JoeyTaylor	Montana	599126	7051279	UTMZ7N WGS84	Colluvium	Grey	Sand		C	50	Wet	Excellent	BurnOld
129179	07/08/2011	JoeyTaylor	Montana	599080	7051245	UTMZ7N WGS84	Colluvium	Blue	Sand		C	60	Moist	Excellent	BurnOld
129180	07/08/2011	JoeyTaylor	Montana	599033	7051231	UTMZ7N WGS84	Colluvium	Blue	Sand		C	60	Dry	Excellent	BurnOld
129181	07/08/2011	JoeyTaylor	Montana	598982	7051201	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld
129182	07/08/2011	JoeyTaylor	Montana	598950	7051179	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnOld
129183	07/08/2011	JoeyTaylor	Montana	598900	7051161	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnOld
129184	07/08/2011	JoeyTaylor	Montana	598860	7051145	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	ForestMixed
129185	07/08/2011	JoeyTaylor	Montana	598807	7051114	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld
129186	07/08/2011	JoeyTaylor	Montana	598773	7051086	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
129187	07/08/2011	JoeyTaylor	Montana	598717	7051064	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnOld
129188	07/08/2011	JoeyTaylor	Montana	598773	7050980	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnOld
129189	07/08/2011	JoeyTaylor	Montana	598817	7050999	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	BurnOld
129191	07/08/2011	JoeyTaylor	Montana	598864	7051016	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnOld
129192	07/08/2011	JoeyTaylor	Montana	598913	7051039	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnOld
129193	07/08/2011	JoeyTaylor	Montana	598951	7051072	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnOld
129194	07/08/2011	JoeyTaylor	Montana	598996	7051088	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld
129195	07/08/2011	JoeyTaylor	Montana	599040	7051116	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Frozen	Good	BurnOld
129196	07/08/2011	JoeyTaylor	Montana	599089	7051134	UTMZ7N WGS84	Colluvium	Grey	Sand		C	40	Moist	Excellent	BurnOld
129197	07/08/2011	JoeyTaylor	Montana	599134	7051163	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld
129198	07/08/2011	JoeyTaylor	Montana	599173	7051190	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnOld
129199	07/08/2011	JoeyTaylor	Montana	599219	7051220	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnOld
129200	07/08/2011	JoeyTaylor	Montana	599262	7051230	UTMZ7N WGS84	Colluvium	Grey	Clay		B	60	Moist	Good	ForestBlackSpruce
129201	07/08/2011	JoeyTaylor	Montana	599304	7051254	UTMZ7N WGS84	Colluvium	Grey	Clay		B	60	Frozen	Poor	ForestBlackSpruce
129202	07/08/2011	JoeyTaylor	Montana	599395	7051302	UTMZ7N WGS84	Colluvium	Grey	Clay		B	60	Frozen	Poor	ForestBlackSpruce
129203	07/08/2011	JoeyTaylor	Montana	599447	7051327	UTMZ7N WGS84	Colluvium	Grey	Clay		B	60	Frozen	Poor	ForestBlackSpruce
129204	08/08/2011	JoeyTaylor	Montana	598664	7052959	UTMZ7N WGS84	Colluvium	Grey	Silt		B	40	Moist	Good	BurnOld
129205	08/08/2011	JoeyTaylor	Montana	598631	7052941	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Moist	Good	BurnOld
129206	08/08/2011	JoeyTaylor	Montana	598584	7052915	UTMZ7N WGS84	Colluvium	Brown	Silt		B	30	Moist	Good	BurnOld
129207	08/08/2011	JoeyTaylor	Montana	598535	7052884	UTMZ7N WGS84	Colluvium	Grey	Silt		B	40	Moist	Good	BurnOld
129208	08/08/2011	JoeyTaylor	Montana	598492	7052865	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnOld
129209	08/08/2011	JoeyTaylor	Montana	598441	7052857	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnOld
129210	08/08/2011	JoeyTaylor	Montana	598409	7052827	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Moist	Good	BurnNew
129211	08/08/2011	JoeyTaylor	Montana	598359	7052790	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129212	08/08/2011	JoeyTaylor	Montana	598317	7052777	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129213	08/08/2011	JoeyTaylor	Montana	598277	7052753	UTMZ7N WGS84	Colluvium	Grey	Silt		B	40	Moist	Good	BurnNew
129214	08/08/2011	JoeyTaylor	Montana	598222	7052728	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Moist	Excellent	BurnNew
129215	08/08/2011	JoeyTaylor	Montana	598183	7052702	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129216	08/08/2011	JoeyTaylor	Montana	598144	7052674	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129217	08/08/2011	JoeyTaylor	Montana	598094	7052656	UTMZ7N WGS84	Colluvium	Grey	Sand		C	50	Dry	Excellent	BurnNew
129218	08/08/2011	JoeyTaylor	Montana	598054	7052633	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	BurnNew
129219	08/08/2011	JoeyTaylor	Montana	598009	7052608	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	BurnNew
129220	08/08/2011	JoeyTaylor	Montana	597959	7052593	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	BurnNew
129221	08/08/2011	JoeyTaylor	Montana	597916	7052565	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129222	08/08/2011	JoeyTaylor	Montana	597874	7052541	UTMZ7N WGS84	Colluvium	Brown	Sand		C	40	Dry	Good	BurnNew
129223	08/08/2011	JoeyTaylor	Montana	597829	7052515	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129224	08/08/2011	JoeyTaylor	Montana	597780	7052490	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129225	08/08/2011	JoeyTaylor	Montana	597740	7052472	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	BurnNew
129226	08/08/2011	JoeyTaylor	Montana	597692	7052438	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	BurnNew
129227	08/08/2011	JoeyTaylor	Montana	597655	7052427	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	BurnNew
129228	08/08/2011	JoeyTaylor	Montana	597606	7052402	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	BurnNew
129229	08/08/2011	JoeyTaylor	Montana	597563	7052369	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129230	08/08/2011	JoeyTaylor	Montana	597520	7052337	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	ForestMixed
129231	08/08/2011	JoeyTaylor	Montana	597475	7052327	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
129232	08/08/2011	JoeyTaylor	Montana	597437	7052308	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	ForestMixed
129233	08/08/2011	JoeyTaylor	Montana	597387	7052287	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	ForestMixed
129234	08/08/2011	JoeyTaylor	Montana	597338	7052266	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	ForestMixed
129235	08/08/2011	JoeyTaylor	Montana	597302	7052234	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	ForestMixed
129236	08/08/2011	JoeyTaylor	Montana	597258	7052207	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Excellent	ForestMixed
129237	08/08/2011	JoeyTaylor	Montana	597210	7052196	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnOld
129238	08/08/2011	JoeyTaylor	Montana	597163	7052167	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	ForestMixed
129239	08/08/2011	JoeyTaylor	Montana	597126	7052143	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	ForestMixed
129240	09/08/2011	JoeyTaylor	Montana	599924	7051705	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Moist	Good	BurnNew
129241	09/08/2011	JoeyTaylor	Montana	600010	7051741	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129242	09/08/2011	JoeyTaylor	Montana	600061	7051768	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	BurnNew
129243	09/08/2011	JoeyTaylor	Montana	600097	7051791	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	BurnNew
129244	09/08/2011	JoeyTaylor	Montana	600151	7051806	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50	Moist	Good	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
129245	09/08/2011	JoeyTaylor	Montana	600188	7051843	UTMZ7N WGS84	Colluvium	Brown	Sand		B	60	Moist	Good	BurnNew
129246	09/08/2011	JoeyTaylor	Montana	600231	7051872	UTMZ7N WGS84	Colluvium	Brown	Sand		B	60	Moist	Good	BurnNew
129247	09/08/2011	JoeyTaylor	Montana	600278	7051887	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	BurnNew
129248	09/08/2011	JoeyTaylor	Montana	600329	7051911	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	BurnNew
129249	09/08/2011	JoeyTaylor	Montana	600364	7051928	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	BurnNew
129250	09/08/2011	JoeyTaylor	Montana	600402	7051955	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129251	09/08/2011	JoeyTaylor	Montana	600452	7051975	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129252	09/08/2011	JoeyTaylor	Montana	600501	7052001	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129253	09/08/2011	JoeyTaylor	Montana	600536	7052030	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Moist	Good	BurnNew
129254	09/08/2011	JoeyTaylor	Montana	600586	7052046	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129255	09/08/2011	JoeyTaylor	Montana	600628	7052066	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	BurnNew
129256	09/08/2011	JoeyTaylor	Montana	600668	7052097	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	BurnNew
129257	09/08/2011	JoeyTaylor	Montana	600712	7052000	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129258	09/08/2011	JoeyTaylor	Montana	600673	7051987	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50	Moist	Good	BurnNew
129259	09/08/2011	JoeyTaylor	Montana	600632	7051964	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	50	Moist	Good	BurnNew
129260	09/08/2011	JoeyTaylor	Montana	600590	7051934	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Dry	Poor	BurnNew
129261	09/08/2011	JoeyTaylor	Montana	600538	7051919	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Dry	Excellent	BurnNew
129262	09/08/2011	JoeyTaylor	Montana	600501	7051900	UTMZ7N WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	BurnNew
129263	09/08/2011	JoeyTaylor	Montana	600450	7051866	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	40	Moist	Good	BurnNew
129264	09/08/2011	JoeyTaylor	Montana	600406	7051844	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Dry	Excellent	BurnNew
129265	09/08/2011	JoeyTaylor	Montana	600366	7051824	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	50	Moist	Good	BurnNew
129266	09/08/2011	JoeyTaylor	Montana	600324	7051797	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60	Moist	Good	BurnNew
129267	09/08/2011	JoeyTaylor	Montana	600278	7051774	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Dry	Excellent	BurnNew
129268	09/08/2011	JoeyTaylor	Montana	600238	7051752	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Moist	Excellent	BurnNew
129269	09/08/2011	JoeyTaylor	Montana	600184	7051728	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Dry	Excellent	BurnNew
129270	09/08/2011	JoeyTaylor	Montana	600146	7051703	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60	Moist	Good	BurnNew
129271	09/08/2011	JoeyTaylor	Montana	600106	7051679	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Moist	Excellent	BurnNew
129272	09/08/2011	JoeyTaylor	Montana	600060	7051658	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60	Wet	Good	BurnNew
129273	10/08/2011	JoeyTaylor	Montana	596342	7048836	UTMZ7N WGS84	Colluvium	Green	Sand		C	40	Dry	Excellent	ForestMixed
129274	10/08/2011	JoeyTaylor	Montana	596389	7048845	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	ForestMixed
129275	10/08/2011	JoeyTaylor	Montana	596435	7048880	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Dry	Excellent	ForestMixed
129276	10/08/2011	JoeyTaylor	Montana	596472	7048902	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Dry	Excellent	ForestMixed
129277	10/08/2011	JoeyTaylor	Montana	596517	7048920	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	ForestMixed
129278	10/08/2011	JoeyTaylor	Montana	596554	7048951	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30	Dry	Good	ForestMixed
129279	10/08/2011	JoeyTaylor	Montana	596597	7048965	UTMZ7N WGS84	Colluvium	Brown	Sand		B	40	Dry	Good	ForestMixed
129280	10/08/2011	JoeyTaylor	Montana	596648	7048982	UTMZ7N WGS84	Colluvium	Brown	Sand		C	90	Dry	Good	ForestMixed
129281	10/08/2011	JoeyTaylor	Montana	596685	7049017	UTMZ7N WGS84	Colluvium	Brown	Sand		C	40	Dry	Excellent	ForestMixed
129282	10/08/2011	JoeyTaylor	Montana	596734	7049040	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	ForestMixed
129283	10/08/2011	JoeyTaylor	Montana	596779	7049058	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Dry	Excellent	ForestMixed
129284	10/08/2011	JoeyTaylor	Montana	596824	7049094	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	ForestMixed
129285	10/08/2011	JoeyTaylor	Montana	597088	7049214	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Frozen	Poor	ForestBlackSpruce
129286	10/08/2011	JoeyTaylor	Montana	596831	7048978	UTMZ7N WGS84	Colluvium	Grey	Sand		C	50	Dry	Excellent	ForestMixed
129287	10/08/2011	JoeyTaylor	Montana	596779	7048964	UTMZ7N WGS84	Colluvium	Brown	Sand		C	30	Dry	Good	ForestMixed
129288	10/08/2011	JoeyTaylor	Montana	596722	7048927	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
129289	10/08/2011	JoeyTaylor	Montana	596691	7048896	UTMZ7N WGS84	Colluvium	Brown	Sand		B	40	Dry	Good	ForestMixed
129291	10/08/2011	JoeyTaylor	Montana	596652	7048887	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50	Dry	Excellent	ForestMixed
129292	10/08/2011	JoeyTaylor	Montana	596603	7048871	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50	Dry	Excellent	ForestMixed
129293	10/08/2011	JoeyTaylor	Montana	596561	7048837	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	ForestMixed
129294	10/08/2011	JoeyTaylor	Montana	596513	7048815	UTMZ7N WGS84	Colluvium	BrownOrange	Sand		B	40	Dry	Good	ForestMixed
129295	10/08/2011	JoeyTaylor	Montana	596487	7048790	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		C	50	Dry	Excellent	ForestMixed
129296	10/08/2011	JoeyTaylor	Montana	596421	7048770	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	ForestBlackSpruce
129297	10/08/2011	JoeyTaylor	Montana	596384	7048735	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	ForestMixed
129298	11/08/2011	JoeyTaylor	Montana	599985	7055300	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Frozen	Good	BurnNew
129299	11/08/2011	JoeyTaylor	Montana	599937	7055303	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129300	11/08/2011	JoeyTaylor	Montana	599886	7055294	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew
129301	11/08/2011	JoeyTaylor	Montana	599836	7055297	UTMZ7N WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	BurnNew
129302	11/08/2011	JoeyTaylor	Montana	599783	7055308	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
129303	11/08/2011	JoeyTaylor	Montana	599731	7055305	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew
129304	11/08/2011	JoeyTaylor	Montana	599686	7055307	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew
129305	11/08/2011	JoeyTaylor	Montana	599632	7055304	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	BurnNew
129306	11/08/2011	JoeyTaylor	Montana	599580	7055305	UTMZ7N WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	BurnNew
129307	11/08/2011	JoeyTaylor	Montana	599533	7055301	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129308	11/08/2011	JoeyTaylor	Montana	599494	7055300	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50	Dry	Good	BurnNew
129309	11/08/2011	JoeyTaylor	Montana	599436	7055308	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129310	11/08/2011	JoeyTaylor	Montana	599390	7055304	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129311	11/08/2011	JoeyTaylor	Montana	599330	7055304	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129312	11/08/2011	JoeyTaylor	Montana	599289	7055314	UTMZ7N WGS84	Colluvium	Brown	Sand		B	40	Dry	Good	BurnNew
129313	11/08/2011	JoeyTaylor	Montana	599236	7055314	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129314	11/08/2011	JoeyTaylor	Montana	599180	7055301	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129315	11/08/2011	JoeyTaylor	Montana	599191	7055407	UTMZ7N WGS84	Colluvium	Grey	Clay		B	50	Frozen	Poor	BurnNew
129316	11/08/2011	JoeyTaylor	Montana	599231	7055409	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60	Moist	Good	BurnNew
129317	11/08/2011	JoeyTaylor	Montana	599289	7055399	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129318	11/08/2011	JoeyTaylor	Montana	599331	7055395	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129319	11/08/2011	JoeyTaylor	Montana	599379	7055406	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129320	11/08/2011	JoeyTaylor	Montana	599436	7055403	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129321	11/08/2011	JoeyTaylor	Montana	599481	7055404	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60	Dry	Excellent	BurnNew
129322	11/08/2011	JoeyTaylor	Montana	599537	7055400	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew
129323	11/08/2011	JoeyTaylor	Montana	599588	7055397	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew
129324	11/08/2011	JoeyTaylor	Montana	599635	7055400	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		C	60	Dry	Excellent	BurnNew
129325	11/08/2011	JoeyTaylor	Montana	599692	7055401	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	50	Moist	Good	BurnNew
129326	11/08/2011	JoeyTaylor	Montana	599735	7055402	UTMZ7N WGS84	Colluvium	Brown	Gravel		B	40	Dry	Poor	BurnNew
129327	11/08/2011	JoeyTaylor	Montana	599782	7055419	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50	Moist	Good	BurnNew
129328	11/08/2011	JoeyTaylor	Montana				Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew
129329	11/08/2011	JoeyTaylor	Montana	599888	7055407	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	BurnNew
129330	11/08/2011	JoeyTaylor	Montana	599932	7055404	UTMZ7N WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	BurnNew
129331	11/08/2011	JoeyTaylor	Montana	599981	7055404	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60	Dry	Excellent	BurnNew
131066	16/08/2011	JoshJudson	Montana	597956	7055910	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	B	100	Moist	Poor	ForestBlackSpruce
131067	16/08/2011	JoshJudson	Montana	597904	7055884	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	B	90	Moist	Poor	ForestBlackSpruce
131068	16/08/2011	JoshJudson	Montana	597865	7055856	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	B	80	Moist	Poor	ForestBlackSpruce
131069	16/08/2011	JoshJudson	Montana	597824	7055835	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	B	70	Frozen	Poor	ForestBlackSpruce
131070	16/08/2011	JoshJudson	Montana	597777	7055811	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	B	70	Frozen	Poor	ForestBlackSpruce
131071	16/08/2011	JoshJudson	Montana	597732	7055796	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	80	Moist	Poor	ForestBlackSpruce
131072	16/08/2011	JoshJudson	Montana	597693	7055764	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	60	Moist	Poor	ForestBlackSpruce
131073	16/08/2011	JoshJudson	Montana	597644	7055736	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	B	40	Frozen	Poor	ForestBlackSpruce
131074	16/08/2011	JoshJudson	Montana	597602	7055720	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	70	Frozen	Poor	ForestBlackSpruce
131075	16/08/2011	JoshJudson	Montana	597561	7055698	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	70	Moist	Good	ForestBlackSpruce
131076	16/08/2011	JoshJudson	Montana	597511	7055670	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	80	Moist	Good	ForestBlackSpruce
131077	16/08/2011	JoshJudson	Montana	597468	7055655	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateNE	B	80	Moist	Good	ForestBlackSpruce
131078	16/08/2011	JoshJudson	Montana	597431	7055623	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	80	Moist	Good	ForestBlackSpruce
131079	16/08/2011	JoshJudson	Montana	597386	7055602	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	90	Moist	Good	ForestBlackSpruce
131080	16/08/2011	JoshJudson	Montana	597342	7055577	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	C	80	Moist	Good	ForestBlackSpruce
131081	16/08/2011	JoshJudson	Montana	597299	7055554	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	70	Moist	Good	ForestBlackSpruce
131082	16/08/2011	JoshJudson	Montana	597252	7055535	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Dry	Good	ForestBlackSpruce
131083	16/08/2011	JoshJudson	Montana	597208	7055509	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Good	ForestBlackSpruce
131084	16/08/2011	JoshJudson	Montana	597162	7055480	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	30	Frozen	Poor	ForestBlackSpruce
131085	16/08/2011	JoshJudson	Montana	597120	7055454	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	80	Frozen	Poor	ForestBlackSpruce
131086	16/08/2011	JoshJudson	Montana	597077	7055433	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	40	Frozen	Poor	ForestBlackSpruce
131087	16/08/2011	JoshJudson	Montana	597038	7055404	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateNE	C	70	Moist	Good	ForestBlackSpruce
131088	16/08/2011	JoshJudson	Montana	596993	7055396	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateNE	C	80	Moist	Good	ForestBlackSpruce
131089	16/08/2011	JoshJudson	Montana	596943	7055364	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateNE	C	80	Moist	Good	ForestBlackSpruce
131091	16/08/2011	JoshJudson	Montana	596990	7055500	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Frozen	Poor	ForestBlackSpruce
131092	16/08/2011	JoshJudson	Montana	597028	7055537	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateE	B	60	Moist	Poor	ForestBlackSpruce
131093	16/08/2011	JoshJudson	Montana	597118	7055581	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	80	Moist	Good	ForestBlackSpruce
131094	16/08/2011	JoshJudson	Montana	597159	7055592	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	60	Dry	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
131095	16/08/2011	JoshJudson	Montana	597209	7055622	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	B	70	Dry	Good	ForestBlackSpruce
131096	16/08/2011	JoshJudson	Montana	597249	7055650	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	B	50	Moist	Good	ForestBlackSpruce
131097	16/08/2011	JoshJudson	Montana	597300	7055664	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	B	70	Moist	Poor	ForestBlackSpruce
131098	16/08/2011	JoshJudson	Montana	597336	7055692	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	B	70	Moist	Good	ForestBlackSpruce
131099	16/08/2011	JoshJudson	Montana	597386	7055726	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	B	90	Moist	Good	ForestBlackSpruce
131100	16/08/2011	JoshJudson	Montana	597441	7055741	UTM27N WGS84	Colluvium	Brown	Clay	ModerateSE	B	60	Frozen	Good	ForestBlackSpruce
131101	16/08/2011	JoshJudson	Montana	597487	7055762	UTM27N WGS84	Colluvium	Black	Clay	ModerateSE	B	70	Moist	Poor	ForestBlackSpruce
131102	16/08/2011	JoshJudson	Montana	597521	7055788	UTM27N WGS84	Colluvium	Grey	Clay	ModerateSE	B	80	Moist	Good	ForestBlackSpruce
132001	08/08/2011	IanLauzon	Montana	597516	7052455	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132002	08/08/2011	IanLauzon	Montana	597467	7052430	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Frozen	Good	BurnOld
132003	08/08/2011	IanLauzon	Montana	597421	7052404	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132004	08/08/2011	IanLauzon	Montana	597386	7052384	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132005	08/08/2011	IanLauzon	Montana	597335	7052371	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Dry	Excellent	ForestMixed
132006	08/08/2011	IanLauzon	Montana	597297	7052339	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132007	08/08/2011	IanLauzon	Montana	597251	7052320	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132008	08/08/2011	IanLauzon	Montana	597209	7052296	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	80	Dry	Excellent	BurnOld
132009	08/08/2011	IanLauzon	Montana	597171	7052271	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Good	BurnOld
132010	08/08/2011	IanLauzon	Montana	597124	7052257	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	40	Dry	Good	BurnOld
132011	08/08/2011	IanLauzon	Montana	597083	7052231	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	BurnOld
132012	09/08/2011	IanLauzon	Montana	599857	7051778	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry	Poor	BurnOld
132013	09/08/2011	IanLauzon	Montana	599932	7051806	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateE	B	60	Moist	Poor	BurnOld
132014	09/08/2011	IanLauzon	Montana	600019	7051850	UTM27N WGS84	Colluvium	Orange	Silt	ModerateW	C	50	Dry	Good	BurnOld
132015	09/08/2011	IanLauzon	Montana	600058	7051877	UTM27N WGS84	Lithosoil	Brown	Silt	ModerateW	B	40	Wet	Poor	BurnOld
132016	09/08/2011	IanLauzon	Montana	600098	7051908	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
132017	09/08/2011	IanLauzon	Montana	600143	7051929	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	50	Wet	Poor	BurnOld
132018	09/08/2011	IanLauzon	Montana	600185	7051954	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
132019	09/08/2011	IanLauzon	Montana	600231	7051978	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	50	Dry	Good	BurnOld
132020	09/08/2011	IanLauzon	Montana	600276	7052005	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Poor	BurnOld
132021	09/08/2011	IanLauzon	Montana	600311	7052020	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
132022	09/08/2011	IanLauzon	Montana	600361	7052044	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Poor	BurnOld
132023	09/08/2011	IanLauzon	Montana	600418	7052064	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	40	Dry	Poor	BurnOld
132024	09/08/2011	IanLauzon	Montana	600459	7052091	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	70	Dry	Good	BurnOld
132025	09/08/2011	IanLauzon	Montana	600497	7052117	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
132026	09/08/2011	IanLauzon	Montana	600545	7052136	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Dry	Excellent	BurnOld
132027	09/08/2011	IanLauzon	Montana	600582	7052175	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Good	BurnOld
132028	09/08/2011	IanLauzon	Montana	600644	7052183	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	60	Dry	Good	BurnOld
132029	09/08/2011	IanLauzon	Montana	600579	7052280	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry	Good	BurnOld
132030	09/08/2011	IanLauzon	Montana	600540	7052246	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Moist	Poor	BurnOld
132031	09/08/2011	IanLauzon	Montana	600488	7052224	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Poor	BurnOld
132032	09/08/2011	IanLauzon	Montana	600446	7052210	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Poor	BurnOld
132033	09/08/2011	IanLauzon	Montana	600397	7052182	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	30	Moist	Poor	BurnOld
132034	09/08/2011	IanLauzon	Montana	600360	7052144	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Poor	BurnOld
132035	09/08/2011	IanLauzon	Montana	600314	7052125	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	60	Dry	Good	BurnOld
132036	09/08/2011	IanLauzon	Montana	600258	7052113	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
132037	09/08/2011	IanLauzon	Montana	600214	7052084	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Poor	BurnOld
132038	09/08/2011	IanLauzon	Montana	600171	7052066	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Moist	Poor	BurnOld
132039	09/08/2011	IanLauzon	Montana	600131	7052043	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry	Good	BurnOld
132041	09/08/2011	IanLauzon	Montana	600088	7052021	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	BurnOld
132042	09/08/2011	IanLauzon	Montana	600045	7051998	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	60	Dry	Good	BurnOld
132043	09/08/2011	IanLauzon	Montana	600002	7051974	UTM27N WGS84	Colluvium	BrownLight	Silt	DrainageSeasonal	B	50	Wet	Poor	BurnOld
132044	09/08/2011	IanLauzon	Montana	599922	7051922	UTM27N WGS84	Colluvium	BrownDark	Silt	DrainageSeasonal	B	60	Wet	Poor	BurnOld
132045	09/08/2011	IanLauzon	Montana	599879	7051886	UTM27N WGS84	Colluvium	Brown	Silt	ModerateE	B	50	Moist	Poor	BurnOld
132046	10/08/2011	IanLauzon	Montana	596200	7049099	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	ForestMixed
132047	10/08/2011	IanLauzon	Montana	596252	7049116	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	ForestMixed
132048	10/08/2011	IanLauzon	Montana	596291	7049140	UTM27N WGS84	Colluvium	Orange	Silt	ModerateW	C	50	Dry	Good	ForestMixed
132049	10/08/2011	IanLauzon	Montana	596334	7049162	UTM27N WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Dry	Good	ForestMixed
132050	10/08/2011	IanLauzon	Montana	596372	7049185	UTM27N WGS84	Colluvium	Orange	Silt	ModerateW	C	60	Dry	Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
132051	10/08/2011	IanLauzon	Montana	596435	7049194	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateW	B	50	Moist	Poor	ForestMixed
132052	10/08/2011	IanLauzon	Montana	596473	7049235	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	60	Moist	Poor	ForestMixed
132053	10/08/2011	IanLauzon	Montana	596518	7049242	UTM27N WGS84	Colluvium	Tan	Clay	Flat	C	60	Dry	Good	ForestMixed
132054	10/08/2011	IanLauzon	Montana	596546	7049281	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Excellent	ForestMixed
132055	10/08/2011	IanLauzon	Montana	596601	7049297	UTM27N WGS84	Colluvium	Green	Clay	Flat	C	60	Dry	Poor	ForestMixed
132056	10/08/2011	IanLauzon	Montana	596631	7049343	UTM27N WGS84	Colluvium	Green	Clay	Flat	B	60	Frozen	Poor	ForestMixed
132057	10/08/2011	IanLauzon	Montana	596729	7049379	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	50	Frozen	Poor	ForestMixed
132058	10/08/2011	IanLauzon	Montana	596771	7049395	UTM27N WGS84	Colluvium	White	Clay	Flat	C	80	Frozen	Poor	ForestMixed
132059	10/08/2011	IanLauzon	Montana	596835	7049416	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	C	70	Moist	Good	ForestMixed
132060	10/08/2011	IanLauzon	Montana	596861	7049467	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	60	Frozen	Poor	ForestMixed
132061	10/08/2011	IanLauzon	Montana	596901	7049476	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	C	70	Frozen	Poor	ForestMixed
132062	10/08/2011	IanLauzon	Montana	596931	7049512	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	50	Frozen	Poor	ForestMixed
132063	10/08/2011	IanLauzon	Montana	596888	7049580	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	60	Frozen	Poor	ForestMixed
132064	10/08/2011	IanLauzon	Montana	596846	7049565	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	50	Frozen	Poor	ForestMixed
132065	10/08/2011	IanLauzon	Montana	596808	7049535	UTM27N WGS84	Colluvium	BrownLight	Clay	Flat	B	60	Frozen	Poor	ForestMixed
132066	10/08/2011	IanLauzon	Montana	596767	7049512	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	50	Moist	Poor	ForestMixed
132067	10/08/2011	IanLauzon	Montana	596613	7049452	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	60	Moist	Poor	ForestMixed
132068	10/08/2011	IanLauzon	Montana	596583	7049412	UTM27N WGS84	Colluvium	BrownDark	Clay	Flat	B	60	Wet	Poor	ForestMixed
132069	10/08/2011	IanLauzon	Montana	596546	7049395	UTM27N WGS84	Colluvium	Orange	Clay	Flat	C	60	Frozen	Good	ForestMixed
132070	10/08/2011	IanLauzon	Montana	596500	7049364	UTM27N WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry	Good	ForestMixed
132071	10/08/2011	IanLauzon	Montana	596448	7049340	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Dry	Good	ForestMixed
132072	10/08/2011	IanLauzon	Montana	596419	7049320	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	C	30	Dry	Excellent	ForestMixed
132073	10/08/2011	IanLauzon	Montana	596368	7049301	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateW	C	60	Dry	Good	ForestMixed
132074	10/08/2011	IanLauzon	Montana	596324	7049278	UTM27N WGS84	Colluvium	Orange	Silt	ModerateW	C	50	Dry	Good	ForestMixed
132075	10/08/2011	IanLauzon	Montana	596278	7049254	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateW	B	40	Dry	Good	ForestMixed
132076	10/08/2011	IanLauzon	Montana	596228	7049240	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	60	Dry	Good	ForestMixed
132077	10/08/2011	IanLauzon	Montana	596192	7049210	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	50	Dry	Good	ForestMixed
132078	10/08/2011	IanLauzon	Montana	596158	7049173	UTM27N WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Dry	Good	ForestMixed
132079	11/08/2011	IanLauzon	Montana	599984	7055593	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	BurnOld
132080	11/08/2011	IanLauzon	Montana	599918	7055600	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
132081	11/08/2011	IanLauzon	Montana	599876	7055599	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132082	11/08/2011	IanLauzon	Montana	599819	7055599	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132083	11/08/2011	IanLauzon	Montana	599731	7055604	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	50	Moist	Good	BurnOld
132084	11/08/2011	IanLauzon	Montana	599678	7055601	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132085	11/08/2011	IanLauzon	Montana	599580	7055596	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132086	11/08/2011	IanLauzon	Montana	599634	7055607	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	60	Dry	Good	BurnOld
132087	11/08/2011	IanLauzon	Montana	599532	7055602	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132088	11/08/2011	IanLauzon	Montana	599472	7055584	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132089	11/08/2011	IanLauzon	Montana	599423	7055594	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132091	11/08/2011	IanLauzon	Montana	599378	7055599	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132092	11/08/2011	IanLauzon	Montana	599337	7055605	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132093	11/08/2011	IanLauzon	Montana	599280	7055603	UTM27N WGS84	Colluvium	BrownLight	Silt	Flat	B	60	Wet	Poor	BurnOld
132094	11/08/2011	IanLauzon	Montana	599231	7055590	UTM27N WGS84	Colluvium	Brown	Silt	Flat	B	50	Wet	Poor	BurnOld
132095	11/08/2011	IanLauzon	Montana	599183	7055571	UTM27N WGS84	Colluvium	BrownDark	Silt	Flat	B	60	Wet	Poor	BurnOld
132096	11/08/2011	IanLauzon	Montana	599192	7055505	UTM27N WGS84	Colluvium	BrownDark	Silt	Flat	B	60	Moist	Poor	BurnOld
132097	11/08/2011	IanLauzon	Montana	599238	7055515	UTM27N WGS84	Colluvium	BrownDark	Silt	ModerateNW	B	60	Wet	Poor	BurnOld
132098	11/08/2011	IanLauzon	Montana	599292	7055503	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	70	Dry	Excellent	BurnOld
132099	11/08/2011	IanLauzon	Montana	599338	7055505	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132100	11/08/2011	IanLauzon	Montana	599383	7055505	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	60	Dry	Excellent	BurnOld
132101	11/08/2011	IanLauzon	Montana	599435	7055512	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132102	11/08/2011	IanLauzon	Montana	599493	7055496	UTM27N WGS84	Colluvium	Brown	Silt	ModerateNW	B	60	Dry	Good	BurnOld
132103	11/08/2011	IanLauzon	Montana	599547	7055495	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132104	11/08/2011	IanLauzon	Montana	599602	7055493	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	C	50	Dry	Excellent	BurnOld
132105	11/08/2011	IanLauzon	Montana	599644	7055501	UTM27N WGS84	Colluvium	Orange	Silt	ModerateNW	C	40	Dry	Good	BurnOld
132106	11/08/2011	IanLauzon	Montana	599698	7055501	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateNW	B	40	Dry	Good	BurnOld
132107	11/08/2011	IanLauzon	Montana	599738	7055501	UTM27N WGS84	Colluvium	BrownLight	Silt	ModerateNW	C	50	Moist	Good	BurnOld
132108	11/08/2011	IanLauzon	Montana	599847	7055499	UTM27N WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	60	Dry	Excellent	BurnOld

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
132109	11/08/2011	IanLauzon	Montana	599897	7055500	UTMZ7N WGS84	Colluvium	Orange	Silt	ModerateN	C	70	Dry	Excellent	BurnOld
132110	11/08/2011	IanLauzon	Montana	599939	7055500	UTMZ7N WGS84	Colluvium	Orange	Sand	ModerateN	C	60	Dry	Excellent	BurnOld
132111	11/08/2011	IanLauzon	Montana	600007	7055497	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
133001	14/08/2011	ShawnTaylor	Montana	594257	7051174	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133002	14/08/2011	ShawnTaylor	Montana	594305	7051186	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133003	14/08/2011	ShawnTaylor	Montana	594353	7051216	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133004	14/08/2011	ShawnTaylor	Montana	594384	7051254	UTMZ7N WGS84	Colluvium	Green	Sand		C	40	Moist	Excellent	ForestMixed
133005	14/08/2011	ShawnTaylor	Montana	594410	7051288	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
133006	14/08/2011	ShawnTaylor	Montana	594467	7051317	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	80	Moist	Excellent	ForestMixed
133007	14/08/2011	ShawnTaylor	Montana	594490	7051330	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133008	14/08/2011	ShawnTaylor	Montana	594553	7051343	UTMZ7N WGS84	Colluvium	Green	Sand		C	50	Moist	Excellent	ForestMixed
133009	14/08/2011	ShawnTaylor	Montana	594547	7051253	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Frozen	Excellent	ForestMixed
133010	14/08/2011	ShawnTaylor	Montana	594506	7051223	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
133011	14/08/2011	ShawnTaylor	Montana	594468	7051190	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133012	14/08/2011	ShawnTaylor	Montana	594436	7051178	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50	Frozen	Good	ForestMixed
133013	14/08/2011	ShawnTaylor	Montana	594370	7051155	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133014	14/08/2011	ShawnTaylor	Montana	594318	7051147	UTMZ7N WGS84	Colluvium	BrownDark	Sand		C	50	Moist	Excellent	ForestMixed
133015	14/08/2011	ShawnTaylor	Montana	594263	7051096	UTMZ7N WGS84	Colluvium	Yellow	Sand		C	70	Frozen	Excellent	ForestFir
133016	14/08/2011	ShawnTaylor	Montana	594196	7051060	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133017	14/08/2011	ShawnTaylor	Montana	594153	7051024	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Good	ForestMixed
133018	14/08/2011	ShawnTaylor	Montana	594107	7050979	UTMZ7N WGS84	Colluvium	BrownDark	Sand		B	40	Frozen	Good	ForestMixed
133019	14/08/2011	ShawnTaylor	Montana	594040	7050926	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
133020	14/08/2011	ShawnTaylor	Montana	593992	7050917	UTMZ7N WGS84	Colluvium	Brown	Sand		B	40	Frozen	Good	ForestMixed
133021	14/08/2011	ShawnTaylor	Montana	593945	7050877	UTMZ7N WGS84	Colluvium	Brown	Sand		B	80	Frozen	Good	ForestMixed
145417	08/08/2011	TomStridsland	Montana	598670	7052852	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30		Poor	
145418	08/08/2011	TomStridsland	Montana	598625	7052826	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Poor	
145419	08/08/2011	TomStridsland	Montana	598577	7052809	UTMZ7N WGS84	Colluvium	Grey	Silt		B	60		Good	
145420	08/08/2011	TomStridsland	Montana	598542	7052781	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	40		Good	
145421	08/08/2011	TomStridsland	Montana	598456	7052740	UTMZ7N WGS84	Colluvium	Grey	Silt		B	40		Poor	
145422	08/08/2011	TomStridsland	Montana	598399	7052706	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145423	08/08/2011	TomStridsland	Montana	598361	7052688	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145424	08/08/2011	TomStridsland	Montana	598317	7052668	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Good	
145425	08/08/2011	TomStridsland	Montana	598278	7052639	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Good	
145426	08/08/2011	TomStridsland	Montana	598226	7052620	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Good	
145427	08/08/2011	TomStridsland	Montana	598184	7052594	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30		Poor	
145428	08/08/2011	TomStridsland	Montana	598140	7052566	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50			
145429	08/08/2011	TomStridsland	Montana	598101	7052545	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
145430	08/08/2011	TomStridsland	Montana	598055	7052518	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Good	
145431	08/08/2011	TomStridsland	Montana	598003	7052502	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145432	08/08/2011	TomStridsland	Montana	597963	7052483	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	30		Poor	
145433	08/08/2011	TomStridsland	Montana	597925	7052457	UTMZ7N WGS84	Colluvium	Grey	Sand		B	40		Good	
145434	08/08/2011	TomStridsland	Montana	597881	7052421	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	80		Excellent	
145435	08/08/2011	TomStridsland	Montana	597829	7052404	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	40		Good	
145436	08/08/2011	TomStridsland	Montana	597782	7052384	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	40		Poor	
145437	08/08/2011	TomStridsland	Montana	597744	7052357	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		C	50		Good	
145438	08/08/2011	TomStridsland	Montana	597696	7052332	UTMZ7N WGS84	Colluvium	Grey	Sand		C	60		Excellent	
145439	08/08/2011	TomStridsland	Montana	597664	7052302	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30		Poor	
145440	08/08/2011	TomStridsland	Montana	597616	7052282	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40		Poor	
145441	08/08/2011	TomStridsland	Montana	597574	7052258	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	80		Excellent	
145442	08/08/2011	TomStridsland	Montana	597527	7052226	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		B	40		Good	
145443	08/08/2011	TomStridsland	Montana	597486	7052217	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145444	08/08/2011	TomStridsland	Montana	597443	7052187	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		B	60		Excellent	
145445	08/08/2011	TomStridsland	Montana	597387	7052176	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145446	08/08/2011	TomStridsland	Montana	597361	7052140	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145447	08/08/2011	TomStridsland	Montana	597308	7052114	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145448	08/08/2011	TomStridsland	Montana	597265	7052107	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	40		Poor	
145449	08/08/2011	TomStridsland	Montana	597215	7052078	UTMZ7N WGS84	Colluvium	Brown	Sand		B	60		Poor	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
145451	09/08/2011	TomStridsland	Montana	600250	7051308	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	60		Poor	
145452	09/08/2011	TomStridsland	Montana	600290	7051325	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145453	09/08/2011	TomStridsland	Montana	600333	7051357	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145454	09/08/2011	TomStridsland	Montana	600380	7051378	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	80		Excellent	
145455	09/08/2011	TomStridsland	Montana	600422	7051397	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145456	09/08/2011	TomStridsland	Montana	600469	7051420	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145457	09/08/2011	TomStridsland	Montana	600508	7051447	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145458	09/08/2011	TomStridsland	Montana	600553	7051479	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145459	09/08/2011	TomStridsland	Montana	600599	7051493	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50		Poor	
145460	09/08/2011	TomStridsland	Montana	600646	7051515	UTMZ7N WGS84	Colluvium	BrownLight	Gravel		B	40		Poor	
145461	09/08/2011	TomStridsland	Montana	600693	7051541	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		B	80		Good	
145462	09/08/2011	TomStridsland	Montana	600731	7051562	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	70		Good	
145463	09/08/2011	TomStridsland	Montana	600820	7051609	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Poor	
145464	09/08/2011	TomStridsland	Montana	600861	7051637	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50		Good	
145465	09/08/2011	TomStridsland	Montana	600860	7051744	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145466	09/08/2011	TomStridsland	Montana	600814	7051721	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Poor	
145467	09/08/2011	TomStridsland	Montana	600768	7051688	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		B	80			
145468	09/08/2011	TomStridsland	Montana	600729	7051673	UTMZ7N WGS84	Colluvium	Tan	Sand		B	70		Good	
145469	09/08/2011	TomStridsland	Montana	600692	7051657	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30		Poor	
145471	09/08/2011	TomStridsland	Montana	600601	7051602	UTMZ7N WGS84	Colluvium	Brown	Sand		B	30		Poor	
145472	09/08/2011	TomStridsland	Montana	600552	7051576	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Poor	
145473	09/08/2011	TomStridsland	Montana	600504	7051560	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	40		Poor	
145474	09/08/2011	TomStridsland	Montana	600461	7051531	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145475	09/08/2011	TomStridsland	Montana	600413	7051507	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	70		Good	
145476	09/08/2011	TomStridsland	Montana	600370	7051481	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	70		Good	
145477	09/08/2011	TomStridsland	Montana	600334	7051460	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145478	09/08/2011	TomStridsland	Montana	600288	7051440	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145479	09/08/2011	TomStridsland	Montana	600246	7051412	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Good	
145480	09/08/2011	TomStridsland	Montana	600201	7051391	UTMZ7N WGS84	Colluvium	Grey	Silt		B	80	Wet	Poor	
145481	10/08/2011	TomStridsland	Montana	599978	7054707	UTMZ7N WGS84	Colluvium	Grey	Sand		C	80		Good	
145482	10/08/2011	TomStridsland	Montana	599937	7054696	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60		Poor	
145483	10/08/2011	TomStridsland	Montana	599889	7054706	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60		Good	
145484	10/08/2011	TomStridsland	Montana	599833	7054697	UTMZ7N WGS84	Colluvium	Grey	Sand		B	70		Good	
145485	10/08/2011	TomStridsland	Montana	599778	7054710	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60		Poor	
145486	10/08/2011	TomStridsland	Montana	599729	7054703	UTMZ7N WGS84	Colluvium	Grey	Sand		B	50		Good	
145487	10/08/2011	TomStridsland	Montana	599686	7054703	UTMZ7N WGS84	Colluvium	Grey	Gravel		B	40		Poor	
145488	10/08/2011	TomStridsland	Montana	599633	7054702	UTMZ7N WGS84	Colluvium	BrownLight	Gravel		B	40		Poor	
145489	10/08/2011	TomStridsland	Montana	599584	7054704	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	70		Good	
145490	10/08/2011	TomStridsland	Montana	599543	7054704	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Excellent	
145491	10/08/2011	TomStridsland	Montana	599485	7054700	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	70		Good	
145492	10/08/2011	TomStridsland	Montana	599428	7054699	UTMZ7N WGS84	Colluvium	Tan	Gravel		B	20		Poor	
145493	10/08/2011	TomStridsland	Montana	599377	7054701	UTMZ7N WGS84	Colluvium	Tan	Gravel		B	50		Good	
145494	10/08/2011	TomStridsland	Montana	599331	7054705	UTMZ7N WGS84	Colluvium	Brown	Silt		B	90	Wet	Poor	
145495	10/08/2011	TomStridsland	Montana	599286	7054703	UTMZ7N WGS84	Colluvium	Grey	Clay		B	90		Poor	
145496	10/08/2011	TomStridsland	Montana	599243	7054813	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145497	10/08/2011	TomStridsland	Montana	599336	7054807	UTMZ7N WGS84	Colluvium	BrownLight	Gravel		B	40		Poor	
145498	10/08/2011	TomStridsland	Montana	599380	7054805	UTMZ7N WGS84	Colluvium	BrownDark	Clay		B	90	Wet	Poor	
145499	10/08/2011	TomStridsland	Montana	599439	7054810	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145500	10/08/2011	TomStridsland	Montana	599482	7054798	UTMZ7N WGS84	Colluvium	BrownLight	Gravel		B	50		Good	
145501	10/08/2011	TomStridsland	Montana	599535	7054808	UTMZ7N WGS84	Colluvium	Grey	Sand		B	50		Good	
145502	10/08/2011	TomStridsland	Montana	599584	7054809	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145503	10/08/2011	TomStridsland	Montana	599633	7054795	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145504	10/08/2011	TomStridsland	Montana	599680	7054807	UTMZ7N WGS84	Colluvium	BrownLight	Silt		C	60		Excellent	
145505	10/08/2011	TomStridsland	Montana	599740	7054808	UTMZ7N WGS84	Colluvium	Grey	Sand		C	70		Excellent	
145506	10/08/2011	TomStridsland	Montana	599786	7054805	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60		Good	
145507	10/08/2011	TomStridsland	Montana	599836	7054810	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	40		Poor	
145508	10/08/2011	TomStridsland	Montana	599892	7054803	UTMZ7N WGS84	Colluvium	Grey	Sand		B	60		Good	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
145509	10/08/2011	TomStridsland	Montana	599936	7054805	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Good	
145510	10/08/2011	TomStridsland	Montana	599973	7054804	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Poor	
145511	11/08/2011	TomStridsland	Montana	601776	7048952	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	80	Wet	Poor	
145512	11/08/2011	TomStridsland	Montana	601758	7048996	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	80	Wet	Poor	
145513	11/08/2011	TomStridsland	Montana	601717	7049096	UTMZ7N WGS84	Colluvium	Grey	Sand		C	80	Wet	Poor	
145514	11/08/2011	TomStridsland	Montana	601699	7049122	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Poor	
145515	11/08/2011	TomStridsland	Montana	601670	7049181	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60		Excellent	
145516	11/08/2011	TomStridsland	Montana	601647	7049226	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Excellent	
145517	11/08/2011	TomStridsland	Montana	601628	7049265	UTMZ7N WGS84	Colluvium	Tan	Sand		C	70		Good	
145518	11/08/2011	TomStridsland	Montana	601605	7049321	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	80		Poor	
145519	11/08/2011	TomStridsland	Montana	601578	7049363	UTMZ7N WGS84	Colluvium	Grey	Gravel		B	90	Wet	Poor	
145520	11/08/2011	TomStridsland	Montana	601569	7049413	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	70		Good	
145521	11/08/2011	TomStridsland	Montana	601542	7049453	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145522	11/08/2011	TomStridsland	Montana	601499	7049548	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60	Wet	Good	
145523	11/08/2011	TomStridsland	Montana	601465	7049593	UTMZ7N WGS84	Colluvium	Grey	Sand		B	50		Good	
145524	11/08/2011	TomStridsland	Montana	601455	7049633	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	70		Excellent	
145525	11/08/2011	TomStridsland	Montana	601436	7049680	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	40		Good	
145526	11/08/2011	TomStridsland	Montana	601415	7049726	UTMZ7N WGS84	Colluvium	Brown	Silt		B	40		Poor	
145527	11/08/2011	TomStridsland	Montana	601322	7049681	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50		Poor	
145528	11/08/2011	TomStridsland	Montana	601334	7049634	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145529	11/08/2011	TomStridsland	Montana	601370	7049590	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	60		Excellent	
145530	11/08/2011	TomStridsland	Montana				Colluvium	Green	Sand		C	80		Excellent	
145531	11/08/2011	TomStridsland	Montana	601420	7049496	UTMZ7N WGS84	Colluvium	Green	Sand		C	60		Excellent	
145532	11/08/2011	TomStridsland	Montana	601444	7049448	UTMZ7N WGS84	Colluvium	Grey	Gravel		B	90	Wet	Poor	
145533	11/08/2011	TomStridsland	Montana	601478	7049368	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		C	60		Excellent	
145534	11/08/2011	TomStridsland	Montana	601493	7049319	UTMZ7N WGS84	Colluvium	Green	Sand		C	70		Excellent	
145535	11/08/2011	TomStridsland	Montana	601530	7049266	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145536	11/08/2011	TomStridsland	Montana	601542	7049230	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145537	11/08/2011	TomStridsland	Montana	601575	7049139	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	70	Wet	Good	
145538	11/08/2011	TomStridsland	Montana	601680	7048910	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145539	11/08/2011	TomStridsland	Montana	601668	7048954	UTMZ7N WGS84	Colluvium	Grey	Sand		C	70		Excellent	
145540	11/08/2011	TomStridsland	Montana	601646	7049001	UTMZ7N WGS84	Colluvium	Tan	Silt		C	50		Excellent	
145541	11/08/2011	TomStridsland	Montana	601625	7049047	UTMZ7N WGS84	Colluvium	Grey	Gravel		B	40	Wet	Good	
145542	11/08/2011	TomStridsland	Montana	601598	7049093	UTMZ7N WGS84	Colluvium	Grey	Sand		B	80	Wet	Poor	
145613	15/08/2011	TomStridsland	Montana	593740	7051374	UTMZ7N WGS84	Colluvium	Tan	Silt		C	60		Excellent	
145614	15/08/2011	TomStridsland	Montana	593790	7051407	UTMZ7N WGS84	Colluvium	RustyRed	Sand		B	40		Good	
145615	15/08/2011	TomStridsland	Montana	593825	7051435	UTMZ7N WGS84	Colluvium	Tan	Silt		C	70		Excellent	
145616	15/08/2011	TomStridsland	Montana	593877	7051463	UTMZ7N WGS84	Colluvium	Tan	Sand		B	50		Good	
145617	15/08/2011	TomStridsland	Montana	593926	7051474	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145618	15/08/2011	TomStridsland	Montana	593966	7051488	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		B	40		Good	
145619	15/08/2011	TomStridsland	Montana	594031	7051513	UTMZ7N WGS84	Colluvium	RustyOrange	Silt		B	50		Excellent	
145620	15/08/2011	TomStridsland	Montana	594110	7051582	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		C	60		Excellent	
145621	15/08/2011	TomStridsland	Montana	594194	7051633	UTMZ7N WGS84	Colluvium	Tan	Silt		C	80			
145622	15/08/2011	TomStridsland	Montana	594240	7051634	UTMZ7N WGS84	Colluvium	Tan	Silt		B	30		Excellent	
145623	15/08/2011	TomStridsland	Montana	594278	7051664	UTMZ7N WGS84	Colluvium	Green	Sand		C	40		Excellent	
145624	15/08/2011	TomStridsland	Montana	594325	7051687	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Excellent	
145625	15/08/2011	TomStridsland	Montana	594372	7051716	UTMZ7N WGS84	Colluvium	Grey	Sand		B	40		Excellent	
145626	15/08/2011	TomStridsland	Montana	594410	7051729	UTMZ7N WGS84	Colluvium	BrownLight	Sand		C	80		Excellent	
145627	15/08/2011	TomStridsland	Montana	594455	7051754	UTMZ7N WGS84	Colluvium	BrownLight	Clay		B	40		Poor	
145628	15/08/2011	TomStridsland	Montana	594503	7051663	UTMZ7N WGS84	Colluvium	BrownLight	Silt		B	40		Poor	
145629	15/08/2011	TomStridsland	Montana	594453	7051644	UTMZ7N WGS84	Colluvium	Green	Sand		B	50		Good	
145630	15/08/2011	TomStridsland	Montana	594416	7051616	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60		Excellent	
145631	15/08/2011	TomStridsland	Montana	594380	7051585	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Excellent	
145632	15/08/2011	TomStridsland	Montana	594321	7051556	UTMZ7N WGS84	Colluvium	Grey	Sand		B	40		Good	
145633	15/08/2011	TomStridsland	Montana	594286	7051534	UTMZ7N WGS84	Colluvium	Tan	Silt		C	60		Excellent	
145634	15/08/2011	TomStridsland	Montana	594248	7051505	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Excellent	
145635	15/08/2011	TomStridsland	Montana	594192	7051493	UTMZ7N WGS84	Colluvium	Brown	Sand		B	50		Good	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Block	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
145636	15/08/2011	TomStridland	Montana	594145	7051470	UTMZ7N WGS84	Colluvium	BrownLight	Gravel		B	40		Good	
145637	15/08/2011	TomStridland	Montana	594099	7051436	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	50		Good	
145638	15/08/2011	TomStridland	Montana	594048	7051441	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Excellent	
145639	15/08/2011	TomStridland	Montana	593985	7051423	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145640	15/08/2011	TomStridland	Montana	593955	7051393	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	60		Good	
145641	15/08/2011	TomStridland	Montana	593922	7051362	UTMZ7N WGS84	Colluvium	Tan	Sand		C	60		Excellent	
145642	15/08/2011	TomStridland	Montana	593882	7051349	UTMZ7N WGS84	Colluvium	RustyOrange	Sand		C	70		Excellent	
145643	15/08/2011	TomStridland	Montana	593840	7051309	UTMZ7N WGS84	Colluvium	BrownDark	Sand		C	60		Good	
145644	15/08/2011	TomStridland	Montana	593793	7051287	UTMZ7N WGS84	Colluvium	BrownLight	Sand		B	30		Poor	
145645	15/08/2011	TomStridland	Montana	593765	7051236	UTMZ7N WGS84	Colluvium	Tan	Sand		C	50		Excellent	
146400	16/08/2011	JordanHarrington	Montana	597492	7056340	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateN	B	50	Moist	Poor	ForestBlackSpruce
146401	16/08/2011	JordanHarrington	Montana	597456	7056317	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateN	B	60	Frozen	Poor	ForestBlackSpruce
146402	16/08/2011	JordanHarrington	Montana	597501	7056239	UTMZ7N WGS84	Colluvium	Brown	Clay	ModerateN	B	80	Frozen	Poor	ForestBlackSpruce
146403	16/08/2011	JordanHarrington	Montana	597545	7056258	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Wet	Good	ForestBlackSpruce
146404	16/08/2011	JordanHarrington	Montana	597585	7056275	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Frozen	Good	ForestBlackSpruce
146405	16/08/2011	JordanHarrington	Montana	597630	7056292	UTMZ7N WGS84	Lithosoil	Brown	Silt	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
146406	16/08/2011	JordanHarrington	Montana	597683	7056319	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	B	70	Wet	Poor	ForestBlackSpruce
146407	16/08/2011	JordanHarrington	Montana	597801	7056284	UTMZ7N WGS84	Colluvium	Brown	Silt	SteepN	B	50	Moist	Poor	ForestBlackSpruce
146408	16/08/2011	JordanHarrington	Montana	597767	7056265	UTMZ7N WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	60	Dry	Excellent	BurnOld
146409	16/08/2011	JordanHarrington	Montana	597726	7056237	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Dry	Good	BurnOld
146410	16/08/2011	JordanHarrington	Montana	597681	7056207	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	BurnOld
146411	16/08/2011	JordanHarrington	Montana	597633	7056185	UTMZ7N WGS84	Colluvium	Green	Silt	Ridge	C	80	Dry	Excellent	BurnOld
146412	16/08/2011	JordanHarrington	Montana	597594	7056160	UTMZ7N WGS84	Colluvium	Blue	Sand	Ridge	C	70	Dry	Excellent	BurnOld
146413	16/08/2011	JordanHarrington	Montana	597542	7056141	UTMZ7N WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	BurnOld
146414	16/08/2011	JordanHarrington	Montana	597596	7056046	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	50	Frozen	Poor	BurnOld
146415	16/08/2011	JordanHarrington	Montana	597638	7056085	UTMZ7N WGS84	Colluvium	Brown	Sand	ModerateSE	B	60	Frozen	Poor	BurnNew
146416	16/08/2011	JordanHarrington	Montana	597673	7056109	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	ForestBlackSpruce
146417	16/08/2011	JordanHarrington	Montana	597722	7056131	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	ForestBlackSpruce
146418	16/08/2011	JordanHarrington	Montana	597761	7056148	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	BurnOld
146419	16/08/2011	JordanHarrington	Montana	597812	7056177	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	70	Dry	Excellent	BurnOld
146420	16/08/2011	JordanHarrington	Montana	597857	7056200	UTMZ7N WGS84	Colluvium	Grey	Silt	Ridge	C	70	Dry	Good	BurnOld
146421	16/08/2011	JordanHarrington	Montana	597897	7056215	UTMZ7N WGS84	Colluvium	Grey	Silt	Ridge	C	30	Dry	Good	ForestAspen
146422	16/08/2011	JordanHarrington	Montana	597949	7056239	UTMZ7N WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Good	ForestMixed
146423	16/08/2011	JordanHarrington	Montana	597993	7056160	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry	Good	ForestMixed
146424	16/08/2011	JordanHarrington	Montana	597948	7056129	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Good	ForestMixed
146425	16/08/2011	JordanHarrington	Montana	597899	7056104	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateS	C	70	Dry	Good	ForestMixed
146426	16/08/2011	JordanHarrington	Montana	597869	7056082	UTMZ7N WGS84	Colluvium	Grey	Silt	ModerateS	B	70	Frozen	Poor	ForestMixed
146427	16/08/2011	JordanHarrington	Montana	597821	7056056	UTMZ7N WGS84	Colluvium	Grey	Silt	Flat	B	80	Frozen	Poor	ForestBlackSpruce
146428	16/08/2011	JordanHarrington	Montana	597776	7056033	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	B	90	Frozen	Poor	ForestBlackSpruce
146429	16/08/2011	JordanHarrington	Montana	597733	7056006	UTMZ7N WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	80	Frozen	Poor	ForestBlackSpruce
146430	16/08/2011	JordanHarrington	Montana	597684	7055981	UTMZ7N WGS84	Colluvium	Brown	Silt	ModerateSE	B	80	Frozen	Poor	ForestBlackSpruce
146431	16/08/2011	JordanHarrington	Montana	597641	7055956	UTMZ7N WGS84	Colluvium	Brown	Silt	Flat	B	60	Frozen	Poor	ForestBlackSpruce
146432	16/08/2011	JordanHarrington	Montana	597733	7055902	UTMZ7N WGS84	Colluvium	Grey	Clay	Flat	B	80	Frozen	Poor	ForestBlackSpruce
146433	16/08/2011	JordanHarrington	Montana	597691	7055875	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	70	Frozen	Poor	ForestBlackSpruce
146434	16/08/2011	JordanHarrington	Montana	597653	7055860	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	80	Frozen	Poor	ForestBlackSpruce
146435	16/08/2011	JordanHarrington	Montana	597607	7055835	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	60	Frozen	Poor	BurnOld
146436	16/08/2011	JordanHarrington	Montana	597562	7055805	UTMZ7N WGS84	Colluvium	Grey	Clay	ModerateSE	B	50	Frozen	Poor	ForestBlackSpruce

Appendix C - Analytical Certificates (Volume II)



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5 Canada

Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 23, 2011
Report Date: July 07, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000297.1

CLIENT JOB INFORMATION

Project: Bishop
Shipment ID: 20110620102451
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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

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			WHI
Dry at 60C	320	Dry at 60C			WHI
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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: Bishop
 Report Date: July 07, 2011

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CERTIFICATE OF ANALYSIS

WHI11000297.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
101147	Soil	1.6	10.7	11.1	65	0.1	20.8	3.1	107	2.46	9.0	1.3	3.6	17.6	12	0.2	0.3	0.3	24	0.17	0.033
101148	Soil	1.5	13.0	15.4	90	<0.1	14.4	6.4	177	3.37	10.5	1.8	4.5	21.8	15	<0.1	0.5	0.2	37	0.13	0.033
101149	Soil	2.5	17.6	12.1	109	<0.1	26.0	11.9	280	4.06	18.3	4.4	1.8	21.3	12	<0.1	0.4	0.4	38	0.11	0.027
101150	Soil	1.2	7.2	12.7	72	<0.1	6.2	3.4	117	2.39	9.6	3.0	2.0	13.0	13	<0.1	0.4	0.2	18	0.03	0.016
101151	Soil	1.8	7.2	19.2	58	<0.1	9.5	4.3	196	2.19	7.7	2.1	1.2	11.1	10	0.2	0.3	0.4	25	0.12	0.019
101152	Soil	0.6	21.8	17.1	79	<0.1	10.1	7.7	445	3.90	10.5	2.4	2.8	6.7	255	0.1	0.5	0.3	87	0.68	0.110
101153	Soil	1.0	20.3	11.8	60	<0.1	17.9	8.0	285	2.85	13.3	1.2	8.3	6.1	84	<0.1	0.7	0.2	63	0.42	0.048
101154	Soil	0.6	15.3	6.5	61	<0.1	8.9	7.8	642	3.65	17.2	1.3	3.1	10.2	143	<0.1	0.5	<0.1	72	0.58	0.136
101155	Soil	0.4	16.2	19.5	68	<0.1	7.6	7.8	827	4.19	10.6	3.0	3.1	9.5	409	<0.1	0.3	0.3	72	1.01	0.214
101156	Soil	0.5	13.4	13.6	57	<0.1	6.3	5.6	459	2.88	6.1	2.6	3.4	11.7	45	<0.1	1.2	0.1	61	0.74	0.162
101157	Soil	0.8	8.9	15.0	108	<0.1	8.8	6.3	618	3.90	11.1	1.5	1.1	7.4	318	0.3	0.7	0.3	80	0.40	0.035
101158	Soil	0.8	22.2	29.3	96	<0.1	19.4	10.2	410	3.10	12.2	1.6	3.2	7.9	76	0.3	0.8	0.2	61	0.42	0.064
101159	Soil	0.7	12.8	15.6	86	<0.1	16.7	8.0	258	2.45	8.7	0.5	0.8	3.9	44	0.2	0.4	0.2	60	0.26	0.046
101160	Soil	0.9	8.4	10.1	65	<0.1	13.9	7.8	438	2.67	7.0	0.6	3.3	3.8	74	0.2	0.4	0.2	66	0.33	0.044
101161	Soil	1.1	15.3	22.1	122	<0.1	9.3	7.9	418	4.38	13.1	1.3	3.5	8.0	165	0.1	0.9	0.6	85	0.51	0.072
101162	Soil	1.5	17.1	34.2	246	<0.1	10.1	7.3	277	4.30	13.9	1.5	1.4	7.1	44	0.3	0.8	0.4	103	0.48	0.060
101163	Soil	1.2	19.5	13.3	74	<0.1	17.6	10.8	478	4.14	13.4	1.1	2.1	5.8	44	<0.1	0.6	0.1	103	0.45	0.068
101164	Soil	1.0	14.5	10.7	82	<0.1	15.0	7.9	477	3.50	11.5	1.1	2.8	6.8	64	<0.1	0.5	0.1	87	0.35	0.037
101165	Soil	1.1	18.2	11.0	69	<0.1	15.4	8.6	517	3.45	10.8	1.3	3.5	7.1	41	<0.1	0.5	0.2	82	0.41	0.068
101166	Soil	0.7	11.6	8.1	50	<0.1	15.3	6.7	241	2.46	7.5	0.6	2.7	4.2	29	<0.1	0.4	0.1	57	0.31	0.025
101167	Soil	0.6	22.9	8.9	52	<0.1	17.5	7.3	370	2.56	10.4	1.5	5.2	5.7	68	<0.1	0.5	0.2	65	0.60	0.068
101168	Soil	0.8	17.2	15.5	73	<0.1	8.8	9.4	557	3.10	14.7	1.3	1.7	7.8	72	<0.1	0.4	0.2	80	0.90	0.127
101169	Soil	1.1	14.1	9.4	57	<0.1	16.1	7.0	277	2.74	10.8	0.7	1.5	4.8	33	<0.1	0.5	0.2	69	0.41	0.040
101170	Soil	1.1	23.5	29.6	47	0.2	18.4	6.5	205	2.58	19.1	1.4	3.9	8.8	22	<0.1	1.6	0.3	52	0.19	0.017
101171	Soil	0.7	14.7	18.3	25	0.1	9.0	3.4	102	1.52	15.1	0.9	4.0	6.2	17	<0.1	1.0	0.5	35	0.15	0.018
101172	Soil	0.9	16.3	10.6	38	0.1	16.1	6.0	146	2.06	11.6	1.0	2.2	8.0	17	<0.1	0.8	0.3	40	0.15	0.010
101173	Soil	1.5	18.6	13.1	26	0.1	11.5	3.4	103	1.40	11.9	1.9	2.5	7.8	22	<0.1	0.8	0.7	26	0.22	0.021
101174	Soil	0.7	24.1	12.0	39	<0.1	16.8	6.8	176	2.31	10.7	2.7	2.8	6.9	22	<0.1	0.7	0.3	47	0.27	0.013
101175	Soil	0.9	34.0	35.9	61	0.1	22.2	8.9	106	3.05	23.2	1.5	6.6	9.6	30	0.2	1.2	0.6	49	0.27	0.015
101176	Soil	1.0	29.1	35.9	59	0.4	17.3	6.9	244	2.20	19.5	3.0	3.4	2.9	34	0.3	0.8	0.7	37	0.30	0.059

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
101147	Soil	38	16	0.18	167	0.004	<1	1.46	0.004	0.08	<0.1	<0.01	2.1	0.1	0.08	4	<0.5	<0.2
101148	Soil	26	24	0.26	152	0.012	1	1.64	0.005	0.08	<0.1	<0.01	4.0	0.1	<0.05	5	0.7	<0.2
101149	Soil	53	20	0.15	159	0.002	1	1.27	0.002	0.08	<0.1	0.02	5.4	0.3	<0.05	5	0.7	<0.2
101150	Soil	9	12	0.12	87	0.003	1	1.29	0.003	0.07	<0.1	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2
101151	Soil	5	16	0.13	103	0.008	<1	1.03	0.006	0.05	<0.1	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
101152	Soil	32	25	0.82	934	0.219	<1	2.25	0.118	0.20	0.1	<0.01	8.6	0.1	<0.05	8	<0.5	<0.2
101153	Soil	24	33	0.56	333	0.082	1	1.86	0.014	0.07	0.2	0.02	6.8	<0.1	<0.05	5	0.7	<0.2
101154	Soil	32	19	0.76	386	0.095	<1	1.85	0.014	0.10	0.2	<0.01	10.2	<0.1	<0.05	7	<0.5	<0.2
101155	Soil	48	14	1.33	635	0.096	<1	2.21	0.037	0.12	0.2	<0.01	12.0	0.2	<0.05	8	<0.5	<0.2
101156	Soil	30	13	0.47	166	0.064	<1	1.49	0.008	0.05	0.5	0.01	9.5	<0.1	<0.05	5	<0.5	<0.2
101157	Soil	22	20	0.53	450	0.119	2	2.75	0.016	0.09	0.3	<0.01	7.3	0.3	<0.05	9	<0.5	<0.2
101158	Soil	25	35	0.52	335	0.084	1	1.97	0.016	0.08	0.2	0.01	8.0	<0.1	<0.05	6	<0.5	<0.2
101159	Soil	13	28	0.46	224	0.059	<1	1.78	0.008	0.05	0.2	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
101160	Soil	13	26	0.46	371	0.069	1	1.82	0.011	0.08	0.2	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
101161	Soil	14	24	0.75	714	0.119	2	2.85	0.013	0.19	0.3	<0.01	8.7	0.4	<0.05	9	<0.5	<0.2
101162	Soil	22	27	0.76	539	0.107	<1	2.84	0.014	0.08	0.3	<0.01	7.3	0.2	<0.05	9	0.7	<0.2
101163	Soil	15	41	0.85	534	0.083	<1	3.14	0.013	0.10	<0.1	<0.01	7.7	0.2	<0.05	8	<0.5	<0.2
101164	Soil	16	30	0.54	429	0.077	<1	3.03	0.012	0.07	0.2	<0.01	7.1	0.2	<0.05	9	<0.5	<0.2
101165	Soil	20	31	0.85	346	0.091	<1	2.46	0.013	0.07	0.2	0.01	6.9	0.1	<0.05	7	<0.5	<0.2
101166	Soil	15	28	0.49	256	0.058	<1	1.58	0.010	0.05	0.1	0.01	3.3	<0.1	<0.05	5	0.5	<0.2
101167	Soil	29	26	0.59	358	0.061	<1	1.87	0.016	0.06	0.1	0.03	5.6	<0.1	<0.05	6	0.5	<0.2
101168	Soil	24	18	0.67	559	0.049	<1	2.27	0.015	0.14	0.1	0.03	7.7	0.2	<0.05	8	<0.5	<0.2
101169	Soil	16	29	0.53	341	0.057	<1	1.95	0.011	0.06	0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
101170	Soil	21	30	0.40	327	0.056	1	1.66	0.010	0.09	0.1	0.16	4.1	0.2	<0.05	5	0.7	<0.2
101171	Soil	20	15	0.21	161	0.022	<1	1.12	0.006	0.07	<0.1	0.04	1.6	0.1	<0.05	3	<0.5	<0.2
101172	Soil	17	22	0.29	175	0.032	<1	1.26	0.007	0.06	<0.1	0.02	2.3	0.1	<0.05	4	<0.5	<0.2
101173	Soil	16	15	0.23	217	0.019	1	0.93	0.009	0.09	0.1	0.03	2.4	0.1	<0.05	3	0.6	<0.2
101174	Soil	18	29	0.42	322	0.044	<1	1.67	0.009	0.08	<0.1	0.04	4.3	0.1	<0.05	5	<0.5	<0.2
101175	Soil	24	30	0.27	331	0.018	<1	2.76	0.009	0.11	<0.1	0.05	5.7	0.3	<0.05	7	<0.5	<0.2
101176	Soil	19	21	0.30	373	0.014	<1	1.41	0.010	0.10	0.1	0.05	3.3	0.1	<0.05	4	0.6	<0.2

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 Report Date: July 07, 2011

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CERTIFICATE OF ANALYSIS

WHI11000297.1

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
		ppm	ppm	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	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
101177	Soil	0.9	14.9	14.4	51	0.1	17.5	8.0	228	2.54	11.9	0.7	4.0	4.8	21	<0.1	0.6	0.2	53	0.19	0.023		
101178	Soil	0.8	22.7	13.7	58	<0.1	21.4	7.7	272	2.44	11.1	2.1	16.1	6.3	27	<0.1	0.7	0.2	46	0.27	0.024		
101179	Soil	0.8	20.5	18.3	49	0.1	16.0	5.0	143	2.01	10.0	2.0	2.8	6.0	26	<0.1	0.7	0.3	38	0.27	0.048		
101180	Soil	0.9	19.0	57.9	59	0.3	12.8	4.1	115	1.99	104.1	2.3	2.2	6.8	35	<0.1	0.9	0.7	31	0.22	0.038		
101181	Soil	0.6	23.9	16.1	64	<0.1	18.3	5.1	164	1.99	10.0	1.6	1.9	11.3	35	<0.1	0.7	0.4	36	0.30	0.041		
101182	Soil	0.8	13.4	31.8	50	<0.1	8.7	3.1	91	1.02	5.6	2.4	0.9	23.8	24	<0.1	0.3	0.7	14	0.14	0.013		
101183	Soil	0.8	15.3	13.5	37	<0.1	12.0	3.9	111	1.71	5.8	1.4	2.3	7.0	20	<0.1	0.4	0.4	32	0.21	0.030		
101184	Soil	1.4	17.5	17.8	93	0.1	22.7	11.2	301	2.81	15.7	1.5	2.9	7.0	24	0.1	0.3	0.6	22	0.27	0.021		
101185	Soil	1.3	14.0	11.4	42	<0.1	14.3	5.2	227	2.04	6.6	0.8	2.5	4.2	16	<0.1	0.4	0.2	28	0.19	0.026		
101186	Soil	0.9	35.9	39.5	178	<0.1	16.6	5.6	190	2.62	12.5	3.2	15.4	23.2	22	0.1	0.5	3.2	33	0.32	0.019		
101187	Soil	1.0	25.3	13.3	56	<0.1	19.6	8.0	167	2.49	10.7	0.7	5.1	6.8	19	0.1	0.6	0.7	47	0.24	0.026		
101188	Soil	1.3	27.3	14.1	63	<0.1	20.4	9.3	248	2.56	12.2	1.3	2.4	11.2	20	<0.1	0.7	0.7	47	0.24	0.015		
101189	Soil	0.7	27.6	21.4	71	<0.1	15.9	8.2	195	2.10	7.7	0.9	2.3	11.5	22	<0.1	0.5	0.8	41	0.30	0.027		
101190	Soil	0.8	32.3	26.0	86	<0.1	17.4	8.1	218	2.32	9.6	1.2	5.6	13.5	23	0.1	0.6	1.0	43	0.32	0.025		
101191	Soil	1.3	41.1	13.8	66	<0.1	28.1	9.8	262	2.77	17.0	1.0	2.8	4.9	31	<0.1	0.6	0.4	59	0.38	0.042		
101192	Soil	1.6	89.4	13.7	159	<0.1	57.6	14.8	315	3.92	14.2	1.2	3.2	4.9	24	0.2	0.5	0.7	105	0.38	0.083		
102097	Soil	0.5	24.3	6.9	56	<0.1	27.1	7.6	158	1.82	6.2	0.9	1.9	4.5	20	0.1	0.5	0.1	35	0.30	0.064		
102098	Soil	1.1	28.1	12.3	60	<0.1	25.7	8.4	174	1.89	8.5	1.7	1.7	5.5	27	0.2	0.7	0.2	43	0.32	0.062		
102099	Soil	0.6	21.4	9.5	59	0.1	20.0	8.6	465	1.92	14.1	1.1	2.0	3.6	34	0.3	0.8	0.2	39	0.50	0.073		
102100	Soil	0.4	42.4	5.8	44	0.1	1825	94.9	895	4.89	6.5	0.6	3.6	2.2	10	<0.1	0.6	0.1	47	0.12	0.011		
103139	Soil	1.1	10.9	16.1	43	<0.1	14.4	5.0	216	2.09	7.0	0.6	1.5	4.0	13	<0.1	0.3	0.2	58	0.12	0.023		
103140	Soil	0.7	9.6	16.2	32	<0.1	9.5	3.7	174	1.52	4.0	0.6	<0.5	4.5	12	<0.1	0.3	0.1	40	0.10	0.012		
103141	Soil	0.7	11.9	14.8	35	<0.1	12.1	4.6	178	1.64	4.3	0.8	<0.5	5.2	11	<0.1	0.4	0.1	40	0.09	0.007		
103142	Soil	1.1	11.9	15.4	43	<0.1	15.5	5.9	330	2.49	6.7	0.7	1.2	3.4	11	<0.1	0.4	0.2	62	0.11	0.027		
103143	Soil	0.8	8.2	16.4	27	<0.1	9.4	3.3	170	1.48	3.8	0.4	<0.5	4.5	10	0.1	0.3	0.1	39	0.09	0.012		
103144	Soil	1.6	15.7	25.8	47	<0.1	14.4	6.7	565	2.60	9.8	0.6	1.1	4.1	13	0.1	0.5	0.3	71	0.10	0.022		
103145	Soil	0.9	18.2	18.2	51	<0.1	21.1	7.3	231	2.50	7.4	0.6	2.0	5.3	17	0.1	0.5	0.2	61	0.16	0.015		
103146	Soil	0.7	16.0	16.4	39	<0.1	14.4	5.8	328	1.69	4.2	1.0	3.6	4.8	13	<0.1	0.4	0.1	40	0.12	0.012		
103147	Soil	0.8	14.0	16.2	35	<0.1	12.5	4.7	250	1.67	4.1	0.9	<0.5	5.6	15	<0.1	0.4	0.2	41	0.13	0.009		
103148	Soil	1.4	15.8	13.6	63	0.3	14.3	6.6	179	2.41	4.9	0.5	<0.5	3.6	12	<0.1	0.3	0.2	67	0.11	0.018		

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Project: Bishop
 Report Date: July 07, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
101177	Soil	13	29	0.44	267	0.042	1	1.77	0.012	0.07	0.1	0.01	2.5	0.1	<0.05	5	0.5	<0.2
101178	Soil	18	29	0.47	365	0.043	1	1.69	0.011	0.09	0.1	0.02	4.8	0.1	<0.05	5	<0.5	<0.2
101179	Soil	17	21	0.36	232	0.034	<1	1.33	0.012	0.09	0.1	0.02	2.7	0.1	<0.05	4	0.6	<0.2
101180	Soil	22	16	0.25	238	0.017	<1	0.96	0.008	0.07	<0.1	0.03	2.8	0.1	<0.05	3	<0.5	<0.2
101181	Soil	21	22	0.33	326	0.026	1	1.26	0.011	0.12	<0.1	0.02	3.9	0.1	<0.05	4	<0.5	<0.2
101182	Soil	34	8	0.14	242	0.004	1	0.55	0.005	0.13	<0.1	0.02	2.0	0.2	0.05	2	0.6	<0.2
101183	Soil	14	17	0.30	203	0.019	<1	0.85	0.007	0.07	0.1	0.02	2.3	0.1	<0.05	3	<0.5	<0.2
101184	Soil	19	14	0.22	381	<0.001	<1	1.34	0.006	0.21	<0.1	0.03	4.1	0.2	<0.05	3	<0.5	<0.2
101185	Soil	11	17	0.28	240	0.008	<1	1.01	0.007	0.11	0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
101186	Soil	43	22	0.33	315	0.013	<1	1.91	0.007	0.13	<0.1	0.06	4.2	0.2	<0.05	6	0.5	<0.2
101187	Soil	15	30	0.39	221	0.043	<1	1.73	0.008	0.07	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
101188	Soil	17	28	0.44	271	0.036	<1	1.70	0.007	0.08	0.1	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
101189	Soil	25	24	0.39	247	0.051	<1	1.50	0.007	0.07	<0.1	0.01	3.1	0.1	<0.05	5	<0.5	<0.2
101190	Soil	28	26	0.40	283	0.048	<1	1.70	0.009	0.08	0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
101191	Soil	18	33	0.50	419	0.081	<1	1.77	0.014	0.11	0.1	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
101192	Soil	16	55	1.09	689	0.135	<1	2.41	0.014	0.58	0.3	0.02	5.6	0.5	<0.05	8	0.8	<0.2
102097	Soil	15	32	0.52	214	0.055	1	1.11	0.007	0.09	0.2	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
102098	Soil	16	35	0.46	260	0.055	<1	1.27	0.011	0.09	0.1	0.04	3.4	0.1	<0.05	4	<0.5	<0.2
102099	Soil	13	21	0.40	275	0.040	1	1.04	0.013	0.05	0.2	0.05	2.7	<0.1	0.05	3	<0.5	<0.2
102100	Soil	9	644	4.57	190	0.041	2	1.85	0.006	0.04	0.1	0.06	5.9	<0.1	<0.05	5	<0.5	<0.2
103139	Soil	10	26	0.31	235	0.057	<1	1.63	0.007	0.04	0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
103140	Soil	11	19	0.26	156	0.061	<1	1.24	0.007	0.03	0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
103141	Soil	13	21	0.30	127	0.058	<1	1.36	0.007	0.03	0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
103142	Soil	11	26	0.28	170	0.046	<1	1.74	0.006	0.04	0.2	0.02	2.0	<0.1	<0.05	6	0.6	<0.2
103143	Soil	9	17	0.19	130	0.057	<1	1.23	0.006	0.03	0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
103144	Soil	12	25	0.29	247	0.051	<1	2.12	0.007	0.04	0.1	0.03	2.3	<0.1	<0.05	8	0.6	<0.2
103145	Soil	10	33	0.44	239	0.066	<1	2.72	0.008	0.04	0.2	0.02	2.6	0.1	<0.05	6	<0.5	<0.2
103146	Soil	14	22	0.31	174	0.063	<1	1.32	0.008	0.03	0.1	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
103147	Soil	16	21	0.31	168	0.067	<1	1.37	0.007	0.03	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
103148	Soil	12	29	0.32	237	0.059	<1	2.02	0.009	0.04	<0.1	0.03	2.8	0.1	<0.05	7	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
103149	Soil	1.3	13.3	15.3	56	<0.1	12.1	6.5	1068	2.33	6.2	0.4	1.2	2.2	10	0.3	0.5	0.2	59	0.09	0.040
103150	Soil	0.9	20.8	15.2	51	<0.1	22.0	8.5	259	2.49	7.2	0.8	2.1	5.9	16	<0.1	0.5	0.2	56	0.14	0.014
103151	Soil	1.3	17.5	17.5	54	0.1	18.8	7.7	230	2.81	8.6	0.5	0.7	5.6	16	<0.1	0.5	0.2	67	0.11	0.015
103152	Soil	1.0	24.3	15.1	54	0.2	19.9	6.7	275	2.37	6.9	1.8	1.3	4.9	20	<0.1	0.5	0.2	55	0.19	0.027
103153	Soil	1.0	14.3	11.6	49	<0.1	17.0	7.2	265	2.27	6.3	1.1	1.6	5.4	19	<0.1	0.5	0.2	53	0.18	0.014
103154	Soil	1.2	16.3	13.1	55	<0.1	19.2	8.1	428	2.62	8.8	0.7	1.2	5.0	19	<0.1	0.6	0.2	60	0.19	0.016
103155	Soil	1.2	19.3	13.5	62	<0.1	23.1	8.5	235	3.04	10.8	0.8	1.1	5.5	18	<0.1	0.5	0.3	68	0.16	0.019
103156	Soil	1.0	29.1	13.1	74	0.1	23.1	8.5	310	2.38	8.3	2.4	2.3	5.0	27	0.2	0.8	0.2	46	0.33	0.061
103158	Soil	0.9	22.9	10.9	48	<0.1	18.4	7.9	258	2.18	6.9	1.6	2.4	4.5	25	<0.1	0.4	0.2	49	0.35	0.037
103159	Soil	1.7	28.3	13.0	40	<0.1	27.9	8.3	165	2.36	7.6	2.2	5.8	4.1	14	0.2	0.5	0.2	65	0.15	0.043
103160	Soil	0.7	22.3	8.9	38	<0.1	15.0	4.7	149	1.54	6.5	0.6	10.0	4.4	17	0.1	0.6	0.2	33	0.21	0.029
103161	Soil	0.8	36.1	11.2	53	0.1	26.4	9.8	346	2.60	10.3	1.2	5.7	4.5	29	<0.1	0.8	0.2	58	0.36	0.031
103162	Soil	0.6	12.8	7.7	24	<0.1	9.1	4.2	124	1.12	4.3	0.7	1.6	3.1	14	<0.1	0.4	0.1	32	0.18	0.014
103163	Soil	0.8	28.2	11.4	40	<0.1	13.4	4.3	70	0.92	3.6	0.9	1.4	7.0	9	<0.1	0.6	0.2	24	0.08	0.004
103164	Soil	0.8	29.0	10.4	42	<0.1	18.9	6.1	192	1.86	7.3	1.3	2.1	5.0	18	<0.1	0.6	0.2	42	0.21	0.017
103165	Soil	0.7	40.6	12.6	84	<0.1	33.3	12.7	372	4.94	5.7	1.7	4.4	13.4	13	<0.1	0.5	0.3	81	0.12	0.024
103166	Soil	0.9	26.9	11.2	54	0.1	23.8	11.7	430	2.82	7.9	1.4	2.9	6.6	20	<0.1	0.5	0.2	60	0.21	0.014
103167	Soil	0.8	35.1	9.6	62	<0.1	24.6	10.7	618	2.59	4.4	1.0	2.5	8.3	21	<0.1	0.6	0.2	46	0.13	0.013
103168	Soil	0.6	34.3	9.9	70	<0.1	23.1	9.4	549	3.36	5.1	1.5	6.5	9.2	12	<0.1	0.3	0.3	55	0.12	0.019
103169	Soil	1.1	40.4	14.2	66	<0.1	28.5	10.3	342	3.44	9.0	1.8	3.8	10.2	14	<0.1	0.6	0.3	60	0.14	0.014
103170	Soil	1.3	23.1	12.8	58	0.2	29.0	12.4	299	3.33	12.4	0.7	1.9	6.0	13	<0.1	0.4	0.3	62	0.11	0.024
103171	Soil	2.0	34.8	9.1	37	0.1	16.4	4.6	143	1.55	13.7	0.6	7.4	3.4	10	<0.1	0.8	0.2	36	0.04	0.018
103172	Soil	0.8	14.0	16.7	69	<0.1	11.4	6.2	307	3.17	7.9	2.4	1.0	24.4	27	<0.1	0.6	0.2	25	0.28	0.084
103173	Soil	1.0	20.8	14.0	54	<0.1	16.8	5.7	308	2.83	5.9	2.4	1.3	15.0	30	0.1	0.6	0.2	31	0.40	0.094
103174	Soil	0.8	9.3	14.9	40	<0.1	10.9	5.0	156	2.08	6.6	0.9	3.7	7.1	22	<0.1	0.6	0.2	33	0.25	0.045
103175	Soil	1.0	18.9	13.4	48	<0.1	16.2	5.9	202	2.25	6.5	1.1	2.7	7.4	24	<0.1	0.5	0.2	36	0.27	0.033
103176	Soil	1.0	19.2	22.0	55	<0.1	16.9	7.7	299	2.65	9.0	1.5	7.2	9.4	21	<0.1	0.6	0.2	40	0.27	0.034
103177	Soil	1.5	13.3	14.4	54	<0.1	15.3	7.3	208	2.61	7.9	1.1	1.3	13.1	21	<0.1	0.7	0.2	44	0.25	0.016
103178	Soil	0.9	41.8	15.1	86	0.2	33.0	9.1	253	2.69	10.8	1.8	3.4	6.0	33	0.2	1.1	0.2	48	0.35	0.039
103179	Soil	2.0	19.4	19.0	92	<0.1	13.0	8.3	211	3.57	11.8	2.6	1.0	26.1	18	<0.1	0.5	0.2	30	0.20	0.044

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WHI11000297.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
103149	Soil	9	22	0.27	181	0.047	<1	1.51	0.006	0.04	0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
103150	Soil	15	32	0.45	266	0.056	<1	2.04	0.010	0.04	0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
103151	Soil	12	34	0.44	213	0.064	<1	2.37	0.009	0.04	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
103152	Soil	16	30	0.44	285	0.061	1	1.86	0.011	0.05	0.1	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
103153	Soil	14	29	0.44	253	0.059	<1	1.63	0.009	0.04	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
103154	Soil	12	35	0.47	307	0.054	<1	2.11	0.009	0.04	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
103155	Soil	12	38	0.51	250	0.065	<1	2.50	0.010	0.06	<0.1	0.04	3.6	<0.1	<0.05	7	<0.5	<0.2
103156	Soil	17	27	0.48	368	0.058	1	1.48	0.014	0.05	0.2	0.06	3.5	<0.1	<0.05	4	0.9	<0.2
103158	Soil	15	29	0.44	307	0.058	1	1.53	0.012	0.05	<0.1	0.03	3.9	<0.1	<0.05	5	0.5	<0.2
103159	Soil	11	26	0.33	281	0.126	<1	2.65	0.011	0.06	0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
103160	Soil	13	21	0.30	248	0.044	<1	0.96	0.008	0.04	<0.1	0.04	2.4	<0.1	<0.05	3	0.5	<0.2
103161	Soil	15	33	0.44	393	0.069	<1	1.67	0.013	0.05	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
103162	Soil	10	16	0.23	164	0.043	<1	0.83	0.007	0.03	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
103163	Soil	12	16	0.12	170	0.015	<1	0.64	0.003	0.04	<0.1	0.05	3.6	<0.1	<0.05	2	<0.5	<0.2
103164	Soil	15	28	0.34	377	0.040	<1	1.22	0.007	0.04	<0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
103165	Soil	18	57	0.50	275	0.100	1	1.64	0.004	0.45	<0.1	0.03	10.5	0.4	<0.05	8	<0.5	<0.2
103166	Soil	13	50	0.55	300	0.049	1	1.91	0.007	0.12	<0.1	0.02	5.2	0.1	<0.05	6	<0.5	<0.2
103167	Soil	16	28	0.33	325	0.089	1	1.17	0.007	0.31	<0.1	0.02	4.0	0.3	<0.05	6	<0.5	<0.2
103168	Soil	21	37	0.47	277	0.118	1	1.36	0.005	0.50	<0.1	0.03	6.3	0.4	<0.05	6	<0.5	<0.2
103169	Soil	32	36	0.56	302	0.120	<1	2.10	0.008	0.26	<0.1	0.04	6.1	0.2	<0.05	7	0.6	<0.2
103170	Soil	14	36	0.54	328	0.079	<1	2.01	0.006	0.21	<0.1	0.02	2.8	0.2	<0.05	6	<0.5	<0.2
103171	Soil	8	23	0.27	314	0.046	<1	0.74	0.002	0.16	<0.1	<0.01	2.1	0.1	<0.05	3	0.6	<0.2
103172	Soil	47	12	0.21	218	0.015	<1	0.78	0.007	0.12	<0.1	0.02	3.5	0.2	<0.05	3	<0.5	<0.2
103173	Soil	40	22	0.27	399	0.014	1	1.30	0.008	0.20	<0.1	0.03	4.1	0.2	<0.05	5	<0.5	<0.2
103174	Soil	21	17	0.31	209	0.021	<1	1.03	0.006	0.12	<0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
103175	Soil	19	22	0.34	273	0.016	1	1.46	0.008	0.17	<0.1	0.02	2.9	0.1	<0.05	4	<0.5	<0.2
103176	Soil	31	23	0.32	270	0.018	<1	1.52	0.007	0.12	<0.1	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
103177	Soil	50	22	0.26	223	0.034	1	1.31	0.007	0.19	<0.1	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
103178	Soil	15	29	0.34	501	0.018	1	1.38	0.011	0.14	<0.1	0.10	4.4	0.1	<0.05	4	<0.5	<0.2
103179	Soil	68	14	0.15	161	0.005	<1	1.18	0.004	0.12	<0.1	<0.01	3.8	0.1	<0.05	3	0.6	<0.2

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Project: Bishop
 Report Date: July 07, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
103180	Soil	1.1	19.8	15.4	104	<0.1	17.3	8.3	283	3.87	11.2	2.4	<0.5	29.5	19	<0.1	0.7	0.2	41	0.32	0.085
103181	Soil	1.2	59.5	7.3	132	<0.1	100.6	20.5	935	5.49	48.2	0.8	5.8	5.8	31	0.2	0.9	0.4	95	0.77	0.152
103182	Soil	1.8	69.2	22.1	183	<0.1	91.0	15.3	674	4.93	11.1	1.7	4.8	10.4	21	0.1	0.9	0.2	69	0.34	0.026
103183	Soil	1.9	39.9	18.4	70	0.1	36.3	9.6	300	3.03	15.3	1.2	6.0	9.5	35	0.2	1.0	0.4	45	0.32	0.049
103184	Soil	1.1	14.2	24.7	60	<0.1	16.2	6.6	204	2.26	9.0	1.1	0.7	6.6	21	<0.1	0.8	0.2	46	0.21	0.017
103185	Soil	2.3	32.4	27.7	55	0.2	25.6	8.5	326	2.71	13.9	2.4	5.6	7.3	26	<0.1	1.1	0.3	54	0.32	0.029
103186	Soil	1.1	41.3	22.0	72	0.2	33.2	11.7	420	3.16	12.9	1.1	5.9	8.2	31	<0.1	1.1	0.3	56	0.44	0.044
103187	Soil	2.7	52.2	30.4	81	0.4	32.5	9.5	257	3.81	20.7	2.6	4.4	9.2	32	0.1	1.5	0.4	63	0.36	0.034
103188	Soil	1.6	41.3	18.2	64	0.3	29.6	9.3	327	3.10	14.3	2.8	4.1	5.8	32	<0.1	1.2	0.2	57	0.43	0.049
103189	Soil	2.0	44.5	30.7	67	0.5	28.5	13.0	549	3.35	15.1	4.5	4.4	5.7	39	0.1	1.1	0.2	65	0.50	0.049
103190	Soil	1.8	40.3	17.8	62	0.4	31.1	10.5	379	3.03	13.3	2.6	4.9	5.7	33	<0.1	1.0	0.2	58	0.44	0.042
103191	Soil	1.3	44.3	21.1	57	0.2	29.1	10.6	351	3.13	12.9	3.0	2.4	6.3	33	<0.1	1.0	0.2	61	0.44	0.031
103192	Soil	2.4	40.1	18.8	74	0.2	32.7	11.4	871	2.94	13.9	3.2	2.7	15.4	34	<0.1	1.7	0.6	52	0.39	0.038
103193	Soil	2.3	37.6	27.4	74	0.2	30.4	11.0	625	2.96	13.8	3.7	1.2	14.4	30	0.1	2.0	1.1	52	0.39	0.027
103194	Soil	1.9	37.7	17.6	58	0.1	36.6	9.7	367	2.73	11.3	2.0	2.9	7.0	29	<0.1	1.2	0.3	53	0.38	0.034
103195	Soil	0.9	32.4	17.2	50	0.1	25.1	9.4	358	2.32	9.9	1.3	4.8	6.0	28	0.1	2.4	0.2	45	0.55	0.046
103196	Soil	1.3	37.8	17.1	55	0.2	31.1	11.3	409	2.83	10.7	6.0	2.7	8.2	37	<0.1	2.8	0.3	59	0.53	0.041
103197	Soil	1.1	38.9	18.2	55	0.2	31.7	10.8	416	2.62	11.9	3.2	6.9	4.1	40	0.1	0.9	0.2	53	0.87	0.056
103198	Soil	1.0	39.0	13.3	53	0.1	33.5	9.6	355	2.79	12.4	1.2	4.8	5.5	32	<0.1	0.9	0.2	54	0.48	0.049
103199	Soil	1.2	36.1	22.4	60	<0.1	29.1	10.8	498	3.39	15.3	1.3	4.4	7.6	36	<0.1	1.1	0.6	61	0.55	0.062
103200	Soil	1.5	38.0	16.4	67	0.1	34.5	11.9	441	3.12	11.5	0.9	2.9	6.1	32	<0.1	1.0	0.2	61	0.51	0.059
103201	Soil	1.4	27.5	20.1	64	<0.1	24.2	10.0	534	3.40	12.1	1.1	2.7	6.5	38	<0.1	0.7	0.3	70	0.58	0.084
103202	Soil	2.6	14.1	19.8	75	<0.1	15.1	7.1	716	3.81	18.0	1.6	3.5	7.0	46	<0.1	0.4	0.3	63	0.69	0.131
103203	Soil	1.8	23.9	15.8	69	<0.1	23.7	8.3	480	3.79	14.2	1.5	5.0	5.6	31	0.1	0.6	0.2	68	0.38	0.047
103204	Soil	2.4	24.9	10.8	77	<0.1	19.3	11.4	1259	4.33	16.7	1.9	4.0	5.9	44	<0.1	0.6	0.2	70	0.56	0.122
103205	Soil	2.3	19.7	21.9	75	<0.1	14.8	9.0	1624	4.39	15.2	1.8	3.8	7.0	56	<0.1	0.5	0.1	59	0.59	0.135
103206	Soil	2.9	70.7	19.7	56	0.4	19.9	8.4	244	2.94	96.4	1.4	16.0	7.1	27	0.3	3.5	1.4	50	0.26	0.056
103207	Soil	1.7	47.8	16.5	59	0.2	23.6	7.9	245	2.62	60.6	1.0	6.6	6.1	32	0.1	1.9	0.7	51	0.39	0.055
103208	Soil	2.5	57.6	12.9	56	0.3	21.3	7.1	194	2.44	57.0	1.4	6.4	5.8	29	0.2	2.3	0.7	47	0.33	0.056
103209	Soil	2.6	38.5	17.1	62	0.2	19.5	9.5	289	2.56	48.2	1.2	64.7	5.6	27	0.3	1.9	0.6	49	0.30	0.067

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
103180	Soil	97	18	0.42	267	0.073	<1	1.42	0.010	0.44	<0.1	0.02	5.4	0.4	<0.05	8	0.8	<0.2
103181	Soil	25	155	1.72	678	0.077	<1	3.06	0.014	0.56	<0.1	0.03	10.6	0.5	<0.05	11	<0.5	<0.2
103182	Soil	27	68	0.91	382	0.094	<1	2.24	0.010	0.32	<0.1	0.05	12.3	0.4	<0.05	8	<0.5	<0.2
103183	Soil	27	28	0.32	484	0.017	<1	1.39	0.009	0.17	<0.1	0.11	5.1	0.2	0.10	4	1.1	<0.2
103184	Soil	17	25	0.33	229	0.036	<1	1.21	0.006	0.06	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
103185	Soil	18	34	0.39	354	0.034	<1	1.66	0.008	0.08	<0.1	0.10	4.2	0.1	<0.05	5	0.8	<0.2
103186	Soil	18	34	0.42	365	0.036	<1	1.99	0.012	0.12	<0.1	0.07	5.1	0.1	<0.05	6	<0.5	<0.2
103187	Soil	21	37	0.34	324	0.029	<1	2.47	0.008	0.14	<0.1	0.18	6.4	0.2	<0.05	7	0.9	<0.2
103188	Soil	17	35	0.44	429	0.048	1	1.80	0.013	0.08	<0.1	0.13	4.9	0.1	<0.05	5	<0.5	<0.2
103189	Soil	18	38	0.46	539	0.044	<1	2.16	0.013	0.09	<0.1	0.14	5.4	0.1	<0.05	6	1.0	<0.2
103190	Soil	17	39	0.45	450	0.046	<1	1.97	0.012	0.08	<0.1	0.13	5.0	0.1	<0.05	5	<0.5	<0.2
103191	Soil	18	40	0.46	477	0.051	<1	2.20	0.011	0.08	<0.1	0.10	5.7	<0.1	<0.05	6	<0.5	<0.2
103192	Soil	23	29	0.38	515	0.038	<1	1.92	0.011	0.09	<0.1	0.15	5.0	0.2	<0.05	5	<0.5	<0.2
103193	Soil	20	28	0.37	389	0.034	<1	1.95	0.012	0.08	<0.1	0.14	4.9	0.2	<0.05	6	<0.5	<0.2
103194	Soil	17	48	0.43	356	0.051	<1	1.78	0.011	0.07	0.1	0.06	4.8	<0.1	<0.05	5	<0.5	<0.2
103195	Soil	16	26	0.38	345	0.041	2	1.30	0.012	0.05	0.3	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
103196	Soil	22	36	0.46	436	0.040	2	1.87	0.017	0.08	0.2	0.07	5.3	0.1	<0.05	6	<0.5	<0.2
103197	Soil	14	30	0.50	462	0.046	1	1.47	0.015	0.05	0.3	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
103198	Soil	17	33	0.46	469	0.045	<1	1.55	0.014	0.06	0.2	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
103199	Soil	21	32	0.46	545	0.030	1	2.12	0.012	0.10	0.1	0.06	6.7	0.1	<0.05	6	<0.5	<0.2
103200	Soil	18	38	0.48	531	0.049	2	1.93	0.018	0.10	0.1	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
103201	Soil	23	23	0.44	519	0.026	<1	1.84	0.011	0.09	<0.1	0.06	7.4	0.1	<0.05	5	<0.5	<0.2
103202	Soil	30	21	0.43	558	0.012	1	1.80	0.011	0.09	<0.1	0.03	6.3	0.1	<0.05	6	<0.5	<0.2
103203	Soil	20	33	0.50	365	0.051	2	1.73	0.012	0.07	0.1	0.03	5.8	<0.1	<0.05	6	<0.5	<0.2
103204	Soil	26	24	0.37	405	0.011	<1	1.69	0.010	0.07	0.1	0.03	8.9	0.1	<0.05	5	0.5	<0.2
103205	Soil	29	17	0.26	401	0.005	<1	1.44	0.009	0.05	<0.1	0.18	8.0	0.2	<0.05	4	<0.5	<0.2
103206	Soil	20	29	0.35	260	0.055	<1	1.44	0.010	0.06	0.2	0.03	3.3	0.1	<0.05	4	0.6	0.2
103207	Soil	18	29	0.41	357	0.064	<1	1.52	0.013	0.06	0.2	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
103208	Soil	19	27	0.37	358	0.051	<1	1.35	0.011	0.06	0.2	0.06	3.6	<0.1	<0.05	4	<0.5	<0.2
103209	Soil	17	27	0.37	320	0.056	2	1.39	0.012	0.06	0.3	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
103210	Soil	5.9	42.3	14.6	60	0.3	21.3	10.4	257	2.85	89.0	0.9	6.1	5.1	28	<0.1	2.4	0.9	55	0.31	0.049
103211	Soil	3.4	44.1	18.4	57	0.3	20.8	9.5	300	2.49	35.6	1.3	8.0	4.5	31	0.2	1.7	0.6	48	0.38	0.069
103212	Soil	2.3	33.1	12.3	56	0.2	23.0	10.9	460	2.55	22.0	2.3	7.5	5.0	33	<0.1	1.3	0.3	52	0.42	0.066
103213	Soil	4.3	34.5	15.9	59	0.4	19.1	8.2	247	2.73	53.7	1.4	14.0	4.4	31	<0.1	1.7	0.6	50	0.38	0.066
103214	Soil	1.9	30.9	11.8	59	0.2	19.8	7.9	168	2.52	26.7	1.4	3.9	2.9	28	0.2	1.1	0.4	51	0.37	0.069
105124	Soil	1.8	47.0	15.8	81	0.2	27.8	11.0	344	3.27	13.0	1.5	6.2	6.3	19	<0.1	0.6	0.3	67	0.19	0.039
105125	Soil	2.0	48.6	13.6	81	0.2	27.4	8.8	330	3.08	10.7	1.4	5.5	5.6	14	0.1	0.6	0.2	74	0.13	0.026
105126	Soil	3.3	84.3	17.6	95	0.4	36.5	8.3	398	2.96	13.7	2.5	10.2	6.3	18	0.1	0.8	0.2	90	0.14	0.038
105127	Soil	2.3	50.7	10.8	59	0.3	25.1	10.1	273	2.82	12.7	1.6	9.3	4.7	15	<0.1	0.7	0.2	84	0.13	0.022
105128	Soil	1.7	57.7	13.8	79	0.4	37.1	11.1	413	2.90	12.5	1.6	7.1	5.2	19	<0.1	0.7	0.2	75	0.16	0.024
105129	Soil	3.1	36.7	13.4	63	0.6	21.1	5.8	269	2.83	12.2	0.7	2.7	4.2	11	0.1	0.5	0.3	68	0.10	0.037
105130	Soil	2.7	64.0	20.1	64	0.3	25.8	7.0	248	3.09	7.0	1.0	3.7	4.8	12	0.1	0.6	0.2	78	0.08	0.033
105131	Soil	2.6	51.6	14.7	86	0.7	45.4	8.2	201	2.94	6.7	1.2	4.9	3.2	16	0.2	0.5	0.2	88	0.14	0.050
105132	Soil	3.1	62.0	19.5	76	1.7	37.3	11.9	287	3.15	10.4	1.7	2.5	4.7	26	0.2	0.7	0.2	91	0.27	0.066
105133	Soil	3.5	68.1	17.2	79	0.6	41.9	8.8	330	3.46	17.8	1.6	2.8	6.7	21	0.1	0.9	0.2	90	0.31	0.046
105134	Soil	4.5	59.5	17.2	105	0.8	43.7	10.7	324	3.16	12.0	1.9	3.9	5.2	34	0.3	1.3	0.2	111	0.43	0.089
105135	Soil	5.3	42.5	16.2	117	1.3	43.2	9.0	277	3.15	11.1	2.1	3.4	5.6	25	0.4	1.1	0.2	102	0.28	0.121
105136	Soil	1.7	87.6	20.7	116	0.2	58.2	23.8	686	4.13	6.3	1.6	5.5	14.7	17	0.2	0.7	0.4	68	0.29	0.072
105137	Soil	2.9	51.7	25.2	96	0.4	40.3	12.1	391	3.20	13.8	1.1	7.0	5.3	31	0.3	0.9	0.3	65	0.35	0.055
105138	Soil	2.4	67.6	22.3	89	0.3	42.8	13.6	461	3.56	13.9	1.0	6.6	6.9	48	0.3	1.1	0.3	75	0.75	0.058
105139	Soil	1.8	50.6	13.6	76	0.5	33.9	10.4	373	2.82	9.9	1.2	4.2	4.7	42	<0.1	0.8	0.2	56	1.24	0.041
105140	Soil	1.8	54.9	17.1	80	0.5	35.6	10.3	343	3.05	10.7	1.1	5.5	5.8	38	0.1	0.8	0.2	62	1.10	0.035
105141	Soil	2.5	58.8	14.5	83	0.6	37.7	9.3	332	3.05	8.9	1.5	5.6	6.0	28	0.1	0.9	0.2	73	0.43	0.035
105142	Soil	2.1	49.8	18.5	83	0.4	37.2	11.1	476	2.94	10.1	1.1	5.2	4.9	43	0.2	0.9	0.2	65	0.97	0.045
105143	Soil	1.7	47.7	13.4	73	0.4	36.6	10.7	424	2.86	9.9	1.7	6.0	4.6	44	0.2	0.8	0.2	62	1.15	0.044
105144	Soil	1.6	46.6	16.2	74	0.2	33.8	11.6	424	2.74	10.6	1.2	4.2	5.5	40	0.3	0.9	0.2	59	1.06	0.052
105145	Soil	1.9	48.8	13.0	73	0.2	36.7	11.6	419	2.75	10.1	1.1	4.7	5.1	40	0.2	0.9	0.2	61	0.90	0.050
105146	Soil	1.6	48.7	15.2	72	0.2	35.6	11.3	412	2.82	9.7	1.1	8.6	5.0	40	0.2	0.8	0.2	61	0.75	0.047
105147	Soil	1.1	28.5	9.1	67	0.1	26.7	10.0	330	2.25	6.9	1.1	8.0	4.7	28	0.2	0.5	0.1	47	0.56	0.062
105148	Soil	1.3	45.7	19.3	72	0.2	39.4	10.8	333	3.19	8.7	1.0	5.9	6.6	22	<0.1	0.6	0.2	63	0.37	0.032

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.



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Report Date: July 07, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
103210	Soil	15	29	0.43	332	0.041	2	1.59	0.011	0.06	0.2	0.03	2.9	0.1	<0.05	5	<0.5	<0.2
103211	Soil	16	26	0.39	352	0.042	1	1.51	0.012	0.05	0.2	0.04	3.1	<0.1	<0.05	4	0.8	<0.2
103212	Soil	17	28	0.39	360	0.050	<1	1.55	0.013	0.04	0.2	0.03	3.5	<0.1	<0.05	4	0.6	<0.2
103213	Soil	18	26	0.35	320	0.041	<1	1.48	0.010	0.05	0.2	0.06	3.1	<0.1	<0.05	4	<0.5	<0.2
103214	Soil	15	28	0.40	271	0.038	<1	1.59	0.010	0.04	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
105124	Soil	19	41	0.80	553	0.150	1	2.04	0.009	0.39	<0.1	0.03	3.7	0.3	<0.05	6	0.5	<0.2
105125	Soil	18	43	0.72	645	0.145	1	1.96	0.008	0.22	0.1	0.03	3.9	0.2	<0.05	7	<0.5	<0.2
105126	Soil	24	45	0.65	994	0.127	<1	1.75	0.008	0.29	<0.1	0.04	5.1	0.3	<0.05	6	1.5	<0.2
105127	Soil	16	41	0.44	1266	0.072	1	1.73	0.007	0.06	<0.1	0.04	4.3	0.1	<0.05	6	1.0	<0.2
105128	Soil	20	41	0.53	848	0.085	<1	1.89	0.009	0.07	0.1	0.03	5.1	0.1	<0.05	6	0.5	<0.2
105129	Soil	10	38	0.40	496	0.070	<1	1.43	0.005	0.15	<0.1	0.01	1.9	0.1	<0.05	5	<0.5	<0.2
105130	Soil	11	40	0.28	469	0.045	1	1.27	0.005	0.13	<0.1	0.01	3.2	0.1	<0.05	5	1.3	<0.2
105131	Soil	10	44	0.42	476	0.052	<1	1.51	0.004	0.09	0.1	0.03	2.8	0.1	<0.05	6	1.6	<0.2
105132	Soil	12	45	0.47	751	0.072	<1	1.74	0.007	0.16	0.1	0.03	3.9	0.1	<0.05	5	1.8	<0.2
105133	Soil	14	55	0.71	1060	0.113	<1	1.81	0.008	0.32	0.1	0.02	4.1	0.4	0.07	6	1.8	<0.2
105134	Soil	18	48	0.46	657	0.047	<1	1.64	0.011	0.10	0.2	0.04	5.6	0.1	<0.05	5	2.4	<0.2
105135	Soil	20	49	0.37	543	0.053	<1	1.43	0.008	0.13	0.2	0.04	5.2	0.2	<0.05	5	3.2	<0.2
105136	Soil	38	46	1.25	411	0.213	1	2.51	0.007	1.00	<0.1	0.03	5.0	0.6	<0.05	8	<0.5	<0.2
105137	Soil	17	44	0.52	903	0.085	<1	1.68	0.016	0.16	0.1	0.05	3.6	0.2	<0.05	5	<0.5	<0.2
105138	Soil	22	41	0.53	637	0.083	1	1.67	0.018	0.11	0.1	0.05	4.4	0.2	<0.05	5	0.8	<0.2
105139	Soil	16	35	0.60	452	0.066	2	1.46	0.016	0.09	0.2	0.05	3.8	0.1	<0.05	5	0.6	<0.2
105140	Soil	18	36	0.62	445	0.075	1	1.61	0.015	0.11	0.2	0.06	4.4	0.1	<0.05	5	0.9	<0.2
105141	Soil	17	42	0.58	583	0.069	2	1.54	0.013	0.11	0.2	0.04	4.9	0.2	<0.05	5	1.1	<0.2
105142	Soil	16	36	0.59	552	0.064	<1	1.49	0.017	0.09	0.2	0.05	4.2	0.1	<0.05	5	1.2	<0.2
105143	Soil	15	36	0.62	516	0.061	2	1.51	0.018	0.07	0.2	0.05	4.2	0.1	<0.05	5	0.6	<0.2
105144	Soil	16	33	0.59	430	0.068	1	1.46	0.018	0.09	0.2	0.05	4.1	0.1	<0.05	4	0.5	<0.2
105145	Soil	16	35	0.60	453	0.069	2	1.53	0.017	0.10	0.2	0.04	4.3	0.1	<0.05	5	0.9	<0.2
105146	Soil	16	34	0.59	457	0.068	1	1.54	0.020	0.09	0.2	0.03	4.4	0.1	<0.05	5	0.8	<0.2
105147	Soil	14	26	0.49	300	0.066	1	1.16	0.014	0.09	0.3	0.04	3.0	<0.1	<0.05	4	1.0	<0.2
105148	Soil	19	38	0.53	364	0.075	<1	1.55	0.013	0.12	0.1	0.04	4.3	0.1	<0.05	5	<0.5	<0.2



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Project: Bishop
 Report Date: July 07, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 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
105149	Soil			1.4	43.7	13.7	75	0.2	38.3	11.3	359	3.21	7.3	1.5	5.4	6.6	26	0.1	0.5	0.2	61	0.47	0.039
105150	Soil			1.1	45.2	13.8	71	0.2	36.0	11.4	379	2.84	10.9	0.9	3.9	4.7	40	0.2	0.8	0.2	57	1.27	0.051
105151	Soil			1.2	40.9	12.0	62	0.2	34.1	12.5	446	2.87	10.7	1.8	3.7	4.8	37	0.2	0.7	0.2	56	0.63	0.048
105152	Soil			1.2	42.4	16.5	60	0.2	34.8	13.7	526	2.98	10.5	2.3	3.6	4.6	37	0.1	0.8	0.2	59	0.68	0.046
105153	Soil			2.6	13.3	11.2	47	0.1	19.1	7.1	256	3.26	20.4	0.5	3.6	2.8	18	<0.1	0.5	0.3	79	0.18	0.029
105154	Soil			2.1	12.5	13.6	45	<0.1	13.0	6.1	264	2.57	11.6	0.6	0.9	3.4	19	<0.1	0.3	0.6	79	0.20	0.047
105155	Soil			1.1	18.1	11.3	60	<0.1	15.2	8.0	394	3.07	12.6	1.4	2.7	6.2	61	0.1	0.4	0.2	75	0.37	0.029
105156	Soil			1.4	14.5	15.5	46	0.1	18.0	6.3	223	2.36	8.0	0.7	1.8	3.3	28	0.1	0.3	0.2	63	0.28	0.044
105157	Soil			1.3	19.3	9.7	62	<0.1	15.0	8.1	346	3.42	10.4	1.6	1.3	8.8	39	0.2	0.7	0.1	90	0.30	0.054
105158	Soil			1.6	28.8	14.8	65	<0.1	16.4	10.6	615	4.10	12.2	2.0	5.3	12.1	55	<0.1	0.5	0.1	111	0.55	0.087
105159	Soil			1.2	25.1	11.8	71	<0.1	16.7	12.1	589	3.90	8.4	1.6	1.1	8.7	40	0.1	0.5	0.1	93	0.46	0.083
105160	Soil			1.6	27.1	10.0	67	<0.1	9.9	9.8	517	3.81	7.3	2.3	2.9	11.6	48	<0.1	0.5	<0.1	96	0.65	0.136
105161	Soil			1.2	12.1	10.5	64	<0.1	19.6	8.5	750	2.62	6.5	0.5	0.8	3.4	34	0.2	0.4	0.1	65	0.36	0.051
105162	Soil			1.0	16.2	13.2	64	0.1	17.1	8.7	369	3.21	9.0	1.0	1.4	5.2	36	0.1	0.5	0.2	80	0.53	0.044
105163	Soil			0.9	16.4	16.8	75	<0.1	14.3	9.7	566	3.91	9.2	1.6	0.7	7.3	42	<0.1	0.4	<0.1	90	0.50	0.070
105164	Soil			1.3	25.5	11.4	75	<0.1	14.2	9.9	437	4.36	9.2	1.7	<0.5	9.0	46	<0.1	0.4	<0.1	109	0.75	0.128
105165	Soil			1.4	18.7	13.3	64	0.1	17.8	9.5	931	3.39	6.9	1.1	2.7	8.4	35	<0.1	0.4	0.1	76	0.57	0.111
105166	Soil			1.2	21.5	9.6	74	<0.1	15.9	10.1	470	3.86	11.0	1.6	1.6	11.3	30	<0.1	0.5	<0.1	109	0.46	0.071
105167	Soil			1.4	13.5	10.3	80	<0.1	12.6	9.4	599	3.80	5.3	1.4	2.0	6.4	36	0.1	0.3	<0.1	95	0.49	0.116
105168	Soil			1.2	17.6	19.3	93	0.1	11.7	8.3	704	4.28	16.3	2.0	1.1	7.9	46	0.1	0.4	0.4	98	0.67	0.099
105169	Soil			0.6	12.4	10.9	76	<0.1	10.1	8.2	723	3.47	3.8	1.5	0.6	8.5	59	<0.1	0.2	0.1	91	0.58	0.080
105170	Soil			1.0	29.9	10.3	59	0.1	17.4	8.8	671	2.59	9.8	1.1	3.9	5.0	103	0.2	0.6	<0.1	63	4.14	0.115
105171	Soil			1.3	14.5	11.0	88	<0.1	5.8	7.6	684	3.88	19.2	3.5	<0.5	9.7	45	<0.1	0.5	<0.1	93	0.71	0.107
105172	Soil			1.1	20.3	10.2	62	<0.1	20.2	7.6	462	2.97	17.9	0.9	10.9	7.8	47	0.1	0.5	0.1	64	0.99	0.068
105173	Soil			1.7	29.2	9.9	122	<0.1	10.9	10.8	622	5.57	7.3	6.2	6.1	16.8	62	<0.1	0.3	<0.1	145	0.90	0.160
105174	Soil			1.2	24.1	11.3	137	<0.1	7.8	13.1	1014	5.29	3.3	3.4	4.4	17.2	74	0.1	0.2	<0.1	128	0.89	0.209
105175	Soil			2.3	20.9	12.5	99	0.2	13.8	10.9	1369	4.82	5.0	1.5	1.6	10.6	51	<0.1	0.4	0.1	117	0.64	0.078
105176	Soil			1.3	30.8	11.3	74	<0.1	10.7	7.8	996	3.67	4.2	1.8	6.6	10.1	54	<0.1	0.4	<0.1	94	1.21	0.113
105177	Soil			1.1	16.8	10.5	85	<0.1	6.4	10.4	1236	3.30	4.6	2.2	9.4	6.9	153	0.2	0.2	<0.1	85	4.37	0.161
105178	Soil			1.3	19.1	8.6	60	<0.1	13.4	7.3	507	2.72	5.2	1.4	2.1	6.1	239	<0.1	0.4	0.1	60	3.42	0.109

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
105149	Soil	19	40	0.52	376	0.071	1	1.56	0.013	0.20	0.1	0.03	4.5	0.2	<0.05	5	<0.5	<0.2
105150	Soil	14	32	0.59	388	0.071	1	1.46	0.018	0.11	0.2	0.03	4.1	0.1	<0.05	4	0.7	<0.2
105151	Soil	15	33	0.54	339	0.068	1	1.48	0.015	0.08	0.2	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
105152	Soil	15	34	0.53	343	0.065	1	1.62	0.013	0.07	0.2	0.05	4.5	0.1	<0.05	5	0.6	<0.2
105153	Soil	9	32	0.45	171	0.060	1	2.02	0.007	0.07	0.2	0.01	2.4	0.2	<0.05	7	<0.5	<0.2
105154	Soil	9	24	0.41	192	0.087	<1	1.87	0.009	0.06	0.2	0.01	2.7	0.1	<0.05	7	<0.5	<0.2
105155	Soil	17	30	0.54	344	0.086	1	2.03	0.011	0.06	0.2	<0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
105156	Soil	11	28	0.43	254	0.060	<1	1.98	0.009	0.05	0.2	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
105157	Soil	21	34	0.54	413	0.162	2	1.81	0.013	0.15	0.5	0.01	7.3	0.1	<0.05	6	<0.5	<0.2
105158	Soil	37	36	1.25	418	0.134	1	2.54	0.013	0.08	0.2	0.02	11.3	0.1	<0.05	9	<0.5	<0.2
105159	Soil	20	37	0.88	391	0.096	1	2.60	0.013	0.08	0.2	0.01	8.8	<0.1	<0.05	9	<0.5	<0.2
105160	Soil	37	31	1.10	408	0.061	2	2.19	0.012	0.08	0.7	0.01	11.1	<0.1	<0.05	9	<0.5	<0.2
105161	Soil	10	31	0.48	369	0.052	<1	2.04	0.009	0.05	0.2	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2
105162	Soil	18	35	0.60	413	0.076	<1	2.40	0.011	0.08	0.1	0.01	5.5	0.1	<0.05	7	<0.5	<0.2
105163	Soil	21	26	1.00	537	0.117	<1	2.65	0.013	0.15	0.2	<0.01	7.1	0.2	<0.05	9	<0.5	<0.2
105164	Soil	22	42	1.54	423	0.079	<1	2.23	0.014	0.11	0.2	<0.01	10.8	<0.1	<0.05	8	<0.5	<0.2
105165	Soil	18	36	0.68	445	0.070	1	2.19	0.010	0.11	0.5	0.01	8.4	0.1	<0.05	7	<0.5	<0.2
105166	Soil	16	41	0.81	447	0.095	<1	2.59	0.014	0.10	0.6	0.02	12.4	0.1	<0.05	9	<0.5	<0.2
105167	Soil	14	32	0.67	410	0.081	1	2.40	0.013	0.12	0.1	<0.01	7.9	0.2	<0.05	8	<0.5	<0.2
105168	Soil	28	30	0.61	450	0.095	<1	3.02	0.011	0.15	0.2	0.01	12.4	0.3	<0.05	11	<0.5	<0.2
105169	Soil	22	24	1.02	435	0.069	<1	2.42	0.012	0.08	0.3	0.01	9.0	0.1	<0.05	9	<0.5	<0.2
105170	Soil	23	22	0.71	262	0.067	2	1.25	0.018	0.09	0.3	0.06	5.8	<0.1	<0.05	5	<0.5	<0.2
105171	Soil	45	12	0.97	270	0.041	<1	1.87	0.010	0.04	0.2	0.04	9.8	<0.1	<0.05	8	<0.5	<0.2
105172	Soil	27	23	0.59	324	0.047	1	1.49	0.015	0.06	0.2	0.01	6.7	<0.1	<0.05	5	<0.5	<0.2
105173	Soil	41	25	0.47	246	0.014	<1	1.99	0.012	0.07	<0.1	0.02	14.6	0.1	<0.05	10	0.6	<0.2
105174	Soil	47	20	0.36	210	0.009	<1	1.75	0.007	0.07	<0.1	0.06	12.8	<0.1	<0.05	9	<0.5	<0.2
105175	Soil	30	32	0.52	406	0.050	2	2.35	0.008	0.10	0.4	0.02	14.1	<0.1	<0.05	9	<0.5	<0.2
105176	Soil	39	20	0.71	294	0.039	1	1.61	0.009	0.09	0.3	0.05	9.0	<0.1	<0.05	6	<0.5	<0.2
105177	Soil	35	13	0.67	252	0.015	<1	1.42	0.007	0.05	0.2	0.02	8.1	<0.1	<0.05	6	<0.5	<0.2
105178	Soil	23	17	0.59	270	0.013	1	1.42	0.011	0.06	0.2	0.01	5.2	<0.1	<0.05	5	<0.5	<0.2

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Project: Bishop
 Report Date: July 07, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
105179	Soil	1.2	22.6	8.0	69	<0.1	16.0	6.2	366	2.96	5.5	1.3	1.3	7.9	57	<0.1	0.4	<0.1	76	0.65	0.059
105180	Soil	1.8	10.2	19.1	163	0.2	52.6	23.5	1002	4.26	2.9	0.7	76.6	11.0	14	0.4	0.2	7.5	87	0.20	0.100
105181	Soil	0.8	23.0	14.4	115	<0.1	39.3	15.5	406	5.04	2.8	1.3	<0.5	18.3	6	0.3	0.4	0.3	63	0.12	0.064
105182	Soil	0.2	14.7	7.8	44	<0.1	35.7	14.1	1204	3.67	5.0	1.3	0.6	24.9	21	<0.1	0.5	0.2	39	0.54	0.057
105183	Soil	1.2	39.4	29.8	109	<0.1	43.4	19.1	1484	4.65	4.1	2.1	3.8	31.3	18	0.1	0.6	0.5	69	0.34	0.060
105184	Soil	0.8	29.9	18.5	119	<0.1	50.2	31.7	1277	6.74	4.8	1.3	0.6	13.8	18	0.1	0.3	0.1	75	0.21	0.029
105185	Soil	0.8	38.3	18.6	83	<0.1	36.6	15.8	321	3.66	7.1	1.3	2.9	13.8	21	<0.1	0.9	0.2	53	0.35	0.041
105186	Soil	13.8	204.3	12.5	105	<0.1	81.8	25.7	473	5.13	8.3	6.8	6.3	14.2	15	0.2	0.7	0.5	185	0.27	0.107
105187	Soil	1.5	53.0	13.7	71	<0.1	40.0	13.5	539	3.12	11.7	1.1	16.9	5.7	24	<0.1	1.0	0.4	61	0.28	0.030
105188	Soil	0.8	31.1	8.4	82	<0.1	41.0	17.1	485	4.77	4.1	1.9	1.8	18.0	29	<0.1	0.7	0.2	57	0.47	0.059
105189	Soil	0.8	48.5	9.0	46	<0.1	32.7	11.2	279	3.29	5.4	2.3	1.5	17.9	18	<0.1	0.5	0.2	32	0.35	0.061
105190	Soil	1.4	34.1	13.1	83	<0.1	35.6	12.3	214	4.35	66.9	2.7	9.2	30.3	17	0.1	0.8	0.3	31	0.29	0.040
105191	Soil	1.5	42.9	14.1	84	<0.1	38.7	14.6	218	4.49	30.7	2.8	3.1	30.8	18	0.2	0.5	0.3	34	0.34	0.065
105192	Soil	1.2	47.6	6.7	59	<0.1	69.7	27.8	544	5.92	8.8	2.3	2.6	11.8	27	<0.1	0.5	<0.1	111	0.55	0.031
105193	Soil	1.1	34.7	16.5	72	<0.1	40.6	16.1	428	4.63	10.7	2.9	2.7	24.1	15	<0.1	0.7	0.3	62	0.25	0.039
105194	Soil	5.5	72.2	21.9	103	0.8	47.8	5.8	125	2.77	24.5	2.4	1.9	6.5	25	0.3	1.1	0.4	71	0.22	0.059
105195	Soil	5.9	154.1	14.8	260	0.6	89.1	5.5	245	3.81	76.6	4.9	6.8	10.6	25	0.4	5.1	0.9	112	0.18	0.045
105196	Soil	1.5	89.5	25.0	1234	0.3	155.3	37.1	1005	4.65	7.3	1.7	1.6	1.8	32	2.1	0.7	0.2	136	0.68	0.031
105197	Soil	5.4	59.0	14.9	101	<0.1	80.0	16.9	902	3.66	34.5	3.4	1.7	9.5	12	0.3	0.6	0.3	96	0.23	0.041
105198	Soil	5.4	126.6	42.0	319	1.1	103.2	19.0	566	4.65	27.5	2.2	11.3	7.0	17	0.7	1.0	3.0	124	0.58	0.051
105199	Soil	1.5	64.9	8.3	97	<0.1	78.1	20.8	539	4.79	16.3	1.5	3.5	4.9	28	0.1	0.9	0.2	102	0.65	0.112
105200	Soil	1.4	79.3	13.8	120	<0.1	102.2	26.1	1082	5.63	7.5	2.2	4.1	8.1	35	0.2	1.0	0.4	101	0.56	0.060
105201	Soil	0.4	95.3	3.0	121	<0.1	41.5	23.4	507	4.08	2.2	0.5	1.1	1.3	24	0.1	0.4	<0.1	132	0.73	0.072
105202	Soil	0.8	13.1	6.8	39	<0.1	250.5	20.4	203	2.02	7.3	0.3	<0.5	2.8	10	<0.1	0.5	0.1	41	0.11	0.012
105203	Soil	0.9	29.3	9.1	60	<0.1	1242	85.2	1094	4.02	7.0	0.7	2.5	2.0	12	<0.1	0.6	0.1	53	0.14	0.019
105204	Soil	0.9	30.1	6.8	42	<0.1	1251	77.6	578	3.77	5.9	0.4	3.7	1.7	12	<0.1	0.5	<0.1	47	0.14	0.013
109157	Soil	1.0	16.0	18.7	41	0.1	13.2	5.6	216	2.27	6.9	0.8	3.0	5.6	15	<0.1	0.5	0.2	59	0.14	0.011
109158	Soil	1.8	25.3	25.4	61	0.1	23.3	8.4	448	3.42	13.0	1.1	1.6	7.4	18	<0.1	0.7	0.3	89	0.15	0.025
109159	Soil	1.0	19.6	16.8	47	<0.1	17.2	5.7	265	2.12	6.3	1.0	1.7	5.2	20	<0.1	0.5	0.2	50	0.14	0.017
109160	Soil	2.2	38.1	29.9	73	0.2	28.3	12.4	907	4.28	17.9	2.9	1.0	6.2	29	0.1	0.9	0.5	108	0.23	0.038

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Project: Bishop
 Report Date: July 07, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
105179	Soil	35	23	0.45	208	0.017	1	1.61	0.008	0.04	0.1	0.02	6.8	<0.1	<0.05	6	<0.5	<0.2
105180	Soil	11	81	1.23	572	0.237	1	2.59	0.007	0.95	0.1	0.02	5.7	0.6	<0.05	10	<0.5	0.9
105181	Soil	7	56	1.08	232	0.228	<1	2.94	0.007	0.96	0.1	0.01	4.0	0.8	<0.05	12	<0.5	<0.2
105182	Soil	87	46	0.99	71	0.015	<1	2.17	0.004	0.42	<0.1	0.14	6.4	0.3	<0.05	9	<0.5	<0.2
105183	Soil	114	61	1.03	161	0.034	<1	2.29	0.006	0.45	<0.1	0.06	10.3	0.4	<0.05	15	<0.5	<0.2
105184	Soil	20	65	1.67	682	0.311	<1	3.92	0.007	1.56	0.2	0.01	2.9	0.8	<0.05	13	<0.5	<0.2
105185	Soil	32	40	0.84	297	0.130	<1	2.10	0.009	0.43	0.1	0.02	4.1	0.4	<0.05	7	<0.5	<0.2
105186	Soil	35	57	0.65	422	0.117	<1	2.04	0.006	0.59	0.2	0.02	7.5	0.5	<0.05	7	0.9	<0.2
105187	Soil	18	39	0.55	440	0.076	1	1.70	0.013	0.08	0.2	0.05	5.0	<0.1	<0.05	5	0.9	<0.2
105188	Soil	48	46	0.98	239	0.094	<1	2.62	0.008	0.76	<0.1	0.03	5.7	0.4	<0.05	9	<0.5	<0.2
105189	Soil	40	30	0.74	167	0.087	<1	2.05	0.005	0.74	<0.1	0.01	3.3	0.4	<0.05	7	<0.5	<0.2
105190	Soil	58	27	0.68	270	0.055	1	2.27	0.006	0.53	<0.1	0.03	4.3	0.8	<0.05	7	<0.5	<0.2
105191	Soil	59	30	0.80	274	0.076	<1	2.47	0.006	0.61	<0.1	0.02	4.0	0.7	<0.05	8	0.6	<0.2
105192	Soil	57	147	1.66	317	0.073	<1	3.07	0.009	0.23	<0.1	0.02	10.4	0.3	<0.05	9	<0.5	<0.2
105193	Soil	88	55	1.32	1513	0.194	<1	3.27	0.010	0.77	<0.1	0.04	6.3	0.6	<0.05	11	<0.5	<0.2
105194	Soil	27	37	0.35	446	0.031	<1	1.19	0.009	0.14	0.3	0.04	4.1	0.3	0.10	4	4.1	<0.2
105195	Soil	46	88	0.90	587	0.097	<1	1.61	0.006	0.58	0.1	0.31	4.1	1.2	0.16	6	4.1	0.3
105196	Soil	10	186	2.14	2298	0.134	<1	3.68	0.011	0.43	<0.1	0.08	13.2	0.5	<0.05	9	0.8	<0.2
105197	Soil	43	39	0.98	572	0.061	<1	1.77	0.004	0.50	<0.1	0.03	3.8	0.5	<0.05	6	0.9	<0.2
105198	Soil	24	108	1.37	4904	0.106	<1	2.28	0.005	0.19	<0.1	0.07	8.0	0.4	<0.05	7	2.5	0.3
105199	Soil	20	75	1.01	469	0.115	<1	2.01	0.012	0.20	0.1	0.08	8.7	0.3	<0.05	8	<0.5	<0.2
105200	Soil	24	96	0.98	503	0.089	<1	2.28	0.009	0.14	<0.1	0.11	9.8	0.3	<0.05	9	<0.5	<0.2
105201	Soil	4	103	1.60	177	0.071	<1	1.93	0.035	0.04	<0.1	0.02	10.4	<0.1	<0.05	7	<0.5	<0.2
105202	Soil	8	138	0.82	199	0.045	<1	0.99	0.005	0.03	0.2	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
105203	Soil	7	359	3.15	232	0.044	3	1.61	0.008	0.03	0.4	0.05	4.0	<0.1	<0.05	4	<0.5	<0.2
105204	Soil	9	524	2.69	218	0.040	2	1.25	0.008	0.03	0.2	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2
109157	Soil	14	24	0.35	229	0.068	<1	1.75	0.009	0.03	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
109158	Soil	15	40	0.40	315	0.070	<1	2.65	0.008	0.06	0.2	0.03	3.4	0.1	<0.05	8	<0.5	<0.2
109159	Soil	15	27	0.35	214	0.066	<1	1.53	0.008	0.04	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
109160	Soil	23	45	0.46	446	0.072	<1	3.26	0.007	0.08	0.2	0.05	4.5	0.1	<0.05	10	0.9	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	0.001
109161	Soil	0.6	12.3	11.1	32	<0.1	11.3	4.4	214	1.50	4.2	0.8	2.7	5.0	10	<0.1	0.4	0.2	35	0.09	0.008
109162	Soil	0.6	8.6	13.4	28	<0.1	8.2	4.5	348	1.10	2.8	0.7	<0.5	3.3	10	<0.1	0.3	0.1	26	0.10	0.014
109163	Soil	0.9	16.5	12.1	43	<0.1	15.2	5.7	234	1.93	6.2	0.9	2.3	5.7	11	<0.1	0.5	0.2	43	0.10	0.012
109164	Soil	1.4	20.3	19.4	57	<0.1	18.7	7.6	335	2.92	10.2	1.2	2.4	7.0	14	<0.1	0.6	0.2	69	0.13	0.021
109165	Soil	1.1	17.6	13.3	53	<0.1	18.7	6.3	239	2.46	8.7	0.9	1.6	5.7	13	<0.1	0.6	0.2	59	0.12	0.015
109166	Soil	0.9	10.6	8.6	45	<0.1	14.4	6.0	205	2.22	8.6	0.5	2.1	3.5	11	<0.1	0.4	0.2	54	0.10	0.021
109167	Soil	0.8	6.3	6.8	27	<0.1	9.2	3.3	129	1.45	5.1	0.3	0.9	2.4	13	<0.1	0.3	0.1	41	0.13	0.015
109168	Soil	1.2	14.4	10.4	44	<0.1	17.8	7.3	391	2.22	9.3	0.4	1.0	4.7	14	<0.1	0.5	0.2	50	0.11	0.016
109169	Soil	1.1	15.1	10.0	44	<0.1	19.1	7.3	287	2.37	8.9	0.5	1.9	4.6	19	<0.1	0.5	0.2	58	0.16	0.013
109170	Soil	1.0	15.1	10.5	41	<0.1	18.9	7.2	361	2.37	7.3	0.5	2.2	4.6	19	0.1	0.5	0.2	56	0.17	0.018
109171	Soil	1.2	17.7	10.4	45	<0.1	18.2	6.6	223	2.23	10.4	0.6	1.6	10.2	17	<0.1	0.6	0.2	45	0.13	0.013
109172	Soil	0.8	10.4	8.4	41	<0.1	13.9	5.8	291	1.81	5.1	0.4	1.6	3.6	20	<0.1	0.3	0.2	49	0.21	0.011
109173	Soil	1.2	16.5	10.4	54	0.2	23.9	8.3	299	2.75	11.2	0.4	1.1	4.4	22	<0.1	0.4	0.2	67	0.23	0.017
109174	Soil	1.1	28.4	12.9	41	<0.1	19.3	5.8	476	2.00	7.4	1.2	3.9	8.9	25	<0.1	0.7	0.2	45	0.24	0.010
109175	Soil	1.4	6.5	11.6	30	<0.1	13.0	4.7	956	1.47	4.4	0.4	0.9	3.0	18	<0.1	0.4	0.2	36	0.17	0.013
109176	Soil	0.9	4.5	10.2	29	<0.1	7.9	3.1	674	1.03	2.5	0.5	0.8	3.9	24	<0.1	0.2	0.2	23	0.24	0.014
109177	Soil	1.2	22.4	11.9	45	<0.1	23.4	5.8	229	2.21	12.2	0.8	<0.5	7.8	28	<0.1	0.7	0.3	50	0.38	0.014
109178	Soil	1.3	15.4	12.6	56	0.1	22.1	9.6	421	2.68	10.0	0.8	<0.5	5.4	26	<0.1	0.5	0.2	63	0.27	0.023
109179	Soil	1.2	9.7	9.7	41	0.1	16.8	6.7	385	1.82	6.3	0.6	0.9	3.4	21	<0.1	0.4	0.2	45	0.27	0.019
109180	Soil	1.7	36.7	15.3	54	<0.1	25.3	8.1	539	2.55	13.0	2.1	5.4	7.3	28	<0.1	1.0	0.3	56	0.29	0.014
109181	Soil	1.0	37.3	13.3	66	<0.1	31.2	11.2	610	2.58	11.5	0.9	4.5	5.3	34	0.1	0.9	0.2	54	0.59	0.039
109182	Soil	0.9	32.0	10.7	55	0.1	26.9	9.1	504	2.47	10.8	2.4	3.6	5.5	33	0.1	0.7	0.2	52	0.47	0.030
109183	Soil	0.8	53.1	3.2	42	<0.1	30.8	20.3	279	3.08	4.8	0.5	2.5	2.4	25	<0.1	0.4	<0.1	99	0.46	0.059
109184	Soil	0.7	38.0	9.0	52	<0.1	27.3	10.0	391	2.85	10.8	0.6	3.6	4.9	30	<0.1	0.7	0.2	60	0.42	0.026
109185	Soil	0.5	41.5	3.8	61	<0.1	34.7	16.2	502	3.86	6.3	0.7	2.8	6.2	43	<0.1	0.4	0.1	78	0.69	0.081
109186	Soil	0.6	24.3	1.5	53	<0.1	17.3	21.6	880	4.22	1.8	0.6	0.6	3.7	39	<0.1	0.2	<0.1	79	0.56	0.084
109187	Soil	1.4	41.3	9.6	55	0.1	31.3	12.8	413	3.23	8.4	1.0	2.6	5.2	34	<0.1	0.7	0.2	64	0.50	0.049
109188	Soil	0.6	26.7	6.9	45	<0.1	24.5	10.7	255	2.38	6.4	1.5	2.3	3.5	49	<0.1	0.5	0.1	54	0.67	0.063
109189	Soil	2.3	36.7	171.0	23	0.2	9.6	3.8	97	2.35	7.2	1.1	4.3	5.6	19	<0.1	3.0	0.3	26	0.11	0.028
109190	Soil	2.0	34.2	168.1	24	0.2	9.2	3.7	94	2.28	7.1	0.9	2.4	4.8	15	<0.1	3.0	0.2	25	0.10	0.027

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109161	Soil	12	19	0.28	146	0.045	<1	1.05	0.006	0.02	0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
109162	Soil	9	13	0.18	111	0.040	<1	0.76	0.005	0.02	0.1	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
109163	Soil	12	24	0.32	185	0.045	<1	1.39	0.006	0.03	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
109164	Soil	14	35	0.42	283	0.052	<1	2.20	0.007	0.04	0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
109165	Soil	15	30	0.39	266	0.045	<1	1.92	0.007	0.04	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
109166	Soil	11	25	0.37	187	0.039	<1	1.54	0.005	0.04	0.2	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
109167	Soil	10	16	0.27	215	0.047	<1	0.82	0.005	0.04	0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
109168	Soil	8	26	0.33	266	0.033	<1	1.73	0.006	0.05	0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
109169	Soil	11	31	0.42	393	0.045	<1	1.84	0.008	0.04	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
109170	Soil	11	30	0.37	313	0.044	<1	1.78	0.007	0.04	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
109171	Soil	8	28	0.35	253	0.037	<1	1.90	0.007	0.05	0.2	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
109172	Soil	11	23	0.36	252	0.041	<1	1.41	0.007	0.03	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
109173	Soil	12	34	0.48	285	0.044	<1	2.19	0.005	0.06	0.1	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2
109174	Soil	18	25	0.32	292	0.036	<1	1.65	0.008	0.04	0.1	0.15	4.3	<0.1	<0.05	5	<0.5	<0.2
109175	Soil	8	17	0.22	238	0.027	<1	1.19	0.006	0.05	0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
109176	Soil	8	11	0.19	236	0.016	<1	1.13	0.005	0.06	<0.1	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
109177	Soil	10	29	0.36	281	0.038	<1	1.95	0.006	0.10	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
109178	Soil	12	34	0.42	275	0.048	<1	2.01	0.006	0.05	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
109179	Soil	9	23	0.33	305	0.036	<1	1.27	0.007	0.04	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
109180	Soil	23	33	0.42	345	0.055	<1	1.70	0.013	0.05	0.1	0.06	5.0	<0.1	<0.05	5	<0.5	<0.2
109181	Soil	16	29	0.56	397	0.058	1	1.52	0.017	0.06	0.2	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
109182	Soil	17	30	0.50	420	0.051	<1	1.55	0.014	0.05	0.2	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
109183	Soil	7	23	0.45	283	0.081	<1	1.21	0.011	0.08	<0.1	<0.01	7.1	<0.1	<0.05	4	<0.5	<0.2
109184	Soil	17	32	0.51	422	0.072	<1	1.52	0.016	0.06	0.1	0.04	5.7	<0.1	<0.05	5	<0.5	<0.2
109185	Soil	17	68	1.13	609	0.134	1	2.05	0.014	0.26	<0.1	0.01	8.4	0.1	<0.05	8	<0.5	<0.2
109186	Soil	16	34	0.85	732	0.079	<1	1.69	0.010	0.37	<0.1	0.01	10.4	0.1	<0.05	6	<0.5	<0.2
109187	Soil	19	44	0.59	569	0.082	<1	1.77	0.013	0.12	0.1	0.06	6.9	<0.1	<0.05	5	<0.5	<0.2
109188	Soil	12	32	0.54	301	0.066	1	1.34	0.016	0.07	0.2	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
109189	Soil	17	13	0.17	199	0.016	<1	0.76	0.004	0.09	<0.1	0.18	2.3	0.1	<0.05	2	1.6	<0.2
109190	Soil	16	13	0.18	180	0.015	<1	0.78	0.004	0.08	0.1	0.14	1.9	0.1	<0.05	2	1.4	<0.2

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Project: Bishop
 Report Date: July 07, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 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
109191	Soil			1.0	42.4	19.5	64	0.3	27.9	10.1	286	2.84	16.1	0.7	2.3	7.5	29	<0.1	1.1	0.4	60	0.36	0.035
109192	Soil			1.0	42.4	23.7	64	0.3	31.3	9.8	321	3.08	16.4	1.2	4.0	6.8	33	<0.1	1.0	0.5	58	0.42	0.039
109193	Soil			0.6	26.9	36.7	38	0.2	20.2	7.0	169	2.29	14.3	1.3	3.6	8.5	28	<0.1	0.9	0.7	45	0.33	0.016
109194	Soil			1.0	36.1	32.0	55	0.2	24.4	8.6	254	2.92	17.5	1.8	3.4	7.0	30	<0.1	1.2	0.4	55	0.36	0.033
109195	Soil			0.7	37.5	42.1	53	0.2	29.5	8.5	205	3.11	27.4	1.4	3.4	8.6	34	<0.1	0.9	0.7	49	0.39	0.019
109196	Soil			1.3	29.5	34.4	72	<0.1	25.3	8.0	368	2.79	18.9	1.2	4.4	6.1	25	0.1	0.8	0.3	44	0.30	0.019
109197	Soil			1.9	23.0	10.3	64	<0.1	27.6	7.7	184	2.22	8.5	0.8	2.5	3.7	12	<0.1	0.3	0.1	28	0.14	0.015
109198	Soil			2.0	26.5	22.1	42	0.2	20.2	6.2	94	2.38	15.5	1.4	0.8	3.0	15	<0.1	5.1	0.5	35	0.07	0.036
109199	Soil			3.1	20.3	21.0	64	<0.1	15.6	13.1	1876	5.51	12.0	3.9	6.6	8.1	48	0.1	0.4	0.3	72	0.51	0.120
109200	Soil			1.8	20.9	3.7	20	<0.1	23.4	10.1	132	2.78	10.2	2.1	1.9	3.9	21	<0.1	0.6	<0.1	21	0.19	0.016
109201	Soil			0.6	48.9	55.5	210	<0.1	29.9	8.4	415	3.87	5.4	1.0	8.5	10.9	32	0.2	0.4	0.4	23	0.21	0.045
109202	Soil			0.8	39.2	10.3	64	<0.1	35.9	11.0	676	3.41	6.7	1.4	4.4	6.8	20	<0.1	0.5	0.2	43	0.15	0.031
109203	Soil			1.1	32.5	13.1	77	<0.1	34.7	15.9	861	3.94	3.2	2.0	1.5	12.3	10	<0.1	0.4	0.3	51	0.13	0.039
109204	Soil			1.1	56.7	11.2	54	0.1	35.9	12.9	301	3.14	12.6	0.8	9.2	5.5	22	<0.1	1.0	0.2	71	0.20	0.011
109205	Soil			1.2	35.9	16.4	45	0.1	28.2	9.0	290	2.48	12.9	0.7	3.4	4.0	22	<0.1	0.7	0.2	52	0.26	0.025
109206	Soil			5.1	138.5	20.2	107	<0.1	72.7	22.0	1161	5.47	18.2	2.5	2.9	6.6	18	<0.1	0.7	0.5	72	0.10	0.042
109207	Soil			0.9	46.4	20.8	51	<0.1	26.5	10.0	112	2.52	7.3	1.2	2.8	6.9	26	<0.1	0.6	0.3	43	0.13	0.026
109208	Soil			1.7	44.1	13.3	56	<0.1	32.7	11.0	303	2.95	12.4	0.6	5.5	4.5	24	<0.1	0.8	0.2	66	0.24	0.012
109209	Soil			1.4	52.8	17.9	50	<0.1	29.5	18.5	273	2.96	11.0	0.8	4.7	5.2	21	<0.1	0.8	0.3	64	0.22	0.009
109210	Soil			1.0	29.6	10.2	54	<0.1	25.1	8.4	237	2.81	16.2	1.1	7.0	6.4	23	<0.1	0.8	0.4	47	0.16	0.017
109211	Soil			0.6	36.0	8.1	27	<0.1	25.8	7.0	66	2.61	19.0	1.8	4.1	10.8	14	<0.1	0.4	0.5	26	0.08	0.029
109212	Soil			2.5	64.7	64.0	27	<0.1	18.6	15.8	628	3.10	17.8	2.1	8.6	6.8	49	<0.1	7.2	0.8	34	0.23	0.054
109213	Soil			1.2	33.3	16.8	49	<0.1	25.8	11.2	375	2.91	12.9	1.0	4.8	4.6	29	<0.1	1.2	0.5	51	0.28	0.028
109214	Soil			1.0	30.7	11.1	52	<0.1	25.5	8.3	261	2.79	12.3	0.9	2.5	4.8	23	<0.1	0.6	0.2	55	0.31	0.031
109215	Soil			1.2	29.8	16.2	57	<0.1	23.3	13.4	558	3.10	15.1	4.6	6.7	7.4	27	<0.1	1.0	0.4	48	0.33	0.026
109216	Soil			1.4	29.2	14.7	65	<0.1	21.8	9.9	366	3.23	12.2	1.7	4.0	8.2	22	<0.1	1.1	0.4	46	0.23	0.024
109217	Soil			1.6	54.4	12.2	111	<0.1	46.8	17.0	873	5.21	13.4	1.5	4.9	5.4	30	0.1	1.1	0.3	66	0.44	0.091
109218	Soil			1.3	26.2	12.6	77	<0.1	24.3	10.2	576	3.54	6.6	1.7	2.4	9.1	25	0.1	0.8	0.3	40	0.35	0.100
109219	Soil			0.4	15.7	13.5	40	<0.1	10.4	3.3	285	2.15	5.6	2.7	2.3	25.9	58	<0.1	0.8	0.4	15	0.17	0.031
109220	Soil			1.0	31.8	13.1	40	0.2	22.9	6.6	176	2.28	48.3	1.0	14.5	5.7	26	<0.1	1.3	0.8	35	0.30	0.029

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
109191	Soil	18	32	0.50	437	0.052	<1	1.61	0.014	0.07	0.1	0.14	4.5	0.1	<0.05	5	<0.5	<0.2
109192	Soil	16	36	0.54	478	0.052	<1	1.95	0.013	0.08	<0.1	0.10	5.1	0.1	<0.05	5	<0.5	<0.2
109193	Soil	18	27	0.31	341	0.030	<1	1.85	0.008	0.09	<0.1	0.06	4.2	0.1	<0.05	5	<0.5	<0.2
109194	Soil	18	34	0.48	386	0.043	<1	1.96	0.010	0.08	<0.1	0.07	5.3	0.1	<0.05	5	<0.5	<0.2
109195	Soil	19	34	0.35	308	0.024	<1	2.56	0.009	0.14	<0.1	0.05	5.7	0.2	<0.05	7	<0.5	<0.2
109196	Soil	18	29	0.32	334	0.026	1	1.66	0.007	0.07	<0.1	0.04	5.1	0.2	<0.05	5	<0.5	<0.2
109197	Soil	12	17	0.14	186	0.006	<1	0.71	0.004	0.03	<0.1	0.02	3.7	<0.1	<0.05	3	<0.5	<0.2
109198	Soil	16	16	0.10	198	0.013	<1	0.87	0.003	0.06	0.1	0.02	1.6	0.2	0.08	3	0.6	0.2
109199	Soil	31	14	0.71	580	0.005	<1	2.29	0.011	0.10	<0.1	0.02	8.9	0.2	<0.05	9	1.1	<0.2
109200	Soil	17	15	0.28	506	0.001	<1	1.26	0.007	0.07	<0.1	<0.01	3.8	0.2	<0.05	4	<0.5	<0.2
109201	Soil	44	11	0.10	455	0.002	<1	0.79	0.003	0.10	<0.1	0.03	3.1	0.1	<0.05	2	<0.5	<0.2
109202	Soil	22	26	0.25	342	0.017	<1	1.05	0.005	0.09	<0.1	0.04	3.9	0.2	<0.05	3	<0.5	<0.2
109203	Soil	32	41	0.85	583	0.113	<1	2.19	0.009	0.78	0.1	0.05	8.0	0.4	<0.05	10	<0.5	<0.2
109204	Soil	16	47	0.48	309	0.068	<1	2.04	0.009	0.07	<0.1	0.06	6.6	<0.1	<0.05	6	<0.5	<0.2
109205	Soil	14	33	0.43	387	0.051	<1	1.36	0.011	0.05	0.2	0.05	4.4	<0.1	<0.05	4	<0.5	<0.2
109206	Soil	21	33	0.24	357	0.009	<1	1.39	0.003	0.13	<0.1	0.17	8.8	0.4	<0.05	4	1.6	0.4
109207	Soil	18	30	0.18	302	0.023	<1	1.41	0.004	0.09	<0.1	0.04	5.2	0.1	<0.05	4	<0.5	<0.2
109208	Soil	18	42	0.48	395	0.071	<1	1.78	0.011	0.06	0.1	0.07	5.5	<0.1	<0.05	5	<0.5	<0.2
109209	Soil	18	37	0.35	325	0.054	<1	2.01	0.008	0.07	<0.1	0.06	5.6	0.1	<0.05	6	<0.5	<0.2
109210	Soil	23	29	0.39	436	0.038	<1	1.42	0.008	0.06	0.1	0.05	5.6	0.2	<0.05	4	0.6	<0.2
109211	Soil	56	12	0.07	199	0.005	<1	0.69	0.004	0.05	<0.1	0.02	3.3	0.1	<0.05	2	0.5	<0.2
109212	Soil	28	16	0.16	455	0.009	<1	1.08	0.007	0.12	<0.1	0.08	5.8	0.3	0.06	3	0.7	<0.2
109213	Soil	18	29	0.38	411	0.040	<1	1.56	0.010	0.08	<0.1	0.04	4.6	0.1	<0.05	5	0.6	<0.2
109214	Soil	17	36	0.47	343	0.056	<1	1.64	0.011	0.07	0.1	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
109215	Soil	25	27	0.37	428	0.028	<1	1.88	0.008	0.11	<0.1	0.08	5.5	0.2	<0.05	6	0.7	<0.2
109216	Soil	41	25	0.31	359	0.024	<1	1.31	0.006	0.11	<0.1	0.03	4.2	0.2	<0.05	4	0.6	<0.2
109217	Soil	19	35	0.46	518	0.025	1	1.94	0.011	0.12	0.1	0.06	8.7	0.2	<0.05	6	0.8	<0.2
109218	Soil	36	22	0.28	362	0.011	<1	1.45	0.007	0.22	<0.1	0.04	5.4	0.3	<0.05	5	0.5	<0.2
109219	Soil	30	6	0.12	333	0.007	<1	1.06	0.006	0.27	<0.1	0.03	4.1	0.5	<0.05	6	0.9	<0.2
109220	Soil	25	21	0.26	274	0.022	<1	1.55	0.008	0.08	<0.1	0.04	3.3	0.1	<0.05	4	0.5	<0.2

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Project: Bishop
 Report Date: July 07, 2011

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	0.001
109221	Soil	1.4	35.4	17.2	58	0.2	27.5	8.8	265	2.78	49.3	1.0	9.9	6.5	23	0.1	1.7	0.7	48	0.29	0.044
109222	Soil	1.1	32.2	10.9	61	0.2	26.4	9.6	324	2.61	40.2	0.9	6.7	4.1	28	0.1	1.1	0.5	47	0.35	0.060
110250	Soil	0.2	53.0	12.1	91	<0.1	32.7	15.1	571	3.85	0.8	1.5	0.6	14.7	29	<0.1	0.2	0.4	29	0.08	0.037
110251	Soil	0.5	24.7	11.6	49	<0.1	37.3	15.7	451	5.11	2.4	2.1	1.1	16.6	25	<0.1	0.3	0.2	34	0.12	0.024
110252	Soil	2.2	35.6	15.8	33	<0.1	14.8	5.4	134	2.69	18.1	0.6	1.4	3.9	20	<0.1	0.5	0.2	43	0.08	0.020
110253	Soil	1.1	39.9	17.4	76	<0.1	33.4	12.7	266	3.61	10.9	1.4	5.2	8.6	20	<0.1	0.6	0.3	44	0.19	0.020
110254	Soil	1.1	51.7	19.8	91	<0.1	32.2	14.6	291	3.95	6.5	1.5	1.6	8.9	18	<0.1	0.5	0.4	34	0.09	0.029
110255	Soil	0.7	84.6	14.5	87	<0.1	38.3	11.2	354	3.44	13.5	2.2	7.1	6.4	38	0.1	0.6	0.3	41	0.14	0.034
110256	Soil	0.9	21.7	12.0	52	<0.1	18.9	7.7	232	2.54	7.8	0.7	1.3	3.4	13	<0.1	0.5	0.2	51	0.14	0.029
110257	Soil	1.5	34.7	12.4	69	0.2	31.4	10.4	347	2.84	21.4	1.0	4.7	4.2	28	<0.1	0.7	0.3	52	0.34	0.051
110258	Soil	1.5	29.1	22.9	73	0.1	26.5	10.4	279	2.68	8.8	1.0	3.5	3.8	13	0.2	0.7	0.2	47	0.09	0.020
110259	Soil	2.2	47.3	10.1	103	0.1	46.5	11.6	340	3.11	9.2	1.1	6.9	4.4	15	0.2	0.5	0.2	58	0.10	0.032
110260	Soil	2.6	41.0	12.7	51	0.2	26.3	8.4	270	1.71	7.5	1.1	3.8	2.0	18	0.7	0.4	0.2	34	0.08	0.039
110261	Soil	3.0	75.9	8.1	139	0.2	57.9	6.4	75	2.48	10.4	1.6	5.4	3.9	36	0.6	0.7	0.3	52	0.03	0.063
110262	Soil	0.6	60.7	5.1	73	0.1	69.9	22.6	377	4.39	4.9	0.5	5.7	3.2	41	<0.1	0.2	<0.1	62	0.86	0.166
110263	Soil	3.8	95.8	17.0	233	<0.1	98.3	14.5	563	4.65	5.2	1.6	3.3	10.6	20	0.6	0.3	0.3	135	0.18	0.090
110264	Soil	6.3	63.9	19.8	157	0.5	31.1	4.9	103	3.57	9.8	2.0	1.2	5.7	22	0.2	0.5	0.3	102	0.06	0.061
110265	Soil	1.8	56.7	10.9	144	0.7	226.2	18.1	238	3.99	47.9	1.3	2.0	5.0	20	0.4	1.2	0.3	80	0.15	0.033
110266	Soil	2.4	82.6	11.5	201	0.4	153.8	20.0	366	4.47	25.8	1.4	10.6	5.9	26	0.6	0.8	0.2	107	0.38	0.089
110267	Soil	4.0	86.1	10.6	170	0.4	52.1	7.2	337	2.41	5.3	1.2	14.4	2.5	23	0.7	0.5	0.5	106	0.15	0.046
110268	Soil	0.8	42.1	10.4	73	0.4	37.0	12.2	387	3.13	11.0	1.0	4.1	4.2	35	0.1	0.6	0.2	59	0.65	0.089
110269	Soil	0.7	40.5	8.1	73	0.4	35.4	12.7	478	3.39	9.5	0.9	12.1	4.6	30	<0.1	0.4	0.2	63	0.67	0.113
110270	Soil	1.5	36.0	10.6	70	0.2	32.5	10.4	414	2.68	12.5	0.8	3.9	3.9	21	0.1	0.5	0.2	56	0.34	0.084
110271	Soil	1.6	46.3	11.3	74	0.2	38.5	11.9	274	3.08	10.8	0.9	8.7	5.5	20	0.1	0.6	0.2	71	0.28	0.052
110272	Soil	2.4	96.2	19.8	108	0.2	57.6	20.9	447	3.78	12.0	1.7	15.5	6.2	20	0.2	0.9	0.2	95	0.25	0.040
110273	Soil	1.8	79.1	9.5	110	0.3	56.2	12.7	401	3.52	11.2	1.7	8.8	5.0	31	0.2	0.5	0.2	92	0.56	0.078
110274	Soil	1.9	53.6	19.8	95	0.2	50.7	14.2	618	3.48	11.9	1.4	6.0	4.3	27	0.2	0.6	0.2	62	0.42	0.057
110275	Soil	1.4	49.0	11.7	75	0.1	37.8	11.4	346	2.71	11.6	0.9	5.0	4.9	28	0.1	0.8	0.2	56	0.33	0.045
110276	Soil	2.8	69.7	13.3	138	<0.1	62.8	15.3	264	4.80	26.9	1.9	2.1	6.9	10	0.1	0.3	0.5	96	0.13	0.067
110277	Soil	1.6	33.6	16.0	70	<0.1	25.8	8.3	230	3.23	16.0	2.8	3.1	12.1	12	<0.1	0.8	0.5	69	0.08	0.017

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Project: Bishop
 Report Date: July 07, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109221	Soil	19	30	0.41	287	0.047	<1	1.55	0.010	0.07	0.1	0.04	4.4	0.1	<0.05	5	0.7	<0.2
109222	Soil	15	29	0.45	332	0.051	<1	1.38	0.014	0.06	0.2	0.05	3.8	0.1	<0.05	4	<0.5	<0.2
110250	Soil	31	24	0.22	282	0.029	1	1.00	0.005	0.39	<0.1	0.03	6.4	0.4	<0.05	6	<0.5	<0.2
110251	Soil	39	29	0.28	406	0.024	3	1.15	0.004	0.33	<0.1	0.09	6.8	0.3	<0.05	7	<0.5	<0.2
110252	Soil	14	25	0.24	332	0.016	<1	1.47	0.004	0.05	<0.1	0.02	2.1	0.2	<0.05	4	0.6	<0.2
110253	Soil	24	33	0.48	330	0.079	<1	1.66	0.006	0.27	<0.1	0.03	4.9	0.3	<0.05	5	0.5	<0.2
110254	Soil	29	19	0.13	181	0.008	<1	0.92	0.003	0.09	<0.1	0.07	4.6	0.1	<0.05	3	0.6	<0.2
110255	Soil	17	18	0.18	300	0.008	<1	0.86	0.005	0.09	<0.1	0.06	4.5	0.1	<0.05	3	1.6	<0.2
110256	Soil	13	29	0.36	180	0.046	<1	1.47	0.007	0.06	0.1	0.01	2.8	<0.1	<0.05	5	0.8	<0.2
110257	Soil	14	38	0.42	443	0.033	<1	1.42	0.011	0.08	0.1	0.08	5.7	0.2	<0.05	5	0.8	<0.2
110258	Soil	10	28	0.21	224	0.026	<1	1.02	0.004	0.07	<0.1	0.02	3.8	0.1	<0.05	4	0.5	<0.2
110259	Soil	13	34	0.27	446	0.021	1	1.27	0.004	0.05	<0.1	0.05	3.5	0.1	<0.05	4	0.8	<0.2
110260	Soil	8	19	0.12	663	0.012	1	0.57	0.003	0.04	0.1	0.03	2.2	<0.1	<0.05	2	1.3	<0.2
110261	Soil	12	24	0.15	531	0.011	<1	0.76	0.002	0.06	0.1	0.50	1.8	0.5	<0.05	2	2.7	<0.2
110262	Soil	31	107	1.20	989	0.183	<1	2.26	0.024	0.38	<0.1	0.02	7.7	0.3	<0.05	8	0.6	<0.2
110263	Soil	23	110	0.94	851	0.144	2	1.71	0.004	0.68	0.2	0.03	9.6	0.7	<0.05	8	1.8	0.2
110264	Soil	13	34	0.24	427	0.034	<1	0.83	0.004	0.23	<0.1	0.02	3.0	0.3	0.15	3	3.2	<0.2
110265	Soil	15	80	0.34	351	0.029	<1	1.16	0.003	0.10	<0.1	0.02	5.4	0.1	<0.05	4	1.8	<0.2
110266	Soil	26	131	1.17	576	0.104	<1	2.01	0.006	0.31	<0.1	0.03	6.7	0.4	<0.05	8	1.5	<0.2
110267	Soil	7	48	0.42	553	0.039	<1	0.75	0.004	0.33	<0.1	0.02	3.3	0.2	0.10	4	3.1	<0.2
110268	Soil	18	40	0.72	414	0.098	2	1.58	0.018	0.17	0.2	0.04	4.4	0.1	<0.05	5	0.9	<0.2
110269	Soil	19	42	0.83	356	0.125	1	1.76	0.017	0.35	0.1	0.04	4.7	0.1	<0.05	6	<0.5	<0.2
110270	Soil	12	35	0.52	275	0.070	<1	1.51	0.009	0.16	0.2	0.01	3.8	0.1	<0.05	5	<0.5	<0.2
110271	Soil	18	45	0.65	412	0.097	1	1.71	0.008	0.28	0.2	0.03	4.7	0.2	<0.05	5	1.1	<0.2
110272	Soil	20	61	0.42	346	0.063	1	1.54	0.005	0.21	<0.1	0.10	8.7	0.2	<0.05	6	1.3	<0.2
110273	Soil	22	71	0.85	456	0.123	<1	1.90	0.011	0.27	<0.1	0.06	5.8	0.2	<0.05	7	1.3	<0.2
110274	Soil	17	42	0.43	385	0.059	<1	1.36	0.011	0.10	0.1	0.08	5.1	0.2	<0.05	4	0.7	<0.2
110275	Soil	15	33	0.49	444	0.066	<1	1.37	0.016	0.07	0.2	0.09	4.0	0.1	<0.05	4	<0.5	<0.2
110276	Soil	24	59	1.12	374	0.158	<1	2.95	0.013	0.81	0.3	0.01	4.2	0.9	<0.05	9	0.6	<0.2
110277	Soil	22	41	0.46	174	0.075	1	2.17	0.008	0.09	0.2	0.03	5.8	0.1	<0.05	6	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
110278	Soil	1.1	22.7	16.0	51	<0.1	17.7	6.5	245	2.42	12.5	2.4	1.8	12.3	12	<0.1	0.6	1.2	49	0.09	0.012
110279	Soil	0.8	11.9	19.5	44	<0.1	8.0	4.0	204	1.60	8.8	4.0	0.6	39.5	11	<0.1	0.9	1.6	18	0.09	0.012
110280	Soil	1.1	14.7	18.7	43	0.1	11.6	4.7	212	2.30	7.6	2.2	0.9	26.7	12	<0.1	1.1	1.0	30	0.11	0.015
110281	Soil	1.4	14.8	24.4	73	0.2	16.0	8.7	374	3.95	16.3	0.6	<0.5	4.6	31	0.1	1.0	0.3	90	0.19	0.047
110282	Soil	2.1	18.2	16.6	112	<0.1	9.1	7.3	1045	5.49	20.7	4.6	1.7	9.1	26	<0.1	3.3	1.2	67	0.31	0.171
110283	Soil	2.1	23.1	30.0	158	0.2	20.6	7.3	236	3.15	176.3	3.7	7.2	18.2	17	0.4	1.7	10.4	50	0.10	0.022
110284	Soil	2.9	11.4	68.8	17	1.4	2.3	0.8	15	0.80	222.5	8.5	17.5	37.2	24	<0.1	5.4	3.9	9	0.08	0.014
110285	Soil	7.3	26.4	103.8	41	1.8	1.5	0.6	22	2.91	98.6	4.6	4.0	28.3	22	<0.1	5.3	4.4	7	0.06	0.050
110286	Soil	2.9	6.6	80.8	64	<0.1	4.5	5.6	489	1.04	10.2	10.5	1.7	48.2	10	<0.1	1.9	2.2	4	0.07	0.008
110287	Soil	1.2	33.9	13.6	62	<0.1	26.2	8.1	319	2.66	11.9	1.8	2.5	11.5	28	<0.1	1.0	0.7	52	0.29	0.017
110288	Soil	1.0	16.5	15.8	68	0.2	18.7	9.8	933	3.08	10.3	0.7	2.0	4.4	28	0.2	0.8	0.3	72	0.19	0.031
110289	Soil	1.0	28.9	19.0	56	<0.1	22.2	11.9	271	3.20	12.5	0.8	5.7	6.4	42	<0.1	0.7	0.3	75	0.30	0.018
110290	Soil	1.1	26.7	18.9	52	<0.1	21.3	10.5	375	3.14	11.1	0.7	3.2	5.8	36	<0.1	0.6	0.2	75	0.29	0.027
110291	Soil	0.7	29.0	29.0	50	<0.1	22.2	7.2	249	2.26	21.5	1.3	1.8	10.5	25	<0.1	1.9	0.3	44	0.26	0.019
110292	Soil	0.7	23.5	23.4	50	0.1	16.8	6.6	197	2.33	44.1	2.0	7.2	7.3	15	<0.1	4.0	0.4	47	0.12	0.012
110293	Soil	1.4	40.1	17.2	79	0.1	33.9	12.9	464	3.34	23.2	0.9	8.7	4.6	35	<0.1	1.9	0.3	63	0.47	0.056
110294	Soil	2.6	33.0	54.7	614	0.2	29.1	15.8	511	5.42	49.4	2.3	11.8	7.2	48	0.3	14.9	1.0	89	0.49	0.054
110295	Soil	1.2	52.0	39.1	71	0.1	34.4	11.5	279	3.33	33.7	0.7	11.4	5.3	32	0.1	2.3	0.3	66	0.36	0.021
110296	Soil	0.8	27.0	21.8	49	<0.1	20.7	7.5	247	2.12	16.0	0.6	3.8	3.7	23	0.1	0.8	0.2	51	0.29	0.028
110297	Soil	2.1	27.0	202.3	159	0.6	15.3	7.6	185	4.60	170.4	2.3	88.8	7.7	58	0.4	12.1	0.8	79	0.26	0.055



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Project: Bishop
 Report Date: July 07, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
110278	Soil	13	30	0.37	150	0.050	<1	1.69	0.009	0.06	0.2	0.01	3.3	0.1	<0.05	4	0.6	<0.2
110279	Soil	36	11	0.15	116	0.011	<1	0.95	0.004	0.09	<0.1	<0.01	2.9	0.2	<0.05	3	0.7	<0.2
110280	Soil	28	17	0.39	132	0.020	<1	1.60	0.005	0.07	<0.1	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2
110281	Soil	12	28	0.57	219	0.027	<1	3.14	0.007	0.08	<0.1	0.02	4.2	0.1	<0.05	10	0.6	<0.2
110282	Soil	23	19	0.47	195	0.014	<1	1.91	0.007	0.14	<0.1	<0.01	4.6	0.1	<0.05	9	<0.5	<0.2
110283	Soil	27	30	0.39	220	0.041	1	1.83	0.008	0.08	<0.1	0.01	5.0	0.2	<0.05	5	<0.5	<0.2
110284	Soil	23	6	0.06	160	0.007	1	0.68	0.005	0.11	<0.1	0.02	3.5	0.4	0.08	1	<0.5	0.5
110285	Soil	14	3	0.04	172	0.002	<1	0.27	0.008	0.39	0.2	<0.01	0.8	0.3	0.62	1	<0.5	<0.2
110286	Soil	30	3	0.06	104	0.001	<1	0.51	0.002	0.08	<0.1	0.02	1.5	0.2	<0.05	1	<0.5	<0.2
110287	Soil	17	33	0.48	339	0.060	2	1.56	0.012	0.07	0.1	0.05	4.7	0.1	<0.05	5	<0.5	<0.2
110288	Soil	14	33	0.50	569	0.073	<1	2.20	0.008	0.05	0.1	0.01	4.1	0.1	<0.05	7	0.6	<0.2
110289	Soil	21	37	0.54	532	0.112	<1	2.48	0.012	0.05	0.1	0.07	7.3	0.1	<0.05	7	<0.5	<0.2
110290	Soil	19	34	0.58	513	0.117	<1	2.34	0.012	0.05	0.2	0.03	5.6	0.1	<0.05	7	<0.5	<0.2
110291	Soil	20	28	0.42	379	0.041	<1	1.36	0.013	0.07	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
110292	Soil	18	29	0.34	222	0.041	<1	1.68	0.008	0.06	<0.1	0.01	3.2	0.1	<0.05	4	0.8	<0.2
110293	Soil	19	39	0.59	408	0.066	<1	1.95	0.017	0.07	0.1	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
110294	Soil	20	27	0.72	528	0.080	<1	2.66	0.009	0.07	<0.1	0.02	7.1	0.2	<0.05	10	0.6	<0.2
110295	Soil	21	39	0.50	411	0.069	1	2.30	0.010	0.08	<0.1	0.07	6.9	0.1	<0.05	6	<0.5	<0.2
110296	Soil	14	25	0.40	269	0.082	<1	1.44	0.015	0.05	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
110297	Soil	19	22	0.54	342	0.084	<1	2.18	0.009	0.06	0.1	0.01	5.3	0.2	<0.05	8	0.5	<0.2



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Project: Bishop
Report Date: July 07, 2011

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
101163	Soil	1.2	19.5	13.3	74	<0.1	17.6	10.8	478	4.14	13.4	1.1	2.1	5.8	44	<0.1	0.6	0.1	103	0.45	0.068
REP 101163	QC	1.3	20.0	13.7	76	<0.1	17.0	10.6	486	4.03	12.7	1.1	0.8	6.1	44	<0.1	0.5	0.1	103	0.42	0.068
101165	Soil	1.1	18.2	11.0	69	<0.1	15.4	8.6	517	3.45	10.8	1.3	3.5	7.1	41	<0.1	0.5	0.2	82	0.41	0.068
REP 101165	QC	1.0	17.8	10.7	69	<0.1	15.5	8.5	559	3.43	11.1	1.3	3.8	6.9	40	<0.1	0.6	0.2	83	0.40	0.065
103139	Soil	1.1	10.9	16.1	43	<0.1	14.4	5.0	216	2.09	7.0	0.6	1.5	4.0	13	<0.1	0.3	0.2	58	0.12	0.023
REP 103139	QC	1.3	10.7	16.3	42	<0.1	13.5	5.1	210	2.09	6.5	0.6	2.2	3.9	13	0.1	0.3	0.2	57	0.12	0.022
103143	Soil	0.8	8.2	16.4	27	<0.1	9.4	3.3	170	1.48	3.8	0.4	<0.5	4.5	10	0.1	0.3	0.1	39	0.09	0.012
REP 103143	QC	0.9	8.5	15.9	28	<0.1	9.5	3.4	173	1.52	4.1	0.5	<0.5	4.5	10	<0.1	0.3	0.1	40	0.10	0.012
103174	Soil	0.8	9.3	14.9	40	<0.1	10.9	5.0	156	2.08	6.6	0.9	3.7	7.1	22	<0.1	0.6	0.2	33	0.25	0.045
REP 103174	QC	0.7	9.0	14.7	40	<0.1	11.1	5.1	154	2.02	6.4	0.8	0.6	7.0	22	<0.1	0.5	0.2	34	0.24	0.045
103189	Soil	2.0	44.5	30.7	67	0.5	28.5	13.0	549	3.35	15.1	4.5	4.4	5.7	39	0.1	1.1	0.2	65	0.50	0.049
REP 103189	QC	1.7	43.0	34.9	63	0.4	29.0	12.9	512	3.36	15.2	4.5	4.0	5.7	39	0.1	1.0	0.3	64	0.47	0.047
103202	Soil	2.6	14.1	19.8	75	<0.1	15.1	7.1	716	3.81	18.0	1.6	3.5	7.0	46	<0.1	0.4	0.3	63	0.69	0.131
REP 103202	QC	2.9	14.4	19.8	75	<0.1	16.0	7.3	715	3.81	18.3	1.5	2.7	7.1	46	<0.1	0.4	0.3	63	0.67	0.133
103213	Soil	4.3	34.5	15.9	59	0.4	19.1	8.2	247	2.73	53.7	1.4	14.0	4.4	31	<0.1	1.7	0.6	50	0.38	0.066
REP 103213	QC	4.0	34.9	16.9	62	0.3	19.6	8.3	255	2.78	55.0	1.5	4.5	4.5	33	0.1	1.8	0.6	52	0.42	0.070
105139	Soil	1.8	50.6	13.6	76	0.5	33.9	10.4	373	2.82	9.9	1.2	4.2	4.7	42	<0.1	0.8	0.2	56	1.24	0.041
REP 105139	QC	1.7	51.7	14.4	80	0.5	34.8	10.3	389	2.88	10.5	1.2	5.4	5.0	44	0.2	0.8	0.2	60	1.30	0.043
105161	Soil	1.2	12.1	10.5	64	<0.1	19.6	8.5	750	2.62	6.5	0.5	0.8	3.4	34	0.2	0.4	0.1	65	0.36	0.051
REP 105161	QC	1.0	12.3	10.2	64	0.1	19.0	8.7	854	2.61	6.2	0.5	0.5	3.4	34	0.2	0.4	0.1	66	0.38	0.052
105184	Soil	0.8	29.9	18.5	119	<0.1	50.2	31.7	1277	6.74	4.8	1.3	0.6	13.8	18	0.1	0.3	0.1	75	0.21	0.029
REP 105184	QC	0.8	29.8	18.7	117	<0.1	48.6	31.4	1298	6.82	4.8	1.2	<0.5	14.2	19	0.1	0.3	0.1	76	0.22	0.030
105197	Soil	5.4	59.0	14.9	101	<0.1	80.0	16.9	902	3.66	34.5	3.4	1.7	9.5	12	0.3	0.6	0.3	96	0.23	0.041
REP 105197	QC	5.9	60.1	14.7	107	<0.1	81.8	16.8	905	3.71	35.3	3.3	2.0	9.3	12	0.1	0.7	0.3	97	0.23	0.044
109168	Soil	1.2	14.4	10.4	44	<0.1	17.8	7.3	391	2.22	9.3	0.4	1.0	4.7	14	<0.1	0.5	0.2	50	0.11	0.016
REP 109168	QC	1.1	14.5	10.7	46	<0.1	17.7	7.5	402	2.27	9.3	0.4	0.8	4.7	14	<0.1	0.6	0.2	52	0.12	0.017
109179	Soil	1.2	9.7	9.7	41	0.1	16.8	6.7	385	1.82	6.3	0.6	0.9	3.4	21	<0.1	0.4	0.2	45	0.27	0.019
REP 109179	QC	1.1	9.9	9.6	42	0.1	17.1	7.0	396	1.90	6.4	0.6	1.8	3.7	22	<0.1	0.3	0.2	46	0.28	0.020

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
101163	Soil	15	41	0.85	534	0.083	<1	3.14	0.013	0.10	<0.1	<0.01	7.7	0.2	<0.05	8	<0.5	<0.2
REP 101163	QC	15	41	0.85	519	0.087	1	3.15	0.013	0.10	0.1	<0.01	7.5	0.2	<0.05	8	0.5	<0.2
101165	Soil	20	31	0.85	346	0.091	<1	2.46	0.013	0.07	0.2	0.01	6.9	0.1	<0.05	7	<0.5	<0.2
REP 101165	QC	20	32	0.85	340	0.098	<1	2.40	0.012	0.08	0.3	0.02	6.6	0.1	<0.05	7	<0.5	<0.2
103139	Soil	10	26	0.31	235	0.057	<1	1.63	0.007	0.04	0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
REP 103139	QC	10	25	0.31	227	0.057	<1	1.65	0.007	0.04	0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
103143	Soil	9	17	0.19	130	0.057	<1	1.23	0.006	0.03	0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
REP 103143	QC	9	17	0.20	133	0.058	<1	1.24	0.006	0.03	0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
103174	Soil	21	17	0.31	209	0.021	<1	1.03	0.006	0.12	<0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
REP 103174	QC	21	17	0.31	203	0.021	<1	1.05	0.007	0.12	0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
103189	Soil	18	38	0.46	539	0.044	<1	2.16	0.013	0.09	<0.1	0.14	5.4	0.1	<0.05	6	1.0	<0.2
REP 103189	QC	19	38	0.45	528	0.042	<1	2.11	0.012	0.08	<0.1	0.15	5.1	0.1	<0.05	6	0.8	<0.2
103202	Soil	30	21	0.43	558	0.012	1	1.80	0.011	0.09	<0.1	0.03	6.3	0.1	<0.05	6	<0.5	<0.2
REP 103202	QC	30	21	0.44	546	0.012	1	1.84	0.011	0.09	0.1	0.04	6.2	0.1	<0.05	6	<0.5	<0.2
103213	Soil	18	26	0.35	320	0.041	<1	1.48	0.010	0.05	0.2	0.06	3.1	<0.1	<0.05	4	<0.5	<0.2
REP 103213	QC	18	25	0.36	323	0.041	<1	1.51	0.010	0.05	0.2	0.05	3.3	0.1	<0.05	4	<0.5	<0.2
105139	Soil	16	35	0.60	452	0.066	2	1.46	0.016	0.09	0.2	0.05	3.8	0.1	<0.05	5	0.6	<0.2
REP 105139	QC	18	35	0.62	478	0.068	1	1.58	0.018	0.10	0.2	0.05	4.1	0.1	<0.05	5	0.7	<0.2
105161	Soil	10	31	0.48	369	0.052	<1	2.04	0.009	0.05	0.2	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2
REP 105161	QC	10	29	0.46	367	0.052	<1	2.00	0.008	0.05	0.1	<0.01	2.9	0.1	<0.05	6	<0.5	<0.2
105184	Soil	20	65	1.67	682	0.311	<1	3.92	0.007	1.56	0.2	0.01	2.9	0.8	<0.05	13	<0.5	<0.2
REP 105184	QC	20	66	1.68	696	0.316	<1	3.91	0.008	1.54	0.1	<0.01	2.7	0.8	<0.05	12	<0.5	<0.2
105197	Soil	43	39	0.98	572	0.061	<1	1.77	0.004	0.50	<0.1	0.03	3.8	0.5	<0.05	6	0.9	<0.2
REP 105197	QC	42	43	0.98	594	0.060	<1	1.80	0.004	0.49	<0.1	0.02	3.8	0.5	<0.05	6	<0.5	<0.2
109168	Soil	8	26	0.33	266	0.033	<1	1.73	0.006	0.05	0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 109168	QC	8	27	0.34	262	0.035	<1	1.75	0.006	0.05	0.2	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
109179	Soil	9	23	0.33	305	0.036	<1	1.27	0.007	0.04	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
REP 109179	QC	9	24	0.33	308	0.041	<1	1.34	0.007	0.04	0.1	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: Bishop
 Report Date: July 07, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000297.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 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
109206	Soil	5.1	138.5	20.2	107	<0.1	72.7	22.0	1161	5.47	18.2	2.5	2.9	6.6	18	<0.1	0.7	0.5	72	0.10	0.042
REP 109206	QC	5.3	141.8	20.3	112	<0.1	76.4	22.2	1150	5.49	18.0	2.5	3.4	6.8	20	0.1	0.7	0.6	73	0.10	0.044
109215	Soil	1.2	29.8	16.2	57	<0.1	23.3	13.4	558	3.10	15.1	4.6	6.7	7.4	27	<0.1	1.0	0.4	48	0.33	0.026
REP 109215	QC	1.2	31.1	16.5	55	<0.1	23.2	13.2	586	3.15	15.4	4.4	6.2	7.1	27	0.1	1.0	0.4	50	0.33	0.027
110259	Soil	2.2	47.3	10.1	103	0.1	46.5	11.6	340	3.11	9.2	1.1	6.9	4.4	15	0.2	0.5	0.2	58	0.10	0.032
REP 110259	QC	2.1	47.2	9.8	100	0.1	47.5	11.6	332	3.06	9.2	1.1	7.9	4.4	15	0.2	0.5	0.2	57	0.10	0.031
110284	Soil	2.9	11.4	68.8	17	1.4	2.3	0.8	15	0.80	222.5	8.5	17.5	37.2	24	<0.1	5.4	3.9	9	0.08	0.014
REP 110284	QC	2.6	11.3	66.5	18	1.4	2.3	0.7	15	0.78	222.7	8.3	16.6	37.3	23	<0.1	5.3	4.0	9	0.08	0.014
Reference Materials																					
STD DS8	Standard	14.2	112.8	125.1	330	1.8	39.3	7.7	641	2.57	28.5	2.8	113.1	7.3	69	2.3	6.0	7.0	44	0.73	0.087
STD DS8	Standard	14.1	114.3	119.8	333	1.8	39.2	7.9	655	2.56	28.7	2.8	112.1	7.1	69	2.5	6.1	6.7	44	0.73	0.086
STD DS8	Standard	13.3	122.6	135.9	337	2.0	43.0	8.0	615	2.54	27.2	2.9	116.8	7.0	62	2.4	5.7	6.6	46	0.67	0.082
STD DS8	Standard	14.8	122.3	133.6	338	1.9	42.4	8.3	655	2.63	28.4	2.8	126.8	6.9	66	2.4	5.9	6.8	47	0.71	0.092
STD DS8	Standard	13.6	116.6	126.5	339	1.9	40.1	7.9	644	2.49	27.7	2.9	122.9	7.0	66	2.3	5.8	6.7	44	0.68	0.087
STD DS8	Standard	13.7	113.3	130.7	335	1.9	40.6	8.1	634	2.54	28.0	2.8	102.3	6.8	66	2.5	6.0	6.8	45	0.70	0.087
STD DS8	Standard	14.1	119.3	137.5	320	1.8	41.5	8.2	628	2.51	25.2	3.0	107.3	7.1	58	2.5	5.3	6.3	45	0.69	0.076
STD DS8	Standard	14.2	121.0	140.2	324	1.8	42.0	8.2	633	2.55	25.7	3.0	116.5	7.4	59	2.2	5.0	6.3	45	0.69	0.078
STD DS8	Standard	13.2	116.4	117.6	310	1.7	40.0	7.6	602	2.37	24.6	2.5	163.0	6.3	58	2.3	4.9	6.8	41	0.65	0.080
STD DS8	Standard	13.9	118.4	122.5	323	1.8	40.1	8.2	616	2.47	25.5	2.6	115.8	6.5	58	2.1	5.7	7.0	44	0.66	0.079
STD DS8	Standard	13.8	122.7	130.0	332	1.7	43.0	8.4	645	2.61	28.4	2.8	112.9	7.0	63	2.2	5.8	6.4	47	0.71	0.086
STD DS8	Standard	14.2	126.1	137.5	336	1.8	43.9	8.6	665	2.65	28.5	2.9	99.1	7.0	65	2.2	6.0	6.8	47	0.72	0.089
STD DS8	Standard	14.0	117.5	116.4	326	1.8	40.2	8.2	630	2.45	26.1	2.6	120.7	6.2	60	2.1	5.3	6.7	44	0.68	0.076
STD DS8	Standard	14.2	115.8	113.1	320	1.7	40.9	8.3	628	2.52	27.1	2.6	112.5	6.3	61	2.2	5.5	6.9	44	0.68	0.080
STD DS8	Standard	13.1	117.1	116.2	325	1.9	40.2	7.8	623	2.48	26.9	2.4	105.6	5.9	58	2.4	5.5	6.3	45	0.66	0.088
STD DS8	Standard	14.4	119.7	114.3	337	2.0	43.3	8.7	667	2.66	28.6	2.3	109.9	6.1	65	2.6	5.6	6.5	47	0.73	0.093
STD DS8	Standard	13.2	110.8	126.2	317	1.7	39.0	7.8	592	2.47	27.0	2.7	103.9	6.8	69	2.3	5.3	6.9	43	0.67	0.082
STD DS8	Standard	13.5	109.5	129.7	306	1.7	37.7	7.4	592	2.42	25.9	2.8	117.7	6.9	68	2.3	5.5	7.0	42	0.68	0.074
STD DS8	Standard	13.2	117.3	121.5	312	1.8	41.1	7.9	610	2.45	26.4	2.5	110.1	6.1	59	2.2	5.5	6.1	44	0.67	0.080
STD DS8	Standard	13.2	112.6	125.2	308	1.8	39.1	7.8	608	2.45	26.4	2.6	110.4	6.4	59	2.4	5.4	6.3	43	0.66	0.078

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Project: Bishop
Report Date: July 07, 2011

Page: 2 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000297.1

		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
109206	Soil	21	33	0.24	357	0.009	<1	1.39	0.003	0.13	<0.1	0.17	8.8	0.4	<0.05	4	1.6	0.4
REP 109206	QC	23	33	0.25	371	0.009	<1	1.43	0.002	0.14	<0.1	0.15	9.1	0.4	<0.05	4	1.3	0.4
109215	Soil	25	27	0.37	428	0.028	<1	1.88	0.008	0.11	<0.1	0.08	5.5	0.2	<0.05	6	0.7	<0.2
REP 109215	QC	25	28	0.37	444	0.029	<1	1.84	0.007	0.11	<0.1	0.08	5.5	0.2	<0.05	6	0.8	<0.2
110259	Soil	13	34	0.27	446	0.021	1	1.27	0.004	0.05	<0.1	0.05	3.5	0.1	<0.05	4	0.8	<0.2
REP 110259	QC	13	33	0.28	445	0.022	1	1.26	0.004	0.06	<0.1	0.04	3.4	0.1	<0.05	4	0.6	<0.2
110284	Soil	23	6	0.06	160	0.007	1	0.68	0.005	0.11	<0.1	0.02	3.5	0.4	0.08	1	<0.5	0.5
REP 110284	QC	22	6	0.06	157	0.002	<1	0.64	0.005	0.10	<0.1	0.03	3.5	0.5	0.07	1	<0.5	0.4
Reference Materials																		
STD DS8	Standard	16	122	0.63	292	0.123	2	0.95	0.095	0.44	3.1	0.22	2.3	5.4	0.20	5	5.6	5.0
STD DS8	Standard	16	122	0.63	298	0.123	3	0.95	0.095	0.45	3.1	0.21	2.2	5.3	0.15	5	5.6	4.9
STD DS8	Standard	13	126	0.63	294	0.119	2	0.91	0.082	0.42	3.1	0.23	1.9	5.8	0.16	5	6.0	5.1
STD DS8	Standard	14	130	0.65	291	0.127	3	0.96	0.090	0.44	3.2	0.24	2.1	5.6	0.15	5	5.8	5.1
STD DS8	Standard	14	121	0.64	296	0.115	3	0.91	0.089	0.45	3.1	0.19	1.9	5.4	0.16	5	5.3	4.9
STD DS8	Standard	15	124	0.64	291	0.114	3	0.93	0.090	0.45	3.1	0.21	2.0	5.3	0.16	5	5.3	4.8
STD DS8	Standard	14	127	0.62	270	0.118	2	0.90	0.077	0.40	3.1	0.20	2.0	5.5	0.15	5	5.8	5.0
STD DS8	Standard	14	127	0.60	276	0.121	2	0.90	0.081	0.39	3.1	0.23	2.0	5.6	0.14	5	6.0	4.9
STD DS8	Standard	13	119	0.61	263	0.112	3	0.87	0.078	0.41	3.2	0.19	2.0	5.3	0.21	4	4.9	4.7
STD DS8	Standard	13	124	0.61	272	0.115	3	0.88	0.079	0.40	3.2	0.21	2.1	5.4	0.19	5	5.2	5.4
STD DS8	Standard	13	129	0.61	280	0.123	4	0.94	0.087	0.43	3.0	0.19	2.1	5.4	0.09	4	5.8	5.6
STD DS8	Standard	14	131	0.62	309	0.128	3	0.96	0.092	0.44	3.0	0.20	2.2	5.8	0.09	5	5.3	5.3
STD DS8	Standard	14	124	0.59	278	0.119	2	0.86	0.085	0.41	3.2	0.20	2.0	5.5	0.15	5	5.2	5.8
STD DS8	Standard	14	123	0.61	280	0.119	2	0.90	0.086	0.41	3.2	0.19	2.0	5.4	0.16	5	5.3	5.4
STD DS8	Standard	13	121	0.63	277	0.111	2	0.89	0.086	0.43	3.0	0.21	2.0	5.2	0.18	5	5.5	5.3
STD DS8	Standard	15	124	0.69	283	0.123	2	1.01	0.094	0.46	3.2	0.20	2.3	5.3	0.24	5	5.7	5.2
STD DS8	Standard	14	118	0.58	276	0.118	3	0.92	0.087	0.42	2.9	0.21	2.0	5.3	0.17	5	4.7	4.7
STD DS8	Standard	15	119	0.58	287	0.119	2	0.90	0.088	0.41	2.9	0.21	2.2	5.2	0.17	5	4.5	4.9
STD DS8	Standard	13	121	0.63	271	0.112	3	0.90	0.084	0.42	2.9	0.19	2.1	5.1	0.13	5	5.5	4.5
STD DS8	Standard	13	119	0.61	275	0.110	1	0.88	0.081	0.40	3.0	0.19	2.1	5.3	0.12	4	5.5	5.2



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Project: Bishop
 Report Date: July 07, 2011

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QUALITY CONTROL REPORT

WHI11000297.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	13.5	107.7	136.5	324	1.8	37.4	7.3	642	2.54	27.1	3.0	118.4	7.4	73	2.3	6.0	7.0	46	0.73	0.081
STD DS8	Standard	13.6	103.0	138.8	315	1.8	37.1	7.5	627	2.48	25.7	3.1	110.7	7.5	73	2.2	6.1	7.2	45	0.72	0.082
STD DS8	Standard	13.2	108.7	121.1	307	1.7	36.0	7.4	604	2.41	25.3	2.8	102.3	6.7	66	2.4	5.7	6.4	42	0.68	0.079
STD DS8	Standard	13.4	115.1	118.7	305	1.7	37.2	7.4	590	2.28	27.9	2.7	98.1	6.7	69	2.6	6.1	6.3	41	0.66	0.083
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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Project: Bishop
 Report Date: July 07, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000297.1

		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
STD DS8	Standard	16	116	0.64	283	0.127	2	0.98	0.104	0.46	3.0	0.19	2.7	5.8	0.17	5	4.8	5.0
STD DS8	Standard	17	121	0.63	291	0.130	2	0.99	0.109	0.45	3.3	0.20	2.4	5.5	0.15	5	4.8	5.0
STD DS8	Standard	15	111	0.54	264	0.117	3	0.86	0.084	0.39	2.8	0.19	2.1	4.9	0.16	5	4.9	4.6
STD DS8	Standard	16	109	0.58	280	0.125	3	0.86	0.088	0.38	3.0	0.20	2.2	4.9	0.15	5	5.0	5.0
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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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 23, 2011
Report Date: July 06, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000298.1

CLIENT JOB INFORMATION

Project: Bishop
Shipment ID: 20110620102451
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.

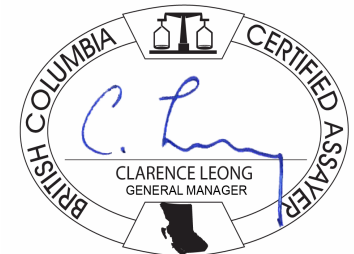
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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. ** 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: Bishop
 Report Date: July 06, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000298.1

Method	Analyte	Unit	MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
110298	Soil			1.2	31.5	47.0	80	0.2	26.0	9.7	267	2.79	32.0	0.8	8.8	5.0	27	0.3	1.7	0.3	52	0.34	0.043
110299	Soil			1.1	29.9	14.1	46	<0.1	26.6	8.8	341	2.60	12.0	1.8	5.0	7.7	23	<0.1	0.5	0.3	50	0.35	0.035
110300	Soil			1.5	30.7	45.4	58	<0.1	26.2	8.5	277	2.84	10.5	2.4	3.2	23.2	19	<0.1	0.6	0.5	48	0.23	0.012
110301	Soil			0.9	23.6	21.9	96	<0.1	23.7	11.7	884	4.21	8.0	3.4	1.8	60.0	20	0.1	0.3	0.2	51	0.44	0.082
110302	Soil			0.6	21.3	19.1	76	<0.1	19.0	9.2	418	3.51	9.3	2.4	2.3	37.7	19	<0.1	0.4	0.3	49	0.31	0.028
110303	Soil			0.9	34.3	31.4	100	<0.1	18.3	10.6	520	4.06	9.9	3.1	1.9	48.5	22	<0.1	0.3	2.6	50	0.50	0.079
110304	Soil			1.2	31.0	20.3	78	<0.1	42.2	17.5	812	3.74	16.9	2.5	2.8	20.3	25	0.1	0.7	0.8	63	0.62	0.068
110305	Soil			0.9	26.4	25.5	56	<0.1	22.7	7.7	220	2.65	15.3	3.0	4.7	18.5	19	<0.1	0.6	0.4	47	0.30	0.023
110306	Soil			1.0	22.6	25.2	42	<0.1	16.9	8.1	204	2.29	16.6	2.2	2.2	18.0	14	<0.1	0.7	0.4	44	0.14	0.012
110307	Soil			0.9	14.0	26.9	48	<0.1	11.2	6.3	245	1.91	17.0	2.2	4.4	16.6	11	0.1	0.7	0.3	32	0.18	0.038
110308	Soil			1.3	36.3	32.6	73	<0.1	54.7	15.9	512	3.62	23.6	3.0	2.7	24.3	20	<0.1	0.8	0.7	60	0.30	0.044
110309	Soil			0.9	31.4	21.9	58	<0.1	27.5	8.3	241	2.49	15.3	3.7	3.6	14.8	21	<0.1	0.6	0.4	44	0.34	0.046
111350	Soil			0.9	9.5	19.4	84	<0.1	16.9	6.5	283	2.85	10.9	1.2	0.5	18.6	8	0.1	0.3	1.3	39	0.10	0.065
111351	Soil			0.9	40.7	10.6	56	<0.1	44.1	17.8	593	5.27	9.4	2.8	0.7	21.6	12	<0.1	0.2	0.2	74	0.39	0.144
111352	Soil			0.4	32.6	19.4	89	<0.1	46.7	16.3	650	4.40	6.9	2.6	6.8	26.8	13	<0.1	<0.1	0.2	37	0.28	0.062
111353	Soil			0.6	3.4	12.4	18	<0.1	7.8	2.3	120	1.07	8.0	1.2	0.6	13.5	3	<0.1	0.2	<0.1	21	0.05	0.060
111354	Soil			0.2	1.4	3.4	5	<0.1	4.0	1.0	31	0.28	4.3	1.5	<0.5	17.1	2	<0.1	<0.1	<0.1	6	0.03	0.021
111355	Soil			0.4	20.0	17.1	109	<0.1	47.8	18.9	724	5.10	10.3	1.3	0.6	22.0	11	<0.1	0.2	0.2	59	0.23	0.052
111356	Soil			0.6	12.2	4.9	37	<0.1	29.7	12.4	357	2.88	7.5	1.6	1.6	13.0	10	<0.1	0.1	<0.1	67	0.19	0.032
111357	Soil			0.5	38.9	13.7	93	<0.1	41.1	14.2	862	5.30	7.5	3.0	8.3	25.4	14	<0.1	0.1	0.2	59	0.26	0.052
111358	Soil			0.8	30.6	69.6	175	<0.1	29.1	14.8	697	4.21	8.6	2.1	2.4	8.3	10	<0.1	0.3	0.3	57	0.21	0.060
111359	Soil			0.8	30.5	20.4	54	<0.1	25.6	8.4	240	2.68	13.7	1.3	4.9	9.7	16	<0.1	0.5	0.4	52	0.20	0.021
111360	Soil			1.2	39.2	13.5	69	<0.1	34.8	12.2	534	3.54	13.5	1.8	4.1	14.2	22	<0.1	0.7	0.2	66	0.31	0.018
111361	Soil			1.4	43.1	40.4	78	<0.1	46.6	18.6	550	4.24	9.5	2.0	4.9	14.2	32	<0.1	0.3	0.3	85	0.54	0.027
111362	Soil			0.8	51.1	10.7	104	<0.1	39.8	16.9	607	4.77	8.5	2.9	1.3	22.3	22	<0.1	0.2	0.4	85	0.37	0.061
111363	Soil			1.6	62.6	13.8	130	<0.1	67.4	16.7	234	5.35	9.5	2.3	3.0	17.7	10	<0.1	0.1	0.3	99	0.31	0.141
111364	Soil			2.4	31.6	69.1	104	<0.1	20.5	9.2	514	4.38	9.1	1.1	1.0	10.8	10	<0.1	0.3	0.2	70	0.09	0.023
111365	Soil			1.5	39.6	12.4	94	<0.1	57.1	12.9	265	4.36	8.3	2.7	6.0	16.7	13	<0.1	0.2	0.2	94	0.29	0.087
111366	Soil			0.7	13.2	21.9	77	0.1	40.3	13.1	584	4.42	9.1	1.8	<0.5	18.9	16	<0.1	0.2	0.2	91	0.25	0.059
111367	Soil			1.0	29.8	13.5	99	0.1	47.9	12.1	394	3.99	8.4	2.5	1.0	19.3	12	<0.1	0.1	0.2	86	0.19	0.072

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Project: Bishop
 Report Date: July 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11000298.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
110298	Soil	14	31	0.43	312	0.053	<1	1.49	0.011	0.05	0.1	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
110299	Soil	22	35	0.43	327	0.046	<1	1.53	0.011	0.05	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
110300	Soil	36	38	0.44	251	0.056	<1	1.67	0.009	0.13	<0.1	0.04	5.5	0.2	<0.05	6	<0.5	<0.2
110301	Soil	77	44	0.97	324	0.107	<1	2.69	0.010	0.75	0.1	0.03	6.9	0.9	<0.05	13	<0.5	<0.2
110302	Soil	95	40	0.78	262	0.093	<1	2.22	0.009	0.45	0.1	0.04	6.3	0.7	<0.05	11	<0.5	<0.2
110303	Soil	119	43	0.82	245	0.076	<1	2.10	0.010	0.41	0.3	0.04	5.1	0.6	<0.05	12	<0.5	<0.2
110304	Soil	51	68	0.95	274	0.059	<1	2.21	0.010	0.12	0.1	0.08	5.3	0.2	<0.05	8	<0.5	<0.2
110305	Soil	32	31	0.39	228	0.055	<1	1.70	0.007	0.12	<0.1	0.05	5.3	0.2	<0.05	6	<0.5	<0.2
110306	Soil	23	24	0.27	170	0.060	<1	1.29	0.007	0.13	<0.1	0.04	4.3	0.2	<0.05	4	<0.5	<0.2
110307	Soil	23	18	0.29	141	0.055	<1	0.85	0.006	0.17	0.1	0.02	2.4	0.2	<0.05	4	<0.5	<0.2
110308	Soil	49	67	0.71	316	0.075	<1	2.00	0.006	0.26	<0.1	0.03	7.6	0.3	<0.05	7	<0.5	<0.2
110309	Soil	36	39	0.47	299	0.059	<1	1.55	0.008	0.11	0.1	0.07	4.9	0.2	<0.05	5	<0.5	<0.2
111350	Soil	25	26	0.44	110	0.097	<1	1.93	0.007	0.35	0.2	0.01	3.1	0.5	<0.05	7	<0.5	<0.2
111351	Soil	59	67	1.27	500	0.359	<1	2.86	0.009	1.50	0.1	0.01	7.8	0.7	<0.05	11	<0.5	<0.2
111352	Soil	81	39	1.11	338	0.239	<1	2.75	0.009	1.09	<0.1	0.01	5.1	1.0	<0.05	9	<0.5	<0.2
111353	Soil	7	11	0.14	46	0.014	<1	1.05	0.005	0.02	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
111354	Soil	3	5	0.04	27	0.005	<1	0.43	0.007	<0.01	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
111355	Soil	54	66	1.28	179	0.352	<1	3.05	0.007	1.28	0.1	<0.01	6.5	1.4	<0.05	12	<0.5	<0.2
111356	Soil	30	59	1.08	491	0.147	<1	2.00	0.010	0.63	<0.1	0.01	9.4	0.4	<0.05	11	<0.5	<0.2
111357	Soil	52	65	1.27	130	0.340	<1	2.96	0.011	1.29	<0.1	0.01	6.2	1.1	<0.05	12	<0.5	<0.2
111358	Soil	46	62	1.07	193	0.368	<1	2.64	0.009	1.11	0.1	0.01	5.3	0.9	<0.05	10	<0.5	<0.2
111359	Soil	25	35	0.52	239	0.063	<1	1.75	0.008	0.07	0.1	0.04	4.8	0.2	<0.05	5	<0.5	<0.2
111360	Soil	31	56	0.75	316	0.162	1	2.35	0.015	0.36	<0.1	0.04	7.1	0.4	<0.05	8	<0.5	<0.2
111361	Soil	38	93	0.95	227	0.047	<1	3.04	0.013	0.14	<0.1	0.03	8.8	0.3	<0.05	11	<0.5	<0.2
111362	Soil	46	71	1.08	237	0.177	<1	3.51	0.015	0.69	0.2	<0.01	8.4	0.7	<0.05	14	<0.5	<0.2
111363	Soil	12	62	1.02	214	0.201	<1	3.11	0.008	1.10	<0.1	<0.01	3.9	0.8	<0.05	9	<0.5	<0.2
111364	Soil	7	32	0.81	196	0.215	<1	2.61	0.010	0.63	0.3	<0.01	7.5	0.5	<0.05	13	<0.5	<0.2
111365	Soil	58	61	1.06	595	0.102	<1	2.33	0.011	0.36	<0.1	0.02	5.9	0.3	<0.05	10	<0.5	<0.2
111366	Soil	46	72	1.71	423	0.317	<1	3.37	0.013	1.43	0.1	<0.01	10.0	0.7	<0.05	15	<0.5	<0.2
111367	Soil	43	58	1.02	304	0.089	<1	2.28	0.008	0.53	<0.1	0.01	5.6	0.3	<0.05	10	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
111368	Soil	0.9	59.0	18.0	103	<0.1	66.2	27.4	359	5.02	9.1	1.2	2.4	10.7	10	<0.1	0.2	0.4	61	0.19	0.019
111369	Soil	1.7	51.4	17.1	103	0.1	51.5	13.7	336	4.13	17.5	1.3	10.1	11.3	14	<0.1	0.4	0.2	80	0.30	0.044
111370	Soil	1.5	71.5	21.1	119	<0.1	72.7	26.6	594	5.14	10.6	1.3	4.7	8.6	13	<0.1	0.3	0.4	67	0.23	0.056
111371	Soil	1.5	53.7	12.9	70	0.6	41.2	10.3	280	2.92	17.6	0.9	5.2	5.9	19	<0.1	0.7	0.2	62	0.27	0.027
111372	Soil	2.3	69.6	26.3	96	0.5	44.3	11.3	339	3.00	24.0	1.0	4.8	7.5	26	0.1	0.8	0.2	47	0.11	0.037
111373	Soil	1.2	38.5	9.4	57	0.4	27.0	8.3	314	2.12	3.9	0.8	7.3	2.9	155	0.3	<0.1	0.1	32	7.02	0.054
111374	Soil	1.7	47.1	23.9	81	0.3	33.5	11.1	477	3.09	11.2	2.2	6.6	6.0	32	<0.1	0.9	0.3	53	0.39	0.026
111375	Soil	1.5	39.2	14.5	89	0.3	32.5	11.9	539	3.04	9.2	0.8	3.9	4.4	57	0.2	0.7	0.2	47	1.60	0.041
111376	Soil	1.4	38.8	17.1	92	0.2	32.4	11.9	522	2.88	7.6	1.4	3.3	5.7	41	0.2	0.6	0.2	42	0.96	0.056
111377	Soil	1.8	41.4	20.1	109	0.2	39.0	14.3	1328	3.45	9.0	2.7	4.5	7.1	43	0.2	0.5	0.2	59	0.60	0.033
111378	Soil	0.7	15.0	53.7	34	0.2	13.6	4.2	116	1.81	20.7	0.8	4.2	9.2	17	<0.1	1.7	0.4	35	0.16	0.011
111379	Soil	1.3	22.2	31.3	55	0.6	23.9	11.4	493	2.78	20.8	0.7	5.6	9.4	16	<0.1	1.4	0.4	59	0.14	0.017
111380	Soil	1.1	20.8	68.8	40	0.7	21.7	6.9	136	2.43	20.5	0.7	6.1	9.4	8	<0.1	1.6	0.3	45	0.06	0.015
111381	Soil	1.1	16.3	15.1	47	0.2	21.5	7.4	276	2.42	12.0	0.5	3.6	4.8	14	0.1	0.7	0.2	46	0.16	0.020
111382	Soil	3.8	46.9	64.8	152	0.4	21.3	11.0	548	6.42	13.5	1.9	21.0	9.8	60	0.4	0.5	0.2	122	0.49	0.089
111383	Soil	5.0	55.6	56.1	240	0.5	16.3	10.0	484	9.22	10.2	1.8	28.3	9.8	123	1.0	0.8	0.2	106	0.21	0.125
111384	Soil	4.3	45.7	65.1	469	0.2	31.9	24.0	934	9.04	10.4	4.3	26.5	15.0	93	1.2	0.9	0.2	117	0.66	0.236
111385	Soil	3.3	30.4	38.5	101	0.3	15.8	7.3	292	3.47	31.3	3.1	41.2	8.9	54	0.2	3.4	0.3	65	0.35	0.096
111386	Soil	2.3	36.0	24.6	81	0.4	22.3	7.3	266	2.74	35.9	2.4	33.1	5.7	40	0.2	2.9	0.3	50	0.39	0.069
111387	Soil	2.1	30.5	20.8	74	0.3	21.0	6.7	261	2.77	22.3	1.5	27.7	6.3	34	0.2	1.6	0.3	52	0.39	0.081
111388	Soil	1.8	23.9	23.6	64	0.2	18.2	7.8	242	2.53	40.4	1.5	21.9	5.8	27	0.2	2.5	0.3	47	0.28	0.057
111389	Soil	1.7	29.8	20.1	72	0.2	22.3	7.3	256	2.76	46.5	1.7	15.2	6.8	32	0.2	2.4	0.4	53	0.38	0.056
111390	Soil	1.5	28.7	24.6	69	0.2	21.5	7.2	247	2.71	46.3	1.7	14.3	6.8	31	0.2	2.4	0.5	50	0.39	0.053
111391	Soil	1.4	24.6	16.1	61	0.2	19.8	7.1	227	2.62	29.9	1.5	11.4	5.9	26	0.1	1.6	0.3	50	0.32	0.047
111392	Soil	1.6	25.6	25.5	69	0.2	22.8	8.4	301	2.70	35.5	1.7	14.8	7.0	32	0.2	1.6	0.5	51	0.39	0.054
111393	Soil	1.6	21.4	25.3	87	0.1	20.1	8.6	217	3.07	38.8	1.1	9.3	10.9	21	0.2	1.5	1.0	48	0.25	0.038
111394	Soil	1.2	25.6	22.7	66	0.1	20.6	7.0	239	2.64	28.3	1.3	23.7	7.5	29	<0.1	1.3	0.5	53	0.39	0.056
111395	Soil	0.6	24.7	14.7	73	<0.1	13.2	6.6	268	2.88	17.6	2.7	3.8	20.2	22	0.2	0.6	1.3	44	0.42	0.094
111396	Soil	1.2	24.8	26.3	69	0.2	18.7	8.2	344	2.53	23.2	1.8	9.0	7.8	31	0.2	1.3	0.7	47	0.43	0.054
111397	Soil	5.5	16.5	51.4	154	0.4	12.9	4.5	143	3.30	18.6	1.4	22.6	12.9	24	<0.1	1.1	0.2	28	0.09	0.026

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Project: Bishop
 Report Date: July 06, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
111368	Soil	34	61	1.37	190	0.331	1	3.02	0.015	1.32	<0.1	0.02	5.9	0.8	<0.05	11	<0.5	<0.2
111369	Soil	45	58	0.79	246	0.174	<1	2.03	0.014	0.64	0.1	0.03	5.8	0.5	<0.05	7	<0.5	<0.2
111370	Soil	26	59	1.18	347	0.208	<1	2.43	0.015	1.18	0.1	0.02	7.7	0.7	<0.05	9	<0.5	<0.2
111371	Soil	17	42	0.52	228	0.070	<1	1.62	0.009	0.09	0.2	0.04	5.0	0.1	<0.05	5	0.7	<0.2
111372	Soil	22	35	0.43	201	0.065	<1	1.32	0.006	0.17	0.1	0.04	4.9	0.2	<0.05	4	0.7	<0.2
111373	Soil	12	22	0.81	579	0.056	2	1.02	0.023	0.09	0.3	0.06	2.8	<0.1	<0.05	3	<0.5	<0.2
111374	Soil	19	30	0.59	528	0.069	<1	1.60	0.018	0.08	0.2	0.06	4.5	0.1	<0.05	5	<0.5	<0.2
111375	Soil	16	27	0.63	503	0.072	1	1.37	0.018	0.11	0.2	0.06	3.4	0.1	0.07	5	<0.5	<0.2
111376	Soil	18	25	0.69	445	0.072	<1	1.33	0.016	0.16	0.2	0.04	3.6	0.1	0.07	4	<0.5	<0.2
111377	Soil	23	37	0.77	461	0.103	<1	1.98	0.017	0.23	0.2	0.04	5.5	0.2	0.09	6	0.5	<0.2
111378	Soil	19	20	0.32	181	0.047	<1	0.98	0.008	0.05	0.1	0.14	2.3	0.1	0.07	3	<0.5	<0.2
111379	Soil	13	33	0.44	284	0.044	<1	1.95	0.009	0.07	0.2	0.11	2.9	0.2	<0.05	6	<0.5	<0.2
111380	Soil	14	28	0.36	162	0.028	<1	1.93	0.006	0.10	0.2	0.07	2.3	0.2	<0.05	5	<0.5	<0.2
111381	Soil	11	27	0.41	214	0.028	<1	1.74	0.007	0.07	0.1	0.03	2.2	0.2	<0.05	5	<0.5	<0.2
111382	Soil	25	35	1.03	475	0.147	<1	3.55	0.021	0.14	0.2	0.01	8.7	0.2	<0.05	12	1.3	<0.2
111383	Soil	31	29	0.40	289	0.029	<1	3.70	0.051	0.10	<0.1	0.03	7.6	0.3	0.25	12	1.1	<0.2
111384	Soil	43	18	0.69	603	0.241	<1	2.72	0.013	0.51	<0.1	0.06	10.6	1.7	0.08	11	0.9	<0.2
111385	Soil	31	24	0.49	350	0.103	<1	1.72	0.011	0.12	0.2	0.21	6.8	0.8	0.06	6	0.6	<0.2
111386	Soil	22	25	0.44	339	0.051	<1	1.57	0.011	0.07	0.2	0.23	5.2	0.4	0.07	5	<0.5	<0.2
111387	Soil	22	25	0.42	344	0.067	<1	1.37	0.013	0.07	0.2	0.12	4.8	0.2	0.05	5	<0.5	<0.2
111388	Soil	20	25	0.41	264	0.057	<1	1.52	0.011	0.06	0.2	0.11	3.8	0.3	0.07	5	<0.5	<0.2
111389	Soil	24	30	0.46	354	0.062	<1	1.67	0.012	0.07	0.1	0.13	5.6	0.3	0.07	5	<0.5	<0.2
111390	Soil	23	29	0.44	345	0.063	<1	1.61	0.011	0.07	0.2	0.12	5.4	0.3	0.07	5	<0.5	<0.2
111391	Soil	19	29	0.47	318	0.059	<1	1.74	0.011	0.06	0.2	0.09	4.6	0.1	<0.05	5	<0.5	<0.2
111392	Soil	23	33	0.45	312	0.071	<1	1.77	0.012	0.07	0.2	0.07	4.8	0.2	<0.05	6	<0.5	<0.2
111393	Soil	22	37	0.51	236	0.063	<1	2.15	0.010	0.12	0.1	0.03	3.8	0.3	<0.05	8	<0.5	<0.2
111394	Soil	21	32	0.46	283	0.076	<1	1.67	0.013	0.07	0.2	0.06	4.8	0.1	<0.05	5	<0.5	<0.2
111395	Soil	28	33	0.59	214	0.101	<1	1.60	0.011	0.32	0.1	0.02	4.5	0.3	<0.05	9	<0.5	<0.2
111396	Soil	27	29	0.45	328	0.053	<1	1.62	0.012	0.07	0.2	0.07	4.2	0.2	<0.05	6	<0.5	<0.2
111397	Soil	18	18	0.24	163	0.017	<1	1.20	0.014	0.20	0.3	0.02	1.8	0.4	0.28	3	0.7	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
111398	Soil	4.4	25.0	83.6	112	0.5	7.5	3.9	240	4.95	45.3	1.6	15.1	11.7	81	0.2	1.0	0.6	38	0.09	0.080
111399	Soil	5.0	45.4	63.6	367	0.4	22.3	18.2	611	7.34	25.2	2.0	15.1	11.4	33	0.9	0.6	0.3	126	0.30	0.120
111400	Soil	14.4	75.9	51.0	168	0.4	19.2	11.3	483	5.86	50.4	1.6	42.0	8.8	47	0.5	0.6	0.4	92	0.36	0.073
111401	Soil	5.0	63.8	23.8	222	0.5	22.4	13.1	415	4.76	24.2	2.2	62.4	8.1	68	0.7	0.9	0.4	61	0.40	0.098
111402	Soil	3.5	28.9	36.4	88	0.6	20.3	7.7	292	2.87	23.0	2.0	29.1	5.8	31	0.2	0.9	0.5	45	0.37	0.068
111403	Soil	3.0	33.9	73.0	202	0.8	15.5	7.4	187	3.66	155.9	2.1	11.9	9.7	37	0.3	1.7	2.1	49	0.20	0.060
111404	Soil	2.2	32.6	64.7	142	0.2	20.1	8.3	824	3.13	39.9	2.8	8.4	15.3	21	0.5	1.5	0.7	41	0.21	0.029
111405	Soil	1.3	16.8	80.2	166	0.1	18.1	12.2	675	3.17	35.6	1.4	2.4	27.5	13	0.3	0.6	20.8	43	0.26	0.096
111406	Soil	1.7	30.5	59.8	179	<0.1	19.2	16.8	900	4.65	19.5	2.2	1.2	37.3	14	0.3	0.4	0.7	42	0.28	0.100
111407	Soil	1.2	13.5	35.9	78	<0.1	14.4	5.4	465	2.50	11.7	2.1	4.1	35.3	13	0.1	0.5	0.8	26	0.18	0.043
111408	Soil	2.0	13.8	29.4	103	<0.1	16.1	7.3	795	3.38	9.1	4.6	2.8	38.7	24	<0.1	0.5	0.3	30	0.36	0.045
111409	Soil	1.1	19.6	17.6	100	<0.1	15.9	8.1	619	3.76	18.1	5.4	3.2	45.3	26	<0.1	0.4	1.3	40	0.40	0.074
111410	Soil	1.6	16.9	18.6	57	<0.1	15.6	6.6	298	3.45	17.3	1.0	3.1	7.3	29	<0.1	0.7	0.5	76	0.20	0.033
111411	Soil	1.9	22.2	23.9	83	<0.1	18.6	10.6	851	5.21	34.2	2.8	1.8	13.1	75	<0.1	0.5	1.2	121	0.46	0.058
111412	Soil	1.5	30.4	18.6	57	<0.1	21.2	7.3	320	2.88	12.5	3.7	4.6	27.5	28	<0.1	0.6	0.4	48	0.23	0.015
111413	Soil	1.1	22.1	12.8	49	<0.1	21.5	8.2	281	2.75	8.6	1.4	3.0	20.7	14	<0.1	0.5	0.2	50	0.15	0.020
111414	Soil	0.8	16.5	12.4	40	<0.1	14.0	5.5	259	2.06	5.9	2.0	2.0	22.0	16	<0.1	0.5	0.4	36	0.19	0.027
111415	Soil	1.3	37.2	25.0	53	0.1	29.2	8.7	294	3.07	11.2	3.1	3.9	16.2	30	<0.1	0.7	0.4	62	0.36	0.032
111416	Soil	1.2	30.5	14.8	51	<0.1	26.1	10.5	384	2.83	10.0	2.2	3.1	11.7	31	<0.1	0.6	0.3	58	0.41	0.036
111417	Soil	1.0	33.2	12.0	55	<0.1	26.1	9.8	316	2.96	11.5	1.3	4.0	10.0	31	<0.1	0.6	0.3	61	0.42	0.030
111418	Soil	1.1	32.4	20.4	64	<0.1	24.2	7.8	398	2.97	9.3	4.5	3.1	24.9	40	<0.1	0.4	0.5	47	0.54	0.041
111419	Soil	0.6	19.7	24.0	76	<0.1	18.8	8.5	577	3.35	7.2	3.0	2.0	44.6	33	<0.1	0.3	2.0	43	0.58	0.057
111420	Soil	0.7	13.9	13.2	69	<0.1	15.8	7.4	463	3.10	7.6	3.3	1.4	47.3	25	<0.1	0.4	0.2	40	0.37	0.029
111421	Soil	1.0	19.3	18.1	83	<0.1	20.9	14.1	560	4.02	9.8	2.5	2.6	35.7	22	<0.1	0.4	0.2	60	0.29	0.031
111422	Soil	0.9	9.3	21.9	58	<0.1	12.7	6.6	427	2.27	11.8	3.1	1.4	33.4	28	<0.1	0.6	<0.1	25	0.56	0.069
111423	Soil	0.6	13.3	28.4	94	<0.1	18.1	16.4	623	4.17	8.9	1.8	1.4	36.4	23	<0.1	0.3	0.1	52	0.37	0.057
111424	Soil	0.5	11.3	18.9	70	<0.1	12.8	8.6	521	3.61	6.5	5.6	2.0	63.0	27	<0.1	0.2	1.1	45	0.55	0.088
111425	Soil	0.6	9.5	9.3	78	<0.1	14.3	13.5	585	3.80	7.2	1.5	2.1	22.5	18	<0.1	0.2	0.2	57	0.32	0.070
115380	Soil	1.0	30.9	14.5	93	<0.1	41.7	17.2	501	5.79	22.2	1.4	1.6	12.2	15	<0.1	0.8	0.3	88	0.17	0.047
115381	Soil	0.5	22.2	6.7	54	<0.1	34.4	13.7	519	4.95	6.9	1.1	1.3	18.9	9	<0.1	0.2	0.2	56	0.11	0.020

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
111398	Soil	22	14	0.20	342	0.016	<1	1.34	0.062	0.34	0.5	0.02	3.1	0.9	0.66	5	1.2	<0.2
111399	Soil	18	33	0.82	444	0.136	<1	4.24	0.016	0.15	0.1	0.02	9.2	0.3	0.06	13	1.6	<0.2
111400	Soil	17	29	0.61	384	0.072	<1	3.51	0.012	0.10	0.2	0.02	6.9	0.2	0.06	10	0.7	<0.2
111401	Soil	33	25	0.51	356	0.044	<1	1.77	0.043	0.16	0.1	0.04	6.8	0.4	0.26	6	0.8	<0.2
111402	Soil	20	25	0.42	294	0.037	<1	1.57	0.011	0.08	0.2	0.11	4.1	0.2	<0.05	5	0.5	<0.2
111403	Soil	42	19	0.34	293	0.033	<1	1.26	0.021	0.13	0.1	0.03	4.5	0.4	0.23	4	0.7	0.2
111404	Soil	46	27	0.38	226	0.028	<1	1.61	0.007	0.09	<0.1	0.04	5.6	0.3	<0.05	5	<0.5	<0.2
111405	Soil	47	43	0.76	135	0.016	<1	2.45	0.011	0.08	<0.1	0.01	4.1	0.2	<0.05	12	<0.5	<0.2
111406	Soil	37	47	0.97	195	0.041	<1	2.74	0.007	0.13	<0.1	<0.01	4.9	0.2	<0.05	14	<0.5	<0.2
111407	Soil	65	17	0.27	149	0.020	<1	1.18	0.007	0.09	0.1	0.01	3.1	0.1	<0.05	3	<0.5	<0.2
111408	Soil	88	22	0.35	313	0.005	1	1.98	0.007	0.16	<0.1	0.08	4.2	0.2	0.12	8	<0.5	<0.2
111409	Soil	98	28	0.60	287	0.033	1	2.33	0.011	0.42	0.1	0.03	6.0	0.5	0.07	12	<0.5	<0.2
111410	Soil	17	28	0.53	220	0.035	<1	2.20	0.009	0.04	0.1	0.02	3.6	0.1	0.06	8	0.5	<0.2
111411	Soil	57	38	0.82	413	0.081	<1	3.24	0.021	0.05	0.1	0.03	9.3	0.1	<0.05	12	0.6	<0.2
111412	Soil	36	28	0.38	257	0.047	1	1.75	0.011	0.07	0.1	0.07	6.4	0.1	<0.05	6	<0.5	<0.2
111413	Soil	48	31	0.50	192	0.051	1	1.98	0.008	0.07	0.2	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
111414	Soil	49	20	0.37	163	0.056	<1	1.10	0.009	0.09	0.1	0.02	2.6	0.1	<0.05	4	<0.5	<0.2
111415	Soil	32	40	0.50	405	0.067	1	2.13	0.013	0.08	0.1	0.06	5.6	0.1	<0.05	7	<0.5	<0.2
111416	Soil	29	33	0.46	389	0.074	<1	1.87	0.016	0.06	0.1	0.04	4.7	0.1	<0.05	6	<0.5	<0.2
111417	Soil	24	35	0.51	396	0.079	<1	2.02	0.017	0.06	0.1	0.04	5.3	<0.1	<0.05	6	<0.5	<0.2
111418	Soil	46	40	0.52	384	0.015	<1	2.56	0.008	0.16	<0.1	0.04	5.9	0.2	<0.05	10	<0.5	<0.2
111419	Soil	71	31	0.64	333	0.022	<1	2.66	0.009	0.34	<0.1	0.04	5.3	0.4	0.09	13	<0.5	<0.2
111420	Soil	73	30	0.54	296	0.026	<1	2.28	0.009	0.28	<0.1	0.06	5.0	0.3	0.09	11	<0.5	<0.2
111421	Soil	48	45	0.72	315	0.076	1	2.64	0.010	0.36	<0.1	0.04	5.9	0.4	0.11	12	<0.5	<0.2
111422	Soil	89	21	0.43	254	0.004	<1	1.92	0.006	0.22	<0.1	0.12	3.3	0.3	0.11	8	<0.5	<0.2
111423	Soil	35	44	0.90	240	0.059	<1	2.84	0.009	0.22	<0.1	0.03	4.6	0.3	0.09	14	<0.5	<0.2
111424	Soil	204	30	0.71	141	0.038	<1	2.45	0.007	0.24	0.1	0.08	5.7	0.3	0.10	13	<0.5	<0.2
111425	Soil	32	41	0.81	214	0.095	<1	2.62	0.010	0.47	<0.1	0.02	4.5	0.6	0.12	12	<0.5	<0.2
115380	Soil	23	70	1.11	190	0.300	<1	3.83	0.009	1.01	0.2	0.01	7.1	0.9	0.14	14	<0.5	<0.2
115381	Soil	44	62	1.18	113	0.352	<1	3.53	0.008	1.29	0.1	<0.01	5.6	1.2	0.15	12	<0.5	<0.2

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Project: Bishop
 Report Date: July 06, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
115382	Soil	0.4	27.8	16.1	68	<0.1	33.5	13.0	541	4.37	9.2	2.3	5.3	16.9	21	<0.1	0.3	0.2	58	0.36	0.021
115383	Soil	1.0	17.0	10.5	50	0.1	24.9	11.0	460	3.21	11.8	0.6	4.2	7.0	13	<0.1	0.5	0.2	58	0.13	0.026
115384	Soil	0.7	32.8	11.4	88	<0.1	50.0	18.2	1314	6.24	10.4	0.8	<0.5	4.6	9	<0.1	0.3	0.2	75	0.14	0.042
115385	Soil	1.9	18.6	16.3	84	0.1	20.3	9.5	292	3.70	13.9	3.6	1.9	18.3	8	0.2	0.6	0.3	63	0.08	0.040
115386	Soil	0.4	39.0	9.6	75	<0.1	29.4	14.8	678	5.14	8.5	2.7	2.3	26.7	14	<0.1	0.3	0.2	50	0.19	0.019
115387	Soil	0.7	27.9	13.8	83	<0.1	31.4	12.2	572	4.72	7.4	2.8	1.2	27.0	16	<0.1	0.2	0.2	55	0.23	0.026
115388	Soil	0.6	45.2	11.6	85	<0.1	36.6	17.7	358	6.00	10.2	1.8	5.2	7.8	21	<0.1	0.3	0.2	79	0.18	0.024
115389	Soil	0.5	32.5	13.2	64	<0.1	30.1	14.6	478	3.84	8.4	2.1	4.2	14.2	14	<0.1	0.3	0.2	52	0.19	0.026
115390	Soil	0.7	25.0	13.0	52	<0.1	27.8	13.0	486	4.15	8.7	1.7	2.4	12.5	14	<0.1	0.3	0.3	59	0.17	0.024
115391	Soil	0.6	55.8	12.5	70	0.1	54.6	15.9	599	4.14	13.3	4.1	8.3	7.5	25	<0.1	0.8	0.2	71	0.33	0.038
115392	Soil	1.4	46.5	29.0	123	<0.1	28.4	12.8	533	3.98	14.9	2.3	5.1	14.9	13	0.1	0.4	0.4	57	0.14	0.031
115393	Soil	2.0	34.0	8.2	36	<0.1	18.1	6.3	314	3.09	19.7	1.3	4.8	8.5	15	<0.1	0.4	0.2	53	0.14	0.022
115394	Soil	0.6	24.1	9.7	88	<0.1	37.1	17.0	453	5.07	8.0	1.1	<0.5	14.4	12	<0.1	0.2	0.2	67	0.16	0.022
115395	Soil	0.6	36.3	12.0	83	<0.1	35.9	15.3	390	5.21	10.1	1.7	2.5	16.6	14	<0.1	0.3	0.3	60	0.21	0.035
115396	Soil	3.6	118.1	7.7	145	<0.1	65.0	13.1	748	4.93	13.4	2.1	1.6	9.1	16	0.2	0.3	0.2	129	0.13	0.061
115397	Soil	2.1	51.8	6.7	151	0.1	132.6	13.4	468	4.31	5.2	1.5	5.8	5.2	29	0.3	0.3	<0.1	131	0.40	0.060
115398	Soil	1.6	46.5	8.2	72	0.1	33.5	10.0	296	3.61	4.6	1.3	5.7	8.6	9	<0.1	0.3	0.2	63	0.10	0.037
115399	Soil	1.1	59.4	2.9	100	<0.1	81.1	24.4	422	5.64	2.7	0.8	3.8	3.5	27	<0.1	<0.1	<0.1	139	0.72	0.176
115400	Soil	1.0	63.0	4.5	68	<0.1	46.2	16.8	246	3.86	4.7	0.6	2.7	2.7	32	0.1	0.2	<0.1	113	0.37	0.052
115401	Soil	1.6	50.6	8.5	95	<0.1	64.6	12.6	403	3.79	7.3	1.0	3.1	4.0	17	<0.1	0.4	0.1	97	0.27	0.049
115402	Soil	1.3	44.0	9.9	67	0.3	39.0	13.5	294	3.16	6.5	1.9	4.9	5.5	18	0.2	0.4	0.1	72	0.26	0.042
115403	Soil	2.4	25.0	68.5	72	0.5	8.1	5.3	123	3.08	15.9	1.6	3.8	16.6	45	0.1	2.4	0.8	31	0.10	0.052
115404	Soil	0.5	12.1	41.2	26	0.2	9.8	4.1	94	1.43	16.8	0.8	2.7	8.1	14	<0.1	1.7	0.3	25	0.13	0.006
115405	Soil	0.8	12.4	38.6	32	0.8	12.6	5.0	134	2.08	44.7	0.6	3.4	5.2	15	<0.1	2.0	0.7	35	0.14	0.014
115406	Soil	0.6	11.9	134.1	24	0.3	8.9	5.2	119	1.65	60.6	1.3	5.4	14.0	13	<0.1	3.0	1.3	22	0.11	0.014
115407	Soil	0.5	17.3	80.9	21	0.1	9.1	6.8	130	1.72	88.1	1.7	2.8	20.0	13	<0.1	2.4	2.2	19	0.13	0.018
115408	Soil	1.0	6.6	130.0	19	0.1	2.5	1.8	139	1.25	36.1	1.9	2.0	10.6	8	<0.1	1.7	2.3	6	0.03	0.023
115409	Soil	2.2	28.2	41.9	29	0.1	8.2	2.8	68	1.42	11.2	3.8	2.9	13.9	18	<0.1	0.7	0.9	16	0.15	0.013
115410	Soil	0.9	30.4	34.2	79	0.2	17.0	5.5	174	2.51	10.1	1.5	6.1	8.4	17	0.1	0.6	0.6	36	0.21	0.024
115411	Soil	1.1	13.5	23.8	42	0.1	11.9	4.5	135	2.01	12.4	0.8	2.3	5.3	12	0.1	0.6	0.5	36	0.17	0.019

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
115382	Soil	48	59	1.04	213	0.207	<1	2.81	0.008	0.63	0.1	0.02	6.5	0.8	0.15	12	<0.5	<0.2
115383	Soil	15	38	0.54	207	0.124	1	2.08	0.009	0.29	0.1	0.02	2.8	0.3	0.10	7	<0.5	<0.2
115384	Soil	12	71	1.29	241	0.388	2	3.76	0.011	1.62	<0.1	0.02	5.3	1.2	0.09	13	0.5	<0.2
115385	Soil	23	30	0.40	160	0.099	1	2.37	0.008	0.20	0.1	0.02	3.4	0.4	0.11	9	<0.5	<0.2
115386	Soil	54	60	1.15	194	0.352	<1	3.25	0.009	1.37	<0.1	<0.01	6.8	1.2	0.09	11	<0.5	<0.2
115387	Soil	82	57	1.09	207	0.260	<1	2.98	0.009	0.81	0.1	<0.01	5.2	0.9	0.10	12	<0.5	<0.2
115388	Soil	38	78	1.51	362	0.365	<1	3.78	0.012	1.09	<0.1	<0.01	9.1	1.8	0.09	16	<0.5	<0.2
115389	Soil	38	45	0.86	223	0.218	<1	2.46	0.012	0.60	<0.1	0.02	4.7	0.6	0.07	8	<0.5	<0.2
115390	Soil	38	50	1.02	231	0.262	<1	2.99	0.009	0.71	0.2	<0.01	5.4	1.0	0.06	11	<0.5	<0.2
115391	Soil	28	48	0.68	448	0.114	1	2.48	0.022	0.18	0.1	0.04	7.2	0.2	0.07	7	<0.5	<0.2
115392	Soil	50	41	0.68	267	0.131	<1	2.06	0.010	0.45	0.1	<0.01	4.2	0.5	0.05	7	<0.5	<0.2
115393	Soil	26	26	0.39	143	0.067	<1	1.57	0.008	0.11	0.1	<0.01	5.2	0.3	<0.05	6	<0.5	<0.2
115394	Soil	40	68	1.29	221	0.373	<1	3.53	0.010	1.28	0.2	<0.01	6.5	0.9	0.06	12	<0.5	<0.2
115395	Soil	65	59	0.99	230	0.220	<1	3.25	0.010	0.87	0.1	0.01	6.6	0.7	0.09	12	<0.5	<0.2
115396	Soil	24	83	1.63	1044	0.222	<1	3.65	0.009	1.04	0.1	0.01	5.1	0.7	0.12	11	<0.5	<0.2
115397	Soil	49	241	2.07	4922	0.235	<1	2.86	0.015	0.64	0.2	0.02	10.2	0.5	<0.05	11	1.1	<0.2
115398	Soil	23	40	0.70	347	0.136	<1	2.18	0.008	0.38	0.1	0.01	4.2	0.4	<0.05	7	0.6	<0.2
115399	Soil	10	136	1.42	717	0.163	<1	2.73	0.017	0.64	<0.1	0.01	11.3	0.3	<0.05	12	<0.5	<0.2
115400	Soil	10	55	1.00	482	0.143	<1	2.13	0.014	0.24	<0.1	<0.01	7.5	0.2	<0.05	8	<0.5	<0.2
115401	Soil	13	103	1.02	451	0.148	<1	2.20	0.011	0.31	0.1	0.02	5.5	0.2	<0.05	8	0.5	<0.2
115402	Soil	22	54	0.67	460	0.107	<1	1.88	0.013	0.11	0.1	0.03	5.3	0.1	<0.05	6	<0.5	<0.2
115403	Soil	25	15	0.15	323	0.007	<1	1.60	0.012	0.12	<0.1	0.11	3.2	0.5	0.11	5	<0.5	<0.2
115404	Soil	18	17	0.24	142	0.045	<1	0.94	0.010	0.05	0.2	0.08	1.6	0.1	<0.05	3	<0.5	<0.2
115405	Soil	13	21	0.32	168	0.035	<1	1.27	0.008	0.07	0.1	0.15	1.8	0.1	<0.05	4	<0.5	<0.2
115406	Soil	18	15	0.19	128	0.026	<1	0.82	0.008	0.10	0.1	0.41	1.5	0.1	<0.05	3	0.6	<0.2
115407	Soil	27	14	0.18	164	0.014	<1	0.97	0.007	0.09	0.2	0.12	1.6	0.1	<0.05	3	0.6	<0.2
115408	Soil	16	6	0.05	61	0.004	<1	0.45	0.004	0.09	0.3	0.04	0.5	0.1	<0.05	2	<0.5	<0.2
115409	Soil	28	12	0.14	184	0.004	<1	0.74	0.006	0.08	0.2	0.04	2.4	<0.1	<0.05	2	<0.5	<0.2
115410	Soil	19	19	0.29	248	0.018	<1	1.15	0.011	0.10	0.2	0.04	3.5	0.1	<0.05	4	<0.5	<0.2
115411	Soil	15	21	0.34	136	0.034	<1	1.15	0.008	0.06	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
115412	Soil	0.9	29.4	22.6	48	<0.1	19.1	6.9	205	2.25	14.5	1.5	3.7	7.2	21	<0.1	0.7	0.4	42	0.26	0.014
115413	Soil	1.0	30.0	30.9	58	0.1	20.6	9.5	210	2.83	20.8	1.1	6.1	8.9	21	<0.1	1.0	0.5	45	0.25	0.023
115414	Soil	1.0	31.1	17.3	53	0.2	24.8	8.7	303	2.61	15.4	2.4	6.5	5.9	31	0.1	0.8	0.3	43	0.47	0.058
115415	Soil	0.6	20.5	12.8	47	<0.1	18.9	6.0	189	2.13	11.5	1.5	4.7	5.6	25	<0.1	0.6	0.1	40	0.37	0.068
115416	Soil	1.2	26.4	46.9	56	0.5	22.6	5.6	202	2.36	20.9	2.9	5.6	10.2	27	0.2	1.6	0.4	39	0.34	0.052
115417	Soil	0.7	15.7	35.1	31	0.2	11.5	4.1	135	1.76	15.3	2.6	3.4	10.5	22	<0.1	1.1	0.4	32	0.28	0.032
115418	Soil	0.8	29.6	22.5	47	0.2	23.9	7.4	253	2.57	23.9	3.2	5.0	9.0	27	<0.1	1.3	0.2	44	0.38	0.046
115419	Soil	0.6	14.5	35.8	39	0.2	10.4	3.4	119	1.70	22.2	4.9	3.3	21.0	19	<0.1	1.6	0.7	26	0.21	0.030
115420	Soil	3.0	19.7	70.3	30	0.4	10.2	3.0	121	1.65	69.5	4.1	8.6	17.3	22	0.1	4.2	0.9	23	0.24	0.034
115421	Soil	0.9	21.8	30.3	47	0.3	16.0	5.0	167	1.90	35.8	4.8	9.2	9.8	22	0.1	2.8	0.3	32	0.31	0.043
115422	Soil	1.0	12.6	39.3	44	0.2	11.5	4.4	165	1.83	40.4	2.6	5.1	9.9	18	0.1	1.9	0.4	31	0.26	0.034
115423	Soil	0.7	15.2	62.7	66	0.1	11.0	6.1	306	1.85	32.6	6.4	3.2	13.6	15	0.1	3.3	0.8	22	0.14	0.020
115424	Soil	1.1	9.7	81.3	64	<0.1	10.3	6.0	221	1.99	26.5	2.9	3.0	11.6	16	0.1	3.3	0.6	29	0.15	0.021
115425	Soil	0.9	11.5	20.3	52	0.1	13.5	7.6	312	2.11	12.1	1.8	2.8	10.2	16	<0.1	0.6	0.4	41	0.19	0.019
115426	Soil	0.8	6.6	39.0	46	<0.1	6.1	6.8	1031	1.27	9.0	3.6	1.6	38.3	15	0.2	0.8	1.8	9	0.11	0.040
115427	Soil	1.2	5.2	269.9	43	0.2	4.2	1.8	262	0.81	45.3	4.9	1.3	36.7	26	0.2	8.1	2.0	5	0.07	0.026
115428	Soil	1.2	19.7	46.2	75	0.1	16.5	5.9	227	2.34	21.6	3.4	4.7	18.2	20	0.2	1.4	0.5	33	0.25	0.032
115429	Soil	1.2	8.5	36.9	65	<0.1	10.3	5.3	202	2.12	18.0	1.9	1.8	13.1	14	0.1	1.2	0.3	28	0.15	0.018
115430	Soil	1.0	17.6	44.4	86	<0.1	14.5	5.8	275	2.48	8.9	2.9	2.8	17.6	14	0.1	0.6	0.1	32	0.15	0.019
115431	Soil	0.9	11.2	25.3	61	<0.1	11.6	4.8	204	2.00	8.1	1.9	4.1	12.1	14	0.1	0.6	0.2	28	0.20	0.038
115432	Soil	1.6	13.4	19.3	61	<0.1	9.6	6.2	246	2.53	8.0	2.0	2.2	23.7	18	0.1	0.9	0.4	31	0.22	0.053
115433	Soil	1.2	23.4	18.8	45	<0.1	17.3	7.4	207	2.48	13.0	2.9	3.6	8.7	17	<0.1	0.9	0.3	48	0.16	0.013
115434	Soil	0.8	21.5	14.8	45	<0.1	19.1	6.9	189	2.23	11.0	1.4	9.0	10.0	15	<0.1	1.4	0.2	42	0.15	0.017
115435	Soil	1.3	17.2	15.6	54	<0.1	19.2	6.9	202	2.31	14.5	1.9	4.0	10.7	17	0.1	2.1	0.2	41	0.16	0.015
115436	Soil	0.7	6.9	14.4	22	<0.1	5.3	2.6	110	0.97	5.5	2.4	2.7	18.2	16	<0.1	1.1	0.3	14	0.07	0.010
115437	Soil	0.7	24.5	12.3	47	0.1	17.6	5.8	198	1.99	7.2	2.2	2.8	11.2	24	0.1	0.6	0.2	35	0.26	0.040
115438	Soil	1.3	20.0	14.0	47	<0.1	19.8	7.4	219	2.37	8.9	1.7	3.1	8.6	25	<0.1	0.6	0.3	41	0.28	0.031
115439	Soil	1.0	27.7	29.5	102	0.1	21.2	8.2	237	3.23	12.6	2.4	1.7	14.2	33	0.1	0.7	0.7	35	0.45	0.024
115440	Soil	0.7	25.0	10.4	46	<0.1	25.4	10.1	239	2.29	9.7	0.6	2.9	5.3	17	<0.1	0.5	0.2	47	0.17	0.027
115441	Soil	0.9	33.4	14.2	57	<0.1	24.9	9.7	330	2.59	12.1	0.9	2.5	4.9	25	<0.1	0.8	0.2	52	0.27	0.027

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Project: Bishop
 Report Date: July 06, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
115412	Soil	18	28	0.36	266	0.050	<1	1.41	0.011	0.07	<0.1	0.06	4.2	<0.1	<0.05	4	<0.5	<0.2
115413	Soil	15	29	0.41	225	0.040	<1	1.80	0.012	0.10	0.1	0.05	3.7	0.1	<0.05	5	<0.5	<0.2
115414	Soil	17	29	0.43	408	0.048	<1	1.55	0.017	0.06	0.2	0.06	4.2	<0.1	<0.05	4	0.6	<0.2
115415	Soil	15	25	0.44	217	0.060	<1	1.19	0.017	0.06	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
115416	Soil	21	28	0.38	306	0.039	<1	1.34	0.015	0.12	0.2	0.11	4.0	0.2	<0.05	4	<0.5	<0.2
115417	Soil	23	20	0.29	234	0.037	<1	1.02	0.010	0.08	0.1	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
115418	Soil	18	30	0.47	344	0.049	1	1.63	0.016	0.09	0.2	0.05	4.5	<0.1	<0.05	5	<0.5	<0.2
115419	Soil	22	15	0.24	157	0.019	<1	0.93	0.007	0.13	0.2	0.03	2.0	0.2	<0.05	3	<0.5	<0.2
115420	Soil	20	15	0.22	228	0.014	<1	0.87	0.009	0.13	0.3	0.04	2.0	0.1	0.08	3	<0.5	<0.2
115421	Soil	17	21	0.35	218	0.032	<1	1.01	0.012	0.07	0.2	0.04	2.5	<0.1	<0.05	3	<0.5	<0.2
115422	Soil	16	19	0.30	174	0.029	<1	0.99	0.009	0.09	0.2	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
115423	Soil	14	13	0.14	121	0.012	<1	0.65	0.006	0.10	0.2	0.02	2.2	0.1	<0.05	2	<0.5	<0.2
115424	Soil	16	18	0.24	128	0.022	<1	0.99	0.008	0.08	0.1	0.03	1.8	0.1	<0.05	3	<0.5	<0.2
115425	Soil	15	25	0.37	208	0.038	<1	1.43	0.009	0.07	0.1	0.03	2.3	0.1	<0.05	5	<0.5	<0.2
115426	Soil	32	9	0.08	126	0.005	<1	0.72	0.006	0.10	0.3	0.02	1.6	0.2	<0.05	3	<0.5	<0.2
115427	Soil	30	8	0.04	105	0.002	<1	0.39	0.003	0.09	0.4	0.37	1.6	0.1	<0.05	2	<0.5	<0.2
115428	Soil	34	23	0.34	190	0.027	<1	1.13	0.009	0.09	0.2	0.08	3.3	<0.1	<0.05	3	<0.5	<0.2
115429	Soil	29	18	0.25	112	0.017	<1	0.91	0.007	0.08	0.2	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
115430	Soil	38	23	0.32	193	0.021	<1	1.21	0.008	0.07	0.1	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
115431	Soil	28	19	0.31	186	0.023	<1	1.02	0.008	0.07	0.1	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
115432	Soil	65	17	0.23	251	0.015	1	0.90	0.006	0.09	0.1	0.02	2.7	0.1	<0.05	4	<0.5	<0.2
115433	Soil	17	27	0.41	265	0.035	1	1.56	0.008	0.07	0.1	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
115434	Soil	14	27	0.40	168	0.032	1	1.53	0.006	0.07	0.1	0.08	2.6	0.1	<0.05	4	<0.5	<0.2
115435	Soil	18	25	0.33	247	0.022	<1	1.57	0.005	0.08	0.1	0.15	2.4	0.2	<0.05	5	0.6	<0.2
115436	Soil	29	8	0.07	87	0.010	<1	0.44	0.004	0.05	<0.1	0.06	1.1	<0.1	<0.05	2	<0.5	<0.2
115437	Soil	18	21	0.33	254	0.039	<1	1.11	0.011	0.06	0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
115438	Soil	17	27	0.38	253	0.033	<1	1.51	0.008	0.08	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
115439	Soil	23	26	0.27	234	0.014	2	2.14	0.008	0.16	<0.1	0.04	4.8	0.2	<0.05	6	<0.5	<0.2
115440	Soil	14	29	0.42	304	0.053	<1	1.76	0.007	0.04	0.2	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
115441	Soil	14	33	0.50	337	0.068	1	1.53	0.014	0.06	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
115442	Soil	1.2	40.3	13.9	58	<0.1	33.6	13.8	427	3.11	14.2	0.8	9.6	6.3	26	<0.1	0.8	0.2	67	0.27	0.018
115443	Soil	0.7	25.8	15.9	45	<0.1	23.2	8.3	222	2.01	7.4	0.6	3.1	4.4	21	<0.1	0.6	0.2	42	0.23	0.026
115444	Soil	0.7	28.6	11.7	69	0.1	25.1	8.9	218	2.55	9.1	1.6	3.4	5.4	37	0.3	0.7	0.2	48	0.44	0.068
115445	Soil	1.3	32.2	24.9	72	0.2	25.7	11.1	466	2.91	23.3	1.9	7.0	6.0	43	0.2	1.1	0.4	53	0.54	0.058
115446	Soil	1.4	29.5	17.9	60	0.2	24.2	9.4	325	2.59	20.3	2.2	4.5	4.8	41	0.1	1.1	0.3	47	0.53	0.062
115447	Soil	1.9	14.9	39.1	78	<0.1	9.2	5.3	219	3.38	30.5	1.6	1.9	7.9	25	0.2	1.4	0.6	53	0.15	0.046
115448	Soil	1.9	15.2	70.5	80	0.2	9.2	4.8	318	3.24	51.6	1.7	4.8	7.2	33	0.2	2.2	0.9	46	0.12	0.050
115449	Soil	1.8	21.6	48.4	75	0.1	13.6	6.0	254	3.21	37.7	1.4	46.4	7.9	33	0.1	2.4	0.6	51	0.20	0.032
115450	Soil	1.7	12.8	40.8	61	<0.1	7.6	5.9	192	2.76	45.0	1.5	2.3	6.8	23	<0.1	3.0	0.8	39	0.09	0.035
115451	Soil	1.1	18.8	34.1	31	0.2	9.0	3.5	90	1.73	24.2	1.0	2.9	7.3	26	<0.1	1.7	0.9	29	0.20	0.014
115452	Soil	1.2	26.0	23.2	47	0.1	20.6	7.7	236	2.85	27.7	1.4	3.6	6.0	30	<0.1	1.1	0.5	51	0.31	0.021
116377	Soil	1.7	38.2	17.1	62	0.4	31.7	12.5	402	3.23	12.1	1.4	4.2	8.9	16	<0.1	0.6	0.2	60	0.13	0.017
116378	Soil	2.5	36.5	18.9	65	0.4	29.3	11.4	272	3.28	12.4	0.8	4.0	4.9	17	0.2	0.9	0.2	79	0.12	0.022
116379	Soil	1.8	18.2	13.1	62	2.6	21.2	10.1	223	3.21	14.4	0.5	<0.5	3.1	14	0.1	0.7	0.2	79	0.12	0.035
116380	Soil	3.5	43.2	17.3	41	2.0	15.2	5.1	158	2.50	13.3	1.1	1.2	3.8	15	0.2	1.0	0.3	60	0.07	0.034
116381	Soil	2.1	33.5	13.3	93	1.9	32.2	9.7	325	2.95	14.1	0.7	2.0	3.0	11	0.4	0.9	0.2	80	0.11	0.039
116382	Soil	0.8	37.1	8.2	49	0.2	20.9	3.3	214	1.77	6.9	0.5	1.1	3.1	4	<0.1	0.5	0.2	39	0.03	0.015
116383	Soil	1.1	37.5	10.1	51	0.3	22.7	8.2	195	2.56	9.5	1.1	6.3	4.8	12	<0.1	0.6	0.2	64	0.09	0.012
116384	Soil	1.0	50.7	16.7	62	0.3	16.2	4.5	250	2.29	9.9	1.3	2.7	9.4	14	<0.1	0.3	0.2	35	0.07	0.031
116385	Soil	1.5	44.2	14.1	80	<0.1	33.7	11.7	362	3.15	10.8	1.5	8.0	11.8	18	<0.1	0.8	0.2	63	0.15	0.017
116386	Soil	1.1	41.1	17.2	109	<0.1	48.4	15.5	273	4.12	10.7	1.1	3.1	6.2	8	<0.1	0.3	0.2	108	0.07	0.017
116387	Soil	1.6	58.6	12.2	95	0.2	33.4	7.4	456	2.83	9.7	0.5	0.6	3.1	8	0.2	0.5	0.3	73	0.05	0.034
116388	Soil	0.6	37.7	11.4	101	<0.1	32.1	10.7	440	3.53	6.3	1.0	1.1	5.4	15	<0.1	0.3	0.2	68	0.20	0.043
116389	Soil	0.6	61.5	11.5	131	<0.1	54.3	10.9	264	3.71	11.5	1.4	2.5	9.7	11	0.1	0.3	0.3	82	0.24	0.080
116390	Soil	0.5	65.5	13.8	142	<0.1	58.6	13.2	235	3.39	8.9	1.2	3.7	9.3	11	0.2	0.2	0.3	89	0.24	0.086
116391	Soil	1.4	47.5	11.1	82	<0.1	38.4	15.5	449	3.88	4.7	2.4	<0.5	14.7	10	<0.1	0.3	0.2	64	0.14	0.067
116392	Soil	0.8	11.8	15.1	99	<0.1	21.9	10.8	418	3.36	6.9	0.7	<0.5	6.9	13	<0.1	0.4	0.2	67	0.12	0.075
116393	Soil	0.6	17.6	12.1	71	<0.1	26.6	10.1	387	3.57	6.5	1.6	<0.5	11.4	9	<0.1	0.3	0.1	49	0.08	0.035
116394	Soil	0.5	20.6	11.6	76	<0.1	23.2	13.4	558	3.78	3.7	1.2	<0.5	14.5	9	<0.1	0.2	0.2	54	0.10	0.029
116395	Soil	0.7	19.3	12.1	49	0.1	21.1	10.1	541	2.96	10.4	0.8	2.7	6.1	11	<0.1	0.8	0.2	58	0.09	0.020

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
115442	Soil	17	41	0.47	458	0.074	<1	2.40	0.009	0.07	0.1	0.05	6.5	<0.1	<0.05	6	<0.5	<0.2
115443	Soil	15	30	0.39	297	0.057	<1	1.47	0.007	0.06	0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
115444	Soil	17	30	0.49	371	0.078	<1	1.60	0.018	0.07	0.1	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
115445	Soil	19	30	0.45	398	0.057	1	1.71	0.016	0.07	0.2	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
115446	Soil	16	25	0.40	378	0.043	<1	1.34	0.015	0.06	0.1	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
115447	Soil	31	10	0.23	230	0.022	<1	1.18	0.008	0.07	<0.1	0.02	3.5	0.2	<0.05	4	<0.5	<0.2
115448	Soil	28	10	0.18	273	0.022	<1	1.01	0.008	0.07	<0.1	0.05	4.0	0.2	0.06	3	<0.5	<0.2
115449	Soil	24	17	0.29	301	0.050	<1	1.45	0.010	0.08	<0.1	0.06	4.7	0.2	<0.05	5	0.7	<0.2
115450	Soil	26	8	0.11	200	0.030	<1	0.77	0.006	0.06	0.1	0.03	3.2	0.2	<0.05	3	<0.5	0.4
115451	Soil	29	12	0.16	311	0.012	<1	1.43	0.006	0.06	<0.1	0.05	2.8	0.2	<0.05	4	<0.5	<0.2
115452	Soil	19	30	0.37	395	0.035	<1	2.01	0.009	0.08	<0.1	0.03	4.3	<0.1	<0.05	6	<0.5	<0.2
116377	Soil	29	43	0.58	497	0.102	<1	2.09	0.008	0.21	0.1	0.03	4.4	0.2	<0.05	6	0.8	<0.2
116378	Soil	10	44	0.49	695	0.057	<1	2.59	0.011	0.06	0.1	0.04	3.5	0.1	<0.05	7	0.9	<0.2
116379	Soil	10	35	0.45	711	0.056	1	2.34	0.005	0.07	0.2	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
116380	Soil	14	27	0.25	532	0.039	<1	1.32	0.005	0.05	0.1	0.01	1.8	<0.1	<0.05	5	1.1	<0.2
116381	Soil	10	38	0.44	543	0.053	1	2.16	0.006	0.07	0.2	0.02	2.4	0.1	<0.05	6	<0.5	<0.2
116382	Soil	4	25	0.38	215	0.046	<1	1.10	0.001	0.04	<0.1	<0.01	2.4	<0.1	<0.05	4	0.6	<0.2
116383	Soil	14	37	0.42	862	0.086	<1	1.92	0.006	0.06	<0.1	0.02	3.8	0.1	<0.05	6	0.5	<0.2
116384	Soil	55	26	0.48	908	0.126	<1	1.22	0.005	0.34	<0.1	0.01	2.7	0.4	<0.05	4	1.2	<0.2
116385	Soil	47	39	0.54	386	0.072	<1	1.89	0.008	0.10	0.1	0.05	6.2	0.1	<0.05	6	0.6	<0.2
116386	Soil	17	63	0.88	281	0.265	<1	2.61	0.007	0.71	<0.1	0.01	4.5	0.6	<0.05	8	<0.5	<0.2
116387	Soil	7	39	0.65	230	0.096	<1	1.60	0.004	0.16	0.1	<0.01	3.7	0.2	<0.05	7	1.3	<0.2
116388	Soil	18	43	0.77	271	0.146	<1	2.03	0.007	0.58	<0.1	0.01	3.0	0.5	<0.05	6	0.5	<0.2
116389	Soil	38	42	0.69	263	0.137	<1	1.94	0.005	0.52	<0.1	<0.01	3.4	0.5	<0.05	5	0.5	<0.2
116390	Soil	30	42	0.70	251	0.166	<1	1.89	0.005	0.64	<0.1	<0.01	3.5	0.6	<0.05	5	1.1	<0.2
116391	Soil	32	47	0.85	232	0.127	<1	2.22	0.007	0.51	<0.1	0.02	3.5	0.2	<0.05	8	<0.5	<0.2
116392	Soil	9	43	0.60	192	0.168	<1	2.12	0.007	0.32	0.2	<0.01	4.2	0.3	<0.05	10	<0.5	<0.2
116393	Soil	12	47	0.74	201	0.237	<1	1.99	0.006	0.82	0.1	<0.01	3.0	0.6	<0.05	7	<0.5	<0.2
116394	Soil	17	44	0.87	202	0.312	<1	2.35	0.007	1.20	<0.1	<0.01	4.1	0.7	<0.05	9	<0.5	<0.2
116395	Soil	13	35	0.46	193	0.080	<1	2.04	0.008	0.09	0.2	0.03	3.0	0.1	<0.05	6	<0.5	<0.2



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Project: Bishop
 Report Date: July 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11000298.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
116396	Soil		0.6	24.6	10.9	54	<0.1	32.3	13.3	540	3.70	6.5	1.2	2.4	14.8	17	<0.1	0.5	0.1	47	0.18	0.021
116397	Soil		0.3	23.9	12.4	70	<0.1	27.2	12.3	605	4.22	9.7	0.9	3.7	17.0	15	<0.1	0.4	0.2	49	0.19	0.030
116398	Soil		0.8	22.4	13.8	81	<0.1	21.9	10.0	446	3.62	5.5	1.4	1.0	13.7	16	<0.1	0.5	0.5	58	0.18	0.028
116399	Soil		0.9	14.3	11.5	57	<0.1	20.3	9.8	282	3.50	9.7	0.6	3.1	6.7	10	<0.1	0.5	0.2	58	0.09	0.022
116400	Soil		1.1	16.7	12.2	53	<0.1	19.8	7.9	248	3.22	10.6	0.7	0.9	4.7	9	<0.1	0.5	0.2	70	0.08	0.029
116401	Soil		0.8	28.5	10.7	67	<0.1	26.9	11.4	374	3.15	7.2	1.0	1.6	7.9	19	<0.1	0.5	0.2	54	0.24	0.044
116402	Soil		0.5	29.9	12.1	61	<0.1	25.9	10.0	344	2.88	8.1	1.5	2.9	5.9	30	0.1	0.6	0.2	50	0.39	0.055
116403	Soil		1.0	18.6	10.4	59	<0.1	21.9	8.6	260	2.76	9.7	0.7	0.7	5.2	16	<0.1	0.4	0.2	59	0.20	0.031
116404	Soil		1.5	32.5	73.7	68	<0.1	22.7	15.4	645	3.73	6.9	1.3	3.7	8.9	11	<0.1	0.5	0.3	60	0.13	0.025
116405	Soil		0.9	27.2	6.5	60	<0.1	35.9	17.1	496	4.21	7.8	1.3	2.7	13.1	11	<0.1	0.4	0.2	68	0.11	0.019
116406	Soil		1.7	15.6	12.7	58	<0.1	21.0	10.6	401	3.86	12.5	0.8	5.7	6.6	13	<0.1	0.5	0.3	73	0.13	0.041
116407	Soil		1.2	20.8	9.4	64	<0.1	24.6	10.2	343	3.30	9.5	0.9	1.3	6.8	10	<0.1	0.4	0.2	62	0.12	0.033
116408	Soil		1.2	16.5	9.7	51	<0.1	18.3	8.8	341	2.77	6.8	0.9	3.3	6.9	10	<0.1	0.4	0.2	51	0.11	0.022
116409	Soil		1.2	21.4	10.4	52	0.1	18.7	8.3	421	2.84	7.3	1.7	2.6	8.4	15	0.1	0.4	0.3	50	0.18	0.042
116410	Soil		0.8	20.6	14.8	69	<0.1	13.0	7.1	442	3.14	10.6	1.7	3.6	7.3	50	<0.1	0.4	0.2	69	0.80	0.118
116411	Soil		0.7	13.3	12.8	55	<0.1	14.5	6.9	389	2.57	7.9	1.4	1.0	5.0	49	0.1	0.3	0.1	59	0.68	0.072
116412	Soil		0.9	18.6	11.7	54	<0.1	15.8	6.7	262	2.75	5.0	1.6	4.2	6.9	45	<0.1	0.4	<0.1	67	0.68	0.099
116413	Soil		1.2	12.2	16.3	60	<0.1	14.1	7.0	272	3.13	11.0	1.2	2.3	5.6	42	0.1	0.4	0.2	81	0.45	0.042
116414	Soil		1.1	17.1	19.7	88	<0.1	9.1	14.2	1942	3.93	5.9	1.6	3.1	10.5	68	0.2	0.3	0.2	112	1.00	0.223
116415	Soil		1.3	9.7	9.8	59	<0.1	8.0	6.0	542	2.21	5.0	1.0	0.9	2.5	39	<0.1	0.2	0.2	72	0.38	0.100
116416	Soil		2.4	12.4	13.4	65	<0.1	11.8	10.7	676	3.53	9.8	0.7	1.1	3.5	19	0.2	0.4	0.2	98	0.16	0.057
116417	Soil		1.6	11.6	17.4	42	0.1	12.3	5.7	451	2.09	8.1	0.9	1.3	2.6	39	0.2	0.3	0.3	61	0.38	0.069
116418	Soil		1.2	8.9	12.2	48	<0.1	8.9	6.9	255	2.16	5.1	0.9	0.7	4.4	45	<0.1	0.3	0.3	57	0.47	0.064
116419	Soil		1.2	16.0	17.7	70	<0.1	9.4	9.1	709	2.94	8.0	2.0	1.7	6.6	59	0.2	0.3	0.3	83	0.88	0.155
116420	Soil		0.9	20.5	10.3	64	0.1	13.0	7.4	496	2.46	5.3	1.7	1.6	6.2	60	0.2	0.4	0.3	61	0.74	0.117
116421	Soil		0.9	19.3	13.7	55	0.1	11.9	6.4	325	2.21	4.8	1.6	2.4	5.3	49	0.1	0.4	0.2	54	0.55	0.076
116422	Soil		0.8	19.7	8.1	56	<0.1	12.9	7.0	370	2.24	5.2	1.9	3.7	5.4	51	<0.1	0.4	0.2	52	0.60	0.090
116423	Soil		1.0	21.5	12.8	55	0.1	15.1	8.7	535	2.41	7.6	1.6	1.8	4.8	51	<0.1	0.5	0.2	57	0.59	0.078
116424	Soil		1.3	11.4	10.2	51	0.1	10.6	5.6	190	2.25	7.3	0.6	4.8	3.4	30	0.1	0.3	0.2	56	0.35	0.051
116425	Soil		0.8	23.5	13.0	54	0.1	17.1	7.3	315	2.29	7.5	1.7	4.7	4.7	43	0.1	0.6	0.2	52	0.51	0.062

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.



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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
116396	Soil	29	40	0.82	263	0.229	<1	2.27	0.008	0.73	0.1	0.01	5.0	0.6	<0.05	8	<0.5	<0.2
116397	Soil	106	48	1.01	162	0.281	<1	2.63	0.007	1.12	0.1	<0.01	4.1	0.8	<0.05	10	0.8	<0.2
116398	Soil	26	51	0.78	149	0.137	<1	2.35	0.007	0.47	0.1	<0.01	5.0	0.5	<0.05	10	<0.5	<0.2
116399	Soil	12	39	0.52	135	0.114	<1	2.17	0.007	0.19	0.1	0.01	2.6	0.2	<0.05	7	<0.5	<0.2
116400	Soil	14	38	0.52	94	0.158	<1	1.79	0.006	0.23	0.2	<0.01	2.8	0.3	<0.05	8	<0.5	<0.2
116401	Soil	21	42	0.73	227	0.191	<1	1.77	0.013	0.61	0.2	0.02	4.1	0.4	<0.05	7	0.7	<0.2
116402	Soil	19	34	0.57	328	0.129	<1	1.64	0.015	0.26	0.1	0.05	4.0	0.2	<0.05	5	<0.5	<0.2
116403	Soil	13	33	0.52	208	0.115	<1	1.76	0.007	0.12	0.2	0.02	2.9	0.2	<0.05	6	0.6	<0.2
116404	Soil	20	29	0.41	135	0.111	<1	1.62	0.007	0.29	0.1	0.01	6.1	0.3	<0.05	6	0.5	<0.2
116405	Soil	34	62	0.92	232	0.330	<1	2.74	0.009	0.96	0.2	<0.01	6.9	0.7	<0.05	11	<0.5	<0.2
116406	Soil	18	40	0.52	140	0.127	2	2.22	0.007	0.21	0.2	0.02	3.6	0.2	<0.05	8	<0.5	<0.2
116407	Soil	18	38	0.55	120	0.173	<1	1.97	0.006	0.39	0.2	<0.01	3.4	0.3	<0.05	8	0.5	<0.2
116408	Soil	20	31	0.47	132	0.142	<1	1.69	0.009	0.25	0.2	0.02	3.5	0.3	<0.05	6	0.6	<0.2
116409	Soil	33	30	0.41	155	0.104	<1	1.60	0.008	0.20	0.1	0.02	4.3	0.2	<0.05	6	0.6	<0.2
116410	Soil	27	23	0.69	405	0.055	2	1.94	0.015	0.07	0.2	0.03	7.8	<0.1	<0.05	6	<0.5	<0.2
116411	Soil	18	23	0.57	380	0.072	<1	1.96	0.014	0.06	0.1	0.02	4.4	0.1	<0.05	6	0.7	<0.2
116412	Soil	26	27	0.53	308	0.052	1	1.74	0.015	0.06	0.4	0.03	7.4	<0.1	<0.05	6	<0.5	<0.2
116413	Soil	17	30	0.82	325	0.111	<1	2.38	0.012	0.09	0.1	0.02	6.2	0.1	<0.05	8	<0.5	<0.2
116414	Soil	48	18	1.02	702	0.070	<1	2.27	0.014	0.13	0.2	0.02	10.8	<0.1	<0.05	8	<0.5	<0.2
116415	Soil	16	17	0.74	319	0.052	<1	2.02	0.014	0.07	0.4	0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
116416	Soil	9	24	0.49	219	0.133	<1	2.34	0.008	0.07	0.2	0.02	4.1	0.1	0.05	9	0.6	<0.2
116417	Soil	17	21	0.49	324	0.050	<1	1.81	0.013	0.04	0.2	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
116418	Soil	15	17	0.51	286	0.048	<1	1.81	0.011	0.05	0.2	0.01	3.7	<0.1	<0.05	6	0.6	<0.2
116419	Soil	25	18	0.80	372	0.137	<1	1.53	0.017	0.10	0.3	0.01	6.6	<0.1	<0.05	6	<0.5	<0.2
116420	Soil	25	20	0.56	373	0.072	1	1.62	0.014	0.07	0.2	0.03	6.8	<0.1	<0.05	6	<0.5	<0.2
116421	Soil	19	20	0.44	358	0.056	<1	1.58	0.013	0.05	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
116422	Soil	21	19	0.45	365	0.054	<1	1.50	0.013	0.04	0.2	0.04	5.0	<0.1	<0.05	5	0.8	<0.2
116423	Soil	20	22	0.45	381	0.058	<1	1.54	0.013	0.05	0.2	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
116424	Soil	11	20	0.40	255	0.059	<1	1.58	0.011	0.04	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
116425	Soil	17	24	0.46	347	0.061	<1	1.48	0.015	0.05	0.1	0.04	4.4	<0.1	<0.05	5	0.6	<0.2



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Method	Analyte	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
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
116426	Soil	0.6	31.6	8.9	66	0.1	18.7	7.9	395	2.27	7.0	1.3	4.6	4.6	46	0.1	0.6	0.2	52	0.66	0.085
116427	Soil	1.0	34.5	10.1	64	0.2	23.9	10.5	910	2.41	8.6	3.8	4.3	3.6	57	0.2	0.8	0.2	53	0.77	0.074
116428	Soil	0.9	30.7	17.0	52	<0.1	20.3	7.3	270	2.54	9.8	1.8	2.1	10.3	27	<0.1	0.7	0.3	48	0.32	0.024
116429	Soil	0.9	20.1	24.0	61	<0.1	13.7	8.2	302	3.02	5.7	2.2	2.0	30.9	19	<0.1	0.4	0.5	43	0.25	0.024
116430	Soil	1.2	18.2	20.3	58	<0.1	14.6	7.3	409	2.95	7.5	1.9	2.1	30.7	19	<0.1	0.5	1.6	35	0.23	0.021
116431	Soil	2.4	23.3	44.2	116	<0.1	15.2	5.6	210	3.44	20.2	3.2	3.2	37.3	18	<0.1	0.8	1.6	40	0.19	0.019
116432	Soil	0.8	22.1	20.6	103	<0.1	18.1	11.3	484	4.41	7.7	2.1	0.8	34.1	20	0.1	0.5	0.4	57	0.24	0.028
116433	Soil	1.9	41.4	24.5	119	<0.1	16.7	6.8	314	3.42	9.9	2.3	1.6	31.5	17	0.1	0.6	4.5	44	0.17	0.014
116434	Soil	0.8	31.1	11.1	52	<0.1	27.4	8.6	313	2.80	11.6	0.9	4.4	7.3	23	<0.1	0.6	0.3	55	0.23	0.020
116435	Soil	1.1	37.5	14.9	54	0.1	27.5	8.0	207	3.31	13.5	1.8	4.3	10.4	20	<0.1	0.8	0.3	66	0.18	0.019
116436	Soil	1.3	7.8	10.9	53	<0.1	11.2	5.8	352	2.04	9.0	0.8	2.6	4.8	24	0.3	0.4	0.4	44	0.19	0.067
116437	Soil	1.4	9.0	15.2	46	0.1	9.9	4.6	378	2.29	6.7	0.4	<0.5	2.4	35	<0.1	0.4	0.2	64	0.25	0.043
116438	Soil	2.4	37.2	27.3	83	<0.1	22.1	11.8	618	5.28	66.0	3.3	4.4	28.7	59	<0.1	0.9	2.9	113	0.43	0.038
116439	Soil	1.1	14.4	22.2	44	<0.1	13.9	5.6	205	2.24	10.3	1.2	1.8	11.7	19	<0.1	0.6	0.5	45	0.18	0.017
116440	Soil	1.2	17.5	13.8	51	<0.1	16.0	7.4	263	2.91	10.3	0.8	<0.5	7.3	26	<0.1	0.6	0.3	65	0.24	0.020
116441	Soil	1.6	27.6	30.6	68	<0.1	19.3	9.2	739	3.95	14.7	2.3	3.4	10.1	57	<0.1	0.7	0.4	79	0.49	0.060
116442	Soil	1.7	26.7	15.6	61	0.2	30.0	10.8	424	2.89	13.8	0.7	1.9	6.6	41	<0.1	0.9	0.4	60	0.50	0.045
116443	Soil	1.3	34.9	22.3	88	<0.1	20.0	10.0	1017	4.21	9.5	2.5	4.7	23.5	52	0.2	0.6	0.6	71	0.52	0.088
116444	Soil	1.2	15.4	15.4	62	<0.1	15.4	7.2	322	2.91	9.3	3.1	1.5	25.3	27	<0.1	0.4	0.2	49	0.26	0.029
116445	Soil	0.9	18.7	19.6	67	<0.1	16.3	7.8	335	2.96	8.4	5.1	2.8	24.7	34	<0.1	0.6	0.2	43	0.40	0.047
116446	Soil	0.9	15.9	12.2	53	<0.1	16.2	6.8	268	2.42	7.2	2.4	0.9	15.3	24	<0.1	0.5	0.2	46	0.27	0.033
116447	Soil	1.0	24.6	22.8	80	<0.1	17.7	7.9	732	4.23	12.5	4.9	2.6	9.3	45	0.1	0.7	0.2	64	0.50	0.078
116448	Soil	0.5	3.9	12.1	41	<0.1	4.6	2.4	103	1.31	18.2	5.5	<0.5	24.8	12	<0.1	1.1	0.2	14	0.13	0.021
116449	Soil	0.7	11.0	26.8	84	<0.1	9.6	6.3	313	2.59	7.7	3.8	<0.5	20.5	28	0.2	0.4	0.2	38	0.32	0.030
116450	Soil	0.7	8.6	10.4	39	<0.1	12.5	4.7	150	1.88	6.6	1.5	2.1	7.9	17	<0.1	0.4	0.2	41	0.22	0.024
116451	Soil	0.5	14.6	14.3	93	<0.1	14.3	9.0	495	3.75	6.9	5.2	0.6	30.7	26	<0.1	0.3	0.2	42	0.34	0.049
116452	Soil	1.2	20.9	11.6	65	<0.1	14.7	7.0	356	3.09	32.0	4.6	1.9	19.8	26	<0.1	0.7	1.5	44	0.28	0.040
116453	Soil	0.9	16.4	23.5	84	<0.1	10.5	8.6	599	3.12	20.0	5.7	0.6	23.2	23	0.1	0.4	0.3	42	0.31	0.094
116454	Soil	1.7	27.7	21.3	85	<0.1	22.9	9.9	1346	3.88	10.8	6.9	2.9	7.6	33	0.1	0.6	0.2	65	0.41	0.104
116455	Soil	2.7	24.1	28.8	124	<0.1	20.4	14.2	1841	5.47	9.5	4.7	1.1	7.4	33	0.3	0.6	0.3	67	0.37	0.122

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Project: Bishop
 Report Date: July 06, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
116426	Soil	18	24	0.52	410	0.056	2	1.48	0.018	0.05	0.2	0.05	4.5	<0.1	<0.05	4	0.7	<0.2
116427	Soil	18	24	0.44	499	0.049	2	1.44	0.016	0.05	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
116428	Soil	25	30	0.39	350	0.051	<1	1.70	0.010	0.07	<0.1	0.05	4.6	<0.1	<0.05	5	<0.5	<0.2
116429	Soil	53	30	0.62	255	0.042	<1	2.22	0.007	0.21	0.2	0.02	3.6	0.3	<0.05	10	0.6	<0.2
116430	Soil	48	24	0.30	243	0.033	<1	1.67	0.007	0.25	0.1	0.02	4.6	0.4	<0.05	7	0.8	<0.2
116431	Soil	57	27	0.22	225	0.016	<1	1.64	0.011	0.14	0.1	0.06	6.0	0.3	<0.05	6	<0.5	<0.2
116432	Soil	73	38	0.96	310	0.104	<1	3.30	0.008	0.69	0.5	0.02	6.6	0.8	<0.05	13	<0.5	<0.2
116433	Soil	75	32	0.57	286	0.035	<1	2.99	0.008	0.36	1.0	0.02	4.7	0.6	<0.05	11	0.5	<0.2
116434	Soil	20	34	0.48	421	0.066	<1	1.64	0.017	0.06	0.1	0.04	4.9	<0.1	<0.05	5	0.6	<0.2
116435	Soil	28	39	0.52	384	0.067	1	2.17	0.012	0.07	0.1	0.05	6.0	<0.1	<0.05	6	<0.5	<0.2
116436	Soil	9	18	0.22	197	0.032	<1	0.99	0.007	0.06	0.1	0.01	1.5	<0.1	<0.05	4	0.5	<0.2
116437	Soil	11	19	0.33	289	0.045	<1	1.49	0.008	0.06	0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
116438	Soil	85	50	0.81	561	0.057	<1	3.65	0.015	0.16	<0.1	0.06	9.6	0.2	<0.05	12	<0.5	<0.2
116439	Soil	25	23	0.34	203	0.046	<1	1.21	0.008	0.05	0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
116440	Soil	19	30	0.43	346	0.064	<1	2.02	0.010	0.05	0.1	0.01	3.5	<0.1	<0.05	6	0.5	<0.2
116441	Soil	39	33	0.58	519	0.067	<1	2.91	0.015	0.10	<0.1	0.06	8.2	0.1	<0.05	9	<0.5	<0.2
116442	Soil	22	38	0.58	454	0.069	<1	1.87	0.019	0.08	0.2	0.05	4.5	0.1	<0.05	6	0.6	<0.2
116443	Soil	82	29	0.64	585	0.073	<1	3.28	0.018	0.29	<0.1	0.05	7.9	0.3	<0.05	12	<0.5	<0.2
116444	Soil	40	29	0.47	367	0.049	<1	2.13	0.010	0.12	<0.1	0.01	3.5	0.2	<0.05	9	0.5	<0.2
116445	Soil	56	30	0.53	323	0.042	<1	2.40	0.011	0.32	<0.1	0.05	4.9	0.3	<0.05	9	<0.5	<0.2
116446	Soil	33	31	0.44	236	0.062	<1	1.75	0.011	0.16	0.1	0.02	3.1	0.2	<0.05	6	0.7	<0.2
116447	Soil	40	24	0.53	704	0.054	<1	3.07	0.015	0.23	<0.1	0.07	7.1	0.1	<0.05	10	<0.5	<0.2
116448	Soil	60	13	0.21	83	0.015	<1	0.72	0.003	0.22	<0.1	0.08	1.3	0.5	<0.05	5	<0.5	<0.2
116449	Soil	37	25	0.54	289	0.051	<1	1.72	0.011	0.34	<0.1	0.05	2.7	0.3	<0.05	8	<0.5	<0.2
116450	Soil	20	22	0.37	199	0.050	<1	1.24	0.008	0.08	0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
116451	Soil	70	36	0.88	476	0.089	<1	3.11	0.011	0.90	<0.1	0.05	5.9	0.8	<0.05	13	<0.5	<0.2
116452	Soil	47	26	0.43	406	0.043	<1	1.87	0.010	0.26	<0.1	0.04	5.9	0.3	<0.05	7	0.5	<0.2
116453	Soil	56	16	0.29	351	0.027	<1	1.56	0.012	0.23	<0.1	0.02	5.2	0.2	<0.05	6	0.5	<0.2
116454	Soil	33	23	0.39	685	0.059	<1	1.86	0.013	0.16	0.1	0.06	6.6	0.2	<0.05	6	0.7	<0.2
116455	Soil	32	17	0.29	665	0.046	<1	1.42	0.014	0.16	0.2	0.06	7.0	0.2	<0.05	5	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
116456	Soil	3.2	18.1	27.2	159	<0.1	20.0	11.5	352	6.30	10.8	5.1	<0.5	10.5	34	0.3	0.4	0.5	55	0.41	0.197
116457	Soil	1.7	33.9	20.4	80	0.2	21.6	7.9	319	2.87	12.6	1.7	5.6	11.7	41	0.1	0.9	0.6	47	0.34	0.037
116458	Soil	0.7	14.8	14.2	76	<0.1	11.6	7.6	300	2.88	3.5	2.1	1.3	21.7	19	<0.1	0.3	0.3	38	0.21	0.045
116459	Soil	0.9	9.5	10.2	42	<0.1	12.2	4.4	162	1.91	14.4	1.1	3.0	6.3	15	<0.1	0.4	0.2	42	0.13	0.016
116460	Soil	1.0	10.1	16.1	45	<0.1	8.5	3.3	164	1.47	4.4	1.9	6.8	11.7	14	<0.1	0.4	0.3	21	0.09	0.009
116461	Soil	0.8	15.4	17.5	55	<0.1	10.8	3.7	298	1.65	6.8	2.7	<0.5	16.0	16	<0.1	0.5	0.3	23	0.09	0.010
116462	Soil	1.4	15.7	25.0	86	<0.1	7.8	6.1	513	1.75	7.0	1.7	1.0	8.8	9	0.2	0.6	0.6	30	0.08	0.028
116463	Soil	1.4	19.6	16.0	63	<0.1	12.3	4.9	151	2.06	13.8	1.1	1.6	4.4	10	0.2	0.8	0.3	31	0.14	0.041
116464	Soil	0.8	18.1	21.6	203	0.2	34.3	15.2	328	3.84	5.5	1.6	<0.5	17.5	17	0.6	0.3	0.4	45	0.23	0.030
117260	Soil	2.2	104.0	7.4	140	<0.1	157.3	29.3	1240	5.69	30.7	1.0	15.3	4.9	20	0.4	0.7	0.2	108	0.44	0.132
117261	Soil	2.1	44.8	17.4	75	0.3	36.8	8.9	243	2.62	10.1	1.2	5.4	4.1	24	0.1	0.6	0.2	56	0.20	0.029
117262	Soil	1.8	40.2	10.2	71	0.2	54.2	13.8	177	3.21	15.7	0.7	5.5	5.0	22	0.1	0.8	0.2	68	0.24	0.026
117263	Soil	10.6	280.3	17.1	678	1.7	238.6	127.3	1346	4.61	17.1	3.1	8.5	4.6	65	4.5	1.1	0.3	140	0.41	0.285
117264	Soil	3.9	110.4	21.2	245	<0.1	65.5	18.4	992	4.35	5.3	1.0	7.8	7.4	16	0.3	0.3	0.2	167	0.50	0.155
117265	Soil	2.6	84.3	20.8	113	0.1	83.7	20.4	936	5.26	14.8	0.9	7.3	4.9	24	0.4	1.1	0.2	107	0.48	0.168
117266	Soil	3.4	99.3	13.0	118	0.2	36.8	5.1	77	2.59	14.8	1.8	11.9	9.9	27	0.6	0.5	0.3	94	0.11	0.068
117267	Soil	2.3	75.7	10.7	111	0.3	45.6	11.9	177	3.31	9.7	1.2	5.8	4.2	17	0.2	0.6	0.2	66	0.14	0.050
117268	Soil	5.5	105.4	13.4	121	0.3	42.0	10.4	283	3.51	10.6	1.8	7.1	6.0	24	0.3	0.6	0.3	114	0.13	0.080
117269	Soil	2.0	48.0	14.8	103	0.2	37.6	10.7	180	3.17	7.9	1.1	4.0	5.5	18	0.5	0.5	0.2	70	0.14	0.030
117270	Soil	6.0	93.9	11.6	257	0.8	71.5	12.3	186	4.06	10.2	2.0	8.2	5.4	29	1.1	0.7	0.3	88	0.14	0.099
117271	Soil	1.4	43.9	18.4	88	0.2	40.7	13.1	441	3.16	13.0	0.7	4.1	4.0	36	0.2	0.9	0.2	67	0.56	0.081
117272	Soil	1.1	29.1	9.5	68	0.1	28.6	11.3	389	2.71	10.9	0.5	3.9	4.2	30	0.1	0.6	0.2	59	0.49	0.077
117273	Soil	0.9	34.9	9.5	74	0.1	31.1	11.4	473	2.53	11.8	0.5	3.1	3.5	49	0.3	0.7	0.1	52	1.50	0.089
117274	Soil	1.1	30.7	8.3	69	0.1	28.1	10.4	324	2.67	12.3	0.5	2.3	3.7	32	0.2	0.8	0.2	55	0.58	0.092
117275	Soil	0.9	35.2	9.1	63	0.2	28.6	9.9	432	2.50	10.4	0.6	2.4	3.5	36	0.1	0.7	0.1	52	0.66	0.082
117276	Soil	0.7	19.1	7.7	62	0.1	20.3	8.1	221	2.16	7.8	0.7	1.6	3.4	26	0.1	0.5	0.1	49	0.41	0.077
117277	Soil	1.3	27.1	9.3	79	0.2	24.9	8.2	356	2.66	12.2	0.9	6.2	2.8	34	0.4	0.7	0.2	55	0.56	0.086
117278	Soil	1.2	24.2	9.6	72	0.2	23.6	8.3	341	2.54	9.7	0.8	9.1	2.7	32	0.3	0.5	0.2	56	0.48	0.082
117279	Soil	1.0	22.6	9.9	68	0.2	25.1	9.6	375	2.43	7.9	0.8	5.4	3.4	30	0.2	0.5	0.2	50	0.39	0.066
117280	Soil	0.8	33.7	12.2	78	<0.1	35.9	12.6	576	3.83	8.8	1.3	4.1	10.9	23	0.1	0.6	0.6	59	0.37	0.073

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
116456	Soil	30	10	0.12	263	0.007	<1	0.88	0.005	0.13	0.1	0.05	7.6	0.2	<0.05	2	<0.5	<0.2
116457	Soil	19	29	0.42	396	0.022	1	1.67	0.012	0.19	<0.1	0.12	5.2	0.3	<0.05	6	0.7	<0.2
116458	Soil	57	26	0.53	265	0.067	<1	1.46	0.009	0.49	<0.1	0.02	6.4	0.6	<0.05	8	<0.5	<0.2
116459	Soil	15	21	0.33	154	0.030	<1	1.25	0.005	0.06	<0.1	0.02	1.9	0.1	<0.05	5	<0.5	<0.2
116460	Soil	16	12	0.20	109	0.018	<1	0.67	0.004	0.06	<0.1	0.03	1.4	<0.1	<0.05	3	<0.5	<0.2
116461	Soil	26	14	0.16	148	0.017	<1	0.86	0.004	0.06	0.1	0.04	2.8	0.1	<0.05	4	0.9	<0.2
116462	Soil	19	14	0.14	154	0.017	1	0.77	0.004	0.05	0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
116463	Soil	10	18	0.17	149	0.017	<1	0.74	0.007	0.06	0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
116464	Soil	17	39	0.86	312	0.175	<1	2.35	0.007	0.71	<0.1	0.01	3.3	0.5	<0.05	8	<0.5	<0.2
117260	Soil	23	111	0.88	778	0.089	2	1.66	0.007	0.50	<0.1	0.06	11.4	0.6	<0.05	9	1.5	0.2
117261	Soil	14	34	0.40	548	0.069	<1	1.29	0.010	0.10	0.2	0.06	4.2	0.1	<0.05	4	0.9	<0.2
117262	Soil	16	60	0.69	339	0.104	<1	2.22	0.011	0.07	<0.1	0.02	3.5	0.1	<0.05	7	0.6	<0.2
117263	Soil	13	68	0.40	443	0.031	1	1.15	0.009	0.37	<0.1	0.08	5.2	0.6	0.35	4	7.1	0.2
117264	Soil	28	86	1.48	1165	0.209	1	2.80	0.008	1.36	0.2	0.03	8.1	0.7	0.07	11	2.4	<0.2
117265	Soil	32	61	0.58	476	0.057	2	2.00	0.007	0.16	<0.1	0.04	8.6	0.2	0.07	7	1.4	<0.2
117266	Soil	24	44	0.31	370	0.033	1	1.20	0.005	0.21	<0.1	0.08	5.6	0.3	0.12	4	3.0	<0.2
117267	Soil	18	35	0.47	336	0.055	1	1.59	0.008	0.13	<0.1	0.05	4.1	0.2	0.08	5	1.5	<0.2
117268	Soil	19	64	0.60	765	0.070	<1	1.53	0.007	0.51	<0.1	0.09	7.1	0.4	0.16	6	3.8	0.2
117269	Soil	20	40	0.58	294	0.097	<1	1.88	0.010	0.26	<0.1	0.03	4.2	0.2	<0.05	5	1.1	<0.2
117270	Soil	15	31	0.28	327	0.043	<1	0.90	0.006	0.22	<0.1	0.06	3.7	0.3	0.12	3	2.4	<0.2
117271	Soil	17	43	0.65	466	0.079	1	1.97	0.022	0.08	0.2	0.05	5.2	<0.1	<0.05	6	0.7	<0.2
117272	Soil	16	31	0.56	374	0.074	1	1.64	0.020	0.07	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
117273	Soil	14	27	0.78	381	0.063	1	1.31	0.023	0.08	0.2	0.03	3.5	<0.1	0.05	4	0.6	<0.2
117274	Soil	15	31	0.61	323	0.065	2	1.47	0.026	0.08	0.2	0.05	3.8	<0.1	<0.05	4	0.5	<0.2
117275	Soil	15	28	0.58	431	0.059	1	1.45	0.022	0.07	0.2	0.04	3.6	<0.1	<0.05	4	0.8	<0.2
117276	Soil	15	25	0.43	260	0.053	1	1.27	0.015	0.05	0.3	0.03	2.6	<0.1	<0.05	4	0.8	<0.2
117277	Soil	14	27	0.48	398	0.050	1	1.45	0.017	0.06	0.3	0.05	3.1	<0.1	0.06	4	0.9	<0.2
117278	Soil	14	30	0.48	335	0.056	1	1.52	0.013	0.08	0.2	0.07	3.3	0.1	<0.05	4	0.6	<0.2
117279	Soil	17	32	0.46	340	0.062	2	1.58	0.013	0.12	0.2	0.06	3.7	0.1	<0.05	5	0.6	<0.2
117280	Soil	33	51	0.75	334	0.142	<1	2.24	0.011	0.62	0.1	0.05	5.6	0.4	<0.05	9	<0.5	<0.2



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Project: Bishop
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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
117281	Soil	1.2	20.8	15.8	66	<0.1	19.6	7.5	369	2.88	8.2	2.3	5.7	21.5	21	<0.1	0.4	0.2	43	0.20	0.072
117282	Soil	2.6	18.1	20.4	110	<0.1	20.5	7.6	1482	3.61	4.2	5.1	1.2	51.8	21	0.2	0.4	0.8	21	0.17	0.080
117283	Soil	1.1	18.9	21.7	73	<0.1	19.7	9.8	393	3.15	4.9	3.1	2.8	28.4	28	<0.1	0.4	0.4	35	0.26	0.104
117284	Soil	1.9	34.1	13.3	78	<0.1	32.2	12.3	1087	3.05	8.2	1.8	3.4	17.4	26	0.2	0.9	0.4	44	0.30	0.085
117285	Soil	1.2	13.7	16.7	98	<0.1	13.1	11.3	1010	4.15	2.5	2.7	1.0	29.8	22	0.2	0.2	0.7	35	0.38	0.158
117286	Soil	3.1	87.0	12.2	144	<0.1	68.9	45.6	2037	7.96	10.3	3.9	9.2	5.5	32	0.3	1.1	0.2	152	0.46	0.129
117287	Soil	1.5	15.3	18.6	83	<0.1	12.4	9.8	722	3.82	13.3	1.2	<0.5	6.5	31	0.2	0.5	0.1	93	0.27	0.062
117288	Soil	1.4	32.9	17.2	67	<0.1	21.3	8.4	323	3.34	21.5	1.7	8.2	8.3	28	0.1	0.7	0.2	89	0.30	0.037
117289	Soil	1.7	16.1	25.5	63	<0.1	21.8	9.6	394	3.37	12.7	0.7	<0.5	5.1	36	0.1	0.6	0.2	92	0.25	0.033
117290	Soil	0.7	82.0	11.5	44	0.1	37.7	11.8	316	3.02	13.0	10.1	6.1	9.2	32	<0.1	0.9	0.2	97	0.35	0.046
117291	Soil	1.3	17.5	25.4	53	<0.1	19.4	7.6	367	2.76	11.7	1.1	4.2	6.2	38	0.1	0.4	0.2	67	0.49	0.057
117292	Soil	0.9	15.9	13.4	66	<0.1	13.8	6.7	420	3.35	11.4	1.3	1.6	6.9	52	<0.1	0.4	0.1	74	0.72	0.079
117293	Soil	0.8	16.1	15.5	65	<0.1	15.0	7.6	476	2.95	9.8	1.0	2.5	5.7	42	<0.1	0.4	0.2	66	0.68	0.077
117294	Soil	0.6	19.5	9.2	62	<0.1	11.3	6.7	346	2.18	7.0	1.1	2.8	7.9	35	<0.1	0.2	<0.1	64	0.55	0.107
117295	Soil	0.3	13.4	12.8	70	<0.1	6.7	6.5	726	2.32	5.7	1.4	4.3	8.3	46	<0.1	0.2	<0.1	81	0.60	0.138
117296	Soil	0.6	16.8	8.8	58	<0.1	11.5	6.3	699	2.07	7.6	1.3	4.2	8.0	44	<0.1	0.3	<0.1	64	0.41	0.071
117297	Soil	0.5	18.5	23.8	58	<0.1	13.5	6.7	521	2.28	12.7	1.5	6.5	7.6	61	<0.1	0.6	<0.1	59	0.54	0.082
117298	Soil	0.8	11.9	11.7	67	<0.1	14.6	7.2	778	2.12	4.6	1.2	1.4	6.6	305	<0.1	0.2	<0.1	65	0.70	0.126
117299	Soil	0.8	14.7	17.7	66	<0.1	8.9	8.2	874	2.38	8.7	2.0	1.6	6.4	41	0.2	0.3	0.1	72	0.73	0.151
117300	Soil	0.9	17.9	12.4	55	<0.1	18.9	8.7	489	2.71	12.6	1.2	3.4	4.1	49	<0.1	0.4	0.2	65	0.65	0.054
117301	Soil	0.8	17.9	26.5	57	<0.1	17.6	8.1	548	2.63	13.8	1.3	5.2	4.3	49	<0.1	0.4	0.3	65	0.69	0.067
117302	Soil	0.8	14.8	15.8	63	<0.1	12.8	7.3	564	2.86	8.1	1.2	1.6	6.6	48	<0.1	0.4	0.5	68	0.69	0.087
117303	Soil	0.6	29.6	17.1	48	<0.1	23.0	9.2	517	2.67	8.8	5.9	7.8	4.2	71	0.3	0.6	0.5	57	0.80	0.077
117304	Soil	1.5	18.1	7.1	73	<0.1	13.1	9.7	767	4.39	6.3	1.6	3.3	7.7	49	<0.1	0.3	0.1	87	0.75	0.129
117305	Soil	0.8	23.7	11.4	59	<0.1	20.6	9.3	471	2.92	8.7	4.5	4.5	5.6	48	<0.1	0.5	0.2	57	0.54	0.065
117306	Soil	1.7	18.8	23.6	74	<0.1	18.0	7.2	327	3.49	10.0	2.7	1.0	6.9	44	<0.1	0.4	0.2	68	0.45	0.100
117307	Soil	1.6	26.2	11.6	86	<0.1	20.7	8.9	655	3.85	10.5	2.3	6.9	7.4	44	<0.1	0.5	0.2	80	0.51	0.122
117308	Soil	1.6	20.7	17.6	86	<0.1	14.5	9.1	575	4.09	8.6	2.0	3.8	7.7	50	0.2	0.4	0.2	89	0.62	0.158
117309	Soil	0.4	29.6	9.2	64	<0.1	34.0	13.9	412	4.24	3.5	1.3	3.5	30.6	14	0.1	0.2	0.3	34	0.27	0.074
117310	Soil	0.7	23.8	10.8	88	<0.1	37.3	19.7	681	4.81	2.0	2.0	<0.5	13.2	24	<0.1	0.2	0.1	54	0.37	0.051

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.001	0.01	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
117281	Soil	66	18	0.20	155	0.034	<1	1.07	0.009	0.24	<0.1	0.08	6.9	0.3	<0.05	6	0.9	<0.2
117282	Soil	69	12	0.13	306	0.010	1	1.10	0.006	0.22	<0.1	0.33	4.6	0.4	<0.05	8	0.9	<0.2
117283	Soil	51	18	0.22	147	0.030	2	0.82	0.007	0.17	<0.1	0.09	4.7	0.2	<0.05	5	<0.5	<0.2
117284	Soil	36	23	0.32	333	0.040	1	1.14	0.010	0.14	0.7	0.10	5.0	0.3	<0.05	6	0.9	<0.2
117285	Soil	58	9	0.29	279	0.042	1	1.21	0.007	0.54	0.1	0.12	6.1	0.8	<0.05	11	0.8	<0.2
117286	Soil	15	53	0.35	2016	0.013	2	1.21	0.005	0.25	0.8	0.26	22.5	0.3	<0.05	6	1.2	<0.2
117287	Soil	12	27	0.97	440	0.165	1	2.72	0.018	0.11	0.6	0.01	7.0	<0.1	<0.05	10	<0.5	<0.2
117288	Soil	29	35	0.68	362	0.099	<1	1.97	0.021	0.10	0.3	0.06	11.4	<0.1	<0.05	6	<0.5	<0.2
117289	Soil	12	36	0.75	383	0.081	1	2.63	0.014	0.09	0.2	0.02	5.2	<0.1	<0.05	7	<0.5	<0.2
117290	Soil	77	46	0.54	355	0.068	<1	2.33	0.017	0.08	0.1	0.05	9.8	<0.1	<0.05	6	0.8	<0.2
117291	Soil	22	30	0.59	330	0.060	2	1.75	0.015	0.06	0.2	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
117292	Soil	24	26	0.73	332	0.064	<1	2.34	0.016	0.07	0.2	0.03	8.1	0.1	<0.05	7	<0.5	<0.2
117293	Soil	20	23	0.56	349	0.046	1	1.67	0.015	0.06	0.2	0.03	5.9	<0.1	<0.05	6	<0.5	<0.2
117294	Soil	27	18	0.82	190	0.057	1	1.70	0.014	0.05	0.2	<0.01	8.7	<0.1	<0.05	6	<0.5	<0.2
117295	Soil	29	13	1.05	250	0.059	<1	1.77	0.015	0.05	0.3	<0.01	9.9	<0.1	<0.05	7	<0.5	<0.2
117296	Soil	21	19	0.72	222	0.056	<1	1.44	0.018	0.05	0.2	0.03	8.6	<0.1	<0.05	5	<0.5	<0.2
117297	Soil	28	21	0.75	252	0.071	<1	1.91	0.018	0.06	0.2	0.02	7.9	0.2	<0.05	7	<0.5	<0.2
117298	Soil	25	28	1.15	756	0.024	<1	2.36	0.017	0.05	0.2	<0.01	7.7	<0.1	<0.05	7	<0.5	<0.2
117299	Soil	30	15	1.13	197	0.033	2	1.92	0.014	0.05	0.3	0.02	9.6	<0.1	<0.05	7	<0.5	<0.2
117300	Soil	16	32	0.62	290	0.057	<1	2.09	0.018	0.05	0.2	0.03	5.7	<0.1	<0.05	7	<0.5	<0.2
117301	Soil	16	34	0.69	258	0.054	<1	2.15	0.017	0.05	0.2	0.02	6.9	<0.1	<0.05	7	<0.5	<0.2
117302	Soil	22	19	0.65	498	0.085	<1	2.40	0.017	0.08	0.2	<0.01	6.8	0.1	<0.05	7	<0.5	<0.2
117303	Soil	20	25	0.49	583	0.058	<1	1.88	0.017	0.05	0.2	0.06	5.2	<0.1	<0.05	6	<0.5	<0.2
117304	Soil	28	16	0.43	497	0.034	<1	2.35	0.015	0.09	<0.1	0.03	7.8	<0.1	<0.05	8	<0.5	<0.2
117305	Soil	19	26	0.44	468	0.058	<1	1.78	0.015	0.07	0.1	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
117306	Soil	20	22	0.37	473	0.048	<1	1.50	0.013	0.11	0.1	<0.01	5.6	<0.1	<0.05	5	<0.5	<0.2
117307	Soil	29	22	0.39	551	0.033	<1	1.58	0.014	0.10	0.1	0.03	7.3	<0.1	<0.05	5	<0.5	<0.2
117308	Soil	30	15	0.40	580	0.040	<1	1.58	0.014	0.11	<0.1	0.03	7.7	<0.1	<0.05	6	<0.5	<0.2
117309	Soil	73	35	0.91	86	0.138	<1	2.06	0.008	0.77	<0.1	0.01	2.8	0.6	<0.05	9	<0.5	<0.2
117310	Soil	26	54	1.34	138	0.210	<1	2.74	0.010	1.22	0.2	0.01	2.6	0.8	<0.05	11	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
117311	Soil	0.7	20.1	23.2	44	<0.1	52.0	20.7	738	5.21	4.2	2.1	6.3	26.6	26	<0.1	0.3	0.2	70	0.43	0.057
117312	Soil	1.1	30.9	21.2	64	<0.1	29.1	11.7	423	3.21	10.6	0.9	6.0	6.4	29	<0.1	0.8	0.3	57	0.35	0.029
117313	Soil	0.8	29.7	11.3	58	<0.1	27.7	9.8	379	2.63	11.0	0.6	4.4	5.1	35	0.1	0.8	0.2	48	0.95	0.052
117314	Soil	0.8	20.5	11.2	80	<0.1	49.4	23.5	764	5.90	16.6	1.2	1.9	21.9	22	0.1	0.8	0.2	92	0.46	0.077
117315	Soil	0.7	33.7	7.6	86	<0.1	49.0	22.0	657	4.91	5.7	1.8	4.9	18.1	20	<0.1	0.5	0.2	70	0.38	0.035
117316	Soil	0.9	51.2	43.0	164	<0.1	40.9	17.5	653	4.94	8.7	2.6	4.5	22.5	17	0.4	0.9	0.4	48	0.42	0.082
117317	Soil	1.6	87.5	8.5	80	<0.1	49.9	15.1	1914	3.17	12.9	0.6	3.3	3.1	28	0.1	0.7	0.2	58	0.48	0.050
117318	Soil	0.3	15.4	26.9	105	<0.1	53.4	20.1	1031	4.39	3.5	0.9	3.1	9.8	27	0.4	0.1	0.1	64	0.67	0.068
117319	Soil	0.6	84.6	3.9	36	<0.1	59.4	21.1	311	2.89	5.3	0.7	2.9	1.3	18	<0.1	0.4	<0.1	81	0.69	0.110
117320	Soil	0.5	63.7	7.3	95	<0.1	212.9	23.3	972	4.70	4.4	0.9	3.0	4.6	31	<0.1	0.2	<0.1	112	0.77	0.080
117321	Soil	0.8	48.8	9.3	62	<0.1	59.1	12.9	332	3.14	7.9	0.7	4.9	3.8	37	0.1	0.5	0.2	62	0.63	0.045
118313	Soil	1.9	62.5	18.7	79	0.1	40.4	13.2	350	3.55	14.3	1.0	8.3	5.7	26	0.1	0.8	0.2	71	0.22	0.028
118314	Soil	3.7	86.5	13.0	120	0.2	45.7	9.6	151	4.11	12.3	1.2	9.1	6.2	17	0.5	0.6	0.3	83	0.05	0.060
118315	Soil	2.5	64.0	13.5	169	<0.1	62.8	13.8	257	4.68	14.8	1.2	12.0	9.4	42	0.3	0.5	0.4	62	0.05	0.040
118316	Soil	4.4	115.3	5.3	480	0.5	384.6	43.6	513	6.45	5.5	2.5	3.3	6.4	58	2.6	1.9	0.1	179	1.26	0.088
118317	Soil	5.9	123.0	15.2	896	1.9	222.6	19.5	299	3.13	12.5	1.5	7.4	2.0	231	8.7	3.7	0.2	409	12.99	0.218
118318	Soil	3.1	108.0	14.5	290	0.2	148.6	32.9	520	5.00	11.6	1.3	4.5	6.3	11	0.8	0.5	0.3	75	0.11	0.045
118319	Soil	7.2	85.8	15.3	235	0.4	60.5	14.4	83	4.16	8.2	1.6	8.5	5.1	35	0.5	0.9	0.4	83	0.02	0.080
118320	Soil	10.3	156.2	20.9	369	0.9	157.5	13.7	86	6.89	8.6	2.0	7.3	3.5	34	1.4	2.1	0.3	108	0.05	0.187
118321	Soil	3.1	64.2	16.8	131	0.4	39.9	14.4	315	3.87	9.8	1.7	3.9	5.5	21	0.8	0.7	0.3	99	0.12	0.080



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
117311	Soil	56	62	1.44	160	0.211	<1	3.60	0.014	1.07	0.1	0.03	6.4	0.7	<0.05	13	<0.5	<0.2
117312	Soil	20	40	0.61	348	0.085	<1	1.86	0.019	0.11	0.1	0.03	4.5	0.1	<0.05	6	<0.5	<0.2
117313	Soil	17	28	0.57	349	0.067	1	1.28	0.020	0.08	0.3	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
117314	Soil	47	80	1.48	283	0.241	<1	3.25	0.011	1.43	0.2	0.01	6.4	0.8	<0.05	15	<0.5	<0.2
117315	Soil	48	65	1.12	233	0.167	<1	3.20	0.011	1.04	<0.1	0.03	5.3	0.8	<0.05	12	<0.5	<0.2
117316	Soil	69	41	0.88	246	0.139	<1	2.90	0.009	0.99	<0.1	0.04	5.3	0.7	<0.05	10	<0.5	<0.2
117317	Soil	12	39	1.10	698	0.057	<1	1.93	0.009	0.28	<0.1	0.03	5.1	0.3	<0.05	6	<0.5	<0.2
117318	Soil	32	57	2.85	587	0.194	<1	3.55	0.010	1.07	<0.1	0.02	3.4	0.6	<0.05	10	<0.5	<0.2
117319	Soil	5	74	1.04	188	0.067	<1	1.49	0.032	0.04	<0.1	<0.01	6.0	<0.1	<0.05	5	<0.5	<0.2
117320	Soil	20	271	3.42	824	0.154	<1	3.39	0.013	0.79	<0.1	<0.01	12.2	0.5	<0.05	12	<0.5	<0.2
117321	Soil	12	74	1.08	374	0.084	<1	2.08	0.021	0.11	0.2	0.05	5.0	0.1	<0.05	6	<0.5	<0.2
118313	Soil	18	43	0.60	424	0.073	<1	1.89	0.014	0.08	0.2	0.12	6.0	0.1	<0.05	6	0.9	<0.2
118314	Soil	14	50	0.66	357	0.090	<1	1.96	0.009	0.41	<0.1	0.03	4.0	0.5	0.08	7	2.2	<0.2
118315	Soil	19	36	0.38	328	0.028	<1	1.08	0.007	0.30	<0.1	0.01	3.2	0.6	<0.05	5	1.9	<0.2
118316	Soil	50	329	2.72	1552	0.075	2	3.11	0.006	0.11	<0.1	0.18	19.0	1.5	<0.05	13	9.6	<0.2
118317	Soil	12	92	0.24	426	0.003	3	0.68	0.005	0.07	0.4	0.34	7.9	0.4	<0.05	3	2.7	<0.2
118318	Soil	14	41	0.42	282	0.047	<1	1.36	0.004	0.29	<0.1	<0.01	3.7	0.4	0.06	5	1.5	<0.2
118319	Soil	14	26	0.11	631	0.005	<1	0.83	0.005	0.18	<0.1	0.01	3.6	0.4	0.20	3	2.9	0.3
118320	Soil	9	38	0.08	486	0.003	<1	0.81	0.002	0.07	0.1	0.04	4.2	0.2	<0.05	2	3.2	0.2
118321	Soil	16	41	0.44	642	0.037	<1	1.87	0.007	0.15	0.1	0.01	5.4	0.3	0.08	5	2.0	<0.2



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Project: Bishop
 Report Date: July 06, 2011

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QUALITY CONTROL REPORT

WHI11000298.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
110298	Soil	1.2	31.5	47.0	80	0.2	26.0	9.7	267	2.79	32.0	0.8	8.8	5.0	27	0.3	1.7	0.3	52	0.34	0.043
REP 110298	QC	1.1	30.6	48.4	82	0.2	25.8	9.7	270	2.82	33.1	0.8	6.9	5.3	27	0.2	1.8	0.3	54	0.35	0.045
111359	Soil	0.8	30.5	20.4	54	<0.1	25.6	8.4	240	2.68	13.7	1.3	4.9	9.7	16	<0.1	0.5	0.4	52	0.20	0.021
REP 111359	QC	0.9	30.3	20.4	52	<0.1	25.7	8.3	241	2.62	13.0	1.2	4.3	9.4	16	<0.1	0.5	0.3	49	0.20	0.020
111380	Soil	1.1	20.8	68.8	40	0.7	21.7	6.9	136	2.43	20.5	0.7	6.1	9.4	8	<0.1	1.6	0.3	45	0.06	0.015
REP 111380	QC	1.2	21.3	68.5	42	0.7	21.9	7.0	140	2.49	21.3	0.7	4.7	9.6	8	<0.1	1.8	0.3	45	0.06	0.016
111400	Soil	14.4	75.9	51.0	168	0.4	19.2	11.3	483	5.86	50.4	1.6	42.0	8.8	47	0.5	0.6	0.4	92	0.36	0.073
REP 111400	QC	14.7	76.5	50.7	171	0.4	19.3	11.4	490	5.95	50.7	1.7	41.6	8.9	49	0.5	0.6	0.4	95	0.36	0.077
111415	Soil	1.3	37.2	25.0	53	0.1	29.2	8.7	294	3.07	11.2	3.1	3.9	16.2	30	<0.1	0.7	0.4	62	0.36	0.032
REP 111415	QC	1.2	35.5	25.0	52	0.1	27.9	8.3	284	3.00	11.3	3.0	8.7	15.9	29	<0.1	0.7	0.4	59	0.34	0.031
111425	Soil	0.6	9.5	9.3	78	<0.1	14.3	13.5	585	3.80	7.2	1.5	2.1	22.5	18	<0.1	0.2	0.2	57	0.32	0.070
REP 111425	QC	0.6	9.3	9.2	75	<0.1	14.2	13.1	572	3.73	7.2	1.5	3.4	22.4	18	<0.1	0.2	0.1	56	0.31	0.068
115408	Soil	1.0	6.6	130.0	19	0.1	2.5	1.8	139	1.25	36.1	1.9	2.0	10.6	8	<0.1	1.7	2.3	6	0.03	0.023
REP 115408	QC	0.9	6.5	127.2	19	0.1	2.3	1.8	133	1.23	34.8	1.8	2.1	10.2	8	<0.1	1.5	2.1	6	0.03	0.022
115419	Soil	0.6	14.5	35.8	39	0.2	10.4	3.4	119	1.70	22.2	4.9	3.3	21.0	19	<0.1	1.6	0.7	26	0.21	0.030
REP 115419	QC	0.7	14.5	36.0	40	0.2	10.2	3.2	115	1.67	22.0	4.8	5.2	20.7	19	<0.1	1.6	0.6	25	0.22	0.029
115441	Soil	0.9	33.4	14.2	57	<0.1	24.9	9.7	330	2.59	12.1	0.9	2.5	4.9	25	<0.1	0.8	0.2	52	0.27	0.027
REP 115441	QC	0.8	33.8	14.1	57	<0.1	27.6	9.6	322	2.63	12.0	0.9	3.3	4.9	26	<0.1	0.7	0.2	56	0.27	0.027
116390	Soil	0.5	65.5	13.8	142	<0.1	58.6	13.2	235	3.39	8.9	1.2	3.7	9.3	11	0.2	0.2	0.3	89	0.24	0.086
REP 116390	QC	0.4	68.4	12.9	151	<0.1	60.3	13.2	238	3.46	9.5	1.2	6.4	9.2	11	<0.1	0.2	0.4	89	0.24	0.089
116397	Soil	0.3	23.9	12.4	70	<0.1	27.2	12.3	605	4.22	9.7	0.9	3.7	17.0	15	<0.1	0.4	0.2	49	0.19	0.030
REP 116397	QC	0.4	25.6	12.8	74	<0.1	29.7	12.5	651	4.43	10.0	1.0	1.6	18.9	15	<0.1	0.4	0.3	53	0.19	0.029
116414	Soil	1.1	17.1	19.7	88	<0.1	9.1	14.2	1942	3.93	5.9	1.6	3.1	10.5	68	0.2	0.3	0.2	112	1.00	0.223
REP 116414	QC	1.0	16.9	19.4	85	<0.1	8.8	13.6	1918	3.89	5.9	1.7	3.0	10.3	65	0.3	0.3	0.2	110	0.98	0.212
116431	Soil	2.4	23.3	44.2	116	<0.1	15.2	5.6	210	3.44	20.2	3.2	3.2	37.3	18	<0.1	0.8	1.6	40	0.19	0.019
REP 116431	QC	2.5	23.8	45.3	119	<0.1	16.7	5.9	207	3.52	20.7	3.2	3.2	38.8	19	<0.1	0.9	1.7	41	0.19	0.020
116457	Soil	1.7	33.9	20.4	80	0.2	21.6	7.9	319	2.87	12.6	1.7	5.6	11.7	41	0.1	0.9	0.6	47	0.34	0.037
REP 116457	QC	2.0	35.5	20.7	79	0.1	22.2	7.8	326	2.96	12.8	1.7	3.0	11.5	40	0.1	0.9	0.5	48	0.36	0.037

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Project: Bishop
 Report Date: July 06, 2011

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QUALITY CONTROL REPORT

WHI11000298.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
110298	Soil	14	31	0.43	312	0.053	<1	1.49	0.011	0.05	0.1	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
REP 110298	QC	15	32	0.44	324	0.054	<1	1.56	0.011	0.05	0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
111359	Soil	25	35	0.52	239	0.063	<1	1.75	0.008	0.07	0.1	0.04	4.8	0.2	<0.05	5	<0.5	<0.2
REP 111359	QC	26	35	0.50	241	0.062	<1	1.69	0.010	0.07	0.1	0.04	4.6	0.1	<0.05	5	<0.5	<0.2
111380	Soil	14	28	0.36	162	0.028	<1	1.93	0.006	0.10	0.2	0.07	2.3	0.2	<0.05	5	<0.5	<0.2
REP 111380	QC	14	28	0.37	163	0.028	<1	1.97	0.006	0.10	0.1	0.06	2.2	0.2	<0.05	5	<0.5	<0.2
111400	Soil	17	29	0.61	384	0.072	<1	3.51	0.012	0.10	0.2	0.02	6.9	0.2	0.06	10	0.7	<0.2
REP 111400	QC	17	29	0.61	374	0.076	<1	3.59	0.012	0.10	0.2	0.02	6.9	0.2	0.08	10	0.9	<0.2
111415	Soil	32	40	0.50	405	0.067	1	2.13	0.013	0.08	0.1	0.06	5.6	0.1	<0.05	7	<0.5	<0.2
REP 111415	QC	32	37	0.48	401	0.064	<1	2.06	0.012	0.07	0.2	0.06	5.5	0.1	<0.05	6	<0.5	<0.2
111425	Soil	32	41	0.81	214	0.095	<1	2.62	0.010	0.47	<0.1	0.02	4.5	0.6	0.12	12	<0.5	<0.2
REP 111425	QC	31	40	0.79	213	0.094	<1	2.65	0.010	0.46	<0.1	0.02	4.5	0.6	0.12	12	<0.5	<0.2
115408	Soil	16	6	0.05	61	0.004	<1	0.45	0.004	0.09	0.3	0.04	0.5	0.1	<0.05	2	<0.5	<0.2
REP 115408	QC	15	6	0.05	60	0.004	<1	0.42	0.004	0.08	0.3	0.03	0.5	<0.1	<0.05	2	<0.5	<0.2
115419	Soil	22	15	0.24	157	0.019	<1	0.93	0.007	0.13	0.2	0.03	2.0	0.2	<0.05	3	<0.5	<0.2
REP 115419	QC	21	16	0.25	157	0.022	<1	0.92	0.009	0.14	0.2	0.03	2.1	0.1	<0.05	3	<0.5	<0.2
115441	Soil	14	33	0.50	337	0.068	1	1.53	0.014	0.06	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
REP 115441	QC	15	34	0.49	340	0.070	1	1.60	0.014	0.06	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
116390	Soil	30	42	0.70	251	0.166	<1	1.89	0.005	0.64	<0.1	<0.01	3.5	0.6	<0.05	5	1.1	<0.2
REP 116390	QC	30	44	0.72	247	0.167	<1	1.88	0.004	0.64	<0.1	<0.01	3.7	0.6	<0.05	6	0.7	<0.2
116397	Soil	106	48	1.01	162	0.281	<1	2.63	0.007	1.12	0.1	<0.01	4.1	0.8	<0.05	10	0.8	<0.2
REP 116397	QC	111	52	1.07	168	0.293	<1	2.77	0.008	1.21	<0.1	<0.01	4.3	0.9	<0.05	10	<0.5	<0.2
116414	Soil	48	18	1.02	702	0.070	<1	2.27	0.014	0.13	0.2	0.02	10.8	<0.1	<0.05	8	<0.5	<0.2
REP 116414	QC	46	18	1.00	684	0.067	<1	2.18	0.013	0.12	0.2	0.02	10.5	<0.1	<0.05	8	0.7	<0.2
116431	Soil	57	27	0.22	225	0.016	<1	1.64	0.011	0.14	0.1	0.06	6.0	0.3	<0.05	6	<0.5	<0.2
REP 116431	QC	59	27	0.24	235	0.017	<1	1.74	0.008	0.13	0.2	0.06	6.2	0.3	<0.05	6	0.7	<0.2
116457	Soil	19	29	0.42	396	0.022	1	1.67	0.012	0.19	<0.1	0.12	5.2	0.3	<0.05	6	0.7	<0.2
REP 116457	QC	19	29	0.41	388	0.020	1	1.64	0.011	0.18	0.1	0.08	5.5	0.3	<0.05	6	0.6	<0.2

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Project: Bishop

Report Date: July 06, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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
116464	Soil	0.8	18.1	21.6	203	0.2	34.3	15.2	328	3.84	5.5	1.6	<0.5	17.5	17	0.6	0.3	0.4	45	0.23	0.030
REP 116464	QC	0.7	18.0	21.8	201	0.1	35.5	15.7	331	3.88	5.6	1.6	1.0	17.3	16	0.6	0.3	0.4	45	0.23	0.031
117277	Soil	1.3	27.1	9.3	79	0.2	24.9	8.2	356	2.66	12.2	0.9	6.2	2.8	34	0.4	0.7	0.2	55	0.56	0.086
REP 117277	QC	1.2	25.8	9.0	74	0.2	24.0	8.1	355	2.63	11.9	0.8	3.5	2.7	33	0.3	0.6	0.2	56	0.54	0.083
117297	Soil	0.5	18.5	23.8	58	<0.1	13.5	6.7	521	2.28	12.7	1.5	6.5	7.6	61	<0.1	0.6	<0.1	59	0.54	0.082
REP 117297	QC	0.8	18.7	30.8	60	<0.1	14.3	6.6	518	2.27	13.4	1.6	7.6	7.6	61	<0.1	0.6	0.1	60	0.54	0.084
117314	Soil	0.8	20.5	11.2	80	<0.1	49.4	23.5	764	5.90	16.6	1.2	1.9	21.9	22	0.1	0.8	0.2	92	0.46	0.077
REP 117314	QC	0.9	20.3	11.9	80	<0.1	46.6	23.3	753	5.75	17.2	1.1	3.1	21.9	21	<0.1	0.9	0.2	91	0.47	0.081
Reference Materials																					
STD DS8	Standard	13.5	117.9	127.8	338	2.0	41.0	8.0	662	2.60	28.7	2.8	126.0	7.1	71	2.7	6.2	6.7	46	0.72	0.089
STD DS8	Standard	13.3	110.6	123.6	328	1.8	39.0	7.6	636	2.48	27.3	2.8	116.6	7.1	65	2.4	6.0	6.7	43	0.70	0.082
STD DS8	Standard	13.1	117.1	116.2	325	1.9	40.2	7.8	623	2.48	26.9	2.4	105.6	5.9	58	2.4	5.5	6.3	45	0.66	0.088
STD DS8	Standard	14.4	119.7	114.3	337	2.0	43.3	8.7	667	2.66	28.6	2.3	109.9	6.1	65	2.6	5.6	6.5	47	0.73	0.093
STD DS8	Standard	14.3	118.8	136.3	357	1.9	43.5	8.2	688	2.74	27.5	2.8	129.0	7.1	66	2.3	5.5	6.8	47	0.79	0.087
STD DS8	Standard	14.4	117.7	130.9	346	1.8	42.6	8.0	682	2.72	27.8	2.8	122.1	7.4	67	2.5	5.4	6.6	47	0.79	0.087
STD DS8	Standard	13.2	106.2	128.3	304	1.8	36.8	7.4	589	2.44	25.7	2.8	101.1	6.5	67	2.0	5.5	6.8	41	0.67	0.077
STD DS8	Standard	13.0	107.7	123.5	312	1.8	37.4	7.4	598	2.39	25.8	2.7	98.2	6.5	66	2.1	5.7	6.7	41	0.67	0.080
STD DS8	Standard	13.0	108.8	128.1	318	1.8	38.0	7.6	601	2.44	26.5	2.7	103.1	6.9	68	2.2	5.4	6.6	42	0.69	0.080
STD DS8	Standard	13.6	109.1	128.0	313	1.7	37.9	7.6	596	2.42	25.2	2.8	111.8	7.0	71	2.0	5.3	6.8	41	0.70	0.077
STD DS8	Standard	14.2	113.7	131.6	330	1.8	40.7	8.0	669	2.66	25.4	2.7	111.3	7.3	65	2.3	4.9	6.3	38	0.75	0.084
STD DS8	Standard	14.2	121.7	133.0	338	1.7	42.5	8.2	672	2.75	28.3	2.8	113.0	7.6	66	2.3	5.2	6.5	45	0.79	0.086
STD DS8	Standard	14.7	124.3	114.5	340	1.9	42.2	8.6	661	2.65	29.2	2.3	114.0	5.9	71	2.3	5.7	6.4	46	0.76	0.096
STD DS8	Standard	14.2	118.8	115.1	329	1.9	41.8	8.2	650	2.55	27.5	2.3	117.1	5.9	68	2.5	5.7	6.3	46	0.74	0.089
STD DS8	Standard	14.0	118.3	138.6	329	1.7	42.5	8.1	634	2.60	29.9	2.6	129.7	7.2	62	2.3	5.0	6.3	47	0.72	0.085
STD DS8	Standard	14.3	120.8	134.1	339	1.8	44.1	8.4	679	2.70	25.1	2.7	135.7	7.0	64	2.3	5.1	6.3	47	0.73	0.086
STD DS8	Standard	14.2	117.9	123.3	334	1.8	42.6	8.2	662	2.69	29.3	2.7	96.8	7.4	67	2.3	5.1	6.1	48	0.75	0.082
STD DS8	Standard	14.4	112.2	121.5	322	1.8	41.2	8.0	650	2.59	28.6	2.6	110.3	7.3	68	2.2	5.1	6.0	45	0.77	0.081
STD DS8	Standard	13.8	111.5	131.1	321	0.9	40.1	7.7	626	2.58	26.5	2.7	111.0	6.7	66	2.5	5.5	6.5	43	0.70	0.082
STD DS8	Standard	14.0	112.3	130.6	314	0.8	38.8	7.6	620	2.56	26.7	2.8	125.7	7.0	69	2.2	5.5	6.7	43	0.71	0.083



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Project: Bishop
Report Date: July 06, 2011

Page: 2 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000298.1

		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
116464	Soil	17	39	0.86	312	0.175	<1	2.35	0.007	0.71	<0.1	0.01	3.3	0.5	<0.05	8	<0.5	<0.2
REP 116464	QC	17	39	0.88	304	0.178	<1	2.43	0.012	0.73	<0.1	0.01	3.2	0.6	<0.05	9	<0.5	<0.2
117277	Soil	14	27	0.48	398	0.050	1	1.45	0.017	0.06	0.3	0.05	3.1	<0.1	0.06	4	0.9	<0.2
REP 117277	QC	14	27	0.45	392	0.048	1	1.44	0.017	0.05	0.3	0.05	3.1	<0.1	0.06	4	0.7	<0.2
117297	Soil	28	21	0.75	252	0.071	<1	1.91	0.018	0.06	0.2	0.02	7.9	0.2	<0.05	7	<0.5	<0.2
REP 117297	QC	28	23	0.76	253	0.074	<1	1.98	0.020	0.06	0.2	0.02	7.9	<0.1	<0.05	7	<0.5	<0.2
117314	Soil	47	80	1.48	283	0.241	<1	3.25	0.011	1.43	0.2	0.01	6.4	0.8	<0.05	15	<0.5	<0.2
REP 117314	QC	46	78	1.47	283	0.237	<1	3.25	0.011	1.41	0.2	0.02	6.4	0.8	<0.05	15	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	125	0.65	297	0.122	3	0.95	0.095	0.45	3.1	0.20	2.2	5.3	0.14	5	5.7	5.4
STD DS8	Standard	15	119	0.63	288	0.114	2	0.92	0.093	0.43	2.9	0.20	2.0	5.2	0.14	5	5.0	4.8
STD DS8	Standard	13	121	0.63	277	0.111	2	0.89	0.086	0.43	3.0	0.21	2.0	5.2	0.18	5	5.5	5.3
STD DS8	Standard	15	124	0.69	283	0.123	2	1.01	0.094	0.46	3.2	0.20	2.3	5.3	0.24	5	5.7	5.2
STD DS8	Standard	16	132	0.69	285	0.131	2	1.04	0.090	0.45	3.4	0.20	2.5	5.9	0.23	6	6.3	5.9
STD DS8	Standard	16	134	0.68	282	0.133	3	1.03	0.090	0.43	3.3	0.21	2.5	5.8	0.24	6	5.7	5.8
STD DS8	Standard	14	115	0.56	280	0.118	2	0.88	0.085	0.40	2.8	0.20	1.9	5.2	0.16	4	5.3	5.0
STD DS8	Standard	14	115	0.58	273	0.116	3	0.90	0.085	0.41	2.9	0.19	2.1	5.1	0.20	5	4.9	5.3
STD DS8	Standard	14	115	0.58	271	0.118	3	0.90	0.090	0.42	2.9	0.24	2.0	5.3	0.16	5	5.7	4.8
STD DS8	Standard	15	114	0.57	276	0.119	2	0.93	0.100	0.42	2.7	0.20	2.4	5.4	0.16	5	4.7	5.3
STD DS8	Standard	15	128	0.64	270	0.123	2	0.96	0.097	0.41	3.1	0.20	2.4	5.8	0.18	5	6.0	5.6
STD DS8	Standard	16	135	0.67	279	0.133	3	1.04	0.095	0.42	3.2	0.21	2.5	5.8	0.23	5	5.9	5.4
STD DS8	Standard	16	127	0.71	297	0.129	2	1.09	0.110	0.48	2.9	0.20	2.3	5.3	0.21	5	5.4	5.9
STD DS8	Standard	16	124	0.67	291	0.124	2	1.00	0.105	0.45	2.8	0.22	2.2	5.0	0.17	5	6.3	5.6
STD DS8	Standard	13	132	0.65	244	0.115	3	1.00	0.093	0.41	3.1	0.21	2.2	5.5	0.14	5	5.9	4.9
STD DS8	Standard	14	121	0.63	261	0.120	2	1.00	0.090	0.41	3.0	0.21	2.3	5.4	0.21	5	6.1	5.5
STD DS8	Standard	16	131	0.63	293	0.127	2	1.00	0.092	0.41	3.1	0.19	2.2	5.4	0.30	5	5.2	5.4
STD DS8	Standard	17	127	0.63	293	0.129	3	0.98	0.093	0.42	3.1	0.19	2.2	5.4	0.28	5	5.4	5.0
STD DS8	Standard	14	121	0.63	268	0.115	2	0.93	0.090	0.42	2.9	0.22	2.1	5.8	0.10	5	5.0	5.5
STD DS8	Standard	15	117	0.62	274	0.118	2	0.93	0.091	0.41	2.8	0.19	2.3	5.6	0.12	5	5.0	6.4

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.



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Project: Bishop

Report Date: July 06, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11000298.1

		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
STD DS8	Standard	13.2	108.7	121.1	307	1.7	36.0	7.4	604	2.41	25.3	2.8	102.3	6.7	66	2.4	5.7	6.4	42	0.68	0.079
STD DS8	Standard	13.4	115.1	118.7	305	1.7	37.2	7.4	590	2.28	27.9	2.7	98.1	6.7	69	2.6	6.1	6.3	41	0.66	0.083
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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Project: Bishop

Report Date: July 06, 2011

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000298.1

		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
STD DS8	Standard	15	111	0.54	264	0.117	3	0.86	0.084	0.39	2.8	0.19	2.1	4.9	0.16	5	4.9	4.6
STD DS8	Standard	16	109	0.58	280	0.125	3	0.86	0.088	0.38	3.0	0.20	2.2	4.9	0.15	5	5.0	5.0
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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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 23, 2011
Report Date: July 08, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

WHI11000299.1

CLIENT JOB INFORMATION

Project: Bishop
Shipment ID: 20110620102451
P.O. Number
Number of Samples: 197

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.

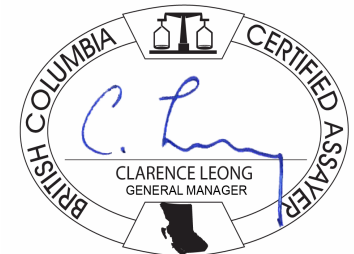
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	197	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	197	Dry at 60C			WHI
1DX2	197	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. ** 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: Bishop
 Report Date: July 08, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11000299.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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
118322	Soil		17.3	131.4	22.2	231	0.7	54.6	8.2	139	6.29	8.0	7.7	4.2	5.4	30	2.1	1.9	0.3	226	0.16	0.340
118323	Soil		8.9	97.6	23.9	358	1.1	79.9	9.0	170	6.47	15.4	2.8	4.7	5.5	43	1.5	1.5	0.5	178	0.05	0.152
118324	Soil		2.0	30.1	16.9	83	<0.1	33.0	11.6	152	5.37	5.6	1.8	2.3	10.7	29	0.1	0.5	0.2	98	0.11	0.080
118325	Soil		8.0	107.0	22.7	439	1.2	79.0	7.7	156	5.44	21.1	2.0	7.4	8.1	30	1.0	1.3	0.5	106	0.03	0.068
118326	Soil		4.5	22.3	33.3	70	1.2	25.4	4.6	138	2.70	11.3	1.3	4.5	4.8	34	0.3	0.6	0.3	54	0.08	0.098
118327	Soil		5.2	113.4	28.8	257	0.3	79.3	10.9	171	4.96	14.5	2.5	3.5	6.7	23	0.5	1.0	0.3	108	0.09	0.079
118328	Soil		6.5	69.4	15.3	139	0.4	43.4	5.4	138	3.66	12.4	1.7	<0.5	4.3	20	0.3	0.9	0.4	81	0.11	0.057
118329	Soil		6.1	78.7	14.3	173	0.6	56.1	10.9	187	4.24	10.2	1.9	1.2	4.2	22	0.4	0.8	0.3	138	0.12	0.080
118330	Soil		4.0	64.6	16.0	145	0.3	52.6	11.4	280	3.98	12.5	2.2	2.3	6.4	28	0.2	0.8	0.3	87	0.26	0.046
118331	Soil		1.7	28.8	16.0	83	0.6	29.6	7.9	115	3.89	8.5	1.5	0.9	11.0	16	<0.1	0.3	0.3	49	0.09	0.060
118332	Soil		1.3	26.4	13.2	85	0.5	27.6	7.2	149	3.19	8.9	1.0	<0.5	6.9	11	<0.1	0.6	0.2	51	0.08	0.036
118333	Soil		1.0	21.0	17.1	89	0.2	30.2	11.8	281	3.45	6.1	1.0	<0.5	8.6	23	0.1	0.4	0.2	58	0.30	0.040
118334	Soil		3.0	107.7	27.8	838	3.0	185.7	10.7	329	3.88	6.2	3.3	0.9	5.1	28	3.3	1.1	0.4	333	0.79	0.433
118335	Soil		4.5	113.4	16.1	434	0.9	141.7	14.3	279	4.08	48.1	2.9	4.9	7.2	21	2.0	1.1	0.2	284	0.58	0.142
118336	Soil		1.9	24.7	25.9	132	0.6	37.0	9.1	365	3.73	8.2	1.3	2.6	8.2	21	0.4	0.5	0.2	64	0.21	0.037
118337	Soil		4.7	171.2	28.1	383	0.8	158.9	24.5	748	3.89	38.8	5.2	2.0	6.8	64	1.1	1.8	0.4	196	0.24	0.230
118338	Soil		2.9	44.8	33.6	137	0.4	50.2	13.3	450	4.74	8.4	2.5	1.1	10.0	20	0.3	0.6	0.3	76	0.23	0.069
118339	Soil		9.1	116.6	15.1	370	0.3	104.5	15.2	283	4.10	21.7	2.4	2.7	8.3	24	0.9	1.0	0.3	157	0.33	0.132
118340	Soil		10.2	134.4	15.7	427	0.3	107.1	13.3	260	4.09	20.8	3.1	7.1	8.6	21	0.9	1.1	0.3	157	0.24	0.114
118341	Soil		8.1	94.5	15.5	128	1.5	46.2	19.0	301	4.47	15.2	1.5	1.2	3.4	45	0.5	1.7	0.3	148	0.07	0.081
118342	Soil		5.2	132.6	12.9	211	0.5	81.8	15.1	183	4.45	20.7	2.7	4.0	7.2	40	0.4	1.3	0.3	119	0.19	0.049
118343	Soil		1.6	47.2	13.6	107	0.3	260.9	30.0	721	3.83	30.0	0.8	9.6	4.4	39	0.4	1.7	0.3	74	0.54	0.056
118344	Soil		0.2	69.9	4.9	71	<0.1	428.0	21.8	343	3.59	17.0	1.0	11.9	4.8	13	<0.1	0.5	0.2	98	0.36	0.075
118345	Soil		6.6	23.0	30.6	51	<0.1	33.8	9.0	429	3.56	79.9	1.9	2.5	9.1	66	<0.1	0.7	0.2	69	0.47	0.086
118346	Soil		7.7	19.6	11.9	78	<0.1	14.6	9.3	834	3.56	22.1	1.9	0.6	9.2	48	<0.1	0.4	<0.1	75	0.62	0.148
118347	Soil		4.6	42.8	15.1	198	<0.1	99.2	20.0	1275	6.20	34.5	1.8	3.9	8.4	65	0.2	0.9	0.2	118	0.48	0.119
118348	Soil		2.5	30.9	19.0	169	<0.1	20.5	16.1	682	6.96	11.3	3.2	4.9	10.3	56	0.1	0.7	0.4	120	0.62	0.227
118349	Soil		0.3	63.5	10.1	83	<0.1	48.4	11.8	483	3.90	3.2	1.3	7.5	7.2	14	<0.1	0.3	0.2	73	0.21	0.054
118350	Soil		3.8	33.4	306.3	247	2.9	22.6	7.6	148	3.17	669.2	1.2	55.6	6.6	17	2.3	14.2	1.2	51	0.11	0.036
118351	Soil		1.3	21.9	33.7	65	0.2	25.5	10.4	200	2.87	26.0	0.7	31.4	9.6	19	0.2	0.9	0.3	66	0.15	0.014

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Project: Bishop
 Report Date: July 08, 2011

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CERTIFICATE OF ANALYSIS

WHI11000299.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
118322	Soil	16	56	0.08	1011	0.004	2	1.07	0.004	0.13	0.1	0.03	8.7	0.3	0.13	3	11.9	<0.2
118323	Soil	29	43	0.09	685	0.003	<1	1.19	0.004	0.19	<0.1	0.03	5.7	0.3	0.25	4	4.6	0.2
118324	Soil	57	49	0.89	1843	0.117	1	2.77	0.007	0.66	<0.1	<0.01	8.6	0.6	<0.05	8	1.2	<0.2
118325	Soil	18	39	0.09	311	0.008	<1	0.75	0.005	0.19	0.1	0.03	2.9	0.4	0.22	3	4.1	0.3
118326	Soil	15	36	0.18	716	0.018	<1	1.26	0.004	0.14	0.1	0.03	2.3	0.2	0.12	4	2.5	<0.2
118327	Soil	15	52	0.24	459	0.026	<1	1.26	0.005	0.13	0.1	0.02	4.7	0.2	0.05	4	2.8	<0.2
118328	Soil	9	24	0.12	423	0.009	<1	0.80	0.002	0.09	<0.1	0.02	2.7	0.2	<0.05	3	2.1	<0.2
118329	Soil	10	49	0.30	572	0.023	1	1.35	0.003	0.11	0.1	0.01	2.9	0.3	<0.05	5	1.9	<0.2
118330	Soil	15	39	0.28	516	0.032	<1	1.43	0.008	0.12	0.1	0.04	6.1	0.2	<0.05	4	1.3	<0.2
118331	Soil	23	28	0.34	399	0.048	<1	1.35	0.005	0.38	<0.1	0.01	3.7	0.3	<0.05	4	1.0	<0.2
118332	Soil	14	28	0.37	300	0.051	<1	1.45	0.005	0.23	<0.1	0.02	3.5	0.2	<0.05	4	0.9	<0.2
118333	Soil	29	34	0.71	718	0.087	<1	2.27	0.009	0.54	<0.1	<0.01	5.2	0.2	<0.05	6	<0.5	<0.2
118334	Soil	28	76	0.24	764	0.021	<1	1.51	0.003	0.07	0.2	0.03	6.4	0.1	<0.05	6	1.3	<0.2
118335	Soil	34	116	0.88	484	0.026	<1	1.89	0.004	0.18	0.1	0.02	8.2	0.3	<0.05	10	1.9	<0.2
118336	Soil	29	36	0.73	708	0.103	<1	2.38	0.008	0.43	0.1	0.02	6.1	0.3	<0.05	8	<0.5	<0.2
118337	Soil	21	83	0.20	4625	0.017	<1	1.62	0.003	0.16	0.5	0.03	8.3	0.4	<0.05	4	2.8	0.2
118338	Soil	25	36	0.39	652	0.053	<1	1.40	0.004	0.41	<0.1	0.02	6.1	0.4	<0.05	5	0.7	<0.2
118339	Soil	28	56	0.33	410	0.024	<1	1.39	0.005	0.13	0.2	<0.01	7.6	0.2	<0.05	4	3.0	<0.2
118340	Soil	32	51	0.22	368	0.015	<1	1.07	0.004	0.13	0.1	0.03	6.5	0.2	<0.05	4	3.5	<0.2
118341	Soil	4	34	0.12	442	0.009	<1	1.03	0.016	0.38	0.2	0.02	3.1	0.9	0.55	4	6.5	<0.2
118342	Soil	16	58	0.35	866	0.024	<1	1.79	0.006	0.15	0.1	0.04	9.6	0.3	0.06	6	4.8	<0.2
118343	Soil	15	125	0.92	667	0.070	<1	2.05	0.017	0.08	0.2	0.05	5.6	0.2	<0.05	6	<0.5	<0.2
118344	Soil	17	134	2.02	465	0.095	<1	2.68	0.004	0.27	<0.1	0.01	7.0	0.2	<0.05	9	<0.5	<0.2
118345	Soil	28	46	0.64	616	0.014	<1	2.04	0.021	0.20	0.2	0.01	7.4	0.4	0.16	6	<0.5	<0.2
118346	Soil	34	23	0.57	597	0.022	<1	2.00	0.013	0.14	0.3	0.01	7.2	0.2	<0.05	6	<0.5	<0.2
118347	Soil	23	152	1.48	1057	0.110	<1	2.72	0.015	0.63	0.2	<0.01	9.9	0.6	<0.05	11	<0.5	<0.2
118348	Soil	41	17	0.43	773	0.066	<1	2.26	0.010	0.16	<0.1	0.24	15.2	0.2	<0.05	9	<0.5	<0.2
118349	Soil	21	50	1.00	442	0.195	<1	2.22	0.008	0.89	<0.1	0.03	4.2	0.4	<0.05	8	<0.5	<0.2
118350	Soil	13	26	0.31	170	0.014	<1	1.86	0.005	0.08	0.1	0.02	2.2	0.2	<0.05	5	0.8	<0.2
118351	Soil	17	42	0.55	272	0.033	<1	2.66	0.007	0.06	0.1	0.02	3.7	0.1	<0.05	7	<0.5	<0.2

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Project: Bishop
 Report Date: July 08, 2011

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CERTIFICATE OF ANALYSIS

WHI11000299.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
118352	Soil	1.1	28.9	59.2	59	0.2	21.8	8.2	252	2.53	47.8	1.4	17.3	6.3	26	<0.1	1.6	0.2	54	0.22	0.015
118353	Soil	0.8	29.2	49.7	66	0.2	25.4	8.3	269	2.54	43.4	0.9	8.1	5.3	31	<0.1	1.2	0.2	55	0.36	0.028
118354	Soil	0.8	35.5	78.3	130	0.2	24.0	7.4	255	2.59	78.5	1.3	9.5	7.1	23	0.3	3.3	0.4	46	0.26	0.022
118355	Soil	1.2	31.8	38.9	83	0.3	24.3	8.8	281	2.65	27.0	1.0	3.5	5.5	30	0.1	1.4	0.3	57	0.32	0.027
118356	Soil	0.8	26.7	30.8	86	0.1	22.7	8.4	303	2.43	26.2	1.6	8.3	6.5	24	<0.1	1.8	0.3	49	0.28	0.017
118357	Soil	0.9	30.3	24.1	75	0.2	27.0	9.2	515	3.57	15.1	2.3	5.9	7.4	20	0.2	1.1	0.4	48	0.25	0.027
118358	Soil	1.3	37.6	20.7	70	<0.1	28.6	10.5	414	3.32	15.9	1.1	5.2	7.0	26	<0.1	1.1	0.3	54	0.33	0.024
118359	Soil	1.0	34.5	20.1	59	<0.1	30.4	9.2	520	3.07	12.0	1.3	4.9	13.6	27	<0.1	0.9	0.5	45	0.41	0.015
118360	Soil	0.9	30.2	25.8	64	<0.1	25.5	8.1	431	2.65	9.4	1.0	3.6	10.2	25	<0.1	1.0	0.5	42	0.36	0.022
118361	Soil	0.7	34.8	16.6	55	<0.1	27.4	11.0	421	2.97	11.7	1.3	3.9	11.1	25	<0.1	1.1	0.4	44	0.34	0.015
118362	Soil	0.9	34.5	17.3	77	<0.1	22.8	7.9	262	3.15	9.9	2.0	3.5	16.1	26	<0.1	0.6	0.3	41	0.35	0.023
118363	Soil	1.1	53.4	18.6	105	<0.1	73.2	16.1	627	4.03	8.6	3.0	4.6	10.5	23	0.1	0.5	0.4	69	0.40	0.063
118364	Soil	1.2	44.1	11.9	93	<0.1	34.1	9.7	347	4.07	8.7	3.2	3.7	11.8	23	<0.1	0.6	0.3	47	0.38	0.051
118365	Soil	1.2	37.9	23.0	70	<0.1	27.7	9.3	669	3.42	11.9	2.3	3.6	19.7	28	<0.1	0.6	0.2	46	0.43	0.058
118366	Soil	0.9	30.8	12.3	68	<0.1	27.8	9.4	264	3.16	9.3	2.2	2.5	8.2	25	<0.1	0.5	0.2	51	0.40	0.048
118367	Soil	1.2	31.3	13.4	59	<0.1	25.7	11.9	370	3.09	11.7	1.9	9.2	7.2	29	<0.1	0.6	0.2	55	0.44	0.038
118368	Soil	2.5	32.5	32.5	75	<0.1	24.7	9.8	355	3.03	19.1	3.4	1.5	20.7	32	0.2	0.7	0.5	20	0.45	0.033
118369	Soil	4.1	89.8	16.8	128	0.2	55.9	15.4	399	4.31	21.9	2.1	3.4	8.9	17	0.3	0.7	0.8	130	0.14	0.059
118370	Soil	1.6	82.7	12.6	599	<0.1	68.9	19.8	432	4.96	32.6	1.3	5.8	6.4	17	0.4	0.3	0.8	92	0.28	0.070
118371	Soil	1.2	47.1	12.9	82	<0.1	34.0	10.8	357	3.66	27.0	1.8	4.7	6.5	27	<0.1	1.0	0.4	69	0.41	0.072
118372	Soil	1.5	70.5	14.7	141	0.1	53.1	15.2	325	4.83	57.9	1.2	8.4	8.8	25	0.2	0.6	0.7	94	0.38	0.079
118373	Soil	1.1	41.5	12.2	88	0.2	34.3	11.1	389	3.16	15.4	0.7	3.8	5.6	32	0.2	0.7	0.3	57	0.57	0.068
118374	Soil	1.2	38.8	12.6	88	0.2	33.9	11.5	471	3.02	13.5	0.6	3.3	5.4	33	0.3	0.8	0.2	54	0.79	0.070
118375	Soil	1.0	33.7	14.1	64	0.2	28.4	11.1	442	2.88	12.0	2.1	5.4	6.1	33	0.2	0.6	0.2	56	0.57	0.056
118376	Soil	1.1	30.9	11.2	68	0.1	26.8	10.9	428	2.79	11.9	1.2	4.9	5.6	32	0.2	0.6	0.2	55	0.55	0.060
118377	Soil	0.8	26.7	10.5	61	<0.1	22.8	8.4	274	2.55	10.5	1.1	3.3	5.8	28	0.1	0.5	0.2	48	0.45	0.064
118378	Soil	1.0	26.2	10.6	64	0.1	22.9	9.1	302	2.69	11.0	1.0	3.4	5.1	28	0.1	0.5	0.2	51	0.45	0.063
118379	Soil	1.0	21.4	11.0	57	<0.1	19.8	8.2	246	2.50	9.5	0.9	7.7	5.3	25	0.1	0.5	0.2	48	0.36	0.053
118380	Soil	0.9	31.1	12.8	61	0.1	25.8	10.4	386	2.81	12.5	1.8	2.2	6.8	33	<0.1	0.6	0.2	52	0.54	0.060
118381	Soil	1.1	20.1	17.7	64	0.2	16.3	7.3	249	2.50	12.1	2.7	4.9	14.3	24	0.1	0.6	0.4	39	0.41	0.051

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
118352	Soil	20	30	0.44	389	0.053	<1	1.67	0.010	0.05	0.1	0.04	5.0	0.1	<0.05	5	0.7	<0.2
118353	Soil	17	32	0.45	390	0.065	<1	1.74	0.014	0.06	0.1	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
118354	Soil	21	27	0.31	303	0.048	<1	1.47	0.009	0.08	0.1	0.04	4.1	0.1	<0.05	4	<0.5	<0.2
118355	Soil	18	28	0.38	328	0.068	<1	1.79	0.015	0.07	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
118356	Soil	20	29	0.38	310	0.041	<1	1.48	0.009	0.07	<0.1	0.02	4.3	<0.1	<0.05	4	0.5	<0.2
118357	Soil	22	32	0.42	353	0.028	<1	1.61	0.009	0.07	0.2	0.03	5.0	0.1	<0.05	5	<0.5	<0.2
118358	Soil	19	35	0.52	436	0.049	<1	1.90	0.013	0.07	0.1	0.05	5.5	0.1	<0.05	6	<0.5	<0.2
118359	Soil	23	32	0.39	431	0.017	<1	2.12	0.010	0.12	<0.1	0.05	5.6	0.2	<0.05	6	<0.5	<0.2
118360	Soil	24	28	0.43	379	0.028	<1	1.64	0.012	0.11	0.2	0.03	4.3	0.2	<0.05	5	<0.5	<0.2
118361	Soil	32	28	0.39	373	0.025	7	2.00	0.009	0.12	<0.1	0.05	5.4	0.2	<0.05	6	<0.5	<0.2
118362	Soil	52	29	0.52	418	0.021	<1	1.95	0.011	0.13	0.1	0.03	5.4	0.2	<0.05	7	<0.5	<0.2
118363	Soil	33	75	0.60	476	0.009	<1	1.99	0.007	0.21	<0.1	0.03	8.3	0.2	<0.05	8	<0.5	<0.2
118364	Soil	35	30	0.39	446	0.007	<1	1.89	0.009	0.16	<0.1	0.03	5.8	0.2	<0.05	6	<0.5	<0.2
118365	Soil	49	27	0.49	480	0.007	<1	2.39	0.013	0.19	<0.1	0.07	6.6	0.2	<0.05	7	<0.5	<0.2
118366	Soil	23	36	0.55	345	0.049	<1	1.84	0.010	0.19	0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
118367	Soil	19	36	0.53	358	0.052	<1	1.99	0.015	0.07	0.1	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
118368	Soil	52	14	0.27	439	0.002	<1	1.30	0.010	0.16	<0.1	0.06	5.1	0.4	<0.05	3	<0.5	<0.2
118369	Soil	15	68	1.06	466	0.112	1	3.03	0.010	0.40	0.4	0.02	4.8	0.6	0.05	9	0.7	<0.2
118370	Soil	20	63	1.14	408	0.154	<1	2.82	0.012	0.85	0.3	0.01	6.8	0.8	<0.05	9	<0.5	<0.2
118371	Soil	20	42	0.72	384	0.089	<1	2.24	0.014	0.23	0.2	0.04	6.4	0.3	<0.05	7	<0.5	<0.2
118372	Soil	25	65	1.12	509	0.155	<1	3.05	0.014	0.85	0.2	0.02	6.6	0.7	0.05	9	<0.5	<0.2
118373	Soil	17	36	0.63	444	0.083	1	1.85	0.022	0.11	0.2	0.04	4.7	0.1	0.07	6	<0.5	<0.2
118374	Soil	16	33	0.67	456	0.069	<1	1.66	0.023	0.08	0.2	0.05	4.3	0.1	0.05	5	<0.5	<0.2
118375	Soil	18	33	0.56	431	0.068	1	1.87	0.021	0.07	0.2	0.03	4.3	<0.1	0.07	5	<0.5	<0.2
118376	Soil	17	34	0.54	364	0.075	<1	1.78	0.019	0.07	0.2	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
118377	Soil	17	32	0.51	299	0.065	1	1.71	0.017	0.06	0.2	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
118378	Soil	16	31	0.50	306	0.069	<1	1.75	0.015	0.06	0.2	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
118379	Soil	16	30	0.46	269	0.060	<1	1.65	0.013	0.06	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
118380	Soil	18	33	0.50	337	0.065	<1	1.73	0.018	0.07	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
118381	Soil	27	25	0.39	180	0.041	<1	1.59	0.014	0.12	0.2	0.03	3.7	0.1	0.06	5	<0.5	<0.2

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Project: Bishop
 Report Date: July 08, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
119341	Soil	0.9	46.2	11.0	90	<0.1	47.1	17.2	408	4.73	7.9	1.4	2.1	16.6	16	<0.1	0.3	0.2	69	0.30	0.073
119342	Soil	0.7	53.3	14.0	94	<0.1	40.7	14.0	402	3.89	11.2	1.6	5.1	14.2	19	<0.1	0.4	0.2	61	0.36	0.083
119343	Soil	1.0	61.9	11.6	128	<0.1	55.9	14.4	319	5.26	7.8	2.4	3.8	21.1	14	<0.1	0.1	0.3	84	0.31	0.107
119344	Soil	1.2	67.2	20.2	140	<0.1	59.4	14.9	462	5.49	12.4	1.4	11.8	23.3	9	<0.1	0.2	0.3	94	0.30	0.092
119345	Soil	1.3	34.5	9.2	63	<0.1	21.0	12.1	721	4.36	10.1	0.9	1.9	9.8	11	<0.1	0.3	0.3	57	0.11	0.024
119346	Soil	1.0	33.3	9.7	61	<0.1	13.6	5.0	515	3.45	7.1	3.8	2.0	17.9	8	<0.1	0.4	0.5	30	0.10	0.019
119347	Soil	0.7	21.0	14.2	90	<0.1	34.6	15.4	400	4.48	10.5	0.9	0.8	9.2	15	<0.1	0.6	0.2	62	0.17	0.016
119348	Soil	2.8	53.8	19.7	74	<0.1	38.7	7.6	373	3.45	10.1	3.5	2.6	7.0	12	<0.1	0.5	0.4	61	0.15	0.052
119349	Soil	0.7	25.4	10.6	71	<0.1	14.5	9.1	611	4.87	15.4	1.4	<0.5	8.9	10	<0.1	0.3	0.3	64	0.13	0.045
119350	Soil	0.7	35.8	18.0	88	<0.1	40.0	17.1	643	5.48	10.9	1.1	0.9	13.6	9	<0.1	0.3	0.3	62	0.10	0.014
119351	Soil	1.3	22.1	14.6	73	0.3	36.4	12.8	261	3.54	8.0	0.7	<0.5	5.5	9	<0.1	0.4	0.2	60	0.12	0.020
119352	Soil	1.2	59.3	9.9	101	0.1	80.8	10.6	303	3.05	14.9	1.5	7.6	4.7	19	0.2	0.5	0.2	82	0.15	0.026
119353	Soil	1.7	56.1	6.8	66	0.2	24.1	19.2	376	5.14	3.9	0.4	0.9	1.2	25	0.1	0.4	0.1	141	0.40	0.099
119354	Soil	1.4	37.0	17.6	69	0.1	29.8	10.9	313	3.04	7.4	1.3	3.0	5.5	16	<0.1	0.5	0.4	59	0.29	0.051
119355	Soil	0.8	29.6	9.4	59	0.1	26.3	10.2	367	2.76	8.2	0.8	2.3	4.2	22	<0.1	0.5	0.2	61	0.33	0.046
119356	Soil	1.4	71.5	11.1	109	<0.1	57.0	15.6	419	4.79	4.0	1.3	4.8	6.3	19	0.1	0.2	0.3	97	0.38	0.115
119357	Soil	1.1	43.4	8.0	91	<0.1	52.0	14.9	386	4.16	8.9	0.9	2.9	4.8	27	0.1	0.4	0.2	85	0.55	0.112
119358	Soil	1.0	45.6	11.9	113	0.4	55.8	14.3	423	2.96	8.8	0.7	3.1	4.6	24	0.5	0.8	0.2	82	0.94	0.070
119359	Soil	1.9	87.8	11.2	361	0.6	109.1	18.0	240	3.15	7.1	1.7	5.4	6.1	24	1.6	0.8	0.2	141	0.62	0.113
119360	Soil	1.6	68.4	14.8	132	0.3	41.8	11.2	370	2.71	7.6	1.6	4.4	3.1	27	0.5	0.6	0.2	96	1.01	0.062
119361	Soil	1.4	16.8	11.0	57	0.1	21.6	8.0	233	2.97	12.7	0.8	3.7	5.4	24	<0.1	0.7	0.2	64	0.30	0.026
119362	Soil	0.6	15.0	11.4	39	<0.1	10.7	3.8	108	1.39	4.4	4.1	1.4	12.6	14	<0.1	0.4	0.3	32	0.17	0.012
119363	Soil	0.6	13.2	9.3	41	<0.1	10.3	3.9	115	1.26	3.7	2.8	2.0	12.1	15	<0.1	0.3	0.3	31	0.19	0.017
119364	Soil	1.6	10.3	9.4	46	<0.1	13.3	7.0	235	2.18	7.3	0.9	3.5	3.4	18	<0.1	0.4	0.2	49	0.24	0.024
119365	Soil	0.9	17.9	9.8	59	0.1	19.7	7.7	285	2.41	8.7	0.9	2.2	3.2	37	<0.1	0.5	0.2	53	0.28	0.044
119366	Soil	1.3	21.9	11.2	52	0.3	17.6	7.8	282	2.73	10.4	0.9	1.6	2.6	37	0.2	0.4	0.2	64	0.29	0.049
119367	Soil	1.5	20.1	11.9	64	0.2	19.4	8.5	356	3.14	11.1	1.0	2.2	3.1	33	0.1	0.5	0.2	76	0.27	0.048
119368	Soil	1.3	16.5	10.5	65	0.1	19.0	8.2	298	3.11	11.0	0.7	3.9	3.0	26	0.1	0.5	0.2	74	0.20	0.036
119369	Soil	1.3	34.6	13.1	53	0.6	18.7	7.7	405	2.53	8.0	1.8	1.4	1.5	36	0.4	0.4	0.2	59	0.27	0.044
119370	Soil	1.0	16.2	11.9	51	0.1	13.7	7.2	269	2.41	7.5	1.0	<0.5	4.0	44	0.1	0.3	0.2	59	0.35	0.045

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Project: Bishop
Report Date: July 08, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
119341	Soil	46	57	1.05	414	0.254	<1	2.84	0.009	1.08	<0.1	0.01	5.2	0.6	0.07	9	<0.5	<0.2
119342	Soil	39	44	0.72	308	0.114	<1	2.31	0.011	0.45	0.1	0.04	5.4	0.3	0.10	6	<0.5	<0.2
119343	Soil	57	55	1.08	590	0.218	<1	3.01	0.012	1.19	<0.1	0.01	6.1	0.7	0.07	9	<0.5	<0.2
119344	Soil	126	62	1.05	332	0.293	<1	2.81	0.008	1.39	<0.1	<0.01	4.1	1.0	0.08	8	<0.5	<0.2
119345	Soil	9	27	0.56	223	0.246	<1	2.31	0.010	0.69	0.2	<0.01	10.7	0.7	0.09	11	<0.5	<0.2
119346	Soil	41	16	0.37	119	0.160	<1	1.72	0.006	0.44	0.2	0.01	10.2	0.7	0.07	9	<0.5	<0.2
119347	Soil	28	61	1.04	257	0.294	<1	3.05	0.010	0.79	0.2	<0.01	6.2	0.7	0.07	11	<0.5	<0.2
119348	Soil	15	40	0.82	259	0.118	<1	2.04	0.006	0.42	0.1	0.01	3.8	0.4	0.09	7	1.2	<0.2
119349	Soil	18	22	0.59	238	0.309	<1	2.65	0.008	1.01	0.2	0.01	14.1	0.9	0.10	15	<0.5	<0.2
119350	Soil	32	67	1.49	258	0.351	<1	4.12	0.008	1.30	0.2	0.01	6.8	1.1	0.07	12	<0.5	<0.2
119351	Soil	15	43	0.76	216	0.186	<1	2.25	0.008	0.49	0.1	0.02	3.4	0.4	<0.05	7	<0.5	<0.2
119352	Soil	19	138	0.94	1607	0.105	<1	1.89	0.006	0.15	0.1	0.03	6.6	0.1	<0.05	6	<0.5	<0.2
119353	Soil	3	27	1.04	403	0.159	<1	2.04	0.020	0.15	0.1	0.02	7.9	0.1	<0.05	10	<0.5	<0.2
119354	Soil	18	34	0.53	324	0.068	2	1.42	0.007	0.15	0.1	0.02	5.0	0.1	<0.05	5	<0.5	<0.2
119355	Soil	14	35	0.50	376	0.067	<1	1.48	0.010	0.05	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
119356	Soil	22	62	1.11	697	0.216	<1	2.38	0.008	1.17	0.1	0.02	5.6	0.5	<0.05	8	1.0	<0.2
119357	Soil	19	70	1.26	579	0.200	<1	2.43	0.009	0.58	0.2	0.02	6.0	0.2	<0.05	9	<0.5	<0.2
119358	Soil	21	42	0.64	500	0.076	<1	1.70	0.011	0.13	0.1	0.05	4.6	0.2	<0.05	5	<0.5	<0.2
119359	Soil	25	41	0.53	673	0.086	<1	1.44	0.009	0.32	0.2	0.06	4.1	0.7	<0.05	5	0.5	<0.2
119360	Soil	16	30	0.36	376	0.042	<1	1.28	0.008	0.05	0.2	0.06	3.0	0.2	<0.05	4	0.9	<0.2
119361	Soil	9	39	0.43	275	0.056	<1	1.92	0.006	0.09	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
119362	Soil	27	18	0.24	155	0.064	<1	0.96	0.008	0.05	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
119363	Soil	25	16	0.25	154	0.068	<1	0.96	0.009	0.07	0.1	0.01	2.3	0.1	<0.05	3	<0.5	<0.2
119364	Soil	10	25	0.37	227	0.048	<1	1.52	0.007	0.05	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
119365	Soil	13	27	0.48	335	0.066	1	1.74	0.011	0.04	0.3	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
119366	Soil	13	29	0.41	460	0.050	2	2.05	0.011	0.05	0.2	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
119367	Soil	14	32	0.52	408	0.091	2	2.28	0.010	0.07	0.3	0.03	4.3	<0.1	<0.05	7	<0.5	<0.2
119368	Soil	12	32	0.52	341	0.087	<1	2.17	0.008	0.04	0.3	0.04	3.4	0.1	<0.05	7	<0.5	<0.2
119369	Soil	19	26	0.40	489	0.057	<1	1.93	0.009	0.04	0.3	0.04	3.6	<0.1	<0.05	6	<0.5	<0.2
119370	Soil	14	26	0.45	302	0.081	<1	1.87	0.015	0.03	0.2	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
119371	Soil	1.5	15.5	41.2	78	0.3	13.4	7.5	764	3.50	8.8	0.9	2.5	5.5	149	0.1	0.5	0.1	86	0.40	0.044
119372	Soil	1.2	17.1	16.9	71	0.3	18.0	8.8	494	3.21	9.1	0.8	0.8	5.0	61	0.2	0.5	0.2	75	0.25	0.029
119373	Soil	0.6	12.7	14.0	71	<0.1	8.5	7.3	332	3.71	4.6	1.0	1.1	6.7	247	<0.1	0.2	<0.1	79	0.67	0.090
119374	Soil	1.1	21.0	14.9	59	0.2	21.7	8.9	328	2.95	10.3	0.7	2.4	5.2	52	0.2	0.5	0.2	71	0.25	0.021
119375	Soil	1.4	14.4	16.4	52	0.1	15.4	7.8	529	2.92	10.1	0.4	1.3	3.4	46	0.1	0.5	0.1	70	0.19	0.029
119376	Soil	0.9	18.6	19.2	64	<0.1	20.4	8.5	396	2.92	12.1	0.6	<0.5	4.9	55	<0.1	0.5	0.1	66	0.22	0.023
119377	Soil	1.5	11.8	16.9	45	0.2	10.5	7.4	384	3.02	5.7	0.5	1.4	3.3	101	0.2	0.4	0.2	71	0.29	0.047
119378	Soil	1.1	32.1	16.0	66	<0.1	24.9	9.8	266	2.91	12.9	1.3	3.0	6.5	43	<0.1	0.7	0.2	61	0.24	0.019
119379	Soil	3.3	21.3	249.0	132	0.5	12.4	8.8	447	4.13	43.0	1.2	2.7	7.2	808	0.5	1.3	0.6	84	0.47	0.046
119380	Soil	1.6	19.6	18.4	68	0.2	20.2	9.2	239	3.45	37.2	0.5	6.4	3.8	59	0.2	0.7	0.4	70	0.17	0.029
119381	Soil	2.5	12.4	20.2	55	0.2	15.6	9.4	272	3.36	20.8	0.6	2.8	4.0	32	0.2	0.5	0.4	80	0.21	0.035
119382	Soil	1.9	17.5	14.1	60	0.1	22.1	9.3	288	3.12	13.9	0.5	2.5	3.9	31	0.1	0.6	0.2	74	0.21	0.024
119383	Soil	1.8	16.3	19.9	115	0.2	19.9	11.0	723	3.11	15.9	1.0	4.5	7.5	104	0.9	0.6	0.2	58	0.30	0.060
119384	Soil	2.9	35.4	21.5	139	<0.1	18.7	8.3	297	5.85	30.4	1.9	19.2	12.5	251	0.5	0.7	0.3	104	0.46	0.104
119385	Soil	5.0	39.1	21.9	183	0.2	22.7	13.8	294	3.87	72.4	2.8	38.6	16.6	166	0.5	1.7	0.3	55	0.25	0.031
119386	Soil	2.1	17.0	40.3	115	2.2	21.0	8.1	240	3.11	76.8	0.5	61.0	4.2	7	1.0	1.9	0.3	64	0.05	0.035
119387	Soil	1.2	31.3	12.5	55	0.1	23.9	10.3	287	2.59	13.2	8.8	1.7	5.3	26	<0.1	0.7	0.3	57	0.39	0.033
119388	Soil	1.0	25.5	10.8	51	0.1	20.3	9.4	288	2.29	10.7	3.0	1.5	3.4	33	0.2	0.6	0.2	50	0.51	0.060
119389	Soil	0.8	24.3	13.6	46	<0.1	19.1	5.9	153	1.70	10.5	3.3	8.7	8.6	16	<0.1	0.3	0.6	40	0.23	0.020
119390	Soil	0.8	29.4	14.0	52	<0.1	19.8	6.9	168	1.95	12.1	2.9	1.7	8.8	21	<0.1	0.4	0.5	45	0.29	0.023
119391	Soil	0.9	34.2	10.8	62	0.1	26.3	10.3	373	2.62	12.4	0.8	4.3	4.4	34	0.1	0.8	0.2	51	0.51	0.065
119392	Soil	1.0	21.1	30.1	76	0.1	32.7	6.1	180	2.01	8.9	1.2	3.2	7.6	20	0.1	0.6	0.3	28	0.26	0.024
119393	Soil	1.3	29.0	29.9	82	0.1	25.0	8.8	357	3.07	18.5	1.4	4.2	7.3	34	0.1	0.7	0.4	51	0.37	0.038
119394	Soil	0.9	18.0	17.0	56	<0.1	20.0	6.9	314	2.46	10.1	1.4	8.9	6.0	30	<0.1	0.5	0.2	56	0.32	0.041
119395	Soil	1.5	31.6	21.2	78	0.1	27.5	9.6	478	2.58	12.1	1.2	2.6	8.1	34	0.2	0.7	0.3	47	0.39	0.055
119396	Soil	1.3	20.4	20.0	69	<0.1	22.4	8.7	324	2.86	9.8	2.2	2.6	10.6	44	<0.1	0.4	0.3	53	0.38	0.057
119397	Soil	1.8	19.9	28.1	73	0.2	31.5	9.3	619	2.58	12.1	3.0	2.1	14.1	32	0.2	0.4	0.3	19	0.34	0.027
119398	Soil	1.2	25.2	15.6	89	0.1	65.6	8.3	297	1.48	12.5	1.5	1.1	8.4	21	0.2	0.3	0.2	18	0.28	0.008
119399	Soil	0.8	39.8	5.1	71	<0.1	67.9	31.1	678	4.75	5.5	2.7	0.8	7.0	27	<0.1	0.2	0.2	105	0.42	0.046
119400	Soil	2.0	61.0	11.4	87	<0.1	26.4	9.7	219	2.65	5.0	2.7	6.6	7.2	19	0.1	0.3	0.2	84	0.05	0.028

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Project: Bishop
 Report Date: July 08, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	0.5	0.2	
119371	Soil	16	26	0.58	498	0.126	<1	2.63	0.023	0.05	0.2	0.02	5.7	0.2	<0.05	8	<0.5	<0.2
119372	Soil	15	34	0.58	393	0.083	<1	2.35	0.011	0.06	0.2	0.02	5.5	0.1	<0.05	7	0.5	<0.2
119373	Soil	18	17	0.88	387	0.053	<1	3.67	0.021	0.05	0.2	0.01	6.0	<0.1	<0.05	10	<0.5	<0.2
119374	Soil	15	35	0.51	294	0.056	<1	2.49	0.013	0.03	0.1	0.03	4.2	0.1	<0.05	7	<0.5	<0.2
119375	Soil	10	28	0.44	272	0.058	<1	2.21	0.011	0.03	0.2	0.02	2.8	0.1	<0.05	7	<0.5	<0.2
119376	Soil	15	33	0.52	298	0.042	<1	2.50	0.011	0.03	0.1	0.02	3.6	0.1	<0.05	6	<0.5	<0.2
119377	Soil	10	21	0.33	278	0.057	<1	2.19	0.016	0.03	0.2	0.02	2.7	0.1	<0.05	7	0.5	<0.2
119378	Soil	21	34	0.54	276	0.054	<1	1.93	0.010	0.05	0.1	0.02	5.0	0.1	<0.05	5	<0.5	<0.2
119379	Soil	16	23	0.47	683	0.040	<1	3.14	0.031	0.11	0.1	0.02	4.7	0.6	<0.05	8	<0.5	<0.2
119380	Soil	11	31	0.47	295	0.043	<1	2.55	0.008	0.04	0.1	0.03	3.2	0.2	<0.05	7	0.6	<0.2
119381	Soil	11	27	0.43	306	0.058	<1	2.37	0.008	0.05	0.2	0.02	2.8	0.2	<0.05	9	<0.5	<0.2
119382	Soil	12	34	0.49	290	0.057	<1	2.44	0.009	0.05	0.1	0.03	3.4	0.1	<0.05	7	<0.5	<0.2
119383	Soil	17	27	0.39	336	0.024	<1	2.32	0.009	0.08	<0.1	0.02	2.6	0.3	<0.05	7	<0.5	<0.2
119384	Soil	35	27	0.87	521	0.088	<1	3.34	0.011	0.30	<0.1	<0.01	7.8	0.4	<0.05	12	0.8	<0.2
119385	Soil	48	31	0.41	637	0.020	<1	2.39	0.010	0.22	<0.1	0.02	6.3	0.4	<0.05	7	0.7	<0.2
119386	Soil	9	32	0.38	166	0.029	1	2.29	0.005	0.07	0.2	0.03	2.5	0.1	<0.05	6	<0.5	<0.2
119387	Soil	15	34	0.47	312	0.056	1	1.64	0.012	0.05	0.2	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
119388	Soil	12	26	0.43	306	0.049	<1	1.34	0.013	0.05	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
119389	Soil	18	22	0.30	285	0.042	<1	1.23	0.010	0.16	<0.1	0.01	2.9	0.2	<0.05	4	<0.5	<0.2
119390	Soil	19	25	0.36	321	0.045	1	1.40	0.013	0.17	<0.1	0.02	3.4	0.2	<0.05	5	<0.5	<0.2
119391	Soil	15	30	0.52	351	0.063	2	1.51	0.016	0.05	0.1	0.03	4.2	<0.1	<0.05	5	0.7	<0.2
119392	Soil	21	22	0.30	200	0.007	<1	1.04	0.007	0.09	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
119393	Soil	20	31	0.43	287	0.038	<1	1.94	0.012	0.13	<0.1	0.03	4.8	0.1	<0.05	6	<0.5	<0.2
119394	Soil	18	25	0.41	298	0.066	1	1.41	0.014	0.08	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
119395	Soil	21	27	0.46	358	0.036	<1	1.34	0.016	0.09	0.1	0.04	4.4	0.1	<0.05	5	0.5	<0.2
119396	Soil	25	20	0.36	382	0.043	<1	1.58	0.014	0.13	0.1	0.02	4.6	0.1	<0.05	6	0.7	<0.2
119397	Soil	30	13	0.16	236	0.002	<1	0.90	0.005	0.10	<0.1	0.05	3.6	0.2	<0.05	3	0.8	<0.2
119398	Soil	14	29	0.31	209	0.006	1	0.89	0.005	0.14	<0.1	0.06	3.4	0.1	<0.05	3	<0.5	<0.2
119399	Soil	16	185	1.28	178	0.021	<1	1.86	0.008	0.31	<0.1	0.04	13.6	0.3	<0.05	8	<0.5	<0.2
119400	Soil	19	35	0.57	272	0.109	<1	1.48	0.006	0.50	<0.1	0.03	7.9	0.3	<0.05	5	0.9	<0.2

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Project: Bishop
 Report Date: July 08, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	0.001
119401	Soil	0.5	49.6	11.2	45	<0.1	22.7	4.7	110	1.92	5.0	0.7	3.0	3.9	12	<0.1	0.3	0.2	51	0.07	0.029
119402	Soil	2.0	68.0	14.0	98	0.2	55.1	17.6	1207	3.99	12.2	1.4	5.7	5.6	26	0.2	0.8	0.3	77	0.36	0.047
120243	Soil	1.9	96.3	10.6	126	<0.1	42.8	11.7	293	2.23	8.8	1.6	<0.5	4.8	16	0.3	0.4	0.3	122	0.08	0.056
120244	Soil	1.6	27.6	11.5	70	0.3	30.2	11.1	1119	2.79	11.3	0.5	2.2	3.1	19	0.2	0.4	0.2	67	0.22	0.044
120245	Soil	2.0	59.9	12.2	101	<0.1	73.9	12.5	435	3.49	6.2	0.9	1.3	5.9	12	<0.1	0.3	0.2	117	0.27	0.056
120246	Soil	0.7	48.3	4.1	50	<0.1	65.8	12.8	460	2.47	2.8	0.6	1.4	2.1	13	<0.1	0.1	<0.1	76	0.34	0.055
120247	Soil	3.3	51.8	12.3	97	1.1	29.4	7.8	822	2.73	7.0	1.6	1.6	4.3	27	0.8	0.4	0.2	155	0.19	0.073
120248	Soil	1.6	47.1	5.8	100	0.2	73.0	16.4	451	4.38	17.8	0.6	1.1	4.3	19	0.1	0.3	0.1	183	0.36	0.081
120249	Soil	0.7	23.2	10.5	105	0.4	33.8	10.0	522	2.34	9.9	0.6	2.0	1.3	89	0.9	0.4	0.1	152	9.59	0.064
120250	Soil	0.3	44.6	18.7	68	<0.1	37.4	11.6	333	4.07	4.4	0.8	3.3	18.8	19	<0.1	0.2	0.2	61	0.37	0.064
120251	Soil	0.8	49.8	10.3	140	0.7	60.6	11.3	275	3.46	8.6	0.7	7.6	6.1	18	0.4	0.4	0.2	108	0.85	0.052
120252	Soil	2.8	87.9	7.8	195	0.6	81.0	20.0	479	4.51	8.9	1.6	5.9	5.6	16	0.6	0.3	0.1	190	0.66	0.069
120253	Soil	0.7	11.0	5.8	16	0.2	14.6	1.9	1308	0.73	8.2	0.7	<0.5	<0.1	129	0.2	0.5	0.1	24	19.80	0.033
120254	Soil	0.9	46.8	7.9	105	1.0	36.8	7.5	308	1.72	10.1	1.0	4.6	1.1	92	0.8	0.6	0.2	63	12.52	0.088
120255	Soil	4.4	45.2	15.6	70	0.3	25.3	6.0	112	3.66	15.7	1.2	2.2	3.9	15	0.2	0.5	0.3	91	0.10	0.056
120256	Soil	2.8	149.5	15.0	931	0.3	225.2	16.5	709	5.70	24.7	4.8	3.5	7.8	23	5.6	1.0	0.2	358	0.53	0.329
120257	Soil	0.7	32.1	4.4	188	0.3	81.3	7.6	362	1.40	13.5	0.7	3.1	1.5	248	2.9	0.4	<0.1	99	23.84	0.108
120258	Soil	0.8	39.6	8.7	67	0.5	32.0	9.7	310	2.26	11.2	0.6	4.3	2.3	38	0.6	0.7	0.1	48	3.88	0.051
120259	Soil	1.1	32.8	5.1	65	0.3	28.9	5.4	212	1.08	12.2	0.6	3.0	0.5	168	0.4	0.5	<0.1	67	18.61	0.067
120260	Soil	1.6	26.6	5.7	80	0.4	27.7	4.2	494	0.90	61.0	0.7	7.3	0.4	144	3.5	1.0	<0.1	137	23.46	0.090
120261	Soil	4.8	118.0	10.6	333	1.7	105.5	8.9	192	2.66	24.2	2.2	14.4	2.0	149	2.2	3.2	0.3	300	9.83	0.287
120262	Soil	1.1	42.5	9.6	120	0.6	36.4	10.1	779	2.35	11.4	0.7	7.1	1.5	118	0.7	1.0	0.2	70	8.05	0.053
120263	Soil	3.1	82.7	11.3	191	0.5	52.8	9.4	180	3.33	5.9	1.7	5.3	7.1	12	0.6	0.7	0.2	97	0.13	0.041
120264	Soil	3.2	51.6	13.6	122	0.9	47.9	11.5	239	3.43	20.0	0.9	3.2	5.1	14	0.6	1.0	0.2	87	0.15	0.078
120265	Soil	3.3	161.0	10.7	785	1.4	213.2	27.1	289	5.58	12.1	6.4	2.4	4.9	54	3.1	1.6	0.2	405	0.34	0.260
120266	Soil	3.9	72.1	14.8	132	0.3	37.7	24.9	706	3.70	7.4	1.7	<0.5	4.2	19	0.3	0.6	0.2	106	0.13	0.099
120267	Soil	2.7	52.6	12.7	113	0.5	54.9	12.1	314	3.54	13.7	1.8	5.8	5.4	19	0.3	0.7	0.2	108	0.22	0.065
120268	Soil	10.1	52.0	16.5	158	1.1	40.1	4.2	192	4.00	8.6	2.5	1.3	7.0	33	0.5	0.8	0.3	135	0.38	0.125
120269	Soil	1.3	18.7	13.9	88	0.3	23.0	7.0	527	2.34	8.7	2.4	2.1	29.8	12	0.4	0.4	0.3	37	0.14	0.046
120270	Soil	0.9	27.5	9.5	71	<0.1	10.4	5.9	322	2.85	5.6	2.5	<0.5	24.8	17	<0.1	0.2	0.5	31	0.28	0.047

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
119401	Soil	9	33	0.28	178	0.047	<1	0.96	0.003	0.20	<0.1	<0.01	3.0	0.2	<0.05	3	<0.5	<0.2
119402	Soil	18	52	0.78	310	0.103	2	1.82	0.016	0.21	0.2	0.06	6.8	0.2	<0.05	6	0.6	<0.2
120243	Soil	14	49	0.72	556	0.125	1	1.42	0.003	0.32	0.1	<0.01	5.3	0.4	<0.05	6	0.8	<0.2
120244	Soil	10	38	0.47	554	0.062	5	1.70	0.008	0.10	0.2	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
120245	Soil	26	119	1.29	648	0.153	1	2.28	0.011	0.62	0.1	0.01	5.8	0.4	<0.05	9	1.0	<0.2
120246	Soil	9	96	0.66	578	0.102	1	1.24	0.010	0.23	0.1	<0.01	6.2	0.1	<0.05	5	0.6	<0.2
120247	Soil	13	94	0.88	551	0.116	<1	1.81	0.007	0.34	<0.1	0.01	4.6	0.2	<0.05	7	1.1	<0.2
120248	Soil	5	115	1.54	973	0.261	1	2.85	0.009	1.00	<0.1	<0.01	8.8	0.3	<0.05	12	<0.5	<0.2
120249	Soil	14	35	0.37	516	0.035	2	1.62	0.012	0.05	0.1	0.06	3.9	<0.1	<0.05	4	0.6	<0.2
120250	Soil	54	48	0.95	554	0.205	<1	2.58	0.007	0.89	<0.1	0.04	3.8	0.6	<0.05	8	<0.5	<0.2
120251	Soil	28	63	0.97	609	0.098	<1	2.34	0.006	0.15	0.3	0.04	4.9	0.2	<0.05	7	0.7	<0.2
120252	Soil	22	100	1.01	404	0.081	1	2.17	0.010	0.05	0.1	0.04	9.7	0.2	<0.05	9	0.9	<0.2
120253	Soil	<1	5	4.51	165	0.002	3	0.09	0.007	<0.01	0.2	0.03	0.3	<0.1	0.14	<1	<0.5	<0.2
120254	Soil	8	24	0.51	276	0.033	2	1.12	0.015	0.03	0.1	0.11	2.2	<0.1	<0.05	3	0.8	<0.2
120255	Soil	7	37	0.25	438	0.026	<1	1.53	0.004	0.08	0.1	<0.01	3.3	0.1	<0.05	5	1.8	<0.2
120256	Soil	52	77	0.20	656	0.015	<1	1.38	0.003	0.09	0.2	0.06	7.8	0.4	<0.05	5	2.5	0.3
120257	Soil	15	33	0.97	498	0.025	1	0.78	0.004	0.04	0.1	0.05	2.8	0.4	0.07	3	1.1	<0.2
120258	Soil	15	24	0.42	263	0.026	1	1.10	0.011	0.05	0.2	0.09	2.7	<0.1	<0.05	3	1.0	<0.2
120259	Soil	5	18	1.14	158	0.010	3	0.62	0.007	0.03	0.1	0.08	1.1	0.1	<0.05	2	0.5	<0.2
120260	Soil	6	15	0.66	103	0.008	2	0.52	0.006	0.02	0.2	0.72	0.9	0.4	<0.05	2	1.2	<0.2
120261	Soil	10	54	0.66	258	0.012	2	0.70	0.005	0.05	0.3	0.50	3.9	0.3	<0.05	3	2.4	<0.2
120262	Soil	10	27	0.56	412	0.032	1	1.26	0.013	0.04	0.2	0.10	2.9	<0.1	<0.05	4	0.6	<0.2
120263	Soil	25	40	0.29	335	0.031	<1	1.10	0.003	0.07	<0.1	0.04	4.4	0.2	<0.05	4	2.2	<0.2
120264	Soil	12	44	0.41	267	0.029	1	1.86	0.006	0.07	0.2	0.05	3.4	0.2	<0.05	5	2.4	<0.2
120265	Soil	22	194	0.87	>10000	0.085	<1	2.61	0.013	0.12	0.2	0.04	10.0	0.3	<0.05	10	2.4	0.2
120266	Soil	14	39	0.45	473	0.067	<1	1.21	0.004	0.27	<0.1	0.02	4.3	0.3	<0.05	5	1.6	0.3
120267	Soil	29	65	0.57	691	0.066	<1	1.50	0.006	0.22	0.1	0.06	7.2	0.2	0.10	5	1.9	<0.2
120268	Soil	23	39	0.17	559	0.021	<1	0.93	0.004	0.20	0.2	0.03	3.0	0.3	0.24	4	6.9	<0.2
120269	Soil	59	23	0.26	272	0.032	<1	1.11	0.004	0.17	0.1	0.02	4.2	0.2	<0.05	6	0.8	<0.2
120270	Soil	59	14	0.44	243	0.127	<1	1.53	0.007	0.46	0.2	<0.01	3.7	0.4	<0.05	8	0.6	<0.2



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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	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
120271	Soil	1.5	34.2	13.4	84	<0.1	29.9	11.7	366	3.34	9.7	2.8	4.0	25.8	20	<0.1	0.6	0.4	65	0.28	0.033
120272	Soil	1.2	38.0	16.4	88	<0.1	32.9	10.0	397	3.82	11.9	4.3	4.9	37.3	21	0.1	0.6	0.4	55	0.34	0.042
120273	Soil	1.2	28.6	15.6	59	0.2	21.8	9.8	280	2.89	10.2	1.1	2.1	4.3	51	0.2	0.6	0.2	71	0.36	0.033
120274	Soil	1.9	21.6	25.1	86	0.1	15.1	8.4	457	3.01	9.2	1.1	4.9	5.0	124	0.2	0.6	0.3	65	0.51	0.070
120275	Soil	1.5	25.3	20.1	71	0.2	16.6	9.0	388	2.61	14.4	1.7	5.3	3.6	78	0.3	0.5	0.3	56	0.47	0.064
120276	Soil	1.6	26.6	14.2	72	0.1	20.9	12.4	740	2.62	19.1	1.2	3.1	3.3	38	0.5	0.6	0.2	56	0.60	0.085
120277	Soil	1.0	19.8	16.1	72	0.2	18.5	7.9	281	2.20	43.3	0.9	40.6	4.2	30	0.3	0.9	0.4	52	0.45	0.076
120278	Soil	0.9	24.0	14.8	63	0.1	18.9	8.8	224	2.39	29.0	1.1	3.1	4.4	26	0.2	0.7	0.3	55	0.37	0.063
120279	Soil	1.2	25.8	15.7	68	0.1	19.5	10.6	352	2.68	31.6	1.1	5.3	4.4	27	0.1	0.8	0.4	55	0.36	0.059
120280	Soil	1.2	23.1	15.4	61	<0.1	19.4	8.4	255	2.46	26.1	1.0	2.3	4.5	24	0.1	0.8	0.4	54	0.34	0.066
120281	Soil	1.2	20.9	14.7	69	0.1	19.3	8.1	253	2.65	22.0	0.9	2.1	3.9	24	0.2	0.7	0.3	55	0.35	0.062
120282	Soil	1.0	28.2	13.5	63	<0.1	25.2	9.3	322	2.90	12.1	1.3	3.1	5.4	29	<0.1	0.7	0.2	60	0.37	0.058
120283	Soil	1.5	22.2	15.4	50	<0.1	18.0	9.3	261	2.52	13.0	1.2	3.6	5.0	24	0.1	0.8	0.2	53	0.22	0.032
120284	Soil	1.3	20.7	15.1	56	<0.1	21.9	8.3	217	2.80	10.6	0.9	5.1	4.9	21	0.1	0.7	0.2	61	0.20	0.021
120285	Soil	1.3	23.4	14.6	55	<0.1	23.2	9.8	308	2.86	15.0	0.8	2.4	4.6	19	<0.1	0.7	0.2	66	0.20	0.022
120286	Soil	1.3	25.3	30.0	47	<0.1	16.3	8.8	260	2.04	15.4	1.7	3.2	7.0	19	0.1	1.3	0.2	41	0.21	0.030
120287	Soil	0.9	25.1	17.4	60	<0.1	19.3	9.3	289	2.16	11.0	1.6	3.0	6.4	21	0.2	0.9	0.2	45	0.34	0.043
120288	Soil	1.0	14.6	14.6	61	<0.1	15.4	8.2	340	2.14	18.6	0.9	6.3	4.3	27	0.2	0.9	0.2	45	0.38	0.076
120289	Soil	1.4	31.8	12.8	46	0.3	20.5	7.1	245	2.28	60.6	1.1	5.2	5.8	27	<0.1	1.3	0.7	48	0.34	0.037
120290	Soil	1.2	31.7	13.9	46	0.3	18.3	7.1	256	2.11	49.9	1.1	5.0	5.6	25	<0.1	1.2	0.6	46	0.34	0.038
120291	Soil	1.3	34.1	13.0	49	0.3	20.4	7.6	216	2.32	50.3	1.2	6.0	5.8	22	<0.1	1.2	0.6	47	0.28	0.037
120292	Soil	1.6	43.2	15.7	61	0.6	23.2	7.9	237	2.70	53.0	1.4	34.5	4.1	28	0.2	1.2	0.7	52	0.34	0.050
120293	Soil	1.2	31.2	10.6	48	0.2	18.9	7.1	220	2.15	41.2	1.3	68.0	5.7	23	0.1	1.0	0.6	45	0.31	0.043
120294	Soil	1.1	28.8	11.4	53	0.2	20.3	9.3	268	2.33	26.2	1.5	3.9	4.3	30	0.1	0.7	0.4	47	0.41	0.050
120295	Soil	1.4	20.9	18.8	119	0.2	19.8	9.1	280	2.94	52.8	0.8	3.7	4.8	20	0.5	0.9	0.6	49	0.24	0.039
120296	Soil	0.9	24.6	14.1	62	0.1	18.8	9.7	548	2.31	20.4	1.2	3.8	4.1	35	0.3	0.8	0.3	44	0.46	0.072
121243	Soil	6.7	85.5	5.3	365	0.1	110.7	8.5	156	3.42	3.2	3.2	1.7	7.4	13	1.0	0.5	0.2	308	0.83	0.425
121244	Soil	1.4	39.1	16.1	149	0.3	52.3	15.6	325	4.71	6.5	2.1	5.4	8.7	12	0.1	0.4	0.3	39	0.05	0.035
121245	Soil	2.0	22.7	11.0	72	0.4	29.5	8.8	163	3.81	11.3	0.9	1.4	5.3	9	<0.1	0.5	0.2	52	0.08	0.031
121246	Soil	2.2	34.9	21.2	118	0.2	24.3	10.1	142	4.78	8.7	1.8	1.5	7.8	12	0.1	0.5	0.3	88	0.07	0.059

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
120271	Soil	68	34	0.58	298	0.096	<1	2.03	0.011	0.28	0.2	0.03	6.7	0.3	<0.05	9	0.7	<0.2
120272	Soil	99	36	0.52	295	0.069	<1	1.94	0.005	0.37	<0.1	0.04	9.1	0.4	<0.05	12	1.1	<0.2
120273	Soil	18	34	0.48	337	0.068	<1	1.95	0.015	0.04	0.1	0.04	4.8	0.1	<0.05	6	<0.5	<0.2
120274	Soil	19	26	0.50	239	0.071	<1	1.82	0.019	0.07	0.2	0.02	3.9	0.1	<0.05	5	0.6	<0.2
120275	Soil	18	26	0.43	268	0.059	<1	1.75	0.016	0.05	0.2	0.04	3.9	0.1	<0.05	5	0.5	<0.2
120276	Soil	15	25	0.44	375	0.049	1	1.23	0.016	0.05	0.3	0.05	2.9	<0.1	<0.05	4	0.7	<0.2
120277	Soil	15	24	0.42	259	0.053	<1	1.21	0.015	0.05	0.4	0.05	2.7	<0.1	<0.05	4	0.5	<0.2
120278	Soil	14	27	0.43	287	0.047	<1	1.45	0.015	0.05	0.2	0.04	3.0	<0.1	<0.05	4	1.0	<0.2
120279	Soil	15	28	0.47	340	0.051	<1	1.54	0.012	0.05	0.1	0.04	3.4	<0.1	<0.05	5	0.6	<0.2
120280	Soil	16	28	0.42	282	0.048	<1	1.42	0.011	0.06	0.2	0.03	3.3	<0.1	<0.05	4	0.5	<0.2
120281	Soil	15	28	0.46	270	0.042	1	1.56	0.011	0.06	0.1	0.04	3.1	<0.1	<0.05	5	0.6	<0.2
120282	Soil	18	32	0.50	378	0.049	<1	1.72	0.012	0.06	<0.1	0.04	5.0	<0.1	<0.05	5	0.7	<0.2
120283	Soil	18	28	0.40	276	0.042	<1	1.46	0.010	0.06	0.1	0.03	3.6	0.1	<0.05	4	0.6	<0.2
120284	Soil	13	32	0.46	255	0.044	<1	1.89	0.009	0.06	0.1	0.07	3.1	0.1	<0.05	5	<0.5	<0.2
120285	Soil	13	33	0.45	255	0.044	<1	1.95	0.008	0.06	0.1	0.04	2.9	0.1	<0.05	5	<0.5	<0.2
120286	Soil	21	21	0.28	215	0.041	<1	1.11	0.008	0.07	0.1	0.09	3.1	0.2	<0.05	3	0.7	<0.2
120287	Soil	18	25	0.39	279	0.052	<1	1.28	0.011	0.06	0.1	0.07	3.2	0.1	<0.05	4	0.8	<0.2
120288	Soil	15	19	0.32	221	0.040	<1	1.04	0.011	0.05	0.3	0.03	2.3	<0.1	<0.05	3	0.5	<0.2
120289	Soil	18	29	0.42	299	0.058	<1	1.44	0.013	0.05	0.1	0.04	3.1	<0.1	<0.05	4	0.6	<0.2
120290	Soil	18	26	0.42	286	0.057	<1	1.31	0.013	0.05	0.1	0.05	3.0	<0.1	<0.05	4	0.5	<0.2
120291	Soil	18	29	0.41	307	0.053	<1	1.49	0.013	0.05	0.1	0.04	3.4	0.1	<0.05	4	0.5	<0.2
120292	Soil	16	31	0.38	334	0.056	1	1.76	0.014	0.06	0.1	0.05	3.4	<0.1	<0.05	5	0.7	<0.2
120293	Soil	17	26	0.41	303	0.053	<1	1.36	0.012	0.05	0.2	0.02	3.1	<0.1	<0.05	4	0.6	<0.2
120294	Soil	16	28	0.40	361	0.047	<1	1.52	0.014	0.05	0.1	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
120295	Soil	18	24	0.34	258	0.032	<1	1.27	0.008	0.05	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
120296	Soil	14	20	0.38	300	0.036	<1	1.01	0.017	0.05	0.2	0.05	2.5	<0.1	<0.05	3	0.9	<0.2
121243	Soil	33	108	0.60	393	0.015	<1	1.30	0.002	0.11	0.3	<0.01	5.3	0.1	<0.05	4	2.5	<0.2
121244	Soil	14	21	0.11	304	0.008	<1	0.52	0.003	0.09	<0.1	0.02	5.2	0.2	0.06	2	1.8	<0.2
121245	Soil	8	29	0.30	211	0.015	<1	1.43	0.004	0.08	0.1	0.03	3.0	0.1	<0.05	4	1.3	<0.2
121246	Soil	16	31	0.30	478	0.052	<1	1.08	0.002	0.36	<0.1	<0.01	7.5	0.5	<0.05	4	2.0	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
121247	Soil	1.6	49.6	17.6	99	<0.1	42.7	12.6	281	4.76	9.5	2.5	3.6	15.0	14	<0.1	0.4	0.3	46	0.15	0.091
121248	Soil	1.7	46.7	18.3	100	0.3	34.9	10.8	152	4.14	6.8	2.1	6.4	14.3	21	0.1	0.6	0.3	53	0.10	0.045
121249	Soil	2.7	39.2	13.1	109	0.3	34.7	14.1	361	3.57	12.8	1.2	1.8	4.6	13	0.8	0.6	0.2	62	0.08	0.089
121250	Soil	3.6	65.9	15.1	162	0.3	54.8	11.3	287	3.96	11.1	1.8	6.7	5.8	20	0.2	0.5	0.4	81	0.11	0.060
121251	Soil	1.9	62.6	13.8	117	0.1	50.1	16.3	463	3.65	14.2	1.2	7.9	6.5	25	0.3	0.7	0.3	83	0.18	0.027
121252	Soil	1.4	38.2	12.1	78	0.2	32.9	11.0	317	3.18	9.0	1.8	4.2	6.1	18	<0.1	0.5	0.2	60	0.14	0.032
121253	Soil	1.9	37.9	12.0	88	0.1	32.8	11.0	246	3.17	7.9	2.1	4.3	6.5	18	0.1	0.5	0.2	60	0.13	0.031
121254	Soil	1.9	35.8	13.7	96	0.2	32.3	11.7	253	3.20	6.5	1.5	4.7	6.5	16	0.2	0.5	0.2	54	0.10	0.035
121255	Soil	1.9	39.7	12.6	95	0.3	31.2	12.8	316	3.17	8.5	1.6	10.2	5.9	23	0.3	0.5	0.2	58	0.19	0.049
121256	Soil	1.1	34.7	12.8	84	0.2	28.5	12.2	439	2.66	9.6	1.5	2.7	4.7	26	0.3	0.6	0.2	51	0.33	0.060
121257	Soil	0.9	29.4	8.5	63	0.1	24.8	9.6	408	2.26	10.2	0.7	5.6	4.4	67	0.3	0.7	0.1	45	1.76	0.082
121258	Soil	1.4	24.1	10.9	86	0.1	25.7	9.8	454	2.41	9.1	1.2	3.3	4.4	31	0.5	0.6	0.2	54	0.43	0.084
121259	Soil	1.0	32.2	10.1	67	0.2	28.3	11.0	517	2.50	11.1	0.6	4.7	4.0	54	0.2	0.8	0.2	48	1.37	0.073
121260	Soil	0.9	27.5	8.8	62	0.1	25.7	9.2	423	2.28	9.7	0.6	4.5	4.2	57	0.3	0.6	0.1	45	1.57	0.080
121261	Soil	0.9	36.1	9.6	65	0.2	28.5	10.2	499	2.41	9.2	1.0	4.8	4.4	38	0.2	0.7	0.2	50	0.60	0.072
121262	Soil	1.0	23.6	9.8	64	0.1	20.8	6.8	334	2.24	9.7	1.1	4.1	3.9	32	0.2	0.7	0.1	48	0.52	0.068
121263	Soil	0.9	23.7	8.5	60	0.1	21.1	8.2	278	2.16	7.9	1.0	6.2	3.5	30	0.1	0.6	0.1	46	0.49	0.067



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
121247	Soil	34	25	0.33	393	0.044	<1	1.15	0.004	0.33	<0.1	0.01	5.7	0.4	<0.05	3	2.4	<0.2
121248	Soil	34	26	0.29	414	0.028	<1	1.14	0.008	0.21	<0.1	0.05	6.0	0.3	0.09	3	1.7	<0.2
121249	Soil	12	29	0.29	257	0.024	<1	1.50	0.004	0.11	0.1	0.01	2.7	0.2	<0.05	4	2.7	<0.2
121250	Soil	17	29	0.24	476	0.022	<1	0.88	0.003	0.13	<0.1	0.04	4.6	0.3	<0.05	3	1.9	<0.2
121251	Soil	22	37	0.39	490	0.058	<1	1.99	0.006	0.07	0.1	0.08	7.3	0.2	<0.05	5	1.1	<0.2
121252	Soil	16	30	0.36	481	0.031	<1	1.39	0.007	0.06	0.1	0.05	5.0	0.1	<0.05	4	1.1	<0.2
121253	Soil	14	31	0.35	467	0.042	<1	1.34	0.006	0.07	<0.1	0.03	3.9	0.1	<0.05	4	1.9	<0.2
121254	Soil	14	26	0.29	303	0.041	<1	1.14	0.005	0.10	<0.1	0.02	3.2	0.2	<0.05	3	1.1	<0.2
121255	Soil	16	30	0.34	462	0.047	<1	1.42	0.007	0.08	0.1	0.03	4.0	0.1	<0.05	4	1.4	<0.2
121256	Soil	16	29	0.40	451	0.049	<1	1.38	0.010	0.05	0.1	0.05	3.8	<0.1	<0.05	4	1.1	<0.2
121257	Soil	14	23	0.77	311	0.064	2	1.05	0.027	0.07	0.2	0.03	2.8	<0.1	<0.05	3	0.7	<0.2
121258	Soil	15	25	0.38	360	0.048	<1	1.11	0.012	0.05	0.3	0.04	2.8	<0.1	<0.05	3	1.0	<0.2
121259	Soil	13	25	0.72	392	0.059	<1	1.16	0.020	0.06	0.2	0.06	3.2	<0.1	<0.05	3	0.5	<0.2
121260	Soil	13	24	0.70	300	0.063	2	1.06	0.022	0.08	0.2	0.03	3.0	<0.1	<0.05	3	0.7	<0.2
121261	Soil	14	27	0.50	395	0.057	1	1.21	0.021	0.05	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
121262	Soil	13	23	0.39	317	0.043	<1	1.08	0.013	0.04	0.4	0.04	2.5	<0.1	<0.05	3	0.9	<0.2
121263	Soil	13	23	0.41	324	0.046	1	1.11	0.014	0.04	0.3	0.05	2.7	<0.1	<0.05	3	1.0	<0.2



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Project: Bishop
Report Date: July 08, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000299.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
118333	Soil	1.0	21.0	17.1	89	0.2	30.2	11.8	281	3.45	6.1	1.0	<0.5	8.6	23	0.1	0.4	0.2	58	0.30	0.040
REP 118333	QC	0.8	23.1	19.1	94	0.2	32.9	12.3	279	3.73	6.3	1.0	<0.5	9.2	24	<0.1	0.3	0.2	63	0.31	0.040
118354	Soil	0.8	35.5	78.3	130	0.2	24.0	7.4	255	2.59	78.5	1.3	9.5	7.1	23	0.3	3.3	0.4	46	0.26	0.022
REP 118354	QC	0.9	35.0	76.7	131	0.2	24.3	7.5	253	2.56	76.6	1.3	10.6	6.9	24	0.2	3.3	0.4	46	0.25	0.021
118367	Soil	1.2	31.3	13.4	59	<0.1	25.7	11.9	370	3.09	11.7	1.9	9.2	7.2	29	<0.1	0.6	0.2	55	0.44	0.038
REP 118367	QC	1.2	31.8	13.5	60	<0.1	26.0	12.1	365	3.10	12.0	1.9	3.3	7.1	29	<0.1	0.6	0.2	56	0.45	0.038
119346	Soil	1.0	33.3	9.7	61	<0.1	13.6	5.0	515	3.45	7.1	3.8	2.0	17.9	8	<0.1	0.4	0.5	30	0.10	0.019
REP 119346	QC	0.9	33.2	9.4	63	<0.1	13.7	4.9	514	3.61	7.4	3.9	2.0	18.6	8	<0.1	0.4	0.4	31	0.10	0.019
119363	Soil	0.6	13.2	9.3	41	<0.1	10.3	3.9	115	1.26	3.7	2.8	2.0	12.1	15	<0.1	0.3	0.3	31	0.19	0.017
REP 119363	QC	0.6	13.3	9.4	41	<0.1	10.5	4.0	114	1.27	3.7	2.8	0.6	12.3	16	<0.1	0.4	0.3	31	0.20	0.016
119369	Soil	1.3	34.6	13.1	53	0.6	18.7	7.7	405	2.53	8.0	1.8	1.4	1.5	36	0.4	0.4	0.2	59	0.27	0.044
REP 119369	QC	1.2	35.4	13.1	55	0.6	19.0	7.8	399	2.52	8.1	1.8	1.0	1.4	36	0.3	0.4	0.2	59	0.28	0.049
119389	Soil	0.8	24.3	13.6	46	<0.1	19.1	5.9	153	1.70	10.5	3.3	8.7	8.6	16	<0.1	0.3	0.6	40	0.23	0.020
REP 119389	QC	0.9	24.8	13.5	44	<0.1	19.3	6.2	154	1.73	11.2	3.3	2.8	8.7	17	<0.1	0.3	0.6	42	0.23	0.019
120251	Soil	0.8	49.8	10.3	140	0.7	60.6	11.3	275	3.46	8.6	0.7	7.6	6.1	18	0.4	0.4	0.2	108	0.85	0.052
REP 120251	QC	1.0	53.2	11.1	138	0.7	64.2	11.6	290	3.54	9.4	0.7	10.6	6.3	19	0.3	0.3	0.2	112	0.88	0.053
120258	Soil	0.8	39.6	8.7	67	0.5	32.0	9.7	310	2.26	11.2	0.6	4.3	2.3	38	0.6	0.7	0.1	48	3.88	0.051
REP 120258	QC	0.8	39.8	8.9	65	0.5	33.8	9.6	310	2.31	11.3	0.6	4.1	2.5	38	0.6	0.6	0.2	47	3.74	0.054
120275	Soil	1.5	25.3	20.1	71	0.2	16.6	9.0	388	2.61	14.4	1.7	5.3	3.6	78	0.3	0.5	0.3	56	0.47	0.064
REP 120275	QC	1.6	25.8	20.5	73	0.2	17.1	9.2	395	2.67	14.7	1.7	7.0	3.6	79	0.3	0.5	0.3	58	0.49	0.067
120282	Soil	1.0	28.2	13.5	63	<0.1	25.2	9.3	322	2.90	12.1	1.3	3.1	5.4	29	<0.1	0.7	0.2	60	0.37	0.058
REP 120282	QC	1.0	27.5	14.0	65	<0.1	23.9	9.1	316	2.84	12.0	1.2	4.2	5.5	29	0.1	0.7	0.2	61	0.37	0.057
121247	Soil	1.6	49.6	17.6	99	<0.1	42.7	12.6	281	4.76	9.5	2.5	3.6	15.0	14	<0.1	0.4	0.3	46	0.15	0.091
REP 121247	QC	1.6	49.9	17.2	99	0.1	43.6	12.6	281	4.74	9.3	2.4	4.7	14.5	13	0.1	0.5	0.3	47	0.14	0.085
121259	Soil	1.0	32.2	10.1	67	0.2	28.3	11.0	517	2.50	11.1	0.6	4.7	4.0	54	0.2	0.8	0.2	48	1.37	0.073
REP 121259	QC	0.9	32.0	9.9	69	0.2	29.6	11.0	519	2.55	11.4	0.6	3.6	4.0	54	0.2	0.8	0.2	49	1.39	0.073
Reference Materials																					
STD DS8	Standard	13.9	108.4	124.5	320	1.8	37.1	7.4	644	2.50	27.6	2.8	114.3	6.9	69	2.3	5.9	6.8	44	0.70	0.082



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Project: Bishop
 Report Date: July 08, 2011

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QUALITY CONTROL REPORT

WHI11000299.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
118333	Soil	29	34	0.71	718	0.087	<1	2.27	0.009	0.54	<0.1	<0.01	5.2	0.2	<0.05	6	<0.5	<0.2
REP 118333	QC	31	37	0.77	793	0.100	1	2.49	0.009	0.60	<0.1	0.01	5.9	0.3	<0.05	7	<0.5	<0.2
118354	Soil	21	27	0.31	303	0.048	<1	1.47	0.009	0.08	0.1	0.04	4.1	0.1	<0.05	4	<0.5	<0.2
REP 118354	QC	21	27	0.32	308	0.045	<1	1.49	0.009	0.08	<0.1	0.03	4.0	0.1	<0.05	4	<0.5	<0.2
118367	Soil	19	36	0.53	358	0.052	<1	1.99	0.015	0.07	0.1	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
REP 118367	QC	20	37	0.53	371	0.053	<1	1.98	0.013	0.07	0.1	0.02	5.2	0.1	<0.05	6	<0.5	<0.2
119346	Soil	41	16	0.37	119	0.160	<1	1.72	0.006	0.44	0.2	0.01	10.2	0.7	0.07	9	<0.5	<0.2
REP 119346	QC	40	16	0.38	119	0.164	<1	1.76	0.006	0.46	0.2	0.01	10.5	0.7	0.08	9	<0.5	<0.2
119363	Soil	25	16	0.25	154	0.068	<1	0.96	0.009	0.07	0.1	0.01	2.3	0.1	<0.05	3	<0.5	<0.2
REP 119363	QC	25	17	0.26	155	0.071	<1	0.97	0.010	0.08	<0.1	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2
119369	Soil	19	26	0.40	489	0.057	<1	1.93	0.009	0.04	0.3	0.04	3.6	<0.1	<0.05	6	<0.5	<0.2
REP 119369	QC	20	26	0.40	486	0.064	<1	2.03	0.010	0.04	0.3	0.04	4.1	<0.1	<0.05	7	<0.5	<0.2
119389	Soil	18	22	0.30	285	0.042	<1	1.23	0.010	0.16	<0.1	0.01	2.9	0.2	<0.05	4	<0.5	<0.2
REP 119389	QC	18	22	0.30	277	0.044	<1	1.26	0.011	0.17	<0.1	0.02	2.9	0.2	<0.05	4	<0.5	<0.2
120251	Soil	28	63	0.97	609	0.098	<1	2.34	0.006	0.15	0.3	0.04	4.9	0.2	<0.05	7	0.7	<0.2
REP 120251	QC	30	64	1.01	631	0.103	1	2.38	0.006	0.15	0.3	0.05	5.1	0.2	<0.05	8	<0.5	<0.2
120258	Soil	15	24	0.42	263	0.026	1	1.10	0.011	0.05	0.2	0.09	2.7	<0.1	<0.05	3	1.0	<0.2
REP 120258	QC	15	23	0.41	263	0.027	1	1.08	0.009	0.05	0.2	0.09	2.8	0.1	<0.05	3	0.6	<0.2
120275	Soil	18	26	0.43	268	0.059	<1	1.75	0.016	0.05	0.2	0.04	3.9	0.1	<0.05	5	0.5	<0.2
REP 120275	QC	17	27	0.45	259	0.062	<1	1.85	0.017	0.05	0.2	0.04	3.9	0.1	<0.05	5	<0.5	<0.2
120282	Soil	18	32	0.50	378	0.049	<1	1.72	0.012	0.06	<0.1	0.04	5.0	<0.1	<0.05	5	0.7	<0.2
REP 120282	QC	18	32	0.50	365	0.051	<1	1.72	0.013	0.06	0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
121247	Soil	34	25	0.33	393	0.044	<1	1.15	0.004	0.33	<0.1	0.01	5.7	0.4	<0.05	3	2.4	<0.2
REP 121247	QC	33	26	0.32	388	0.042	<1	1.09	0.003	0.33	<0.1	<0.01	5.8	0.4	<0.05	3	1.9	<0.2
121259	Soil	13	25	0.72	392	0.059	<1	1.16	0.020	0.06	0.2	0.06	3.2	<0.1	<0.05	3	0.5	<0.2
REP 121259	QC	13	26	0.73	390	0.062	2	1.19	0.021	0.07	0.2	0.04	3.4	<0.1	<0.05	4	1.2	<0.2
Reference Materials																		
STD DS8	Standard	15	122	0.62	299	0.119	3	0.92	0.092	0.43	3.0	0.20	2.1	5.4	0.14	5	5.6	5.7

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.



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Project: Bishop
 Report Date: July 08, 2011

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QUALITY CONTROL REPORT

WHI11000299.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 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
STD DS8	Standard	13.4	108.9	123.3	323	1.8	37.3	7.5	627	2.40	27.0	2.9	109.2	7.0	68	2.3	5.8	6.8	43	0.69	0.083
STD DS8	Standard	14.7	115.6	133.1	342	1.9	42.1	7.9	668	2.69	27.2	2.8	129.3	7.3	68	2.5	5.4	6.5	43	0.77	0.085
STD DS8	Standard	14.9	120.6	139.3	344	1.8	43.5	8.6	696	2.75	28.3	2.7	112.9	7.7	68	2.3	5.3	6.5	42	0.79	0.086
STD DS8	Standard	14.0	120.6	125.5	315	1.8	41.5	8.3	625	2.51	25.8	2.9	119.6	6.9	60	2.4	5.1	6.6	47	0.73	0.083
STD DS8	Standard	14.4	120.8	123.2	315	1.8	41.8	8.3	624	2.47	25.8	2.7	115.5	6.9	61	2.2	5.1	6.5	46	0.73	0.087
STD DS8	Standard	14.3	120.8	135.4	330	1.8	41.5	8.3	645	2.60	28.0	2.9	114.7	7.1	66	2.3	5.3	6.4	47	0.70	0.084
STD DS8	Standard	14.2	114.5	131.8	315	1.8	41.4	8.2	618	2.51	26.3	3.0	109.7	7.0	64	2.0	5.0	6.1	45	0.73	0.080
STD DS8	Standard	12.8	111.4	116.3	323	1.8	38.7	7.4	603	2.44	25.8	2.6	107.0	6.4	60	2.3	5.2	6.2	42	0.67	0.081
STD DS8	Standard	13.0	107.1	115.9	309	1.8	37.4	7.3	590	2.35	25.0	2.5	114.9	6.3	60	2.3	5.1	6.2	42	0.66	0.082
STD DS8	Standard	12.4	110.7	128.7	320	1.9	38.8	7.3	618	2.42	26.4	2.9	106.4	6.9	65	2.3	5.2	6.8	43	0.68	0.081
STD DS8	Standard	12.9	110.8	128.0	315	1.7	36.9	7.3	614	2.38	26.0	2.8	114.6	6.8	65	2.3	5.3	6.7	43	0.67	0.078
STD DS8	Standard	12.5	115.0	127.7	328	1.8	38.2	7.8	612	2.47	27.5	2.5	122.5	6.0	59	2.4	5.6	6.4	41	0.67	0.086
STD DS8	Standard	12.7	113.0	126.0	316	1.8	39.3	7.7	630	2.51	29.0	2.6	109.4	6.2	61	2.7	5.8	6.3	42	0.66	0.088
STD DS8	Standard	14.1	105.5	123.2	319	1.8	38.3	7.7	625	2.48	27.9	2.8	110.4	6.5	65	2.5	5.6	6.4	43	0.70	0.090
STD DS8	Standard	13.4	108.0	119.0	323	1.7	38.2	7.4	616	2.42	26.7	2.5	102.1	6.4	65	2.4	5.4	6.5	41	0.71	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



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Project: Bishop

Report Date: July 08, 2011

Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11000299.1

		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	0.01	0.05	1	0.5	0.2
STD DS8	Standard	15	118	0.61	287	0.115	2	0.91	0.095	0.43	3.1	0.18	1.9	5.6	0.12	5	5.0	5.4
STD DS8	Standard	16	134	0.68	286	0.128	3	1.03	0.097	0.44	3.4	0.21	2.4	5.8	0.23	5	5.8	5.6
STD DS8	Standard	17	140	0.68	280	0.134	3	1.07	0.098	0.43	3.4	0.23	2.5	5.8	0.29	5	5.8	5.8
STD DS8	Standard	14	126	0.62	267	0.117	2	0.90	0.084	0.46	3.0	0.22	2.1	5.6	0.18	5	5.6	5.2
STD DS8	Standard	15	128	0.63	280	0.119	2	0.93	0.087	0.44	3.0	0.21	2.2	5.3	0.19	5	5.8	5.2
STD DS8	Standard	15	130	0.64	287	0.125	3	0.96	0.096	0.44	3.0	0.24	2.2	5.7	0.07	5	5.3	5.0
STD DS8	Standard	15	125	0.61	285	0.123	3	0.93	0.089	0.42	3.0	0.21	2.1	5.5	0.07	5	5.2	4.8
STD DS8	Standard	14	118	0.56	268	0.117	3	0.89	0.074	0.42	3.1	0.21	2.1	5.2	0.15	5	4.9	5.2
STD DS8	Standard	14	116	0.57	267	0.118	2	0.89	0.076	0.41	2.9	0.21	2.1	5.2	0.17	4	5.4	5.2
STD DS8	Standard	14	120	0.62	267	0.114	2	0.88	0.080	0.41	2.9	0.21	2.1	5.4	0.14	5	5.7	4.7
STD DS8	Standard	14	117	0.62	270	0.116	3	0.92	0.081	0.41	3.2	0.20	1.9	5.4	0.14	5	5.5	4.9
STD DS8	Standard	13	114	0.63	271	0.102	2	0.90	0.084	0.42	3.1	0.18	2.0	5.6	0.17	5	5.6	5.3
STD DS8	Standard	13	116	0.62	279	0.108	4	0.88	0.087	0.42	3.1	0.21	2.1	5.5	0.10	5	6.2	5.2
STD DS8	Standard	14	120	0.62	280	0.114	3	0.91	0.104	0.45	2.8	0.19	2.0	5.4	0.19	5	5.0	4.9
STD DS8	Standard	14	117	0.57	270	0.115	4	0.89	0.096	0.44	2.7	0.18	2.1	5.1	0.15	5	4.8	5.0
STD DS8 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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680 3rd Ave, Suite 203
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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: August 23, 2011
Report Date: September 19, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11001146.1

CLIENT JOB INFORMATION

Project: Bishop
Shipment ID: 20110809213148
P.O. Number
Number of Samples: 291

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: Taku Gold Corp
680 3rd Ave, Suite 203
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	291	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	291	Dry at 60C			WHI
1DX2	291	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: Bishop
 Report Date: September 19, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001146.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
109838	Soil	1.0	25.2	9.8	50	0.2	19.7	8.2	355	2.19	34.2	1.2	12.9	3.7	32	0.1	1.1	0.5	40	0.38	0.051
109839	Soil	1.1	29.7	10.1	60	0.2	24.3	8.9	379	2.40	22.8	0.9	4.5	3.9	32	0.2	0.9	0.3	46	0.46	0.063
109840	Soil	0.7	26.3	9.8	51	0.2	20.7	8.4	305	2.34	18.6	1.5	6.8	3.6	32	0.2	0.7	0.3	45	0.43	0.057
109841	Soil	0.9	26.5	9.9	51	0.1	22.3	8.4	320	2.34	18.0	1.4	3.4	3.9	33	0.1	0.8	0.3	45	0.47	0.061
109842	Soil	0.8	26.3	10.0	53	0.2	20.7	8.1	273	2.30	24.7	1.4	3.0	3.4	36	0.3	0.9	0.4	44	0.48	0.056
109843	Soil	0.7	23.3	9.0	47	0.2	19.4	7.7	285	2.17	24.2	1.4	3.7	2.7	32	<0.1	0.8	0.4	42	0.43	0.057
109844	Soil	0.9	29.1	11.4	52	0.2	20.9	6.4	201	2.33	42.5	1.0	6.7	4.9	28	<0.1	1.3	0.6	42	0.34	0.042
109845	Soil	0.9	25.3	22.1	56	0.8	18.9	6.8	430	2.58	19.7	2.9	10.2	3.7	44	0.3	0.8	0.8	36	0.44	0.069
109846	Soil	0.9	17.3	23.0	45	0.2	12.8	4.6	235	1.77	14.4	2.2	2.8	14.6	29	0.1	0.8	0.9	29	0.23	0.021
109847	Soil	1.1	26.8	17.6	36	0.3	16.0	4.3	141	2.14	24.0	1.9	15.0	10.3	48	<0.1	1.8	1.2	33	0.23	0.038
109848	Soil	1.4	15.5	20.5	24	0.3	7.8	2.2	66	1.45	37.5	2.0	7.7	20.0	54	<0.1	0.9	1.7	18	0.15	0.032
109849	Soil	0.8	18.8	25.1	33	0.3	12.7	4.4	130	1.68	31.3	1.8	13.7	6.9	27	<0.1	1.4	1.0	31	0.23	0.027
109850	Soil	1.0	23.6	22.6	43	0.2	17.6	6.1	185	2.18	37.5	2.3	48.3	6.0	28	<0.1	1.3	0.9	45	0.29	0.030
109851	Soil	0.9	19.4	25.3	40	0.2	13.3	5.5	173	1.86	33.7	1.4	8.9	5.0	25	0.1	1.2	1.0	38	0.23	0.033
109852	Soil	1.4	30.6	50.9	47	0.8	17.3	5.2	130	2.56	61.8	2.3	19.7	2.7	31	0.1	1.9	1.7	41	0.24	0.047
109853	Soil	1.5	23.3	39.4	42	0.4	11.8	4.8	168	2.20	52.7	2.5	16.8	5.3	29	0.1	1.9	1.4	32	0.16	0.052
109854	Soil	1.5	15.4	22.5	46	0.2	10.8	4.7	180	2.44	42.3	1.3	14.4	3.4	28	0.3	1.5	0.9	35	0.15	0.047
109855	Soil	2.0	18.8	25.1	48	0.3	11.4	5.9	195	2.50	60.7	1.5	15.6	3.9	31	0.1	1.6	1.4	40	0.14	0.073
109856	Soil	3.1	20.0	37.5	62	0.2	9.8	5.4	149	2.39	33.2	2.3	25.1	7.2	38	0.1	1.9	1.0	34	0.12	0.047
109857	Soil	4.2	25.4	32.0	63	0.2	12.2	5.2	173	2.54	22.0	2.1	26.7	8.5	37	0.3	1.2	0.4	40	0.19	0.048
109858	Soil	2.6	13.2	28.3	42	0.3	12.1	5.6	235	2.07	12.7	0.7	13.2	3.9	16	0.2	0.9	0.2	47	0.13	0.024
109859	Soil	2.8	23.0	41.9	102	0.7	13.8	8.0	530	4.46	8.0	1.7	10.3	8.5	68	0.3	0.5	0.3	82	0.35	0.059
109860	Soil	1.4	18.7	15.6	55	0.3	21.3	9.4	244	3.18	17.0	0.6	10.0	4.4	15	<0.1	0.8	0.2	66	0.12	0.040
109861	Soil	2.4	25.9	83.6	43	0.6	10.0	4.1	117	1.82	16.3	2.7	14.7	9.6	25	0.3	2.2	0.3	30	0.12	0.041
109862	Soil	1.5	19.1	41.5	29	0.4	12.7	3.5	136	1.59	19.3	1.5	14.5	8.1	23	<0.1	2.1	0.3	30	0.19	0.026
109863	Soil	0.9	14.5	27.1	39	0.2	13.7	5.4	195	2.07	14.8	0.8	5.9	3.1	15	0.2	0.9	0.2	46	0.13	0.019
109864	Soil	0.8	14.8	46.3	38	0.3	13.0	5.0	133	2.03	14.6	0.8	6.4	4.4	17	<0.1	1.0	0.2	42	0.16	0.015
109865	Soil	2.5	23.8	574.3	78	2.9	6.1	2.3	61	2.37	300.5	1.6	28.2	11.7	26	0.2	3.6	2.7	14	0.10	0.021
109866	Soil	1.1	33.2	27.0	71	0.5	21.9	9.0	239	2.68	21.9	2.8	7.5	8.5	24	<0.1	0.8	0.7	49	0.24	0.026
109867	Soil	1.1	19.7	107.5	147	0.5	13.1	4.5	269	1.97	26.7	1.7	4.4	8.4	15	0.8	1.0	1.6	29	0.17	0.042

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.



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Project: Bishop
 Report Date: September 19, 2011

Page: 2 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001146.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109838	Soil	16	24	0.39	322	0.048	<1	1.39	0.012	0.05	0.2	0.03	3.1	<0.1	<0.05	4	0.6	<0.2
109839	Soil	14	25	0.47	335	0.051	1	1.31	0.017	0.05	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
109840	Soil	14	24	0.42	336	0.048	<1	1.35	0.013	0.04	0.2	0.05	3.3	<0.1	<0.05	4	0.7	<0.2
109841	Soil	14	25	0.43	348	0.048	<1	1.34	0.013	0.04	0.2	0.04	3.5	<0.1	<0.05	4	0.6	<0.2
109842	Soil	14	24	0.41	334	0.046	<1	1.29	0.015	0.05	0.2	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
109843	Soil	14	22	0.38	309	0.040	<1	1.26	0.012	0.04	0.2	0.04	2.9	<0.1	<0.05	4	0.6	<0.2
109844	Soil	17	24	0.38	312	0.043	<1	1.38	0.011	0.05	0.1	0.04	3.5	0.1	<0.05	4	0.5	<0.2
109845	Soil	16	20	0.29	485	0.009	<1	1.82	0.009	0.09	0.2	0.10	3.4	0.2	0.05	5	<0.5	<0.2
109846	Soil	26	17	0.26	293	0.013	<1	1.17	0.007	0.10	0.1	0.05	2.6	0.2	<0.05	3	<0.5	<0.2
109847	Soil	25	21	0.24	271	0.021	<1	0.98	0.011	0.08	<0.1	0.06	3.1	0.2	0.06	3	0.9	<0.2
109848	Soil	32	10	0.13	221	0.010	<1	0.67	0.012	0.10	0.1	0.04	2.2	0.2	0.12	2	<0.5	0.3
109849	Soil	21	18	0.25	251	0.035	<1	1.08	0.007	0.07	<0.1	0.08	2.9	0.2	<0.05	3	<0.5	<0.2
109850	Soil	18	26	0.36	318	0.050	<1	1.41	0.012	0.07	0.1	0.08	3.8	0.2	<0.05	4	<0.5	<0.2
109851	Soil	18	21	0.32	246	0.048	<1	1.14	0.008	0.06	0.2	0.05	2.9	0.2	<0.05	4	0.7	0.3
109852	Soil	19	23	0.30	342	0.021	<1	1.80	0.009	0.10	0.2	0.15	2.9	0.3	<0.05	5	0.7	0.3
109853	Soil	24	17	0.24	231	0.025	<1	1.05	0.009	0.10	0.1	0.13	2.7	0.3	0.05	3	0.9	0.3
109854	Soil	23	17	0.26	213	0.027	<1	1.12	0.011	0.09	0.1	0.04	2.0	0.3	0.09	3	1.1	0.2
109855	Soil	20	17	0.26	260	0.025	<1	1.23	0.011	0.12	0.2	0.04	2.2	0.4	0.11	4	<0.5	<0.2
109856	Soil	25	14	0.26	210	0.032	<1	0.90	0.017	0.11	<0.1	0.08	2.8	0.5	0.14	3	1.1	<0.2
109857	Soil	22	18	0.37	209	0.040	<1	1.12	0.019	0.11	0.2	0.03	2.6	0.4	0.13	4	1.3	<0.2
109858	Soil	13	19	0.30	209	0.034	<1	1.24	0.008	0.07	0.1	0.04	1.7	0.3	<0.05	5	<0.5	<0.2
109859	Soil	19	21	0.63	313	0.075	<1	2.31	0.012	0.09	<0.1	0.02	5.5	0.2	<0.05	8	0.9	<0.2
109860	Soil	11	34	0.44	287	0.044	<1	2.31	0.008	0.08	0.1	0.06	3.1	0.2	<0.05	6	0.8	<0.2
109861	Soil	28	13	0.19	205	0.033	<1	0.75	0.009	0.11	0.1	0.20	2.9	0.6	0.12	2	0.8	<0.2
109862	Soil	24	18	0.26	234	0.033	<1	0.94	0.010	0.09	0.1	0.19	2.3	0.3	0.05	3	0.7	<0.2
109863	Soil	13	22	0.33	175	0.040	<1	1.29	0.008	0.07	0.1	0.05	2.0	0.2	<0.05	4	<0.5	<0.2
109864	Soil	13	23	0.33	199	0.042	<1	1.42	0.008	0.06	0.1	0.07	2.3	0.1	<0.05	4	<0.5	<0.2
109865	Soil	25	9	0.10	243	0.005	<1	0.57	0.009	0.28	0.1	0.05	1.6	0.4	0.45	2	1.1	0.2
109866	Soil	28	32	0.47	346	0.045	<1	1.67	0.010	0.07	0.1	0.10	6.0	0.1	<0.05	5	<0.5	<0.2
109867	Soil	37	17	0.29	168	0.021	<1	1.05	0.006	0.07	0.1	0.05	2.2	0.2	<0.05	3	<0.5	<0.2

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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
109868	Soil	1.0	28.7	25.2	70	0.1	17.1	6.7	215	2.36	16.9	2.0	4.8	8.6	23	0.1	0.9	0.5	41	0.25	0.019
109869	Soil	1.0	27.5	33.6	97	<0.1	14.7	5.1	296	2.53	14.5	1.7	2.9	22.0	21	0.1	0.7	0.7	34	0.25	0.026
109870	Soil	0.9	25.2	23.2	66	<0.1	17.6	6.8	209	2.50	9.8	1.1	4.1	11.1	19	0.1	0.5	0.4	44	0.21	0.014
131030	Soil	0.7	20.4	9.4	48	0.1	15.9	6.8	223	2.01	20.8	1.1	5.0	3.4	28	0.1	0.7	0.3	40	0.36	0.057
131031	Soil	0.8	14.0	8.7	44	0.2	13.9	5.9	187	1.81	18.3	1.0	8.1	2.7	30	0.2	0.7	0.2	38	0.37	0.068
131032	Soil	0.9	23.3	9.2	51	0.1	18.8	8.1	313	2.14	20.7	1.2	3.5	3.6	31	0.1	0.9	0.3	42	0.40	0.061
131033	Soil	1.1	29.4	10.7	49	0.2	19.7	9.4	326	2.32	34.0	1.2	5.0	4.3	32	0.1	1.2	0.5	45	0.39	0.067
131034	Soil	1.0	34.5	10.6	58	0.2	23.6	9.8	342	2.46	25.5	1.1	3.1	4.6	35	0.2	1.0	0.4	42	0.49	0.073
131035	Soil	1.1	30.0	9.4	53	0.2	19.3	8.9	356	2.09	20.9	1.4	3.5	3.6	34	0.1	1.0	0.4	35	0.50	0.068
131036	Soil	1.8	41.3	13.8	50	0.3	19.7	8.3	236	2.31	48.3	1.2	10.3	4.8	30	0.1	1.8	0.7	36	0.34	0.055
131037	Soil	1.4	36.7	11.3	47	0.2	16.7	8.6	251	2.01	36.0	1.2	3.5	4.9	28	0.1	1.6	1.0	35	0.32	0.052
131038	Soil	1.8	31.2	11.2	50	0.2	18.9	8.6	269	2.20	31.0	1.4	10.2	4.4	31	0.1	1.4	0.5	41	0.40	0.060
131039	Soil	1.2	22.9	8.8	49	0.1	16.6	7.0	204	1.88	15.5	0.8	3.6	3.9	28	0.2	0.8	0.2	33	0.38	0.078
131040	Soil	1.5	25.2	9.7	51	0.1	18.2	7.7	240	2.08	19.8	0.8	7.4	4.2	28	0.2	1.1	0.3	36	0.40	0.076
131041	Soil	3.5	33.2	13.8	48	0.3	14.8	7.1	184	2.11	28.4	1.2	4.0	4.5	27	0.1	1.9	0.6	34	0.28	0.056
131042	Soil	4.4	27.0	13.6	42	0.2	12.6	7.5	249	2.22	42.3	0.7	4.5	4.6	26	0.1	2.6	0.6	34	0.25	0.062
131043	Soil	3.1	32.9	13.1	50	0.3	16.9	7.3	235	2.23	28.5	1.2	6.1	4.8	30	0.1	1.7	0.5	36	0.32	0.057
131044	Soil	3.8	34.5	13.7	51	0.3	16.0	6.9	211	2.27	32.8	1.3	8.3	5.7	28	0.1	2.0	0.5	36	0.29	0.057
131045	Soil	3.9	31.0	15.4	58	0.3	16.3	7.2	226	2.53	43.4	1.2	6.7	5.2	28	0.2	2.0	0.6	35	0.27	0.063
131046	Soil	3.5	31.9	14.4	55	0.4	15.6	6.4	175	2.08	24.0	1.3	5.5	4.7	29	0.2	1.1	0.5	33	0.26	0.055
131047	Soil	5.6	40.0	17.4	57	0.5	15.7	6.9	193	2.28	31.7	1.3	10.7	4.7	30	0.2	1.3	0.7	36	0.27	0.057
131048	Soil	4.1	33.1	12.9	43	0.3	14.0	6.5	191	2.10	32.0	1.4	3.9	5.5	28	0.1	2.0	0.5	33	0.27	0.043
131049	Soil	5.8	40.9	16.0	45	0.6	13.7	6.0	169	2.19	42.6	1.2	7.2	4.0	25	0.1	2.6	0.8	36	0.21	0.051
131050	Soil	4.6	40.6	16.1	51	0.3	14.1	11.8	436	2.52	51.6	1.0	84.0	4.3	27	0.2	2.7	0.9	34	0.22	0.057
131051	Soil	2.5	33.0	11.2	46	0.2	15.3	6.3	156	1.99	36.6	0.9	4.4	4.3	24	0.1	1.5	0.6	35	0.27	0.050
131052	Soil	1.8	29.0	12.0	46	0.3	16.4	6.9	185	1.97	28.9	1.1	5.9	4.3	26	0.1	1.0	0.5	36	0.32	0.049
131053	Soil	1.8	37.0	11.6	51	0.2	17.7	8.7	242	2.22	37.9	1.3	9.0	5.0	26	0.1	1.6	0.6	36	0.30	0.051
131054	Soil	2.0	43.0	12.8	60	0.2	24.2	10.0	338	2.45	43.7	1.1	25.2	5.7	32	0.2	1.7	0.6	40	0.41	0.064
131055	Soil	1.2	36.8	11.8	61	0.2	21.3	9.3	327	2.25	31.6	1.3	4.7	4.3	32	0.3	1.2	0.4	36	0.42	0.069
131056	Soil	1.5	40.6	14.4	64	0.5	20.5	11.2	467	2.31	46.1	1.4	5.6	3.7	40	0.4	1.3	0.8	36	0.46	0.058

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109868	Soil	33	28	0.38	281	0.037	<1	1.47	0.008	0.07	<0.1	0.08	4.2	0.1	<0.05	4	<0.5	<0.2
109869	Soil	42	23	0.34	251	0.031	<1	1.37	0.009	0.10	<0.1	0.05	3.5	0.2	<0.05	5	0.5	<0.2
109870	Soil	30	27	0.38	213	0.045	<1	1.70	0.008	0.06	<0.1	0.03	3.6	0.1	<0.05	5	0.9	<0.2
131030	Soil	16	23	0.38	272	0.049	<1	1.28	0.014	0.05	0.2	0.02	2.8	<0.1	<0.05	4	0.7	<0.2
131031	Soil	15	20	0.33	254	0.046	<1	1.13	0.014	0.04	0.3	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
131032	Soil	16	23	0.39	291	0.051	<1	1.33	0.014	0.05	0.2	0.04	3.1	<0.1	<0.05	4	0.7	<0.2
131033	Soil	18	25	0.36	333	0.050	1	1.30	0.013	0.04	0.3	0.03	3.0	<0.1	<0.05	4	0.7	<0.2
131034	Soil	16	27	0.45	318	0.058	2	1.31	0.020	0.05	0.3	0.04	3.4	<0.1	<0.05	4	0.5	<0.2
131035	Soil	15	25	0.41	302	0.049	2	1.26	0.015	0.05	0.3	0.04	3.2	<0.1	<0.05	4	0.6	<0.2
131036	Soil	18	26	0.40	310	0.050	1	1.36	0.014	0.05	0.2	0.02	3.0	0.1	<0.05	4	<0.5	<0.2
131037	Soil	17	24	0.38	293	0.050	<1	1.28	0.012	0.04	0.2	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
131038	Soil	16	26	0.38	307	0.050	2	1.29	0.014	0.05	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
131039	Soil	15	21	0.37	258	0.048	1	1.07	0.015	0.04	0.3	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
131040	Soil	15	23	0.38	273	0.051	1	1.16	0.016	0.04	0.3	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
131041	Soil	18	23	0.36	282	0.046	1	1.47	0.012	0.05	0.2	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
131042	Soil	16	19	0.29	219	0.044	<1	1.10	0.010	0.05	0.3	0.02	1.9	0.1	<0.05	3	<0.5	<0.2
131043	Soil	17	24	0.37	294	0.050	<1	1.31	0.012	0.05	0.2	0.03	3.0	0.1	<0.05	4	0.5	<0.2
131044	Soil	17	23	0.34	250	0.053	1	1.23	0.012	0.05	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
131045	Soil	17	23	0.35	275	0.048	1	1.28	0.012	0.05	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
131046	Soil	17	22	0.36	289	0.042	<1	1.30	0.011	0.05	0.2	0.03	2.7	0.1	<0.05	4	<0.5	<0.2
131047	Soil	18	24	0.38	283	0.042	1	1.44	0.012	0.05	0.2	0.05	2.9	0.1	<0.05	5	<0.5	<0.2
131048	Soil	18	21	0.37	244	0.044	<1	1.24	0.011	0.05	0.2	0.03	2.9	0.1	<0.05	4	0.6	<0.2
131049	Soil	17	21	0.32	234	0.043	1	1.27	0.010	0.05	0.2	0.03	2.5	0.1	<0.05	4	<0.5	<0.2
131050	Soil	15	21	0.33	237	0.037	<1	1.26	0.010	0.05	0.2	0.02	2.4	0.1	<0.05	4	0.6	<0.2
131051	Soil	16	22	0.38	279	0.047	1	1.30	0.012	0.05	0.2	0.02	2.6	0.1	<0.05	4	<0.5	<0.2
131052	Soil	15	23	0.36	297	0.040	<1	1.33	0.011	0.04	0.2	0.02	2.8	<0.1	<0.05	4	0.6	<0.2
131053	Soil	17	25	0.38	298	0.049	1	1.27	0.012	0.05	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
131054	Soil	16	27	0.46	317	0.056	<1	1.44	0.016	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
131055	Soil	17	25	0.41	314	0.050	<1	1.29	0.015	0.05	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
131056	Soil	15	25	0.40	402	0.046	1	1.57	0.015	0.06	0.1	0.03	3.0	0.1	<0.05	5	0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
131057	Soil	1.4	35.1	13.1	52	0.2	21.5	9.2	345	2.37	37.4	1.3	3.8	4.8	32	0.2	1.4	0.5	40	0.42	0.065
131058	Soil	1.1	31.5	11.6	48	0.2	17.3	7.0	241	2.06	34.2	1.3	5.8	3.4	28	0.2	1.1	0.5	31	0.33	0.056
131059	Soil	1.1	30.0	12.1	52	0.2	19.3	8.5	318	2.24	33.2	1.1	3.5	4.5	32	0.1	1.2	0.5	38	0.45	0.058
131060	Soil	1.1	22.7	10.5	51	0.2	17.3	8.2	312	2.18	34.6	1.2	16.2	4.7	28	0.2	1.0	0.4	38	0.39	0.062
131061	Soil	0.8	16.1	8.8	47	0.1	14.2	5.6	169	1.72	24.0	0.8	2.0	3.2	24	0.2	0.7	0.4	32	0.29	0.055
131062	Soil	0.9	26.2	10.6	58	0.1	20.6	9.4	360	2.39	21.7	1.2	5.5	4.6	31	0.1	0.8	0.3	41	0.44	0.064
131063	Soil	0.9	26.8	11.5	50	0.2	20.2	8.3	277	2.22	29.5	1.4	3.5	4.9	30	<0.1	0.9	0.4	37	0.41	0.056
131064	Soil	0.9	21.3	10.0	49	0.1	17.4	7.7	244	2.14	21.7	1.2	2.3	3.5	32	0.1	0.7	0.4	37	0.42	0.061
131065	Soil	1.0	23.1	10.8	47	0.1	17.8	7.6	174	2.12	30.2	1.1	6.7	4.6	28	<0.1	0.9	0.5	37	0.36	0.049
114442	Soil	1.6	20.3	17.7	55	0.1	16.0	7.1	361	2.54	11.4	2.0	2.7	7.5	27	0.2	0.4	0.4	22	0.24	0.050
114443	Soil	1.3	19.0	23.4	54	<0.1	15.0	6.2	288	2.23	8.7	1.5	1.9	6.0	27	0.1	0.9	0.3	30	0.21	0.044
114444	Soil	1.1	22.3	17.6	59	0.2	17.8	7.7	239	2.59	11.8	2.6	2.4	3.9	28	0.2	0.6	0.3	40	0.31	0.057
114445	Soil	1.9	24.3	41.7	126	0.2	28.6	9.4	377	4.33	28.2	3.2	6.4	11.9	37	0.2	1.2	0.7	34	0.28	0.063
114446	Soil	1.0	25.4	16.4	55	0.1	18.7	6.8	201	2.36	17.9	2.1	6.1	4.6	29	<0.1	0.8	0.4	40	0.32	0.044
114447	Soil	1.6	16.0	40.4	60	<0.1	10.5	5.5	215	2.24	20.2	1.8	4.2	7.4	42	0.1	1.2	0.5	32	0.17	0.036
114448	Soil	1.4	19.7	53.7	62	<0.1	15.6	5.5	307	2.76	14.8	2.3	3.3	8.5	28	0.1	1.6	0.2	38	0.18	0.032
114449	Soil	1.0	20.6	16.9	46	<0.1	15.4	5.9	151	2.11	9.9	1.8	5.1	4.8	21	<0.1	0.6	0.2	38	0.21	0.034
114450	Soil	1.2	19.9	86.2	77	0.2	15.3	6.2	264	2.69	13.3	1.8	4.6	4.4	54	0.2	1.4	0.4	44	0.16	0.039
114451	Soil	1.3	15.5	121.7	33	0.2	5.4	2.0	50	1.31	38.8	1.2	2.8	6.8	19	0.1	1.2	0.7	22	0.09	0.019
114452	Soil	1.1	28.5	30.8	53	0.1	20.8	6.8	227	2.38	48.2	1.5	6.1	7.5	30	0.1	1.0	0.5	38	0.29	0.016
114453	Soil	2.1	21.9	17.2	28	<0.1	13.2	4.1	121	1.75	23.8	1.4	7.8	7.6	23	<0.1	0.8	0.9	31	0.24	0.012
114454	Soil	2.1	97.3	24.4	98	<0.1	24.3	26.5	656	6.14	75.5	17.1	3.8	5.3	12	0.4	2.9	0.3	53	0.05	0.169
114455	Soil	1.5	28.3	15.9	33	0.2	14.7	6.6	167	2.63	28.9	2.6	5.5	9.5	16	<0.1	3.1	0.3	49	0.14	0.037
114456	Soil	0.8	13.7	43.3	41	0.1	9.3	3.9	177	1.70	36.2	1.9	5.3	9.6	20	<0.1	1.3	0.4	27	0.15	0.025
114457	Soil	1.1	24.0	58.7	40	0.2	11.6	7.1	201	2.35	29.7	2.7	4.9	10.6	21	<0.1	1.7	0.6	32	0.14	0.019
114458	Soil	0.8	12.6	32.1	19	0.2	7.5	3.6	105	1.48	31.7	1.4	6.9	11.9	16	<0.1	1.4	0.9	25	0.11	0.010
114459	Soil	0.4	11.3	41.5	18	0.3	6.8	2.5	67	1.17	32.6	1.1	6.0	6.6	17	<0.1	1.1	1.5	22	0.13	0.011
114460	Soil	0.5	14.2	26.4	18	0.3	7.0	2.6	67	1.11	19.7	1.3	4.6	9.8	18	<0.1	1.0	0.7	21	0.14	0.011
114461	Soil	1.1	20.4	44.2	28	0.2	14.5	4.4	103	1.82	21.1	2.0	6.1	11.1	27	<0.1	1.3	0.8	32	0.21	0.010
114462	Soil	0.7	27.2	119.5	34	0.2	15.9	5.5	154	2.21	21.8	2.7	5.0	12.6	27	<0.1	1.5	0.8	37	0.24	0.013

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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
131057	Soil	16	27	0.41	340	0.051	<1	1.34	0.014	0.05	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
131058	Soil	15	23	0.36	312	0.034	<1	1.28	0.010	0.04	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
131059	Soil	16	26	0.41	316	0.048	1	1.41	0.014	0.04	0.2	0.03	3.1	<0.1	<0.05	4	0.6	<0.2
131060	Soil	15	24	0.37	268	0.053	<1	1.26	0.012	0.04	0.3	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
131061	Soil	14	22	0.34	223	0.047	<1	1.20	0.011	0.04	0.2	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
131062	Soil	15	28	0.43	319	0.054	<1	1.37	0.014	0.05	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
131063	Soil	16	26	0.39	305	0.053	<1	1.34	0.013	0.04	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
131064	Soil	15	25	0.39	296	0.048	<1	1.35	0.012	0.04	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
131065	Soil	16	25	0.38	286	0.049	1	1.35	0.012	0.05	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
114442	Soil	21	14	0.21	225	0.004	<1	1.02	0.006	0.12	<0.1	0.01	3.1	0.1	<0.05	3	0.5	<0.2
114443	Soil	21	21	0.27	229	0.020	<1	1.01	0.006	0.06	0.1	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
114444	Soil	15	25	0.31	304	0.019	<1	1.64	0.008	0.07	0.1	0.04	3.4	0.1	<0.05	5	<0.5	<0.2
114445	Soil	25	19	0.23	317	0.007	<1	1.40	0.007	0.14	<0.1	0.07	5.0	0.3	<0.05	4	0.6	<0.2
114446	Soil	17	24	0.38	323	0.026	<1	1.44	0.009	0.07	0.1	0.06	3.9	0.1	<0.05	4	<0.5	<0.2
114447	Soil	27	12	0.16	254	0.007	<1	0.91	0.006	0.09	<0.1	0.02	2.4	0.2	0.06	2	<0.5	<0.2
114448	Soil	21	16	0.23	282	0.013	<1	1.03	0.005	0.08	0.1	0.06	4.3	0.2	<0.05	3	0.6	<0.2
114449	Soil	17	21	0.41	264	0.042	<1	1.12	0.009	0.04	0.1	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
114450	Soil	19	19	0.33	293	0.026	<1	1.41	0.013	0.07	<0.1	0.04	2.8	0.2	0.08	4	<0.5	<0.2
114451	Soil	24	8	0.09	138	0.007	<1	0.59	0.006	0.06	0.1	0.02	1.6	0.2	0.06	1	<0.5	<0.2
114452	Soil	19	25	0.31	343	0.021	<1	1.71	0.009	0.08	<0.1	0.06	4.2	0.2	<0.05	5	<0.5	<0.2
114453	Soil	20	18	0.31	307	0.016	<1	1.28	0.008	0.08	0.1	0.05	3.1	0.2	<0.05	3	0.5	<0.2
114454	Soil	14	23	0.11	240	0.008	<1	1.51	0.003	0.05	0.1	0.04	2.7	0.4	<0.05	3	0.9	<0.2
114455	Soil	25	25	0.27	239	0.023	<1	1.20	0.006	0.06	0.1	0.05	3.7	0.1	<0.05	4	<0.5	<0.2
114456	Soil	30	13	0.21	178	0.018	<1	0.84	0.006	0.09	<0.1	0.05	1.4	0.1	<0.05	2	<0.5	<0.2
114457	Soil	25	17	0.24	204	0.019	1	1.19	0.006	0.09	<0.1	0.06	1.6	0.2	<0.05	3	<0.5	<0.2
114458	Soil	25	13	0.18	158	0.015	<1	1.13	0.005	0.08	<0.1	0.05	1.2	0.1	<0.05	3	0.6	<0.2
114459	Soil	21	12	0.17	140	0.020	<1	0.85	0.005	0.07	<0.1	0.09	1.4	0.1	<0.05	2	<0.5	<0.2
114460	Soil	22	12	0.18	144	0.020	<1	0.78	0.005	0.07	<0.1	0.08	1.4	0.1	<0.05	2	<0.5	<0.2
114461	Soil	21	24	0.26	285	0.025	<1	1.40	0.007	0.09	<0.1	0.16	3.0	0.2	<0.05	4	<0.5	<0.2
114462	Soil	25	22	0.32	299	0.029	<1	1.64	0.008	0.10	<0.1	0.14	3.8	0.2	<0.05	4	0.6	<0.2

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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
114463	Soil		0.7	23.6	59.9	34	0.4	16.3	5.4	131	2.07	15.5	1.6	9.0	12.4	28	<0.1	1.3	0.8	36	0.27	0.020
114464	Soil		0.7	26.3	28.1	42	0.2	20.8	8.2	225	2.65	12.9	1.4	6.4	7.8	20	<0.1	1.1	0.3	50	0.20	0.010
114465	Soil		0.8	23.4	29.4	31	0.3	14.2	4.3	70	1.76	15.3	1.4	6.5	6.3	25	<0.1	0.9	0.7	29	0.22	0.018
114466	Soil		0.8	24.1	30.8	36	<0.1	16.5	5.8	157	2.26	14.2	1.1	3.0	10.5	26	<0.1	0.8	0.7	40	0.28	0.011
114467	Soil		1.0	37.5	13.9	60	<0.1	23.3	7.4	233	2.80	12.3	1.5	7.8	6.5	28	<0.1	0.9	0.3	51	0.30	0.030
114468	Soil		1.1	19.8	13.9	56	0.2	16.7	9.9	514	2.28	8.3	1.6	2.3	3.4	28	0.1	0.6	0.2	35	0.30	0.059
114469	Soil		1.8	17.4	62.1	58	0.3	12.7	5.3	206	2.27	22.3	3.3	9.1	4.3	78	0.2	1.0	1.2	28	0.25	0.076
114470	Soil		1.2	14.6	18.3	65	<0.1	14.4	6.8	245	2.31	11.9	1.5	4.6	6.3	32	<0.1	0.6	0.4	39	0.31	0.052
114471	Soil		1.6	26.4	56.1	82	0.4	18.3	7.0	345	2.81	19.2	3.3	11.2	6.1	41	0.3	1.1	0.4	38	0.37	0.060
114472	Soil		1.1	19.3	20.1	46	0.3	13.0	4.1	117	1.79	19.2	2.5	6.0	7.4	29	0.2	0.8	0.5	30	0.27	0.040
114473	Soil		1.2	35.6	25.5	46	0.8	14.7	3.8	132	1.97	29.1	4.8	10.7	3.2	27	0.5	0.7	1.1	26	0.22	0.052
114474	Soil		0.8	11.8	16.5	28	0.2	6.1	3.0	117	1.29	18.3	1.5	7.2	6.1	20	<0.1	0.8	0.8	20	0.11	0.023
114475	Soil		0.8	18.1	23.2	26	0.3	7.0	2.2	70	1.29	18.5	3.2	7.7	10.5	27	0.1	1.2	0.8	19	0.16	0.027
114476	Soil		0.6	14.0	28.7	29	0.2	5.3	1.8	44	1.21	11.0	2.9	4.3	18.0	36	<0.1	1.4	0.8	12	0.10	0.023
114477	Soil		1.1	21.4	15.9	35	0.4	12.9	4.4	133	1.75	30.6	3.3	10.2	9.1	24	0.2	1.6	0.7	22	0.16	0.029
114478	Soil		0.9	16.5	16.1	37	0.2	11.2	4.4	119	1.85	25.9	1.9	6.0	3.0	21	<0.1	1.2	0.6	36	0.15	0.031
114479	Soil		1.1	17.7	42.6	37	0.2	6.7	2.9	66	1.98	36.5	3.0	6.3	10.2	31	0.1	1.5	1.1	28	0.08	0.038
114480	Soil		0.8	22.6	17.2	32	0.1	14.9	7.4	163	2.01	19.9	1.8	6.4	7.1	21	<0.1	1.1	0.5	36	0.15	0.016
114481	Soil		1.1	30.9	27.5	66	0.2	18.4	6.0	205	2.29	13.3	1.6	7.5	5.5	23	0.2	1.0	0.6	42	0.27	0.035
114482	Soil		0.7	19.4	42.7	63	0.2	9.9	3.2	145	1.92	8.9	1.7	6.0	6.4	14	0.2	1.1	0.9	31	0.14	0.019
114483	Soil		0.9	25.8	32.0	54	0.2	14.6	5.0	165	1.90	8.5	2.3	6.5	5.6	19	<0.1	0.8	0.6	33	0.23	0.037
114484	Soil		0.3	17.6	29.6	20	<0.1	5.6	1.7	63	0.83	5.0	1.2	2.6	6.6	16	<0.1	0.7	0.8	13	0.15	0.010
114485	Soil		0.9	30.7	24.7	47	0.3	21.6	6.3	230	2.82	18.6	4.6	3.9	9.3	30	0.3	1.3	1.1	37	0.33	0.036
114486	Soil		0.8	27.6	60.5	104	0.1	10.6	3.3	191	1.82	6.0	1.4	3.2	9.6	20	0.1	1.2	0.9	14	0.17	0.016
114487	Soil		0.6	25.0	53.5	31	0.3	16.8	5.7	138	1.96	48.6	1.0	4.2	13.3	24	<0.1	2.3	1.9	36	0.23	0.011
114488	Soil		0.6	12.6	50.6	24	0.4	8.8	3.3	93	1.61	44.4	0.7	3.8	6.1	13	<0.1	4.2	1.7	32	0.10	0.011
114489	Soil		0.6	13.5	39.4	32	0.5	13.0	4.9	124	1.79	57.2	0.7	5.8	4.7	14	<0.1	2.5	1.1	36	0.14	0.022
114490	Soil		0.5	18.3	28.1	36	0.5	16.7	6.1	144	1.97	39.5	0.8	3.5	4.6	17	<0.1	1.9	0.7	41	0.20	0.037
114491	Soil		0.6	16.2	30.3	31	0.4	12.6	5.1	133	1.81	19.2	1.0	3.6	5.9	14	<0.1	1.7	0.4	41	0.12	0.010
114492	Soil		0.7	17.2	61.8	34	0.4	12.1	4.3	135	1.67	22.4	1.0	7.3	9.9	23	<0.1	2.4	0.5	31	0.20	0.026

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
114463	Soil	19	23	0.31	302	0.029	<1	1.59	0.009	0.09	<0.1	0.11	3.5	0.1	<0.05	4	<0.5	<0.2
114464	Soil	15	32	0.44	309	0.045	<1	2.12	0.008	0.06	<0.1	0.08	3.7	0.1	<0.05	5	<0.5	<0.2
114465	Soil	20	18	0.24	261	0.014	<1	1.47	0.007	0.08	<0.1	0.14	2.5	0.1	<0.05	4	<0.5	<0.2
114466	Soil	18	23	0.31	269	0.022	<1	1.85	0.007	0.10	<0.1	0.06	3.6	0.2	<0.05	5	<0.5	<0.2
114467	Soil	16	31	0.49	354	0.049	<1	1.91	0.012	0.08	<0.1	0.08	4.5	0.2	<0.05	5	<0.5	<0.2
114468	Soil	17	20	0.32	290	0.017	<1	1.29	0.009	0.07	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
114469	Soil	24	15	0.22	409	0.015	<1	1.07	0.023	0.11	<0.1	0.05	3.3	0.3	0.14	3	0.7	<0.2
114470	Soil	18	21	0.36	263	0.032	1	1.28	0.010	0.07	0.1	0.05	2.7	0.1	<0.05	4	<0.5	<0.2
114471	Soil	19	20	0.27	428	0.018	<1	1.62	0.009	0.10	0.1	0.17	4.2	0.2	<0.05	4	1.5	<0.2
114472	Soil	22	18	0.27	273	0.015	<1	1.11	0.008	0.07	0.1	0.07	2.5	0.2	<0.05	3	0.8	<0.2
114473	Soil	18	16	0.16	378	0.003	1	1.54	0.009	0.16	0.1	0.11	2.0	0.3	<0.05	4	0.6	<0.2
114474	Soil	24	10	0.15	131	0.007	<1	0.70	0.006	0.09	0.1	0.04	1.2	0.2	<0.05	2	<0.5	<0.2
114475	Soil	30	10	0.15	176	0.008	<1	0.67	0.007	0.10	<0.1	0.07	1.7	0.2	<0.05	2	0.5	<0.2
114476	Soil	39	7	0.10	152	0.004	<1	0.47	0.005	0.11	<0.1	0.03	1.5	0.2	<0.05	1	0.6	<0.2
114477	Soil	33	13	0.15	203	0.013	<1	0.71	0.007	0.10	0.2	0.09	1.7	0.2	<0.05	2	0.9	<0.2
114478	Soil	20	16	0.29	189	0.028	<1	0.99	0.007	0.06	0.2	0.07	1.7	0.2	<0.05	3	<0.5	<0.2
114479	Soil	30	10	0.15	149	0.014	<1	0.83	0.006	0.07	<0.1	0.04	1.7	0.3	0.05	2	1.0	<0.2
114480	Soil	22	22	0.33	227	0.041	<1	1.15	0.008	0.06	<0.1	0.11	3.4	0.1	<0.05	3	1.0	<0.2
114481	Soil	16	24	0.38	293	0.023	1	1.42	0.008	0.08	0.2	0.05	3.3	0.1	<0.05	4	0.5	<0.2
114482	Soil	20	13	0.18	160	0.013	<1	0.68	0.008	0.08	0.1	0.03	2.0	<0.1	<0.05	2	<0.5	<0.2
114483	Soil	21	19	0.31	253	0.022	1	0.90	0.008	0.08	0.2	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
114484	Soil	25	7	0.13	223	0.003	1	0.63	0.003	0.10	0.1	<0.01	1.2	0.1	<0.05	1	<0.5	<0.2
114485	Soil	18	22	0.38	472	0.022	2	1.34	0.014	0.10	0.2	0.08	3.9	0.2	<0.05	4	<0.5	<0.2
114486	Soil	27	8	0.11	215	0.002	<1	0.69	0.003	0.12	0.3	0.01	1.5	0.1	<0.05	2	0.8	<0.2
114487	Soil	21	22	0.31	226	0.043	<1	1.33	0.009	0.08	0.1	0.22	3.3	0.1	<0.05	4	0.6	<0.2
114488	Soil	14	14	0.20	118	0.043	<1	0.78	0.006	0.07	0.1	0.16	1.3	0.2	<0.05	3	0.5	<0.2
114489	Soil	13	18	0.36	131	0.042	<1	1.03	0.007	0.06	0.2	0.13	1.7	0.1	<0.05	3	0.5	<0.2
114490	Soil	14	22	0.42	167	0.048	<1	1.20	0.008	0.05	0.2	0.11	2.1	0.1	<0.05	4	<0.5	<0.2
114491	Soil	17	21	0.33	187	0.048	1	1.12	0.007	0.05	0.1	0.14	2.4	0.1	<0.05	3	0.7	<0.2
114492	Soil	21	18	0.28	189	0.042	<1	0.89	0.008	0.06	0.1	0.22	2.0	0.2	<0.05	3	<0.5	<0.2

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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001146.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
114493	Soil	0.8	15.8	47.3	33	0.4	12.4	4.8	146	1.83	50.4	1.1	6.4	8.9	16	0.1	2.2	1.0	38	0.13	0.017
114494	Soil	0.8	15.5	46.4	39	0.2	12.8	5.5	119	2.15	32.0	0.8	3.7	7.6	17	<0.1	1.8	1.0	45	0.09	0.015
114495	Soil	0.9	13.9	23.3	28	0.2	9.6	3.9	95	1.85	22.8	2.1	3.4	5.7	17	<0.1	2.1	0.5	34	0.10	0.018
145323	Soil	1.2	20.2	31.6	57	0.4	12.9	7.2	264	2.17	26.6	2.5	8.3	7.2	27	0.2	1.1	0.8	38	0.23	0.041
145324	Soil	1.2	22.5	29.6	61	0.3	13.5	9.8	375	2.20	27.1	2.9	5.9	7.5	27	0.2	1.2	0.8	36	0.23	0.043
145325	Soil	1.3	20.8	36.4	65	0.5	14.7	6.2	218	2.33	36.5	2.7	9.8	8.3	29	0.2	1.3	0.8	37	0.23	0.038
145326	Soil	0.8	22.6	20.7	41	0.2	13.5	4.5	141	1.97	18.4	2.5	3.2	8.7	29	0.1	1.2	0.8	37	0.24	0.031
145327	Soil	1.3	30.6	20.8	67	0.3	22.7	7.4	258	2.63	18.2	2.2	5.2	6.0	37	0.2	1.2	0.5	48	0.37	0.058
145328	Soil	0.9	17.4	18.3	29	0.2	10.6	3.5	94	1.54	19.5	2.0	4.3	8.4	23	<0.1	1.3	0.8	31	0.19	0.025
145329	Soil	0.9	21.7	21.9	28	0.2	11.3	3.9	121	1.69	21.0	2.6	6.0	9.8	26	<0.1	1.4	0.8	33	0.20	0.027
145330	Soil	0.6	18.0	13.6	28	0.2	9.9	3.8	118	1.59	25.9	1.7	10.3	7.3	20	0.1	1.5	0.9	31	0.14	0.034
145331	Soil	1.0	22.6	24.0	35	0.4	13.9	4.3	127	1.99	39.3	2.0	13.1	7.6	27	<0.1	2.4	1.4	36	0.23	0.039
145332	Soil	0.9	14.9	18.4	37	0.2	13.2	5.4	138	1.95	32.4	1.1	5.0	6.2	20	<0.1	1.6	1.1	39	0.17	0.024
145333	Soil	0.8	18.7	16.8	38	0.2	13.5	5.5	183	2.19	37.2	1.5	12.5	5.7	20	<0.1	1.7	0.9	42	0.16	0.025
145334	Soil	1.4	16.9	22.7	46	0.2	13.6	5.9	190	2.43	65.3	1.7	9.0	7.3	29	<0.1	2.0	1.4	46	0.16	0.026
145335	Soil	1.5	13.1	28.0	46	0.2	12.0	5.2	155	2.70	39.7	1.1	14.2	6.8	31	<0.1	1.9	1.0	45	0.13	0.032
145336	Soil	1.6	15.0	30.1	46	0.3	12.5	5.6	173	2.53	38.6	1.1	14.0	7.7	34	<0.1	2.0	1.1	44	0.17	0.037
145337	Soil	1.7	24.2	24.4	75	0.2	23.0	11.5	307	3.53	36.4	0.9	12.4	7.0	42	0.1	1.7	1.5	62	0.19	0.041
145338	Soil	0.8	25.7	20.0	40	0.2	19.1	8.0	165	2.47	18.3	0.6	12.0	6.6	12	<0.1	1.6	0.2	46	0.10	0.015
145339	Soil	1.2	13.3	14.0	49	1.2	16.0	7.5	193	2.74	12.9	0.4	<0.5	3.4	11	0.2	0.9	0.2	65	0.09	0.021
145340	Soil	0.9	40.3	49.5	111	0.3	13.1	5.3	237	2.53	25.9	1.5	2.8	16.8	16	0.3	0.7	0.9	36	0.18	0.027
145341	Soil	1.3	50.9	31.6	95	0.2	27.1	10.4	317	3.13	25.8	3.2	6.9	16.7	22	0.2	0.9	0.7	54	0.22	0.019
145342	Soil	0.8	30.4	20.4	80	0.2	19.7	6.8	310	2.48	14.3	1.4	2.7	10.8	24	0.2	0.9	0.7	43	0.32	0.051
145343	Soil	1.8	31.4	25.9	95	0.2	12.4	8.2	350	3.96	32.6	3.8	6.1	37.0	16	<0.1	1.3	0.7	42	0.20	0.050
145344	Soil	0.6	48.0	32.7	172	0.1	32.1	9.7	148	2.13	8.5	2.3	5.0	16.9	10	0.2	0.8	1.5	15	0.07	0.019
145345	Soil	1.0	27.1	50.8	35	0.4	17.7	5.4	214	2.03	16.2	1.0	8.7	5.7	24	<0.1	1.3	0.7	35	0.27	0.036
145346	Soil	0.6	16.8	22.3	38	0.1	15.7	5.9	156	2.23	12.4	0.6	3.0	4.0	17	<0.1	0.9	0.3	48	0.18	0.017
145347	Soil	0.6	13.1	46.5	30	0.2	8.9	4.0	106	1.69	26.8	1.4	8.4	5.9	13	<0.1	3.1	0.5	31	0.10	0.016
145348	Soil	0.8	34.2	17.0	45	0.2	26.2	9.0	251	2.87	22.1	1.4	7.6	5.0	25	<0.1	1.3	0.2	60	0.31	0.045
145349	Soil	1.3	12.1	44.5	23	0.4	8.6	3.8	127	2.09	22.0	1.0	4.3	5.8	19	<0.1	2.7	0.8	33	0.12	0.027

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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001146.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
114493	Soil	19	20	0.32	148	0.044	<1	1.10	0.007	0.06	0.2	0.12	2.1	0.1	<0.05	3	<0.5	<0.2
114494	Soil	18	22	0.33	128	0.048	<1	1.44	0.006	0.07	0.4	0.06	2.1	0.2	<0.05	4	<0.5	0.2
114495	Soil	23	14	0.23	127	0.029	<1	0.84	0.006	0.06	0.2	0.07	1.5	0.2	<0.05	3	<0.5	<0.2
145323	Soil	24	20	0.28	240	0.020	1	1.22	0.007	0.09	0.1	0.05	2.8	0.2	<0.05	4	0.6	<0.2
145324	Soil	25	20	0.28	257	0.018	<1	1.24	0.008	0.09	0.1	0.05	3.1	0.2	<0.05	4	<0.5	<0.2
145325	Soil	22	20	0.28	257	0.022	<1	1.15	0.007	0.08	0.2	0.05	3.2	0.2	<0.05	3	<0.5	<0.2
145326	Soil	25	20	0.31	259	0.031	<1	1.22	0.008	0.08	0.4	0.06	3.3	0.2	<0.05	4	<0.5	<0.2
145327	Soil	18	28	0.45	355	0.046	<1	1.51	0.012	0.07	0.2	0.08	4.7	0.1	<0.05	4	<0.5	<0.2
145328	Soil	27	15	0.26	200	0.023	<1	0.92	0.006	0.07	0.1	0.05	2.5	0.2	<0.05	3	0.5	<0.2
145329	Soil	27	16	0.26	221	0.027	<1	1.03	0.007	0.08	0.1	0.07	2.9	0.2	<0.05	3	<0.5	<0.2
145330	Soil	23	15	0.25	163	0.023	<1	0.99	0.006	0.08	0.2	0.08	2.3	0.2	<0.05	3	<0.5	<0.2
145331	Soil	24	20	0.32	245	0.035	<1	1.10	0.009	0.08	0.2	0.13	3.4	0.3	<0.05	3	<0.5	<0.2
145332	Soil	19	19	0.34	183	0.041	<1	1.02	0.008	0.07	0.2	0.05	2.5	0.2	<0.05	3	<0.5	<0.2
145333	Soil	19	21	0.39	189	0.043	<1	1.25	0.009	0.07	0.1	0.09	3.0	0.2	<0.05	4	<0.5	<0.2
145334	Soil	22	20	0.33	211	0.045	<1	1.18	0.014	0.09	0.1	0.05	3.2	0.4	0.10	4	<0.5	<0.2
145335	Soil	20	18	0.36	194	0.038	<1	1.23	0.015	0.11	0.1	0.05	2.5	0.4	0.15	4	<0.5	<0.2
145336	Soil	18	19	0.39	200	0.045	<1	1.12	0.015	0.11	0.1	0.05	2.6	0.4	0.14	4	<0.5	<0.2
145337	Soil	18	31	0.56	306	0.049	<1	2.10	0.019	0.13	0.2	0.03	3.8	0.3	0.12	6	0.5	0.3
145338	Soil	13	30	0.45	135	0.041	<1	1.90	0.007	0.08	0.2	0.10	2.8	0.2	<0.05	4	<0.5	<0.2
145339	Soil	12	27	0.37	218	0.043	<1	1.95	0.005	0.05	0.2	0.03	2.6	0.1	<0.05	6	<0.5	<0.2
145340	Soil	77	24	0.41	202	0.025	<1	1.43	0.006	0.07	<0.1	0.02	3.3	0.1	<0.05	6	<0.5	<0.2
145341	Soil	73	34	0.54	199	0.056	<1	1.91	0.010	0.07	0.2	0.08	6.8	0.1	<0.05	7	1.0	<0.2
145342	Soil	37	27	0.48	265	0.048	<1	1.36	0.012	0.06	0.2	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
145343	Soil	98	39	0.67	179	0.030	<1	1.98	0.006	0.29	0.1	0.10	7.3	0.4	<0.05	10	<0.5	<0.2
145344	Soil	40	7	0.03	137	<0.001	<1	0.43	0.003	0.12	0.2	0.03	2.0	0.1	0.10	1	<0.5	<0.2
145345	Soil	18	22	0.32	294	0.024	1	1.07	0.012	0.08	0.1	0.06	2.6	0.2	0.07	3	<0.5	<0.2
145346	Soil	14	27	0.42	197	0.051	1	1.43	0.009	0.05	0.1	0.03	2.4	0.1	<0.05	4	<0.5	<0.2
145347	Soil	15	16	0.19	149	0.043	1	0.72	0.006	0.08	0.1	0.08	1.4	0.2	0.11	2	<0.5	<0.2
145348	Soil	18	37	0.53	453	0.058	1	1.62	0.013	0.06	0.2	0.08	5.3	<0.1	<0.05	4	0.5	<0.2
145349	Soil	12	16	0.21	212	0.022	<1	0.93	0.006	0.14	0.1	0.06	1.3	0.5	0.23	3	0.6	0.2

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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
102756	Soil	1.1	20.9	19.9	39	0.2	14.0	5.3	169	1.94	35.0	1.8	6.3	5.8	24	0.1	1.1	0.8	35	0.20	0.041
102757	Soil	1.2	17.7	16.5	43	0.1	16.2	5.7	151	2.02	25.5	1.0	3.5	6.0	23	<0.1	0.8	0.6	40	0.22	0.032
102758	Soil	1.1	18.7	20.1	43	0.2	14.2	5.7	164	2.06	31.0	1.2	7.9	5.7	23	<0.1	1.0	0.7	39	0.22	0.042
102759	Soil	1.1	16.5	16.0	44	0.1	16.0	6.0	149	2.10	16.4	1.1	4.8	4.6	25	<0.1	0.8	0.4	38	0.28	0.041
102760	Soil	1.2	30.6	20.9	62	0.2	22.4	9.4	375	2.66	19.4	3.0	8.6	5.3	31	0.1	1.1	0.4	46	0.35	0.052
102761	Soil	1.3	21.7	24.9	53	0.2	14.9	4.9	151	2.19	18.7	1.6	9.7	5.9	29	0.1	1.4	0.5	40	0.27	0.044
102762	Soil	1.0	20.0	19.0	46	0.1	15.0	4.8	138	1.90	15.6	1.6	7.8	5.0	27	<0.1	1.3	0.3	37	0.25	0.043
102763	Soil	1.1	19.9	22.4	43	0.1	14.7	4.6	145	1.99	18.1	1.4	11.6	5.7	24	<0.1	1.2	0.3	38	0.22	0.039
102764	Soil	1.4	17.1	34.0	36	0.2	12.1	4.1	122	1.55	17.8	1.9	16.6	5.5	25	<0.1	1.6	0.2	31	0.21	0.032
102765	Soil	1.6	28.4	38.3	43	0.3	14.8	5.3	132	1.89	24.1	3.4	42.9	6.0	26	0.1	1.9	0.3	35	0.20	0.042
102766	Soil	2.0	26.8	42.4	47	0.2	12.5	4.8	125	1.97	21.7	2.7	47.6	8.7	24	0.1	1.7	0.3	38	0.16	0.034
102767	Soil	8.5	68.9	48.1	127	0.4	14.2	9.1	303	5.68	10.5	2.4	31.7	10.3	86	0.2	1.1	0.4	90	0.16	0.095
102768	Soil	3.0	25.0	43.2	119	0.2	16.1	11.3	745	5.46	7.8	3.5	31.2	13.7	60	0.3	0.5	0.2	114	0.50	0.139
102769	Soil	16.5	63.2	47.0	407	0.3	29.2	30.4	823	7.15	4.7	6.4	58.9	17.1	74	1.6	0.6	0.5	100	0.50	0.180
102770	Soil	8.2	54.3	64.5	108	0.4	14.2	9.1	322	6.94	53.7	2.0	60.7	11.7	39	0.5	0.7	0.3	114	0.24	0.060
102771	Soil	3.4	32.1	33.4	115	0.2	18.3	8.7	229	3.42	31.4	1.6	30.9	8.3	31	0.3	1.1	0.3	54	0.14	0.038
102772	Soil	6.8	41.0	53.1	205	0.4	16.2	11.8	698	4.13	84.8	2.9	86.1	11.8	36	0.6	1.9	0.5	55	0.23	0.090
102773	Soil	3.1	43.5	58.4	113	0.5	19.7	8.0	229	3.09	53.1	2.7	32.0	9.6	27	0.2	1.6	0.5	40	0.22	0.040
102774	Soil	2.2	27.8	84.3	123	0.4	14.6	7.2	156	2.95	69.2	2.1	7.9	10.5	14	0.2	2.0	0.5	26	0.07	0.034
102775	Soil	1.6	26.0	54.7	55	0.7	14.5	5.4	143	1.92	45.0	3.3	28.7	7.6	20	0.2	1.4	0.3	32	0.19	0.034
102776	Soil	1.3	22.1	76.7	67	0.7	10.1	3.6	100	1.82	65.9	3.0	14.8	10.9	17	0.3	1.5	1.5	24	0.15	0.028
102777	Soil	1.2	15.2	46.8	60	0.3	9.2	3.9	135	1.86	20.6	2.4	10.6	13.2	13	0.2	1.1	1.7	24	0.11	0.025
102778	Soil	1.2	18.5	139.7	106	0.8	9.3	3.8	150	1.88	81.3	2.0	13.3	10.0	15	0.4	1.7	2.3	24	0.14	0.032
102779	Soil	1.3	18.1	67.0	102	0.3	13.0	5.1	164	2.23	35.8	1.5	7.6	7.4	18	0.4	0.8	1.1	40	0.23	0.032
102780	Soil	1.4	28.6	106.7	115	0.3	18.7	6.3	227	2.29	24.9	1.9	6.6	10.5	20	0.4	1.1	0.8	41	0.22	0.018
117963	Soil	1.1	25.5	13.5	53	0.1	17.5	8.7	241	2.45	16.3	1.4	4.6	5.5	22	<0.1	0.7	0.3	51	0.29	0.033
117964	Soil	1.0	36.1	36.1	129	0.2	22.7	8.7	333	3.23	26.0	1.4	5.0	13.6	27	0.4	0.9	0.8	52	0.43	0.080
117965	Soil	1.4	37.9	29.5	84	0.2	24.9	11.1	458	3.14	23.7	1.3	5.9	9.4	29	0.2	0.9	0.7	60	0.41	0.061
117966	Soil	1.0	29.2	11.9	65	0.1	23.6	9.5	366	2.42	16.3	0.7	4.5	5.2	27	0.3	0.8	0.3	43	0.39	0.076
117967	Soil	1.4	31.1	20.0	67	0.2	20.9	9.1	350	2.67	33.3	1.2	7.7	5.6	30	0.2	1.3	0.5	51	0.37	0.057

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Project: Bishop
 Report Date: September 19, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
102756	Soil	20	21	0.24	205	0.033	<1	0.83	0.008	0.05	0.1	0.03	2.3	0.1	<0.05	2	0.5	<0.2
102757	Soil	16	25	0.33	233	0.041	<1	1.15	0.010	0.06	0.1	<0.01	2.3	0.1	<0.05	3	0.5	<0.2
102758	Soil	18	22	0.31	236	0.038	<1	1.24	0.009	0.06	0.1	0.05	2.5	0.1	<0.05	3	0.5	<0.2
102759	Soil	15	22	0.35	267	0.037	<1	1.26	0.009	0.05	0.1	0.04	2.7	0.1	<0.05	3	<0.5	<0.2
102760	Soil	20	26	0.40	418	0.035	<1	1.50	0.012	0.06	0.1	0.10	3.8	0.1	<0.05	4	0.5	<0.2
102761	Soil	23	22	0.31	289	0.049	<1	1.23	0.011	0.07	0.1	0.06	2.9	0.2	<0.05	4	0.5	<0.2
102762	Soil	20	21	0.32	269	0.046	<1	1.08	0.010	0.06	0.1	0.08	2.8	0.2	<0.05	3	<0.5	<0.2
102763	Soil	20	21	0.33	270	0.042	<1	1.09	0.009	0.06	0.1	0.07	2.7	0.2	<0.05	3	<0.5	<0.2
102764	Soil	18	17	0.25	249	0.035	<1	0.82	0.009	0.06	0.1	0.08	2.0	0.3	<0.05	3	0.5	<0.2
102765	Soil	21	19	0.27	323	0.034	<1	1.11	0.009	0.08	0.1	0.23	2.9	0.4	<0.05	3	0.8	<0.2
102766	Soil	26	20	0.33	306	0.041	<1	1.24	0.009	0.09	0.1	0.26	2.9	0.3	<0.05	3	0.7	<0.2
102767	Soil	35	25	0.44	364	0.084	<1	1.92	0.039	0.26	0.1	0.05	5.3	0.6	0.33	7	1.5	<0.2
102768	Soil	40	25	0.83	744	0.223	<1	2.58	0.017	0.28	<0.1	0.03	8.2	0.5	<0.05	9	1.0	<0.2
102769	Soil	35	16	0.57	430	0.064	<1	2.22	0.013	0.18	<0.1	0.12	10.5	0.7	0.05	7	1.9	0.3
102770	Soil	16	22	0.52	389	0.073	<1	3.98	0.020	0.06	0.1	0.04	7.0	0.2	<0.05	10	1.4	<0.2
102771	Soil	21	24	0.44	293	0.042	<1	1.79	0.018	0.14	0.1	0.05	3.4	0.4	0.13	5	0.7	<0.2
102772	Soil	29	15	0.35	374	0.044	<1	1.34	0.016	0.24	0.2	0.08	5.3	0.8	0.18	5	0.8	0.2
102773	Soil	25	21	0.30	324	0.027	<1	1.22	0.011	0.15	<0.1	0.05	4.5	0.5	0.14	4	0.7	<0.2
102774	Soil	25	11	0.11	151	0.012	<1	0.67	0.008	0.18	<0.1	0.02	2.0	0.6	0.28	2	0.7	<0.2
102775	Soil	22	18	0.25	253	0.016	<1	1.18	0.007	0.11	0.1	0.13	2.6	0.3	<0.05	3	<0.5	<0.2
102776	Soil	26	14	0.19	164	0.018	<1	0.85	0.006	0.11	0.1	0.06	1.9	0.3	<0.05	3	<0.5	<0.2
102777	Soil	30	13	0.18	127	0.024	<1	0.69	0.006	0.07	<0.1	0.07	1.6	0.2	<0.05	2	<0.5	<0.2
102778	Soil	24	13	0.18	143	0.019	<1	0.74	0.006	0.08	0.1	0.04	1.5	0.2	0.05	2	<0.5	<0.2
102779	Soil	26	22	0.34	236	0.031	<1	1.19	0.008	0.06	0.1	0.04	2.2	0.2	<0.05	4	<0.5	<0.2
102780	Soil	31	28	0.32	264	0.043	<1	1.38	0.008	0.07	<0.1	0.06	3.6	0.2	<0.05	4	<0.5	<0.2
117963	Soil	18	29	0.41	326	0.048	<1	1.48	0.010	0.05	0.1	0.05	4.0	<0.1	<0.05	4	<0.5	<0.2
117964	Soil	42	36	0.57	295	0.057	<1	1.82	0.011	0.18	0.1	0.07	4.9	0.2	<0.05	7	<0.5	<0.2
117965	Soil	31	34	0.50	321	0.059	<1	1.75	0.012	0.09	0.1	0.06	4.8	0.1	<0.05	6	<0.5	<0.2
117966	Soil	16	25	0.45	244	0.048	<1	1.13	0.015	0.07	0.2	0.04	3.1	<0.1	<0.05	3	<0.5	<0.2
117967	Soil	19	25	0.40	344	0.047	<1	1.38	0.012	0.05	0.2	0.08	4.3	0.2	<0.05	4	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
117968	Soil	1.8	21.2	31.2	67	0.1	15.4	11.6	1513	4.53	6.9	1.4	3.5	8.8	55	0.1	0.5	0.8	72	0.85	0.173
117969	Soil	1.1	12.9	22.2	40	<0.1	9.5	4.5	227	1.77	7.6	3.6	1.9	22.0	24	<0.1	0.8	0.3	18	0.26	0.018
117970	Soil	1.3	14.4	22.0	62	<0.1	6.8	7.5	397	2.42	4.8	4.2	1.1	40.2	14	<0.1	0.3	0.9	20	0.22	0.061
117971	Soil	1.4	15.4	26.4	83	<0.1	9.1	4.5	388	2.35	10.8	3.4	1.7	24.9	21	<0.1	0.6	1.0	19	0.28	0.037
117972	Soil	0.8	12.1	28.2	70	<0.1	10.9	5.8	480	2.47	6.6	2.3	0.9	34.8	19	<0.1	0.4	0.3	20	0.30	0.053
117973	Soil	1.7	23.6	29.3	77	0.1	17.3	8.2	411	2.75	47.9	2.7	2.9	5.5	19	0.2	2.9	1.1	51	0.24	0.071
117953	Soil	0.9	18.7	10.4	58	<0.1	16.3	7.1	293	2.22	11.4	1.1	3.1	4.5	21	<0.1	0.8	0.2	38	0.26	0.048
117954	Soil	0.7	21.1	13.1	84	0.3	24.4	8.6	351	2.74	14.7	1.7	4.6	4.5	24	0.3	1.6	0.4	33	0.31	0.066
117955	Soil	1.0	18.8	13.5	48	0.1	14.4	5.6	178	1.99	15.4	1.2	4.1	4.4	23	0.1	0.8	0.3	33	0.28	0.048
117956	Soil	1.0	25.9	12.2	54	0.2	20.9	7.7	285	2.21	13.8	1.1	5.8	4.2	27	0.1	0.8	0.2	41	0.35	0.052
117957	Soil	1.1	25.4	12.8	58	0.1	20.6	7.6	248	2.36	14.6	1.0	7.6	4.9	26	<0.1	0.8	0.2	44	0.35	0.050
117958	Soil	1.0	27.6	11.2	51	0.1	20.9	7.9	277	2.21	12.6	0.9	4.4	4.2	26	0.1	0.8	0.2	43	0.37	0.047
117959	Soil	1.2	28.1	13.4	54	0.2	20.5	8.9	349	2.32	12.0	1.2	3.4	4.6	28	<0.1	0.8	0.2	46	0.38	0.065
117960	Soil	1.3	22.4	20.0	64	0.2	15.0	7.0	268	2.16	17.3	1.6	8.1	8.2	24	0.2	0.9	0.5	39	0.32	0.048
117961	Soil	1.0	23.6	14.9	56	0.2	16.7	6.7	234	2.11	20.1	1.6	6.8	5.0	27	<0.1	1.2	0.3	41	0.33	0.046
117962	Soil	1.5	25.0	19.6	61	0.2	16.8	7.9	254	2.42	48.3	1.5	10.9	7.0	29	<0.1	2.4	0.5	47	0.30	0.036
124154	Soil	0.8	24.9	8.9	50	<0.1	19.9	8.0	295	2.12	9.2	0.8	2.8	2.9	30	0.1	0.5	0.2	44	0.48	0.058
124155	Soil	0.8	25.9	9.0	47	0.1	21.6	8.3	280	1.95	7.9	1.1	2.1	2.9	31	0.2	0.6	0.2	41	0.45	0.057
124156	Soil	0.7	23.3	8.0	53	<0.1	21.2	8.5	314	2.09	8.7	0.6	4.0	3.4	26	<0.1	0.6	0.1	41	0.44	0.056
124157	Soil	0.9	27.0	9.3	57	0.1	22.3	8.9	320	2.16	9.3	0.5	3.2	3.3	29	0.1	0.7	0.1	43	0.51	0.058
124158	Soil	0.6	26.5	8.1	51	0.1	22.1	8.0	325	2.01	7.4	1.1	1.8	2.3	37	0.2	0.6	0.1	41	0.68	0.060
124159	Soil	0.7	27.8	10.0	52	0.1	24.0	8.7	375	2.22	9.6	1.2	1.2	4.0	32	0.1	0.7	0.2	46	0.50	0.057
124160	Soil	0.7	32.6	11.3	55	<0.1	23.9	9.8	322	2.49	9.9	1.5	2.8	9.8	26	<0.1	0.7	0.2	47	0.38	0.042
124161	Soil	0.7	18.9	15.2	56	<0.1	16.1	7.6	304	2.33	7.4	2.0	1.5	16.5	24	<0.1	0.6	0.4	40	0.35	0.049
124162	Soil	0.8	28.7	10.1	55	<0.1	24.1	8.6	278	2.41	11.0	0.6	4.8	5.4	27	0.1	0.7	0.2	49	0.38	0.055
124163	Soil	0.7	21.6	14.0	65	<0.1	17.5	7.5	316	2.62	10.7	2.0	3.5	12.0	27	0.1	0.7	0.2	46	0.38	0.064
124164	Soil	1.0	24.6	10.9	59	0.1	19.5	8.4	382	2.32	10.6	1.3	3.1	4.3	34	0.2	0.7	0.2	45	0.43	0.059
124165	Soil	0.9	28.0	13.7	67	0.1	22.4	8.9	263	2.51	9.3	2.0	2.4	6.3	30	0.2	0.7	0.2	52	0.41	0.058
124166	Soil	0.7	19.8	20.2	59	<0.1	13.7	5.0	261	2.15	10.3	3.8	0.9	14.8	32	0.1	0.6	0.3	35	0.41	0.047
124167	Soil	0.5	4.3	9.9	29	<0.1	3.6	2.4	281	0.82	4.5	2.0	<0.5	14.3	10	<0.1	0.2	0.1	14	0.10	0.020

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
117968	Soil	59	18	0.72	303	0.008	<1	2.10	0.011	0.06	<0.1	0.08	9.2	<0.1	<0.05	11	<0.5	<0.2
117969	Soil	62	14	0.26	221	0.004	<1	1.09	0.005	0.13	<0.1	0.09	2.8	0.3	<0.05	4	<0.5	<0.2
117970	Soil	54	15	0.33	150	0.004	<1	1.06	0.005	0.13	0.1	0.01	1.6	0.2	<0.05	5	<0.5	<0.2
117971	Soil	65	14	0.31	189	0.004	<1	1.09	0.005	0.12	<0.1	0.03	2.6	0.2	<0.05	4	<0.5	<0.2
117972	Soil	81	17	0.45	224	0.003	<1	1.26	0.004	0.15	<0.1	0.02	2.3	0.1	<0.05	7	<0.5	<0.2
117973	Soil	24	18	0.28	234	0.021	<1	0.89	0.007	0.05	0.1	0.05	5.7	0.2	<0.05	3	<0.5	<0.2
117953	Soil	16	22	0.36	262	0.033	<1	1.14	0.008	0.06	0.2	0.02	3.2	<0.1	<0.05	4	0.6	<0.2
117954	Soil	24	18	0.33	260	0.025	<1	1.16	0.008	0.13	0.2	0.05	3.3	0.1	<0.05	4	<0.5	<0.2
117955	Soil	16	18	0.30	274	0.027	<1	1.05	0.008	0.06	0.2	0.07	2.7	<0.1	<0.05	3	<0.5	<0.2
117956	Soil	15	23	0.36	332	0.038	<1	1.15	0.011	0.05	0.2	0.04	3.3	<0.1	<0.05	3	<0.5	<0.2
117957	Soil	16	24	0.35	288	0.047	<1	1.12	0.011	0.05	0.2	0.03	3.5	<0.1	<0.05	3	<0.5	<0.2
117958	Soil	15	24	0.39	321	0.046	<1	1.21	0.012	0.05	0.2	0.03	3.5	<0.1	<0.05	3	<0.5	<0.2
117959	Soil	15	27	0.38	349	0.047	<1	1.25	0.012	0.05	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
117960	Soil	22	21	0.32	275	0.037	<1	1.17	0.009	0.08	0.2	0.04	3.2	0.1	<0.05	4	0.5	<0.2
117961	Soil	17	23	0.37	336	0.041	<1	1.25	0.009	0.04	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
117962	Soil	21	26	0.37	299	0.049	<1	1.44	0.009	0.06	0.1	0.08	4.5	0.2	<0.05	5	0.6	<0.2
124154	Soil	12	24	0.42	258	0.045	<1	1.22	0.013	0.05	0.2	0.03	3.1	<0.1	<0.05	4	0.7	<0.2
124155	Soil	13	23	0.37	294	0.040	<1	1.13	0.012	0.04	0.2	0.03	3.0	<0.1	<0.05	3	0.6	<0.2
124156	Soil	12	23	0.45	265	0.047	<1	1.10	0.015	0.05	0.2	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
124157	Soil	13	24	0.44	325	0.047	<1	1.15	0.016	0.05	0.2	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
124158	Soil	12	23	0.41	306	0.037	<1	1.11	0.014	0.04	0.2	0.02	2.8	<0.1	<0.05	3	0.8	<0.2
124159	Soil	14	26	0.45	283	0.046	<1	1.26	0.016	0.05	0.2	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
124160	Soil	19	28	0.45	269	0.051	<1	1.35	0.015	0.06	0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
124161	Soil	36	26	0.42	181	0.050	<1	1.32	0.010	0.12	0.1	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
124162	Soil	15	31	0.45	228	0.054	<1	1.28	0.015	0.06	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
124163	Soil	29	26	0.43	232	0.052	<1	1.34	0.017	0.15	0.1	0.01	3.9	0.1	<0.05	5	<0.5	<0.2
124164	Soil	16	25	0.41	338	0.041	<1	1.35	0.015	0.04	0.2	0.04	3.2	<0.1	<0.05	4	0.8	<0.2
124165	Soil	21	29	0.47	341	0.054	<1	1.51	0.013	0.05	0.2	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
124166	Soil	55	20	0.33	231	0.015	<1	1.41	0.010	0.14	0.1	0.06	3.7	0.1	<0.05	5	0.7	<0.2
124167	Soil	34	6	0.11	73	0.007	<1	0.53	0.003	0.08	<0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001146.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
124168	Soil	0.9	23.7	15.4	56	<0.1	18.8	6.7	240	2.31	9.5	4.4	3.0	12.2	28	<0.1	0.7	0.3	43	0.31	0.029
124169	Soil	1.0	21.0	21.4	61	<0.1	14.6	5.8	319	2.19	9.7	2.5	1.5	12.6	29	0.1	0.6	0.5	43	0.33	0.045
124170	Soil	1.6	20.7	15.5	49	<0.1	16.5	7.1	283	2.36	11.0	3.1	2.0	15.7	29	<0.1	0.6	0.6	47	0.30	0.023
124171	Soil	0.8	10.0	9.9	34	<0.1	9.9	4.7	209	1.82	7.1	1.0	1.0	8.7	15	<0.1	0.4	0.3	37	0.16	0.021
124172	Soil	0.8	18.5	14.0	42	<0.1	14.5	5.9	189	2.21	6.5	2.2	1.5	16.3	26	<0.1	0.5	0.3	44	0.21	0.010
124173	Soil	0.9	15.8	12.1	43	<0.1	13.8	5.6	208	2.24	9.9	1.0	1.4	11.7	21	<0.1	0.5	0.4	42	0.19	0.017
124174	Soil	1.2	33.6	17.4	60	<0.1	22.8	9.8	369	3.30	10.8	3.7	3.8	23.6	28	<0.1	0.8	0.9	57	0.25	0.015
124175	Soil	1.4	26.9	17.3	60	<0.1	17.0	10.1	269	2.70	10.2	1.9	3.0	17.8	19	<0.1	0.5	2.0	44	0.17	0.018
124176	Soil	1.7	11.0	13.8	48	<0.1	9.7	3.9	169	2.35	15.1	1.9	2.5	22.3	15	<0.1	0.5	0.4	27	0.16	0.012
124177	Soil	0.8	23.5	20.7	92	<0.1	18.8	10.4	418	4.26	9.5	3.2	5.3	44.1	29	<0.1	0.6	1.1	59	0.31	0.024
124178	Soil	0.9	24.0	18.4	61	<0.1	18.7	9.2	388	2.71	10.1	1.9	2.2	18.3	24	0.1	0.7	0.7	46	0.39	0.039
124179	Soil	1.7	24.3	17.5	66	<0.1	15.7	6.2	235	2.74	10.6	2.7	1.6	23.6	23	<0.1	0.6	0.9	40	0.34	0.045
124180	Soil	0.6	28.1	9.7	56	0.1	20.1	6.6	212	2.38	9.5	1.1	2.9	6.9	26	0.1	0.7	0.3	43	0.39	0.068
129120	Soil	1.3	28.7	22.2	65	0.2	22.2	8.8	270	2.81	19.2	1.2	5.2	6.8	31	0.1	1.2	0.4	45	0.37	0.057
129121	Soil	1.1	29.1	13.4	72	0.2	24.3	8.9	350	2.65	14.2	1.0	5.1	4.8	34	0.2	1.0	0.2	50	0.49	0.069
129122	Soil	1.3	26.0	14.9	59	0.1	20.1	7.4	252	2.43	14.0	1.2	4.5	4.2	28	0.2	0.8	0.3	47	0.36	0.054
129123	Soil	1.1	29.1	11.6	61	0.2	23.2	8.9	423	2.36	12.7	2.7	3.5	4.1	33	0.3	0.9	0.2	44	0.49	0.075
129124	Soil	1.0	28.3	12.6	68	0.1	22.9	8.8	325	2.80	18.3	0.8	5.3	5.5	28	0.2	0.8	0.3	49	0.36	0.065
129125	Soil	1.2	21.5	13.9	60	0.1	16.7	7.1	267	2.18	13.1	1.3	4.5	4.6	28	0.2	0.7	0.3	44	0.33	0.055
129126	Soil	1.6	13.9	19.7	70	<0.1	13.2	6.2	237	2.53	27.6	1.2	9.0	7.6	24	0.2	0.9	0.6	44	0.29	0.069
129127	Soil	1.0	28.1	20.3	67	0.2	17.5	8.1	325	2.40	24.3	2.5	6.8	8.6	31	0.2	1.2	0.9	43	0.39	0.059
129128	Soil	0.8	25.7	24.7	100	<0.1	21.6	11.9	629	3.13	25.0	1.9	3.8	16.0	30	0.4	0.7	0.5	45	0.48	0.094
129129	Soil	0.9	28.4	47.4	223	0.1	18.2	8.1	614	3.17	15.4	1.4	3.7	12.8	30	1.6	0.7	0.6	47	0.38	0.061
129130	Soil	0.9	20.5	15.5	56	0.1	16.2	6.8	221	2.29	14.9	1.0	3.1	5.3	25	0.2	0.7	0.3	49	0.32	0.045
129131	Soil	1.0	30.2	20.6	68	0.1	23.1	8.3	319	2.71	14.7	1.3	5.7	5.6	31	0.2	0.8	0.3	64	0.43	0.063
129132	Soil	1.1	26.8	19.0	70	0.2	19.0	8.7	347	2.72	20.1	1.9	10.5	8.7	31	0.2	1.0	0.4	53	0.40	0.061
129133	Soil	1.6	35.4	19.8	113	<0.1	21.2	11.0	587	4.10	22.6	3.8	25.6	24.6	29	0.3	0.7	0.6	48	0.51	0.119
129134	Soil	1.0	26.8	24.2	75	<0.1	20.3	9.4	458	3.66	13.2	2.5	4.9	21.6	41	<0.1	0.8	0.4	62	0.56	0.047
129135	Soil	1.1	16.0	13.1	51	<0.1	16.3	7.2	240	2.42	10.9	1.4	1.9	9.5	21	<0.1	0.5	0.3	52	0.25	0.029
129136	Soil	1.1	29.9	18.4	63	0.2	21.0	9.1	310	2.97	10.9	2.9	3.4	16.0	27	<0.1	0.7	0.5	52	0.43	0.044

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
124168	Soil	24	25	0.36	308	0.039	<1	1.62	0.012	0.07	<0.1	0.04	4.7	0.2	<0.05	5	0.6	<0.2
124169	Soil	27	21	0.35	244	0.043	<1	1.38	0.011	0.07	0.1	0.05	4.0	0.1	<0.05	5	<0.5	<0.2
124170	Soil	36	24	0.35	218	0.051	<1	1.57	0.009	0.06	0.1	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
124171	Soil	25	15	0.30	156	0.042	<1	1.08	0.007	0.07	0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
124172	Soil	52	23	0.40	272	0.034	<1	1.58	0.008	0.05	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
124173	Soil	26	22	0.35	245	0.035	<1	1.35	0.008	0.04	0.1	<0.01	2.9	<0.1	<0.05	4	0.6	<0.2
124174	Soil	48	33	0.49	327	0.049	<1	2.13	0.008	0.13	<0.1	0.04	5.8	0.2	<0.05	8	<0.5	<0.2
124175	Soil	29	25	0.40	255	0.049	<1	1.91	0.007	0.19	0.6	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
124176	Soil	42	15	0.23	185	0.013	<1	1.16	0.004	0.08	0.2	0.02	2.8	0.2	<0.05	4	<0.5	<0.2
124177	Soil	100	41	0.81	342	0.144	<1	3.11	0.010	0.38	0.2	0.03	8.0	0.7	<0.05	14	<0.5	<0.2
124178	Soil	34	25	0.49	321	0.035	<1	1.83	0.009	0.21	0.1	0.03	4.0	0.3	<0.05	7	<0.5	<0.2
124179	Soil	53	24	0.44	223	0.033	<1	1.77	0.009	0.17	0.2	0.03	4.2	0.2	<0.05	7	<0.5	<0.2
124180	Soil	21	24	0.47	270	0.054	<1	1.27	0.014	0.06	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
129120	Soil	23	26	0.37	347	0.045	1	1.43	0.013	0.11	0.2	0.07	3.7	0.1	<0.05	4	<0.5	<0.2
129121	Soil	18	27	0.48	359	0.052	1	1.56	0.015	0.07	0.2	0.05	3.6	<0.1	0.06	5	<0.5	<0.2
129122	Soil	17	26	0.41	330	0.046	<1	1.40	0.011	0.06	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
129123	Soil	17	24	0.43	287	0.049	1	1.22	0.015	0.07	0.2	0.04	3.3	<0.1	<0.05	4	0.5	<0.2
129124	Soil	17	29	0.46	304	0.055	<1	1.35	0.014	0.07	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
129125	Soil	17	23	0.39	317	0.049	<1	1.33	0.011	0.06	0.2	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
129126	Soil	23	20	0.32	215	0.037	<1	1.10	0.010	0.07	0.2	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
129127	Soil	31	26	0.43	303	0.053	1	1.57	0.012	0.08	0.1	0.08	3.7	0.1	<0.05	6	<0.5	<0.2
129128	Soil	30	35	0.72	268	0.078	<1	1.86	0.009	0.22	0.2	0.04	4.2	0.2	<0.05	9	<0.5	<0.2
129129	Soil	32	34	0.55	279	0.057	<1	1.66	0.012	0.09	<0.1	0.04	5.1	0.1	<0.05	8	<0.5	<0.2
129130	Soil	18	26	0.44	278	0.052	<1	1.47	0.012	0.05	0.2	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
129131	Soil	20	35	0.43	298	0.077	<1	1.54	0.014	0.06	0.2	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
129132	Soil	25	32	0.46	257	0.061	<1	1.52	0.011	0.10	0.2	0.06	4.3	0.1	<0.05	5	<0.5	<0.2
129133	Soil	64	36	0.70	336	0.041	<1	1.98	0.009	0.29	0.1	0.05	5.2	0.3	<0.05	11	<0.5	<0.2
129134	Soil	49	33	0.50	298	0.023	<1	2.70	0.010	0.12	<0.1	0.09	6.9	0.1	<0.05	10	<0.5	<0.2
129135	Soil	22	26	0.44	247	0.043	<1	1.56	0.008	0.06	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
129136	Soil	62	32	0.54	294	0.024	<1	2.22	0.009	0.10	0.1	0.10	5.5	0.1	<0.05	7	<0.5	<0.2

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Method	Analyte	Unit	MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
129137	Soil			0.8	13.9	13.2	48	<0.1	14.2	6.1	196	2.21	8.6	1.4	1.7	11.5	15	<0.1	0.4	0.5	48	0.18	0.023
129138	Soil			2.9	21.0	30.7	133	<0.1	19.4	13.3	1664	4.93	156.9	20.1	2.0	15.2	48	0.5	1.1	6.3	82	0.47	0.110
129139	Soil			2.2	31.7	49.5	93	<0.1	19.6	7.2	203	3.14	35.8	3.5	2.6	20.5	20	0.2	2.3	1.1	52	0.22	0.029
129140	Soil			2.2	28.6	47.0	83	<0.1	18.8	6.5	207	2.73	32.3	2.9	3.9	15.5	21	0.2	1.9	1.1	50	0.23	0.031
129141	Soil			1.2	13.0	24.5	40	<0.1	8.0	3.8	131	1.71	11.9	5.3	0.8	30.6	4	<0.1	0.7	0.8	19	0.03	0.013
129142	Soil			2.4	10.3	22.2	56	<0.1	8.3	2.8	404	2.06	20.7	5.1	<0.5	27.2	9	<0.1	0.6	1.1	21	0.07	0.019
129143	Soil			1.4	20.6	14.3	52	0.1	17.8	6.9	218	2.25	10.3	1.7	2.8	7.9	23	0.1	0.7	0.4	41	0.28	0.047
129144	Soil			1.1	26.0	11.4	49	<0.1	21.9	7.4	225	2.53	10.5	2.0	3.1	5.6	24	<0.1	0.6	0.2	50	0.31	0.033
129145	Soil			1.0	31.3	11.5	52	<0.1	22.9	8.2	258	2.51	11.0	1.4	3.7	5.8	26	<0.1	0.8	0.2	52	0.32	0.034
129146	Soil			1.5	24.2	11.5	49	0.1	24.6	8.3	274	2.45	9.6	2.1	3.0	3.8	28	<0.1	0.6	0.2	51	0.35	0.047
129147	Soil			0.9	18.8	10.9	46	0.1	17.4	6.4	263	2.04	8.3	2.3	3.6	7.1	23	0.1	0.5	0.3	45	0.30	0.033
102876	Soil			1.6	16.5	54.8	84	0.1	16.3	8.1	270	2.38	27.2	1.7	13.5	9.0	20	0.2	1.0	0.5	40	0.22	0.034
102877	Soil			1.3	15.1	28.1	95	0.1	13.9	5.4	221	1.93	17.0	3.1	3.7	13.7	18	0.3	1.0	0.3	32	0.19	0.033
102878	Soil			1.6	16.1	24.5	59	0.1	14.9	7.6	216	2.30	14.7	0.9	1.4	7.2	15	0.1	1.3	0.2	48	0.17	0.021
102879	Soil			1.9	29.7	31.5	132	0.1	24.7	12.0	1003	3.56	20.5	3.1	8.5	22.2	23	0.7	0.9	0.3	49	0.32	0.049
102880	Soil			1.1	21.5	74.5	108	<0.1	11.9	7.3	509	2.14	14.0	2.4	4.7	24.1	15	0.4	0.6	0.3	28	0.23	0.042
102881	Soil			1.2	33.1	54.1	98	<0.1	19.4	10.2	584	3.00	17.7	1.8	5.1	20.1	23	0.3	0.7	0.6	44	0.36	0.068
102882	Soil			1.7	32.1	28.9	122	0.1	23.4	12.0	640	4.41	28.0	3.3	6.8	33.7	36	0.2	0.8	0.6	53	0.58	0.118
102883	Soil			1.6	25.2	49.3	98	<0.1	21.4	12.2	1063	4.86	126.9	3.7	8.4	9.3	61	0.3	0.8	1.1	95	0.79	0.123
102884	Soil			1.6	34.4	34.1	86	0.2	17.8	7.3	217	2.49	35.0	3.2	4.5	14.4	22	0.2	0.9	1.0	49	0.23	0.022
102885	Soil			2.6	23.4	52.8	288	0.2	18.1	10.0	1067	4.55	48.3	3.0	4.0	9.6	35	1.1	2.4	0.7	58	0.31	0.102
102886	Soil			3.3	34.2	30.7	322	<0.1	39.0	27.3	1095	6.81	92.8	3.8	12.9	11.3	59	0.4	3.3	0.4	91	0.38	0.085
102887	Soil			3.1	30.6	38.5	85	0.3	16.4	5.7	216	3.53	37.0	2.2	25.5	7.7	48	0.3	2.2	2.0	52	0.26	0.079
102888	Soil			2.3	35.1	25.5	74	0.2	18.6	7.7	261	3.16	27.3	2.6	25.1	7.5	41	<0.1	1.3	0.3	59	0.35	0.046
102889	Soil			2.1	28.1	22.2	75	0.2	16.6	6.7	197	2.68	45.0	1.9	18.5	5.8	30	0.2	2.7	0.5	49	0.28	0.057
102890	Soil			1.9	27.1	17.4	60	0.2	18.0	6.5	180	2.25	35.6	1.9	19.7	4.4	31	0.2	2.6	0.3	43	0.28	0.059
102891	Soil			1.6	27.2	18.7	62	0.2	17.7	6.4	204	2.30	21.8	1.6	12.8	5.9	32	0.1	1.5	0.3	47	0.34	0.055
102892	Soil			1.8	25.3	18.8	66	0.1	21.8	7.8	261	2.56	15.5	1.4	12.6	6.1	32	0.2	1.0	0.4	50	0.35	0.066
102893	Soil			2.9	36.9	26.6	67	0.2	23.0	8.5	267	2.71	20.7	1.5	16.7	6.4	36	0.2	1.5	0.3	51	0.41	0.055
102894	Soil			1.5	23.1	21.8	48	0.2	15.7	4.9	158	1.96	21.1	1.4	14.4	6.0	28	0.1	1.3	0.3	38	0.27	0.048

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
129137	Soil	22	25	0.46	190	0.053	<1	1.42	0.008	0.08	0.1	0.02	2.4	0.1	<0.05	6	<0.5	<0.2
129138	Soil	73	23	0.48	276	0.022	1	1.79	0.011	0.07	0.1	0.03	6.1	0.1	<0.05	8	0.8	<0.2
129139	Soil	24	26	0.24	214	0.024	<1	1.91	0.006	0.07	0.1	0.10	5.8	0.3	<0.05	6	<0.5	<0.2
129140	Soil	20	26	0.23	223	0.024	<1	2.08	0.006	0.07	<0.1	0.06	4.9	0.3	<0.05	6	<0.5	<0.2
129141	Soil	5	13	0.08	83	0.006	<1	1.12	0.004	0.05	<0.1	0.01	2.0	0.1	<0.05	3	<0.5	<0.2
129142	Soil	8	12	0.09	102	0.008	<1	0.87	0.004	0.06	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
129143	Soil	18	24	0.40	259	0.038	<1	1.45	0.008	0.05	0.1	0.04	2.9	0.1	<0.05	4	<0.5	<0.2
129144	Soil	17	32	0.46	349	0.050	<1	1.58	0.010	0.05	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
129145	Soil	19	32	0.48	350	0.061	<1	1.57	0.012	0.05	0.2	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
129146	Soil	20	33	0.43	339	0.059	3	1.51	0.014	0.07	0.2	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
129147	Soil	19	27	0.42	308	0.045	<1	1.37	0.010	0.05	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
102876	Soil	22	27	0.32	207	0.039	<1	1.42	0.009	0.09	0.1	0.05	2.4	0.2	<0.05	4	<0.5	<0.2
102877	Soil	32	21	0.30	202	0.040	<1	0.85	0.008	0.10	0.1	0.06	2.7	0.3	<0.05	3	<0.5	<0.2
102878	Soil	23	28	0.32	197	0.060	<1	1.34	0.009	0.07	0.2	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2
102879	Soil	62	33	0.52	422	0.055	<1	1.88	0.012	0.39	0.1	0.04	5.7	0.4	<0.05	8	0.5	<0.2
102880	Soil	33	19	0.33	199	0.030	<1	0.86	0.008	0.10	<0.1	0.02	2.8	0.2	<0.05	5	<0.5	<0.2
102881	Soil	36	34	0.60	278	0.060	1	1.49	0.010	0.19	0.1	0.01	4.0	0.3	<0.05	7	<0.5	<0.2
102882	Soil	69	48	0.90	412	0.046	<1	2.32	0.016	0.23	0.2	0.04	6.1	0.3	<0.05	12	0.6	<0.2
102883	Soil	40	27	0.90	477	0.142	<1	2.67	0.036	0.04	0.2	0.03	9.2	<0.1	<0.05	12	0.5	<0.2
102884	Soil	64	32	0.46	257	0.051	<1	1.43	0.009	0.06	0.1	0.03	5.7	0.1	<0.05	5	0.6	<0.2
102885	Soil	33	17	0.41	360	0.018	<1	1.17	0.009	0.08	<0.1	0.04	5.4	0.3	<0.05	5	<0.5	<0.2
102886	Soil	44	28	0.59	496	0.056	<1	2.34	0.012	0.10	<0.1	0.07	10.1	0.9	<0.05	8	0.6	<0.2
102887	Soil	32	24	0.44	405	0.043	<1	1.32	0.025	0.11	0.1	0.05	4.2	0.3	0.16	5	<0.5	0.5
102888	Soil	22	25	0.43	402	0.075	<1	1.53	0.017	0.08	0.1	0.06	5.0	0.2	<0.05	5	0.6	<0.2
102889	Soil	19	23	0.41	295	0.048	<1	1.41	0.011	0.06	0.1	0.11	4.1	0.2	<0.05	4	<0.5	<0.2
102890	Soil	19	23	0.38	274	0.048	<1	1.31	0.012	0.05	0.1	0.18	3.5	0.2	<0.05	4	0.7	<0.2
102891	Soil	19	25	0.43	342	0.056	<1	1.39	0.013	0.05	0.2	0.07	4.1	0.2	<0.05	4	<0.5	<0.2
102892	Soil	17	30	0.45	342	0.062	<1	1.39	0.014	0.06	0.2	0.06	3.8	0.1	<0.05	4	<0.5	<0.2
102893	Soil	17	30	0.43	367	0.065	<1	1.43	0.015	0.07	0.1	0.12	4.7	0.2	<0.05	4	<0.5	<0.2
102894	Soil	18	24	0.35	274	0.056	<1	1.07	0.011	0.06	0.1	0.08	3.0	0.1	<0.05	3	<0.5	<0.2

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.



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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001146.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
102895	Soil	1.4	24.0	21.4	52	0.1	17.5	6.6	195	2.38	20.5	1.8	14.3	7.0	32	0.2	1.2	0.4	46	0.30	0.050
102896	Soil	1.3	27.3	21.5	56	0.2	19.8	8.3	277	2.46	17.0	1.9	7.9	4.0	34	0.2	1.2	0.3	46	0.36	0.059
102897	Soil	1.1	18.4	16.7	50	0.1	16.1	5.5	167	2.10	15.2	0.8	4.1	5.5	27	0.1	1.3	0.3	42	0.29	0.049
102898	Soil	1.0	22.8	15.2	48	<0.1	16.8	6.7	200	2.17	14.9	1.1	12.5	5.6	26	0.1	1.2	0.3	44	0.28	0.045
102899	Soil	1.1	19.8	20.5	72	<0.1	16.3	7.4	240	2.55	13.5	1.3	5.0	7.6	24	0.2	1.1	0.5	42	0.29	0.058
102900	Soil	1.2	50.8	21.0	126	0.3	42.8	8.8	205	3.62	28.7	3.0	6.5	8.8	18	0.2	3.2	0.6	42	0.18	0.058
102901	Soil	1.3	24.8	17.5	63	0.1	31.4	9.7	353	2.65	25.7	1.7	4.5	6.3	31	0.1	1.1	0.6	51	0.32	0.045
123265	Soil	1.2	21.9	68.3	83	0.5	14.9	5.9	177	2.15	32.9	1.8	5.6	6.9	23	0.4	0.9	1.1	41	0.25	0.037
123266	Soil	1.0	19.3	91.8	92	0.4	12.2	4.8	183	1.76	40.1	2.5	24.0	9.7	21	0.5	1.5	1.0	30	0.20	0.033
123267	Soil	1.2	21.6	61.1	85	0.5	14.5	6.4	211	2.15	25.6	2.1	10.6	7.2	22	0.5	1.2	0.8	37	0.22	0.042
123268	Soil	1.0	18.6	29.9	60	0.2	14.8	7.6	222	2.24	16.8	1.9	3.6	7.7	23	0.2	0.9	0.4	43	0.24	0.034
123269	Soil	0.9	23.1	36.6	62	0.1	16.6	6.2	198	1.96	18.6	1.9	7.3	8.4	25	0.2	0.9	0.4	38	0.26	0.032
123270	Soil	1.3	34.9	41.7	80	0.1	15.6	6.8	270	2.33	17.0	2.3	8.8	14.7	23	0.2	1.0	0.4	36	0.24	0.028
123271	Soil	1.4	24.6	45.4	85	0.1	15.5	6.0	180	2.04	26.2	1.5	7.4	8.5	16	0.2	0.8	0.3	36	0.16	0.034
123272	Soil	1.2	28.9	26.7	70	0.3	20.8	6.9	203	2.39	23.9	1.4	10.8	6.1	24	0.2	0.9	0.4	46	0.27	0.062
123273	Soil	2.5	32.7	31.9	100	0.4	29.1	9.8	421	3.66	103.5	2.0	11.3	7.4	45	0.2	1.3	1.9	65	0.34	0.058
123274	Soil	2.5	29.0	27.4	87	0.2	16.6	7.1	205	2.34	16.8	2.2	14.1	7.2	30	0.1	0.8	0.3	40	0.26	0.048
123275	Soil	2.6	41.9	20.3	103	0.4	21.3	8.4	264	2.88	21.0	2.3	24.3	5.3	51	0.5	0.9	0.3	48	0.37	0.078
123276	Soil	4.4	39.7	52.3	175	0.2	21.2	13.8	1511	6.01	12.3	4.3	37.0	12.0	79	0.8	0.9	0.3	92	0.52	0.107
123277	Soil	3.6	24.6	32.5	134	0.1	15.5	10.3	352	4.49	72.2	1.2	29.5	5.5	29	0.3	2.5	1.4	79	0.17	0.105
123278	Soil	4.0	17.6	31.5	62	0.2	11.0	4.7	196	2.24	106.8	1.5	43.1	1.6	54	0.3	7.1	0.3	43	0.16	0.069



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Project: Bishop
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001146.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
102895	Soil	21	26	0.37	321	0.061	<1	1.34	0.011	0.07	0.2	0.09	3.7	0.2	<0.05	4	<0.5	<0.2
102896	Soil	19	28	0.43	391	0.041	1	1.58	0.014	0.06	0.2	0.09	3.5	0.1	<0.05	5	0.6	<0.2
102897	Soil	15	24	0.41	239	0.059	<1	1.22	0.012	0.05	0.2	0.05	2.8	<0.1	<0.05	3	<0.5	<0.2
102898	Soil	18	24	0.40	327	0.050	<1	1.21	0.011	0.05	0.2	0.05	3.3	<0.1	<0.05	4	0.5	<0.2
102899	Soil	24	23	0.39	293	0.045	<1	1.29	0.010	0.12	0.1	0.03	3.3	0.1	<0.05	4	0.5	<0.2
102900	Soil	30	23	0.20	208	0.011	<1	0.87	0.007	0.09	0.2	0.07	3.6	0.1	<0.05	3	1.1	<0.2
102901	Soil	17	30	0.41	324	0.054	<1	1.44	0.013	0.06	0.2	0.07	4.2	<0.1	<0.05	4	0.5	<0.2
123265	Soil	21	23	0.36	268	0.038	<1	1.40	0.011	0.06	0.2	0.05	3.1	0.1	<0.05	4	<0.5	<0.2
123266	Soil	24	18	0.26	196	0.033	<1	0.94	0.009	0.06	0.1	0.07	2.6	0.2	<0.05	3	<0.5	<0.2
123267	Soil	21	22	0.33	223	0.032	<1	1.29	0.010	0.08	0.1	0.07	2.8	0.1	<0.05	4	<0.5	<0.2
123268	Soil	20	24	0.41	246	0.043	<1	1.44	0.011	0.06	0.1	0.03	2.9	0.1	<0.05	4	<0.5	<0.2
123269	Soil	21	23	0.38	281	0.040	<1	1.18	0.011	0.06	0.1	0.04	3.5	0.1	<0.05	3	<0.5	<0.2
123270	Soil	39	23	0.40	239	0.031	<1	1.32	0.009	0.11	<0.1	0.04	3.7	0.2	<0.05	5	<0.5	<0.2
123271	Soil	19	19	0.32	157	0.025	<1	1.03	0.007	0.06	<0.1	0.01	1.9	0.1	<0.05	3	<0.5	<0.2
123272	Soil	18	28	0.48	220	0.054	<1	1.39	0.013	0.06	0.2	0.03	2.8	0.1	<0.05	4	<0.5	<0.2
123273	Soil	27	37	0.53	391	0.050	<1	1.77	0.019	0.07	<0.1	0.05	5.5	0.1	<0.05	6	0.8	<0.2
123274	Soil	20	20	0.41	308	0.032	<1	1.30	0.012	0.07	0.1	0.06	3.9	0.2	<0.05	4	0.6	<0.2
123275	Soil	21	23	0.46	372	0.044	<1	1.52	0.021	0.08	0.2	0.06	4.6	0.2	<0.05	4	<0.5	<0.2
123276	Soil	34	26	0.54	481	0.033	<1	2.74	0.020	0.06	0.2	0.03	10.9	0.2	<0.05	9	1.0	<0.2
123277	Soil	16	27	0.45	231	0.051	<1	2.30	0.015	0.10	0.2	0.03	4.1	0.6	<0.05	8	0.7	<0.2
123278	Soil	21	19	0.25	197	0.038	<1	1.17	0.013	0.08	0.2	0.13	1.9	0.6	<0.05	4	0.8	<0.2



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Project: Bishop

Report Date: September 19, 2011

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QUALITY CONTROL REPORT

WHI11001146.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
109844	Soil	0.9	29.1	11.4	52	0.2	20.9	6.4	201	2.33	42.5	1.0	6.7	4.9	28	<0.1	1.3	0.6	42	0.34	0.042
REP 109844	QC	0.9	28.7	11.6	52	0.2	19.6	6.5	207	2.39	42.8	1.0	4.6	4.9	29	0.1	1.3	0.6	42	0.34	0.045
109866	Soil	1.1	33.2	27.0	71	0.5	21.9	9.0	239	2.68	21.9	2.8	7.5	8.5	24	<0.1	0.8	0.7	49	0.24	0.026
REP 109866	QC	1.1	33.5	29.4	70	0.5	21.3	9.0	238	2.68	21.5	2.8	7.8	8.6	23	0.2	0.9	0.7	50	0.24	0.024
131048	Soil	4.1	33.1	12.9	43	0.3	14.0	6.5	191	2.10	32.0	1.4	3.9	5.5	28	0.1	2.0	0.5	33	0.27	0.043
REP 131048	QC	4.1	33.6	13.0	44	0.3	14.1	6.4	197	2.14	32.4	1.3	4.8	5.6	28	0.1	2.0	0.5	34	0.26	0.044
114443	Soil	1.3	19.0	23.4	54	<0.1	15.0	6.2	288	2.23	8.7	1.5	1.9	6.0	27	0.1	0.9	0.3	30	0.21	0.044
REP 114443	QC	1.3	18.6	22.4	55	<0.1	15.5	6.3	296	2.33	8.5	1.6	0.9	6.2	26	<0.1	1.0	0.3	31	0.21	0.045
114459	Soil	0.4	11.3	41.5	18	0.3	6.8	2.5	67	1.17	32.6	1.1	6.0	6.6	17	<0.1	1.1	1.5	22	0.13	0.011
REP 114459	QC	0.5	10.8	42.7	18	0.3	6.7	2.4	65	1.12	33.0	1.1	5.4	6.8	16	<0.1	1.1	1.5	22	0.13	0.011
114468	Soil	1.1	19.8	13.9	56	0.2	16.7	9.9	514	2.28	8.3	1.6	2.3	3.4	28	0.1	0.6	0.2	35	0.30	0.059
REP 114468	QC	1.1	18.9	13.4	52	0.2	15.9	9.4	481	2.16	8.0	1.5	3.8	3.3	27	0.2	0.6	0.2	33	0.29	0.055
114493	Soil	0.8	15.8	47.3	33	0.4	12.4	4.8	146	1.83	50.4	1.1	6.4	8.9	16	0.1	2.2	1.0	38	0.13	0.017
REP 114493	QC	0.9	15.7	47.6	33	0.4	11.5	5.0	149	1.87	50.5	1.2	7.4	9.0	16	<0.1	2.2	0.9	39	0.13	0.017
145327	Soil	1.3	30.6	20.8	67	0.3	22.7	7.4	258	2.63	18.2	2.2	5.2	6.0	37	0.2	1.2	0.5	48	0.37	0.058
REP 145327	QC	1.2	30.7	22.4	68	0.3	23.2	7.3	255	2.56	18.5	2.1	4.8	6.1	37	0.2	1.3	0.6	47	0.37	0.058
102763	Soil	1.1	19.9	22.4	43	0.1	14.7	4.6	145	1.99	18.1	1.4	11.6	5.7	24	<0.1	1.2	0.3	38	0.22	0.039
REP 102763	QC	1.2	20.5	21.6	42	0.1	15.5	4.9	150	2.02	18.3	1.4	10.5	5.9	25	<0.1	1.2	0.3	38	0.24	0.042
102779	Soil	1.3	18.1	67.0	102	0.3	13.0	5.1	164	2.23	35.8	1.5	7.6	7.4	18	0.4	0.8	1.1	40	0.23	0.032
REP 102779	QC	1.3	18.6	70.1	104	0.3	13.5	5.2	175	2.30	37.0	1.5	7.2	7.9	19	0.4	0.9	1.1	41	0.24	0.032
117961	Soil	1.0	23.6	14.9	56	0.2	16.7	6.7	234	2.11	20.1	1.6	6.8	5.0	27	<0.1	1.2	0.3	41	0.33	0.046
REP 117961	QC	1.0	23.9	15.1	56	0.2	17.0	6.9	231	2.18	20.1	1.6	6.5	4.9	27	<0.1	1.2	0.3	42	0.33	0.045
124178	Soil	0.9	24.0	18.4	61	<0.1	18.7	9.2	388	2.71	10.1	1.9	2.2	18.3	24	0.1	0.7	0.7	46	0.39	0.039
REP 124178	QC	1.0	24.9	18.8	63	<0.1	18.9	9.2	395	2.67	9.8	1.9	1.4	18.8	25	<0.1	0.7	0.7	46	0.37	0.040
129143	Soil	1.4	20.6	14.3	52	0.1	17.8	6.9	218	2.25	10.3	1.7	2.8	7.9	23	0.1	0.7	0.4	41	0.28	0.047
REP 129143	QC	1.4	20.4	14.3	56	0.1	18.3	7.2	227	2.36	10.1	1.6	2.7	7.8	23	<0.1	0.7	0.4	43	0.28	0.048
102886	Soil	3.3	34.2	30.7	322	<0.1	39.0	27.3	1095	6.81	92.8	3.8	12.9	11.3	59	0.4	3.3	0.4	91	0.38	0.085
REP 102886	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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 Val D'Or QC J9P 1S5 Canada

Project: Bishop
 Report Date: September 19, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001146.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
109844	Soil	17	24	0.38	312	0.043	<1	1.38	0.011	0.05	0.1	0.04	3.5	0.1	<0.05	4	0.5	<0.2
REP 109844	QC	17	24	0.38	310	0.045	<1	1.39	0.011	0.06	0.2	0.03	3.6	0.1	<0.05	4	0.7	<0.2
109866	Soil	28	32	0.47	346	0.045	<1	1.67	0.010	0.07	0.1	0.10	6.0	0.1	<0.05	5	<0.5	<0.2
REP 109866	QC	28	32	0.47	356	0.046	1	1.68	0.010	0.07	0.1	0.09	5.8	0.1	<0.05	4	0.6	<0.2
131048	Soil	18	21	0.37	244	0.044	<1	1.24	0.011	0.05	0.2	0.03	2.9	0.1	<0.05	4	0.6	<0.2
REP 131048	QC	19	22	0.36	243	0.045	<1	1.23	0.011	0.04	0.2	0.02	2.9	0.1	<0.05	3	<0.5	<0.2
114443	Soil	21	21	0.27	229	0.020	<1	1.01	0.006	0.06	0.1	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
REP 114443	QC	21	21	0.28	228	0.021	<1	1.02	0.007	0.06	0.1	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
114459	Soil	21	12	0.17	140	0.020	<1	0.85	0.005	0.07	<0.1	0.09	1.4	0.1	<0.05	2	<0.5	<0.2
REP 114459	QC	20	12	0.17	139	0.018	<1	0.83	0.005	0.07	<0.1	0.09	1.3	0.1	<0.05	2	<0.5	<0.2
114468	Soil	17	20	0.32	290	0.017	<1	1.29	0.009	0.07	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 114468	QC	17	19	0.32	286	0.019	1	1.27	0.009	0.07	0.1	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
114493	Soil	19	20	0.32	148	0.044	<1	1.10	0.007	0.06	0.2	0.12	2.1	0.1	<0.05	3	<0.5	<0.2
REP 114493	QC	19	20	0.32	152	0.043	<1	1.10	0.007	0.06	0.1	0.12	2.1	0.1	<0.05	3	0.6	<0.2
145327	Soil	18	28	0.45	355	0.046	<1	1.51	0.012	0.07	0.2	0.08	4.7	0.1	<0.05	4	<0.5	<0.2
REP 145327	QC	18	28	0.45	363	0.045	<1	1.52	0.012	0.08	0.2	0.08	4.6	0.1	<0.05	5	<0.5	<0.2
102763	Soil	20	21	0.33	270	0.042	<1	1.09	0.009	0.06	0.1	0.07	2.7	0.2	<0.05	3	<0.5	<0.2
REP 102763	QC	19	22	0.35	274	0.043	<1	1.15	0.009	0.06	0.1	0.08	3.0	0.2	<0.05	3	<0.5	<0.2
102779	Soil	26	22	0.34	236	0.031	<1	1.19	0.008	0.06	0.1	0.04	2.2	0.2	<0.05	4	<0.5	<0.2
REP 102779	QC	27	22	0.35	243	0.033	<1	1.19	0.008	0.06	0.1	0.04	2.4	0.2	<0.05	4	<0.5	<0.2
117961	Soil	17	23	0.37	336	0.041	<1	1.25	0.009	0.04	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
REP 117961	QC	18	24	0.37	345	0.045	2	1.31	0.010	0.05	0.2	0.07	3.5	<0.1	<0.05	4	<0.5	<0.2
124178	Soil	34	25	0.49	321	0.035	<1	1.83	0.009	0.21	0.1	0.03	4.0	0.3	<0.05	7	<0.5	<0.2
REP 124178	QC	35	25	0.48	328	0.034	<1	1.80	0.009	0.20	0.1	0.03	4.0	0.3	<0.05	7	<0.5	<0.2
129143	Soil	18	24	0.40	259	0.038	<1	1.45	0.008	0.05	0.1	0.04	2.9	0.1	<0.05	4	<0.5	<0.2
REP 129143	QC	19	26	0.41	264	0.041	<1	1.44	0.009	0.05	0.1	0.04	2.9	0.1	<0.05	5	<0.5	<0.2
102886	Soil	44	28	0.59	496	0.056	<1	2.34	0.012	0.10	<0.1	0.07	10.1	0.9	<0.05	8	0.6	<0.2
REP 102886	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Project: Bishop
 Report Date: September 19, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001146.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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
123268	Soil	1.0	18.6	29.9	60	0.2	14.8	7.6	222	2.24	16.8	1.9	3.6	7.7	23	0.2	0.9	0.4	43	0.24	0.034
REP 123268	QC	1.0	18.1	29.4	58	0.2	15.0	7.3	219	2.10	15.9	1.8	4.8	7.1	23	0.3	0.8	0.3	41	0.25	0.032
Reference Materials																					
STD DS8	Standard	13.8	115.5	129.6	323	1.9	40.7	8.2	640	2.55	25.8	2.9	114.8	7.1	70	2.5	5.9	6.5	44	0.72	0.081
STD DS8	Standard	13.3	118.5	135.6	332	1.8	40.6	8.1	656	2.64	26.1	3.2	120.1	7.4	67	2.5	6.3	7.7	45	0.70	0.087
STD DS8	Standard	11.0	94.7	104.4	274	1.6	33.6	6.6	527	2.09	22.2	2.2	105.0	5.5	54	2.0	4.9	5.7	36	0.60	0.070
STD DS8	Standard	12.4	104.6	119.2	289	1.7	36.7	7.1	577	2.35	22.8	2.6	108.8	6.0	58	2.0	4.9	6.2	41	0.65	0.079
STD DS8	Standard	11.7	104.0	121.0	303	1.8	36.1	7.0	582	2.36	24.0	2.6	103.9	6.3	62	2.2	5.0	6.5	39	0.66	0.074
STD DS8	Standard	13.6	116.9	128.2	324	1.9	40.2	8.1	635	2.55	25.9	2.6	114.8	6.5	68	2.4	5.8	6.9	44	0.71	0.080
STD DS8	Standard	11.9	99.6	109.4	283	1.6	33.7	6.9	543	2.16	22.4	2.6	97.0	6.0	60	2.1	5.0	5.4	37	0.63	0.070
STD DS8	Standard	13.2	110.0	127.5	316	1.7	40.1	7.6	601	2.43	25.7	2.8	104.1	6.9	64	2.5	5.5	6.8	43	0.67	0.078
STD DS8	Standard	13.5	112.2	124.3	320	1.7	39.0	7.8	588	2.43	24.4	2.9	112.7	7.0	64	2.4	5.5	6.8	36	0.68	0.079
STD DS8	Standard	13.2	117.8	119.7	315	1.8	42.3	8.7	620	2.55	24.1	2.5	111.2	6.0	61	2.5	5.5	6.9	48	0.69	0.081
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Bishop

Report Date: September 19, 2011

Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11001146.1

		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	0.01	0.05	1	0.5	0.2
123268	Soil	20	24	0.41	246	0.043	<1	1.44	0.011	0.06	0.1	0.03	2.9	0.1	<0.05	4	<0.5	<0.2
REP 123268	QC	19	23	0.38	237	0.038	<1	1.43	0.011	0.06	0.1	0.03	2.9	0.1	<0.05	4	0.6	<0.2
Reference Materials																		
STD DS8	Standard	16	120	0.63	285	0.123	3	0.95	0.090	0.42	3.0	0.19	2.3	5.7	0.10	5	5.9	5.3
STD DS8	Standard	15	124	0.65	280	0.127	2	0.93	0.084	0.43	3.1	0.20	2.1	5.7	0.16	5	4.7	5.4
STD DS8	Standard	12	99	0.52	234	0.101	1	0.76	0.072	0.36	2.5	0.16	1.8	4.6	0.15	4	4.5	4.3
STD DS8	Standard	14	113	0.56	258	0.111	2	0.84	0.071	0.39	2.7	0.19	1.9	5.1	0.17	4	4.9	4.5
STD DS8	Standard	14	109	0.59	261	0.106	2	0.87	0.091	0.39	2.9	0.22	2.1	5.5	0.16	5	5.6	5.3
STD DS8	Standard	15	122	0.64	287	0.123	3	0.95	0.093	0.43	3.1	0.20	2.2	5.3	0.16	5	5.7	5.2
STD DS8	Standard	14	104	0.55	247	0.111	2	0.81	0.077	0.37	2.6	0.19	1.7	4.6	0.15	4	5.3	4.5
STD DS8	Standard	15	115	0.63	290	0.116	2	0.87	0.085	0.42	3.0	0.21	2.0	5.6	0.18	5	5.0	4.7
STD DS8	Standard	15	116	0.58	265	0.117	3	0.86	0.081	0.39	3.0	0.19	2.0	5.4	0.17	5	5.3	5.0
STD DS8	Standard	14	127	0.63	264	0.124	3	0.91	0.083	0.40	3.0	0.20	2.1	5.4	0.20	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
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 23, 2011
Report Date: September 18, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11001150.1

CLIENT JOB INFORMATION

Project: Bishop
Shipment ID: 20110809213923
P.O. Number
Number of Samples: 46

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.

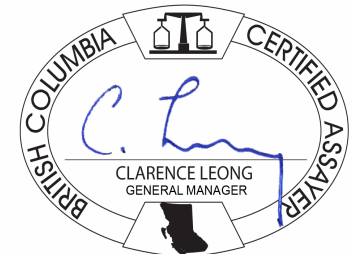
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS



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Project: Bishop
 Report Date: September 18, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
113816	Soil	1.6	31.5	16.1	51	<0.1	24.2	8.5	289	2.63	14.4	1.8	4.4	7.9	20	<0.1	0.8	0.2	57	0.26	0.018
113817	Soil	1.2	29.9	12.7	70	0.1	28.3	8.6	371	2.51	10.2	0.8	3.4	5.4	27	0.2	0.7	0.2	52	0.38	0.053
113818	Soil	1.3	30.3	13.2	68	0.1	29.3	10.6	500	2.69	10.9	0.6	4.0	5.7	27	0.2	0.7	0.2	59	0.48	0.053
113819	Soil	0.9	30.4	9.3	59	0.1	26.5	9.9	423	2.44	9.3	0.8	2.4	4.5	36	0.2	0.6	0.1	47	0.59	0.067
113820	Soil	0.9	27.3	9.5	53	0.1	26.6	8.6	397	2.32	8.8	2.8	4.2	3.8	37	0.1	0.5	0.1	53	0.70	0.058
113821	Soil	0.8	19.8	12.4	57	0.2	18.1	6.4	366	2.21	11.9	1.9	3.1	3.3	38	0.2	0.4	0.3	47	0.57	0.068
113822	Soil	1.2	24.3	18.6	72	0.1	22.3	7.2	283	2.46	10.8	1.6	24.3	9.2	25	0.2	0.7	0.2	54	0.38	0.047
113823	Soil	1.2	30.5	19.1	73	0.2	26.2	8.9	362	2.74	11.9	2.9	5.2	6.5	30	0.2	0.7	0.2	60	0.48	0.047
113824	Soil	0.6	10.6	15.2	118	<0.1	8.8	6.0	360	2.49	15.3	6.0	2.0	32.6	14	0.6	0.2	0.1	22	0.16	0.021
113825	Soil	0.8	19.5	19.0	246	<0.1	15.0	9.1	470	3.81	27.1	4.4	7.3	30.2	19	0.4	0.2	0.3	44	0.40	0.118
113826	Soil	1.5	21.2	19.5	76	0.1	18.6	6.6	272	2.72	26.5	1.8	4.7	8.9	24	0.1	0.6	0.4	53	0.38	0.057
113827	Soil	1.1	11.9	23.4	108	<0.1	15.4	10.2	573	3.66	25.3	2.8	3.0	18.8	25	0.3	0.3	0.3	39	0.46	0.116
113829	Soil	1.3	33.0	21.1	109	0.1	25.7	11.3	507	3.65	19.6	2.3	7.8	16.3	30	0.3	0.6	0.5	65	0.49	0.074
113830	Soil	1.2	27.2	26.7	241	0.1	20.1	10.9	596	4.44	30.8	4.6	5.4	21.8	26	0.4	0.7	0.6	62	0.50	0.126
113831	Soil	1.6	11.3	32.7	93	<0.1	12.2	8.9	337	2.83	17.8	2.7	0.6	33.3	10	0.2	0.5	0.8	22	0.16	0.045
113832	Soil	0.8	24.2	64.8	130	<0.1	13.2	10.2	547	4.00	13.3	2.8	2.4	80.2	28	0.4	0.4	1.0	39	0.50	0.119
113833	Soil	3.1	17.8	21.5	276	0.2	20.4	17.9	3209	8.79	11.7	2.3	5.5	8.7	43	0.1	0.7	0.2	78	0.75	0.222
113834	Soil	1.9	43.6	19.3	118	<0.1	15.9	7.7	513	3.61	27.4	4.4	2.0	25.4	17	0.1	0.7	1.3	38	0.25	0.066
113835	Soil	1.3	23.8	29.1	85	0.2	17.1	6.4	243	2.32	47.6	1.9	3.6	10.2	24	0.2	1.2	0.9	40	0.27	0.050
113836	Soil	1.6	24.7	24.2	74	0.1	16.3	6.8	295	2.66	46.4	1.9	5.3	10.2	24	0.2	1.4	0.8	52	0.27	0.046
113837	Soil	2.4	36.5	41.7	106	0.2	27.7	11.5	735	3.76	37.2	1.8	9.5	10.3	30	0.5	1.6	1.1	64	0.43	0.080
113838	Soil	1.6	45.1	31.1	139	0.2	22.1	8.6	404	3.31	47.3	1.9	8.1	18.4	21	0.3	1.7	4.1	48	0.41	0.079
113839	Soil	2.0	36.8	23.2	59	0.5	20.0	7.2	202	2.61	34.3	1.9	12.6	3.3	25	0.5	1.5	0.4	49	0.26	0.044
113840	Soil	1.4	27.4	17.6	64	0.2	23.3	8.0	267	2.74	19.6	1.7	8.6	7.0	28	<0.1	1.0	0.4	56	0.38	0.045
113841	Soil	1.9	25.9	27.8	64	0.3	19.4	6.6	214	2.35	10.5	3.2	14.1	10.9	26	0.3	0.7	0.7	36	0.31	0.036
113842	Soil	1.9	27.8	14.8	51	0.1	22.4	7.4	250	2.57	11.8	1.3	16.0	4.4	26	<0.1	0.8	0.2	57	0.38	0.037
113843	Soil	1.1	34.7	22.8	108	0.2	34.5	9.2	217	2.96	21.7	1.5	6.8	7.7	20	0.2	0.9	0.8	36	0.18	0.037
113844	Soil	1.2	33.0	19.5	84	0.1	26.9	8.9	247	2.80	21.9	1.4	8.0	6.1	25	0.2	1.0	0.6	43	0.25	0.045
113845	Soil	1.2	20.7	16.6	46	0.1	13.7	5.2	166	1.93	16.4	1.2	8.1	4.9	25	0.2	0.9	0.3	35	0.28	0.042
113846	Soil	1.1	26.9	16.8	54	0.2	19.2	6.3	228	2.19	15.5	1.6	11.0	4.2	30	0.2	1.1	0.3	38	0.32	0.050

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
113816	Soil	22	32	0.42	348	0.049	<1	1.75	0.015	0.07	0.1	0.05	4.0	0.1	<0.05	5	<0.5	<0.2
113817	Soil	17	26	0.52	374	0.054	<1	1.33	0.024	0.07	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
113818	Soil	17	28	0.50	368	0.066	1	1.51	0.025	0.09	0.2	0.04	3.1	<0.1	<0.05	5	<0.5	<0.2
113819	Soil	15	23	0.54	276	0.063	1	1.18	0.028	0.08	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
113820	Soil	16	25	0.47	353	0.053	1	1.28	0.024	0.05	0.2	0.03	2.7	<0.1	0.05	4	0.6	<0.2
113821	Soil	21	24	0.40	380	0.038	<1	1.58	0.019	0.06	0.2	0.05	2.7	0.1	0.06	5	<0.5	<0.2
113822	Soil	26	28	0.44	314	0.065	<1	1.56	0.023	0.12	0.2	0.04	3.1	0.2	<0.05	5	<0.5	<0.2
113823	Soil	23	32	0.47	403	0.059	<1	1.66	0.021	0.09	0.2	0.04	3.5	0.1	<0.05	5	<0.5	<0.2
113824	Soil	95	18	0.44	190	0.034	<1	1.75	0.012	0.45	<0.1	0.02	2.5	0.4	<0.05	8	<0.5	<0.2
113825	Soil	65	41	0.90	283	0.133	<1	2.62	0.012	0.96	<0.1	0.03	4.8	0.8	<0.05	12	<0.5	<0.2
113826	Soil	30	26	0.44	221	0.048	<1	1.50	0.017	0.10	0.2	0.04	3.3	0.2	<0.05	5	<0.5	<0.2
113827	Soil	68	32	0.60	222	0.040	<1	1.93	0.017	0.36	<0.1	0.02	3.5	0.3	<0.05	9	<0.5	<0.2
113829	Soil	47	39	0.71	271	0.079	<1	2.20	0.016	0.23	<0.1	0.05	4.8	0.2	<0.05	10	<0.5	<0.2
113830	Soil	75	42	0.76	331	0.041	<1	2.36	0.017	0.37	<0.1	0.04	6.2	0.4	<0.05	12	0.5	<0.2
113831	Soil	77	20	0.29	125	0.005	<1	1.30	0.009	0.10	<0.1	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2
113832	Soil	226	34	0.89	168	0.018	<1	2.52	0.015	0.19	<0.1	0.01	4.6	0.3	<0.05	14	<0.5	<0.2
113833	Soil	39	15	0.44	281	0.008	<1	1.72	0.013	0.13	<0.1	0.17	6.1	0.7	0.12	8	<0.5	<0.2
113834	Soil	69	28	0.53	140	0.094	<1	1.51	0.008	0.54	0.1	0.03	4.8	1.0	0.09	7	0.5	<0.2
113835	Soil	28	20	0.32	204	0.044	<1	0.90	0.014	0.08	<0.1	0.05	2.7	0.3	<0.05	4	<0.5	<0.2
113836	Soil	25	24	0.39	195	0.063	<1	1.13	0.020	0.13	0.1	0.03	2.5	0.3	<0.05	5	<0.5	<0.2
113837	Soil	29	28	0.56	327	0.064	<1	1.71	0.013	0.15	0.1	0.06	4.6	0.3	<0.05	8	<0.5	<0.2
113838	Soil	36	36	0.67	282	0.095	<1	1.95	0.012	0.31	0.2	0.09	3.9	0.4	<0.05	9	<0.5	<0.2
113839	Soil	19	25	0.33	324	0.055	<1	1.73	0.013	0.07	0.2	0.07	2.8	0.2	<0.05	6	<0.5	<0.2
113840	Soil	22	30	0.46	372	0.060	<1	1.57	0.017	0.08	0.2	0.07	3.6	0.1	<0.05	5	<0.5	<0.2
113841	Soil	33	19	0.30	333	0.027	<1	1.31	0.016	0.10	0.1	0.05	3.2	0.2	<0.05	4	<0.5	<0.2
113842	Soil	16	28	0.45	365	0.058	<1	1.62	0.017	0.05	0.2	0.05	3.4	0.1	<0.05	5	<0.5	<0.2
113843	Soil	23	19	0.18	203	0.022	<1	0.73	0.010	0.07	<0.1	0.04	2.7	0.1	<0.05	3	<0.5	<0.2
113844	Soil	17	25	0.31	302	0.031	2	1.00	0.010	0.06	0.2	0.05	3.9	<0.1	<0.05	3	<0.5	<0.2
113845	Soil	15	20	0.33	305	0.031	1	1.07	0.010	0.05	0.2	0.05	2.7	<0.1	<0.05	3	<0.5	<0.2
113846	Soil	15	22	0.39	376	0.031	2	1.19	0.012	0.05	0.2	0.06	3.2	0.1	<0.05	3	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
113847	Soil	1.0	15.8	14.2	38	0.1	12.0	6.9	240	1.74	15.0	1.0	11.3	4.2	20	0.1	1.1	0.3	32	0.23	0.045
113848	Soil	1.1	20.9	14.7	107	<0.1	26.4	9.5	379	3.75	22.3	1.3	2.6	7.7	21	0.2	1.4	0.2	36	0.30	0.073
113849	Soil	1.1	21.9	13.2	53	0.1	16.3	7.9	298	2.31	11.8	1.2	2.5	4.2	25	0.1	0.8	0.2	46	0.30	0.036
113850	Soil	1.3	20.3	15.7	56	0.1	20.1	7.5	265	2.46	12.9	0.9	3.8	4.7	25	<0.1	0.9	0.3	44	0.32	0.042
123279	Soil	2.3	36.2	16.7	74	0.2	22.5	9.1	309	2.75	13.0	1.6	20.2	4.9	34	0.3	1.1	0.3	49	0.35	0.066
123280	Soil	5.3	42.1	21.5	78	0.3	19.3	7.1	207	2.59	21.1	1.6	23.9	4.9	35	0.3	1.6	0.2	46	0.30	0.056
123281	Soil	1.7	27.3	22.0	57	0.2	17.3	5.4	169	2.03	18.7	1.3	15.9	5.1	30	0.1	1.4	0.2	39	0.31	0.045
123282	Soil	1.3	18.4	20.4	43	0.1	13.1	5.0	160	1.79	14.5	1.5	10.3	4.8	22	0.1	1.1	0.2	34	0.22	0.041
123283	Soil	0.9	22.7	18.0	49	0.2	16.9	6.4	209	2.18	15.0	2.0	7.0	4.0	28	0.1	1.1	0.2	40	0.32	0.044
123284	Soil	1.5	16.0	19.2	46	0.1	14.2	5.7	173	2.12	24.3	0.9	20.2	4.1	24	0.2	1.8	0.3	40	0.20	0.036
123285	Soil	1.0	19.7	17.3	42	0.1	14.2	5.4	183	1.90	15.6	1.2	3.6	4.4	24	<0.1	1.2	0.4	36	0.25	0.041
123286	Soil	1.2	13.2	18.0	46	0.1	12.1	4.9	165	1.84	15.4	1.0	4.8	4.1	22	0.2	1.1	0.4	35	0.20	0.034
123287	Soil	1.1	19.2	13.6	46	0.1	15.9	6.6	227	2.13	13.8	1.3	3.7	4.2	23	<0.1	0.9	0.3	42	0.25	0.034
123288	Soil	1.1	24.5	15.6	43	0.1	16.2	5.9	199	2.10	21.0	1.6	5.2	4.9	26	<0.1	1.1	0.4	40	0.27	0.041
123289	Soil	1.7	21.6	19.8	55	0.2	15.5	6.0	167	3.03	55.0	1.5	3.8	5.6	25	0.2	2.6	0.7	41	0.16	0.052
123290	Soil	1.7	22.0	20.3	55	0.2	17.0	6.3	166	3.14	52.2	1.5	12.4	5.5	25	0.2	2.2	0.8	41	0.19	0.051



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
113847	Soil	13	17	0.28	232	0.025	1	0.79	0.008	0.04	0.2	0.04	2.1	<0.1	<0.05	2	<0.5	<0.2
113848	Soil	24	20	0.40	274	0.024	2	1.23	0.010	0.10	0.2	0.03	3.3	0.1	<0.05	4	<0.5	<0.2
113849	Soil	16	24	0.39	307	0.042	1	1.32	0.011	0.07	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
113850	Soil	15	27	0.40	297	0.039	<1	1.32	0.010	0.07	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
123279	Soil	16	25	0.44	440	0.045	1	1.32	0.014	0.05	0.1	0.10	4.1	0.2	<0.05	4	<0.5	<0.2
123280	Soil	15	23	0.39	373	0.051	1	1.30	0.012	0.06	0.1	0.13	3.8	0.3	<0.05	4	0.6	<0.2
123281	Soil	15	22	0.39	313	0.049	1	1.15	0.012	0.06	0.1	0.12	3.1	0.1	<0.05	4	<0.5	<0.2
123282	Soil	15	19	0.34	258	0.030	2	1.03	0.008	0.05	0.2	0.06	2.3	0.1	<0.05	3	<0.5	<0.2
123283	Soil	15	22	0.39	355	0.029	<1	1.24	0.011	0.05	0.2	0.06	3.0	0.1	<0.05	4	0.6	<0.2
123284	Soil	14	21	0.33	258	0.032	<1	1.19	0.009	0.06	0.1	0.05	2.3	0.2	<0.05	4	<0.5	<0.2
123285	Soil	16	20	0.32	257	0.035	<1	0.94	0.009	0.05	0.1	0.05	2.7	0.1	<0.05	3	<0.5	<0.2
123286	Soil	15	19	0.29	221	0.030	<1	0.95	0.008	0.05	0.1	0.04	2.1	0.1	<0.05	3	<0.5	<0.2
123287	Soil	14	23	0.37	270	0.033	<1	1.19	0.009	0.05	0.1	0.03	2.6	<0.1	<0.05	4	0.5	<0.2
123288	Soil	16	24	0.35	288	0.035	<1	1.13	0.009	0.05	0.2	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
123289	Soil	17	21	0.28	234	0.030	2	0.90	0.011	0.08	0.2	0.09	2.4	0.4	0.05	3	0.7	<0.2
123290	Soil	16	23	0.30	246	0.027	<1	0.97	0.011	0.08	0.2	0.09	2.5	0.4	0.07	3	0.7	<0.2



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Project: Bishop

Report Date: September 18, 2011

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QUALITY CONTROL REPORT

WHI11001150.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
113817	Soil	1.2	29.9	12.7	70	0.1	28.3	8.6	371	2.51	10.2	0.8	3.4	5.4	27	0.2	0.7	0.2	52	0.38	0.053
REP 113817	QC	1.2	29.8	12.4	72	0.1	27.7	8.5	379	2.55	10.1	0.8	6.2	5.2	27	0.2	0.7	0.2	54	0.42	0.053
113834	Soil	1.9	43.6	19.3	118	<0.1	15.9	7.7	513	3.61	27.4	4.4	2.0	25.4	17	0.1	0.7	1.3	38	0.25	0.066
REP 113834	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
113849	Soil	1.1	21.9	13.2	53	0.1	16.3	7.9	298	2.31	11.8	1.2	2.5	4.2	25	0.1	0.8	0.2	46	0.30	0.036
REP 113849	QC	1.1	21.0	12.9	52	0.1	15.7	7.4	292	2.27	11.8	1.3	2.4	4.1	24	0.1	0.8	0.2	44	0.28	0.035
Reference Materials																					
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	0.065
STD DS8	Standard	12.3	104.8	121.2	297	1.7	34.7	7.1	560	2.30	23.7	2.6	117.7	6.4	59	2.3	5.2	6.1	40	0.61	0.068
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



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Project: Bishop

Report Date: September 18, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11001150.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
113817	Soil	17	26	0.52	374	0.054	<1	1.33	0.024	0.07	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
REP 113817	QC	18	28	0.50	368	0.060	<1	1.37	0.022	0.07	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
113834	Soil	69	28	0.53	140	0.094	<1	1.51	0.008	0.54	0.1	0.03	4.8	1.0	0.09	7	0.5	<0.2
REP 113834	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
113849	Soil	16	24	0.39	307	0.042	1	1.32	0.011	0.07	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 113849	QC	16	24	0.39	303	0.041	1	1.30	0.010	0.07	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
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	13	108	0.56	250	0.106	2	0.79	0.073	0.38	2.7	0.18	1.9	5.1	0.12	4	5.1	4.7
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



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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: August 23, 2011
Report Date: September 30, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001151.1

CLIENT JOB INFORMATION

Project: Bishop
Shipment ID: 20110809221104
P.O. Number
Number of Samples: 319

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.

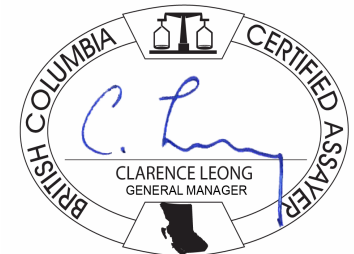
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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: Bishop
 Report Date: September 30, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001151.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
110741	Soil	1.5	24.9	13.8	68	0.2	23.5	8.0	279	2.19	20.5	1.3	6.6	4.6	23	0.2	1.3	0.3	43	0.32	0.056
110742	Soil	1.2	23.1	15.3	59	0.2	21.4	7.2	229	2.10	19.5	1.1	4.9	3.7	23	0.2	1.0	0.2	47	0.31	0.042
110743	Soil	1.8	27.3	29.2	70	0.2	26.6	10.7	337	2.51	55.8	1.2	4.5	5.7	30	0.2	1.8	0.7	49	0.33	0.045
110744	Soil	1.9	28.7	39.5	67	0.2	28.2	11.3	339	2.61	32.8	1.1	10.1	4.8	35	0.1	2.0	0.3	59	0.40	0.045
110745	Soil	2.0	32.4	36.5	84	0.3	29.0	9.5	297	2.77	30.6	0.9	<0.5	5.0	37	0.5	2.2	<0.1	54	0.36	0.049
110746	Soil	1.5	32.3	28.1	82	0.2	26.8	11.2	383	2.81	47.7	0.7	11.9	5.8	35	0.4	2.4	0.3	52	0.40	0.051
110747	Soil	2.8	32.6	43.2	86	0.3	33.8	9.7	315	2.77	40.9	1.2	6.6	4.8	41	0.4	1.9	0.2	57	0.43	0.048
110748	Soil	1.4	27.2	18.3	69	0.1	24.1	8.9	284	2.68	19.4	0.8	12.3	5.7	31	0.2	1.3	0.3	52	0.37	0.039
110749	Soil	4.5	40.0	118.3	315	0.2	12.4	37.3	1060	8.25	50.2	3.2	21.5	14.3	256	0.8	3.2	1.2	106	0.91	0.262
110750	Soil	4.4	32.1	28.9	52	0.1	11.3	10.5	555	5.62	40.6	2.3	24.6	12.1	64	0.1	17.2	0.8	99	0.76	0.199
110751	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.
110752	Soil	2.2	33.0	15.9	47	<0.1	21.7	38.3	793	1.89	121.7	1.4	91.6	14.0	7	0.5	10.3	0.4	24	0.03	0.017
110753	Soil	1.0	9.0	107.2	229	0.1	14.9	4.0	58	1.63	184.5	1.1	34.5	13.9	14	0.4	2.3	0.2	5	0.12	0.015
110754	Soil	7.0	32.9	29.3	61	0.2	23.5	14.1	472	3.20	29.3	1.9	50.3	7.6	137	0.4	1.2	0.3	51	0.31	0.061
110755	Soil	3.6	19.9	16.3	59	0.2	21.2	10.5	708	2.66	36.7	1.1	7.4	7.0	49	0.4	0.8	0.3	40	0.36	0.056
110756	Soil	1.9	19.2	20.0	60	0.1	19.4	9.4	308	2.97	38.0	0.9	42.0	5.4	35	0.2	0.5	0.3	56	0.26	0.025
110757	Soil	1.5	24.3	14.9	53	0.1	17.1	8.5	336	3.26	23.4	0.9	6.0	5.3	56	0.1	0.6	0.4	67	0.45	0.059
110758	Soil	2.1	24.8	45.0	90	0.2	18.3	8.7	415	3.38	125.1	1.3	13.5	5.9	125	0.2	0.8	1.9	62	0.39	0.044
110759	Soil	1.3	13.5	17.2	51	<0.1	13.3	7.2	282	2.35	34.9	0.7	2.8	3.6	36	0.1	0.5	0.6	53	0.29	0.040
110760	Soil	1.2	24.1	12.9	51	<0.1	17.8	6.8	253	2.46	17.5	0.9	3.2	4.5	47	0.1	0.6	0.3	47	0.37	0.051
110761	Soil	1.3	19.4	11.0	49	<0.1	17.2	7.4	217	2.43	20.3	0.6	7.3	3.8	30	<0.1	0.5	0.3	46	0.28	0.045
110762	Soil	1.0	18.9	20.9	55	0.1	19.3	7.6	248	2.14	13.2	0.8	5.6	4.1	30	0.1	0.5	0.2	40	0.32	0.047
110763	Soil	1.3	28.2	18.2	65	0.2	24.8	9.5	344	2.72	23.3	0.7	8.0	4.5	37	0.2	0.7	0.2	43	0.49	0.052
110764	Soil	1.3	28.1	17.6	55	0.2	23.7	8.3	320	2.50	26.8	0.6	9.3	3.9	27	0.2	0.9	0.2	46	0.36	0.060
110765	Soil	1.5	26.4	25.9	63	0.2	25.7	8.4	318	2.51	28.7	0.8	14.3	4.8	24	0.2	1.1	0.2	47	0.37	0.069
110766	Soil	2.0	27.3	29.6	59	0.2	30.3	9.8	381	2.50	26.1	1.3	22.1	4.6	31	<0.1	1.1	0.1	56	0.39	0.031
110767	Soil	1.2	32.2	24.9	66	0.1	27.3	9.4	321	2.66	30.0	0.8	8.4	4.1	23	<0.1	1.0	0.2	50	0.32	0.033
110768	Soil	1.1	32.8	113.0	73	0.4	25.7	8.6	270	2.50	108.5	1.2	27.4	4.8	23	0.3	3.1	0.5	48	0.28	0.025
110769	Soil	1.3	27.5	36.1	82	0.1	26.3	8.2	220	2.28	33.1	1.0	8.8	4.8	19	0.2	1.3	0.3	44	0.22	0.021
110770	Soil	1.0	24.3	174.6	76	0.3	18.9	5.6	152	1.98	71.1	0.7	13.7	5.0	16	0.2	2.8	0.5	31	0.18	0.017

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.



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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
110741	Soil	13	31	0.36	303	0.035	2	1.18	0.011	0.04	0.1	0.04	2.9	<0.1	<0.05	4	0.6	<0.2
110742	Soil	12	30	0.38	268	0.045	2	1.31	0.010	0.04	0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
110743	Soil	19	39	0.39	332	0.073	6	1.40	0.016	0.09	0.4	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2
110744	Soil	19	44	0.41	376	0.083	3	1.74	0.018	0.06	0.3	0.03	4.6	<0.1	<0.05	5	<0.5	0.3
110745	Soil	18	42	0.44	363	0.100	5	1.58	0.021	0.08	0.4	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
110746	Soil	18	34	0.45	378	0.074	1	1.59	0.016	0.07	0.3	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2
110747	Soil	18	44	0.45	378	0.092	<1	1.78	0.017	0.07	0.3	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
110748	Soil	17	31	0.47	345	0.060	<1	1.61	0.013	0.05	0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
110749	Soil	51	16	0.78	861	0.018	1	2.73	0.015	0.09	<0.1	0.03	11.6	<0.1	<0.05	12	1.2	<0.2
110750	Soil	41	17	0.93	376	0.019	3	2.43	0.016	0.08	<0.1	0.02	9.6	0.1	<0.05	11	<0.5	<0.2
110751	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.
110752	Soil	30	21	0.16	78	0.006	<1	1.23	0.004	0.08	<0.1	<0.01	1.7	0.2	<0.05	3	<0.5	<0.2
110753	Soil	16	7	0.10	56	<0.001	1	0.65	0.002	0.04	<0.1	0.01	1.3	<0.1	<0.05	1	0.5	<0.2
110754	Soil	28	24	0.38	380	0.031	<1	1.55	0.012	0.10	0.1	0.03	4.4	0.3	<0.05	5	<0.5	<0.2
110755	Soil	17	21	0.34	332	0.018	1	1.61	0.006	0.15	0.1	<0.01	1.8	0.2	<0.05	5	<0.5	<0.2
110756	Soil	14	28	0.50	278	0.046	<1	1.79	0.010	0.05	0.1	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
110757	Soil	17	27	0.57	200	0.051	<1	1.66	0.012	0.04	0.2	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
110758	Soil	20	28	0.53	337	0.044	<1	1.78	0.016	0.05	0.1	0.03	4.9	0.1	<0.05	6	0.7	0.2
110759	Soil	12	22	0.44	250	0.039	<1	1.46	0.009	0.03	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
110760	Soil	16	23	0.46	280	0.047	<1	1.38	0.012	0.03	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
110761	Soil	14	24	0.49	276	0.045	<1	1.34	0.011	0.03	0.2	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
110762	Soil	14	25	0.45	281	0.032	<1	1.36	0.011	0.04	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
110763	Soil	15	25	0.48	394	0.032	<1	1.38	0.015	0.05	0.1	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
110764	Soil	14	29	0.45	306	0.039	<1	1.30	0.012	0.05	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
110765	Soil	15	34	0.43	270	0.039	<1	1.23	0.012	0.05	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
110766	Soil	16	45	0.48	363	0.082	1	1.65	0.017	0.07	0.3	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
110767	Soil	14	33	0.45	311	0.040	<1	1.37	0.010	0.05	0.1	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
110768	Soil	15	32	0.41	306	0.043	<1	1.45	0.008	0.05	0.1	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
110769	Soil	17	32	0.32	284	0.044	<1	1.28	0.007	0.05	0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
110770	Soil	18	21	0.22	213	0.022	<1	0.93	0.005	0.07	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2

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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
110771	Soil	1.2	37.6	59.8	73	0.1	28.5	9.4	262	2.92	53.1	0.7	9.7	6.2	29	0.3	4.2	0.3	58	0.31	0.023
110772	Soil	1.9	27.5	42.2	78	0.4	28.6	8.3	284	2.56	39.3	1.0	7.0	3.6	26	0.3	2.4	0.4	53	0.27	0.031
110773	Soil	1.4	33.0	26.6	66	0.1	29.5	8.9	312	2.72	30.8	0.8	8.5	4.3	26	0.1	2.0	0.3	50	0.33	0.034
110774	Soil	0.8	21.8	20.1	51	<0.1	19.1	6.7	219	2.05	16.9	1.2	3.7	4.9	17	<0.1	2.5	0.3	39	0.21	0.018
110775	Soil	1.1	25.1	32.7	44	0.2	22.3	7.1	229	2.21	61.2	1.5	5.7	6.2	22	0.1	2.4	0.5	38	0.27	0.029
110776	Soil	1.7	48.8	33.1	108	0.2	43.7	10.2	389	2.72	40.7	1.4	5.7	3.3	32	0.5	1.3	0.3	53	0.32	0.074
110777	Soil	0.8	22.4	21.3	62	0.1	16.7	7.0	402	2.23	9.4	4.9	3.2	22.8	23	0.1	1.8	0.6	37	0.28	0.030
110778	Soil	1.5	14.4	21.9	52	0.2	19.0	6.3	412	2.16	9.7	2.1	5.9	12.9	22	<0.1	0.9	0.5	40	0.26	0.033
110779	Soil	0.9	25.6	17.6	62	<0.1	22.4	9.6	445	2.81	12.7	2.0	4.6	16.4	28	<0.1	1.1	0.3	47	0.37	0.054
110780	Soil	3.6	54.8	19.4	125	0.1	52.4	10.1	266	3.60	9.6	4.5	10.1	11.9	29	0.2	0.8	0.3	64	0.38	0.049
110781	Soil	1.7	43.7	18.9	95	0.2	44.1	10.7	673	3.44	10.6	2.5	6.1	8.3	33	0.1	1.1	0.3	65	0.48	0.075
110782	Soil	1.5	26.3	17.7	84	<0.1	22.3	7.6	336	3.18	9.1	2.4	2.5	24.7	23	<0.1	1.0	0.3	40	0.29	0.024
110783	Soil	1.4	23.6	17.6	83	<0.1	24.1	9.5	380	3.47	6.1	1.9	5.8	13.9	24	<0.1	0.8	0.3	49	0.37	0.039
110784	Soil	1.5	23.0	23.9	89	0.2	24.7	8.1	419	3.34	6.5	2.5	4.4	13.9	28	0.2	0.6	0.3	40	0.45	0.066
110785	Soil	0.7	42.4	10.9	76	<0.1	30.5	11.8	418	3.30	5.8	1.6	4.3	15.3	26	0.1	0.7	0.2	40	0.39	0.042
110786	Soil	1.0	31.3	14.2	59	<0.1	31.9	8.5	445	2.72	7.8	2.3	2.5	17.5	25	<0.1	0.7	0.5	37	0.34	0.032
110787	Soil	1.4	32.5	27.9	62	0.2	27.2	11.8	441	2.68	23.0	2.3	5.0	4.7	40	0.2	1.1	0.2	57	0.50	0.048
110788	Soil	1.4	20.8	17.2	54	0.2	19.4	9.5	347	2.55	17.6	1.8	4.7	5.8	33	<0.1	0.9	0.3	54	0.41	0.041
110789	Soil	1.8	29.3	21.7	74	0.1	25.7	9.3	365	3.36	21.2	2.1	9.5	7.0	42	0.1	0.9	0.4	67	0.50	0.059
110790	Soil	1.2	32.1	15.5	56	0.1	26.2	9.8	339	2.76	14.3	2.6	5.5	5.8	45	0.1	0.8	0.2	54	0.59	0.040
110791	Soil	1.4	32.3	21.2	69	0.2	26.9	11.4	464	2.92	25.8	1.4	5.9	6.1	53	0.2	0.9	0.4	62	0.53	0.059
110792	Soil	0.9	27.1	19.9	70	0.2	23.4	9.5	453	2.64	11.7	1.5	2.8	5.4	55	0.2	0.7	0.2	57	0.56	0.062
110793	Soil	0.9	24.1	23.6	80	0.3	19.3	7.0	361	2.51	10.3	1.5	3.0	4.1	75	0.2	0.6	0.2	51	0.59	0.071
110794	Soil	0.9	18.9	16.1	72	0.1	16.9	8.1	465	2.55	7.6	1.4	7.8	5.2	61	0.2	0.5	0.2	56	0.54	0.080
110795	Soil	0.9	19.7	21.3	69	0.1	18.2	7.7	378	2.51	7.2	1.6	7.1	5.0	64	0.2	0.6	0.2	56	0.55	0.061
110796	Soil	1.1	25.0	25.8	78	0.2	19.9	9.4	477	2.61	16.4	1.5	4.1	5.3	75	0.2	0.7	0.3	57	0.61	0.066
110797	Soil	1.4	31.2	19.6	64	0.2	27.8	10.4	411	2.89	22.2	1.8	5.2	5.5	58	0.2	0.8	0.4	60	0.60	0.055
110798	Soil	1.5	32.7	16.9	58	0.1	28.4	9.9	307	2.86	17.6	2.4	4.9	6.4	44	0.1	0.8	0.3	62	0.50	0.035
110799	Soil	1.4	32.5	17.8	63	0.2	27.8	10.3	395	3.04	17.2	1.9	8.6	6.7	42	0.2	0.8	0.3	63	0.47	0.055
110800	Soil	1.4	30.2	17.8	63	0.2	25.8	10.3	398	2.84	18.3	1.5	6.7	5.5	43	0.1	0.9	0.2	62	0.54	0.051

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Project: Bishop
 Report Date: September 30, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
110771	Soil	22	35	0.39	342	0.074	2	1.75	0.011	0.07	0.1	0.04	5.2	<0.1	<0.05	5	<0.5	<0.2
110772	Soil	16	42	0.38	299	0.049	<1	1.51	0.008	0.05	0.1	0.03	4.1	<0.1	<0.05	5	0.6	<0.2
110773	Soil	16	34	0.40	308	0.043	<1	1.55	0.009	0.06	0.1	0.06	4.5	<0.1	<0.05	5	<0.5	<0.2
110774	Soil	16	25	0.34	214	0.034	<1	1.16	0.006	0.05	0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
110775	Soil	15	26	0.28	244	0.031	<1	1.28	0.006	0.07	<0.1	0.03	3.2	0.1	<0.05	4	0.5	<0.2
110776	Soil	16	28	0.40	305	0.058	<1	1.47	0.008	0.06	0.1	0.03	3.9	0.2	<0.05	5	0.6	<0.2
110777	Soil	37	22	0.31	265	0.031	2	1.31	0.011	0.07	0.1	0.04	3.5	0.1	<0.05	4	<0.5	<0.2
110778	Soil	21	31	0.30	270	0.025	2	1.42	0.008	0.07	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
110779	Soil	38	27	0.38	300	0.029	<1	1.79	0.011	0.16	<0.1	0.05	4.5	0.2	<0.05	6	<0.5	<0.2
110780	Soil	37	52	0.66	482	0.038	1	2.42	0.008	0.29	<0.1	0.03	5.8	0.3	<0.05	8	0.5	<0.2
110781	Soil	26	43	0.54	522	0.027	2	2.12	0.015	0.15	<0.1	0.03	5.5	0.2	<0.05	7	<0.5	<0.2
110782	Soil	59	28	0.48	389	0.025	2	1.79	0.010	0.23	<0.1	<0.01	3.9	0.3	<0.05	8	<0.5	<0.2
110783	Soil	43	35	0.58	439	0.081	2	2.56	0.011	0.37	0.1	<0.01	6.7	0.3	<0.05	10	<0.5	<0.2
110784	Soil	41	36	0.45	503	0.012	1	2.54	0.011	0.29	0.1	0.02	4.1	0.2	<0.05	9	<0.5	<0.2
110785	Soil	28	38	0.57	422	0.015	<1	2.27	0.009	0.19	0.1	0.01	4.7	0.2	<0.05	8	<0.5	<0.2
110786	Soil	33	31	0.41	349	0.006	<1	2.18	0.008	0.25	<0.1	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
110787	Soil	19	33	0.42	419	0.057	<1	1.78	0.016	0.06	0.2	0.04	4.4	<0.1	<0.05	5	0.7	<0.2
110788	Soil	18	29	0.48	337	0.055	<1	1.73	0.016	0.07	0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
110789	Soil	22	34	0.58	399	0.060	<1	2.22	0.015	0.09	0.1	0.03	6.1	0.1	<0.05	7	0.7	<0.2
110790	Soil	19	33	0.51	402	0.064	2	1.94	0.020	0.07	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
110791	Soil	19	33	0.52	389	0.085	1	1.90	0.023	0.07	0.2	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
110792	Soil	19	28	0.50	383	0.064	1	1.71	0.023	0.06	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
110793	Soil	19	27	0.47	408	0.051	<1	1.81	0.018	0.05	0.2	0.04	4.2	<0.1	<0.05	5	0.5	<0.2
110794	Soil	20	25	0.48	392	0.087	<1	1.78	0.020	0.05	0.3	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
110795	Soil	20	29	0.51	432	0.071	1	2.00	0.020	0.06	0.2	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
110796	Soil	21	27	0.51	391	0.059	<1	1.86	0.020	0.06	0.2	0.04	4.6	0.1	<0.05	5	<0.5	<0.2
110797	Soil	19	34	0.52	396	0.072	<1	1.87	0.021	0.06	0.2	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
110798	Soil	21	36	0.52	411	0.078	<1	2.01	0.018	0.07	0.1	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
110799	Soil	22	36	0.54	421	0.075	<1	2.10	0.018	0.07	0.1	0.02	5.6	0.1	<0.05	6	<0.5	<0.2
110800	Soil	18	34	0.53	400	0.068	<1	1.80	0.021	0.08	0.2	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
110801	Soil		1.4	29.1	24.3	60	0.2	22.4	8.9	269	2.57	21.2	1.6	11.1	5.1	34	0.2	1.1	0.2	56	0.44	0.043
110802	Soil		1.2	31.5	28.3	72	<0.1	35.5	9.5	510	2.64	18.1	2.4	8.1	11.8	32	0.1	1.0	0.6	41	0.38	0.028
110803	Soil		0.8	24.6	17.0	55	<0.1	25.8	7.4	373	2.24	7.4	2.1	6.0	13.2	23	<0.1	0.6	0.5	37	0.30	0.014
110804	Soil		1.1	24.1	24.2	92	<0.1	19.0	8.3	419	4.31	13.8	4.0	3.5	15.8	27	<0.1	0.5	1.2	65	0.30	0.045
110805	Soil		0.9	19.2	19.4	58	<0.1	19.9	6.4	207	2.27	4.8	2.5	2.9	14.7	16	0.1	0.5	0.5	28	0.17	0.012
110806	Soil		0.6	20.6	15.8	55	<0.1	18.9	5.3	235	2.22	3.8	2.8	3.3	20.1	14	<0.1	0.7	0.8	26	0.14	0.012
110807	Soil		1.2	29.5	15.1	75	<0.1	191.2	22.1	703	5.09	6.6	1.3	5.6	6.7	21	<0.1	1.6	0.4	92	0.29	0.017
110808	Soil		1.3	32.1	15.7	59	<0.1	28.5	9.4	351	2.94	11.9	1.2	5.7	7.0	27	<0.1	0.9	0.2	61	0.35	0.021
110809	Soil		1.9	26.5	28.9	64	0.2	26.5	11.3	965	2.09	10.9	2.8	5.1	19.6	22	<0.1	1.7	0.6	38	0.25	0.018
110810	Soil		0.9	28.7	13.3	54	0.2	26.8	8.4	370	2.54	11.2	0.8	11.9	7.0	29	<0.1	0.9	0.2	54	0.38	0.042
110811	Soil		1.4	20.0	21.4	58	<0.1	21.7	3.9	465	2.18	25.7	4.8	8.6	48.7	19	<0.1	3.2	1.1	20	0.22	0.020
110812	Soil		1.0	17.7	15.3	55	<0.1	16.9	8.1	376	2.33	10.9	2.0	2.6	17.3	22	<0.1	1.3	0.3	44	0.27	0.038
114386	Soil		2.2	14.3	27.2	72	<0.1	15.2	7.5	554	3.34	19.9	0.6	6.3	2.7	50	0.3	0.7	0.3	77	0.17	0.072
114387	Soil		2.1	16.6	22.2	63	0.2	13.8	10.0	824	2.36	14.1	0.9	12.6	1.5	50	0.3	0.5	0.4	49	0.21	0.081
114388	Soil		1.8	31.6	20.0	82	0.3	21.9	8.8	403	2.67	41.7	1.2	17.3	4.7	65	0.5	2.4	0.4	49	0.37	0.073
114389	Soil		1.4	19.0	20.6	65	0.3	16.1	7.7	263	2.23	23.0	0.9	9.8	2.7	49	0.4	0.9	0.3	42	0.33	0.063
114390	Soil		1.3	17.5	20.6	60	0.2	15.9	6.6	235	2.23	24.0	0.8	11.6	2.6	45	0.4	0.8	0.3	42	0.27	0.059
114391	Soil		2.9	41.6	136.7	102	0.5	13.2	6.3	198	3.94	267.9	2.6	13.8	11.6	184	0.5	2.4	2.7	57	0.30	0.062
114392	Soil		3.0	47.4	59.7	149	0.6	16.6	7.8	347	3.78	172.4	2.3	19.1	5.9	130	0.8	2.1	1.5	69	0.38	0.060
114393	Soil		2.8	34.6	64.7	155	0.5	13.0	8.9	409	3.28	65.2	1.6	17.4	6.5	82	1.0	2.6	0.5	60	0.37	0.063
114394	Soil		1.1	34.2	13.3	70	0.2	27.1	10.5	525	2.57	16.7	1.0	7.6	4.6	65	0.4	1.1	0.2	50	1.71	0.071
114395	Soil		1.5	31.7	30.1	95	0.3	23.7	10.1	382	2.75	27.2	1.2	6.9	5.3	54	0.6	1.5	0.3	52	0.50	0.061
114396	Soil		1.4	28.1	22.9	74	0.2	25.4	10.5	421	2.67	15.0	1.1	5.4	5.1	49	0.3	1.2	0.2	56	0.55	0.057
114397	Soil		1.3	28.0	18.9	67	0.2	22.5	10.3	457	2.43	12.2	1.1	4.6	4.4	38	0.5	1.0	0.2	50	0.41	0.056
114398	Soil		1.5	22.3	21.1	68	0.2	20.8	9.1	386	2.50	14.3	1.2	6.4	4.1	45	0.5	0.9	0.2	52	0.47	0.068
114399	Soil		1.0	29.8	13.3	70	0.1	25.2	10.8	414	2.51	10.9	1.3	5.8	4.7	36	0.2	0.9	0.2	49	0.54	0.057
114400	Soil		1.2	27.8	13.9	57	0.2	22.7	9.9	359	2.48	12.0	1.1	4.2	4.2	40	0.4	0.8	0.2	54	0.54	0.067
114401	Soil		0.9	23.7	16.7	59	0.2	22.0	11.2	406	2.46	12.9	0.9	6.1	4.9	33	0.2	0.9	0.2	49	0.45	0.062
114402	Soil		1.0	22.4	11.9	62	0.1	21.3	8.6	368	2.31	11.2	1.1	12.2	4.8	34	0.2	0.9	0.2	49	0.48	0.067
114403	Soil		1.0	22.2	21.3	59	0.2	19.4	8.6	263	2.28	21.8	1.1	34.5	4.2	31	0.2	1.2	0.2	47	0.36	0.066

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Project: Bishop
 Report Date: September 30, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
110801	Soil	18	34	0.41	378	0.065	1	1.83	0.016	0.07	0.2	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
110802	Soil	30	31	0.38	412	0.017	<1	1.80	0.010	0.14	<0.1	0.03	4.3	0.2	<0.05	5	<0.5	<0.2
110803	Soil	25	28	0.35	334	0.019	<1	1.85	0.009	0.21	<0.1	0.01	4.1	0.2	<0.05	5	<0.5	<0.2
110804	Soil	33	18	0.58	412	0.005	<1	2.25	0.009	0.14	<0.1	<0.01	6.4	0.2	<0.05	8	<0.5	<0.2
110805	Soil	30	20	0.26	277	0.016	<1	1.48	0.007	0.26	0.1	<0.01	3.4	0.3	<0.05	5	<0.5	<0.2
110806	Soil	36	17	0.24	240	0.013	<1	1.25	0.005	0.25	<0.1	<0.01	3.4	0.3	<0.05	4	<0.5	<0.2
110807	Soil	20	220	1.35	519	0.087	1	2.75	0.011	0.34	0.4	0.02	9.4	0.3	<0.05	8	<0.5	<0.2
110808	Soil	21	39	0.49	369	0.058	<1	1.93	0.013	0.08	0.1	0.03	5.4	0.1	<0.05	5	<0.5	<0.2
110809	Soil	33	41	0.27	327	0.024	<1	1.62	0.008	0.10	0.1	0.02	4.4	0.2	<0.05	5	0.7	<0.2
110810	Soil	18	33	0.47	347	0.056	<1	1.56	0.016	0.07	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
110811	Soil	35	20	0.18	183	0.009	1	1.57	0.006	0.07	<0.1	0.02	3.8	0.2	<0.05	5	0.9	<0.2
110812	Soil	25	24	0.35	252	0.049	<1	1.29	0.009	0.06	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
114386	Soil	11	25	0.39	185	0.051	<1	1.99	0.007	0.07	0.2	0.02	2.3	0.1	<0.05	7	0.5	<0.2
114387	Soil	13	20	0.35	185	0.039	2	1.49	0.009	0.07	0.2	0.03	2.1	0.1	<0.05	6	0.6	<0.2
114388	Soil	18	26	0.46	313	0.042	2	1.50	0.016	0.05	0.2	0.03	3.7	<0.1	<0.05	4	0.6	<0.2
114389	Soil	16	21	0.36	265	0.030	2	1.45	0.010	0.04	0.2	0.05	3.3	<0.1	<0.05	4	0.6	<0.2
114390	Soil	15	22	0.38	246	0.028	<1	1.51	0.010	0.04	0.2	0.06	3.0	<0.1	<0.05	5	0.9	<0.2
114391	Soil	35	21	0.43	441	0.043	<1	1.69	0.059	0.14	0.1	0.01	4.1	0.2	0.33	6	<0.5	<0.2
114392	Soil	17	26	0.55	326	0.047	<1	2.35	0.020	0.05	0.1	0.03	4.6	0.2	<0.05	7	0.8	<0.2
114393	Soil	19	22	0.42	246	0.035	1	1.84	0.012	0.04	0.2	0.03	4.1	0.2	<0.05	6	<0.5	<0.2
114394	Soil	15	26	0.67	367	0.059	2	1.23	0.019	0.05	0.2	0.04	3.5	<0.1	<0.05	4	0.6	<0.2
114395	Soil	18	26	0.46	392	0.055	2	1.58	0.015	0.05	0.2	0.05	4.1	0.1	<0.05	5	<0.5	<0.2
114396	Soil	16	29	0.49	411	0.053	2	1.58	0.018	0.05	0.2	0.04	3.6	<0.1	<0.05	5	0.7	<0.2
114397	Soil	17	28	0.44	343	0.049	<1	1.57	0.015	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
114398	Soil	16	26	0.42	344	0.048	2	1.44	0.014	0.04	0.3	0.03	3.0	<0.1	<0.05	4	0.5	<0.2
114399	Soil	15	28	0.45	392	0.050	1	1.42	0.016	0.04	0.2	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
114400	Soil	15	27	0.46	373	0.050	1	1.57	0.015	0.05	0.2	0.04	3.5	<0.1	<0.05	5	0.5	<0.2
114401	Soil	17	26	0.43	345	0.050	1	1.46	0.013	0.05	0.3	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
114402	Soil	17	26	0.43	305	0.053	<1	1.33	0.017	0.04	0.3	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
114403	Soil	17	26	0.36	301	0.050	<1	1.34	0.011	0.05	0.3	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2

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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
114404	Soil	0.9	19.5	13.3	59	0.2	18.3	7.4	250	2.13	12.1	0.7	6.3	3.0	27	0.2	0.8	0.2	46	0.34	0.055
114405	Soil	2.5	53.3	20.6	190	0.2	46.7	9.6	259	3.57	25.0	1.5	4.0	5.6	40	0.4	2.7	0.3	86	0.31	0.033
114406	Soil	1.3	25.7	15.9	72	<0.1	20.6	7.1	421	2.75	9.8	2.8	8.7	31.4	21	<0.1	2.2	0.5	39	0.23	0.027
114407	Soil	1.5	17.1	145.4	164	0.5	14.2	9.1	632	2.60	138.9	2.7	6.2	12.3	30	1.5	17.2	0.8	44	0.32	0.078
114408	Soil	1.2	35.0	32.5	91	0.1	33.7	11.3	542	3.21	18.8	1.3	6.5	6.9	29	0.2	2.8	0.3	60	0.31	0.029
114409	Soil	1.8	38.7	26.0	85	0.2	32.3	11.6	512	3.12	18.7	1.0	7.6	5.7	37	0.1	2.0	0.3	64	0.44	0.050
114410	Soil	1.3	35.5	80.1	100	0.2	28.2	9.9	358	2.74	32.0	1.3	47.8	7.8	23	0.2	2.3	0.4	48	0.23	0.013
114411	Soil	1.1	39.4	32.1	120	0.1	34.2	11.6	651	3.55	22.0	1.5	15.6	9.2	23	0.1	1.7	0.4	53	0.26	0.023
114412	Soil	1.4	42.5	21.7	82	<0.1	33.2	11.6	508	3.69	31.6	1.3	12.0	8.5	34	0.1	1.7	0.3	59	0.36	0.034
114413	Soil	1.0	35.2	21.5	126	0.1	35.5	11.8	398	3.26	35.3	2.7	10.1	11.9	27	0.2	1.7	0.6	54	0.32	0.019
114414	Soil	1.5	35.3	30.0	64	0.2	29.5	10.3	319	2.84	25.3	2.2	9.9	6.4	34	<0.1	1.2	0.3	61	0.40	0.026
114415	Soil	1.2	35.3	22.7	69	0.2	31.3	11.6	446	2.70	30.3	1.0	12.3	5.4	41	0.1	1.2	0.2	58	0.55	0.038
114416	Soil	1.0	35.9	26.5	77	0.2	30.6	11.9	472	2.84	26.0	0.7	7.4	5.8	36	0.2	1.3	0.2	57	0.46	0.046
114417	Soil	1.3	33.2	15.5	70	0.2	27.6	10.0	432	2.74	17.1	2.8	34.9	5.6	45	0.2	0.9	0.2	58	0.54	0.048
114418	Soil	1.6	34.3	27.1	71	0.2	30.2	10.5	489	2.82	18.6	3.5	8.9	7.1	58	0.3	0.9	0.3	55	0.55	0.047
114419	Soil	1.4	34.1	20.0	69	0.2	26.6	10.4	393	3.04	21.6	2.5	10.3	6.0	49	0.1	0.8	0.3	64	0.56	0.039
114420	Soil	1.2	35.0	14.8	63	0.2	25.7	9.0	360	2.75	17.9	2.2	6.1	5.0	61	0.2	0.7	0.4	61	0.62	0.055
114421	Soil	1.6	31.8	25.2	84	0.2	27.6	9.2	418	3.06	30.4	1.8	6.6	5.9	65	0.2	0.8	0.6	64	0.56	0.056
114422	Soil	1.6	30.3	27.2	78	0.2	26.9	8.9	360	2.73	24.0	1.2	5.1	5.6	52	0.2	0.7	0.5	54	0.46	0.057
114423	Soil	1.2	32.6	29.6	87	0.2	25.2	9.7	485	3.16	27.7	1.3	6.0	6.9	72	0.2	0.7	0.4	61	0.59	0.065
114424	Soil	1.2	30.0	18.5	65	0.2	24.7	10.1	415	2.79	19.6	1.8	7.5	4.7	54	0.2	0.7	0.4	56	0.64	0.057
114425	Soil	1.5	34.6	20.0	84	0.2	28.8	11.7	521	3.07	28.8	1.0	5.9	5.8	52	0.3	0.8	0.5	60	0.53	0.070
114426	Soil	1.2	36.5	17.0	65	0.2	27.3	10.3	388	3.00	21.1	1.6	9.5	6.0	41	0.1	0.8	0.3	56	0.54	0.047
114427	Soil	1.2	30.4	16.7	65	0.1	28.0	10.1	383	2.55	15.6	0.9	6.6	4.9	38	0.1	0.7	0.2	52	0.54	0.044
114428	Soil	1.5	33.6	18.1	65	0.2	27.5	10.8	556	2.55	19.4	1.6	8.0	4.1	38	0.3	0.8	0.2	51	0.56	0.057
114429	Soil	1.3	33.7	35.3	66	0.2	28.7	11.9	390	2.73	27.0	2.2	8.4	5.4	34	0.1	1.1	0.3	57	0.48	0.039
114430	Soil	1.4	30.9	27.3	70	0.2	23.6	10.3	388	2.70	23.8	2.7	2.9	4.7	38	<0.1	1.1	0.3	53	0.51	0.042
114431	Soil	0.9	29.1	28.6	82	0.1	24.9	7.2	358	2.59	13.4	2.3	6.5	18.6	20	<0.1	0.9	0.9	31	0.27	0.017
114432	Soil	0.2	7.6	35.1	43	<0.1	12.8	5.8	377	1.09	1.5	2.1	1.5	36.2	13	0.1	0.2	1.3	4	0.14	0.010
114433	Soil	0.8	24.5	18.2	50	<0.1	19.3	4.4	677	2.00	6.4	1.6	2.9	11.5	15	<0.1	1.5	0.8	25	0.23	0.014

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
114404	Soil	14	25	0.38	286	0.051	2	1.43	0.011	0.04	0.2	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
114405	Soil	25	38	0.67	544	0.082	<1	2.26	0.009	0.07	0.2	0.01	5.0	0.2	<0.05	7	1.3	<0.2
114406	Soil	39	25	0.38	281	0.027	<1	1.67	0.009	0.13	0.1	0.04	4.9	0.2	<0.05	6	<0.5	<0.2
114407	Soil	31	12	0.25	243	0.023	<1	0.93	0.008	0.10	0.1	0.01	3.5	0.2	<0.05	3	<0.5	<0.2
114408	Soil	21	40	0.45	394	0.046	<1	1.65	0.012	0.08	0.1	0.03	4.6	0.1	<0.05	5	<0.5	<0.2
114409	Soil	21	38	0.57	393	0.063	2	1.70	0.017	0.08	0.2	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
114410	Soil	25	32	0.30	324	0.039	<1	1.53	0.008	0.07	<0.1	0.04	4.8	0.1	<0.05	4	<0.5	<0.2
114411	Soil	29	35	0.32	374	0.022	<1	1.47	0.008	0.08	<0.1	0.03	5.1	0.1	<0.05	4	<0.5	<0.2
114412	Soil	22	39	0.58	445	0.039	<1	1.98	0.013	0.11	0.1	0.04	5.9	0.1	<0.05	6	<0.5	<0.2
114413	Soil	24	39	0.49	406	0.027	<1	2.05	0.010	0.13	0.1	0.03	4.5	0.2	<0.05	6	<0.5	<0.2
114414	Soil	19	38	0.49	391	0.062	1	1.82	0.017	0.08	0.2	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
114415	Soil	18	34	0.52	467	0.060	1	1.71	0.019	0.06	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
114416	Soil	18	33	0.52	404	0.060	<1	1.65	0.018	0.06	0.1	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
114417	Soil	18	31	0.51	436	0.054	<1	1.83	0.020	0.06	0.2	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
114418	Soil	21	34	0.54	479	0.047	<1	1.91	0.020	0.07	0.1	0.03	4.4	0.1	<0.05	6	<0.5	<0.2
114419	Soil	20	33	0.57	471	0.061	1	2.03	0.021	0.06	0.2	0.04	4.8	0.1	<0.05	6	<0.5	<0.2
114420	Soil	20	30	0.56	451	0.063	<1	1.81	0.020	0.05	0.2	0.04	4.6	<0.1	<0.05	6	<0.5	<0.2
114421	Soil	21	34	0.56	431	0.065	2	1.84	0.022	0.05	0.2	0.04	4.9	<0.1	<0.05	6	<0.5	<0.2
114422	Soil	19	35	0.53	386	0.052	1	1.72	0.019	0.06	0.1	0.05	4.1	<0.1	<0.05	5	<0.5	<0.2
114423	Soil	19	31	0.57	398	0.049	1	1.92	0.022	0.06	0.1	0.05	4.9	0.1	<0.05	6	<0.5	<0.2
114424	Soil	18	31	0.54	413	0.053	2	1.81	0.023	0.05	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
114425	Soil	19	33	0.60	420	0.065	1	1.90	0.026	0.07	0.1	0.05	4.6	<0.1	<0.05	6	<0.5	<0.2
114426	Soil	20	32	0.52	443	0.065	1	1.81	0.019	0.06	0.2	0.06	4.4	0.1	<0.05	6	<0.5	<0.2
114427	Soil	16	33	0.52	370	0.050	<1	1.63	0.018	0.06	0.2	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2
114428	Soil	16	32	0.48	396	0.043	<1	1.60	0.017	0.05	0.2	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
114429	Soil	18	34	0.46	417	0.061	1	1.84	0.016	0.07	0.1	0.05	4.2	0.1	<0.05	5	<0.5	<0.2
114430	Soil	18	34	0.50	402	0.060	2	1.81	0.015	0.06	0.2	0.03	4.2	<0.1	<0.05	5	1.7	<0.2
114431	Soil	26	23	0.28	290	0.007	<1	1.61	0.007	0.20	0.1	0.02	3.6	0.2	<0.05	5	<0.5	<0.2
114432	Soil	44	3	0.12	173	<0.001	<1	0.62	0.004	0.21	<0.1	0.01	1.4	0.3	<0.05	3	<0.5	<0.2
114433	Soil	24	12	0.18	379	0.011	4	1.24	0.013	0.24	0.1	<0.01	3.5	0.4	<0.05	4	<0.5	<0.2

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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
114434	Soil	1.1	30.5	33.3	63	<0.1	24.6	7.5	318	2.43	9.2	1.8	5.1	14.1	21	<0.1	1.1	0.7	37	0.29	0.014
114435	Soil	0.9	36.9	15.4	67	0.2	31.0	11.1	411	2.71	14.1	0.6	4.8	5.2	27	0.1	0.9	0.2	53	0.41	0.048
114436	Soil	1.1	35.6	33.2	72	0.1	28.6	10.4	350	2.75	18.7	1.1	7.1	7.1	24	0.1	1.3	0.3	54	0.32	0.022
114437	Soil	1.0	25.3	24.2	65	0.1	22.1	8.3	452	3.18	14.0	1.9	6.9	7.4	29	<0.1	1.2	0.3	57	0.39	0.033
114438	Soil	1.3	35.4	22.5	67	0.3	33.2	10.8	547	2.83	16.1	1.2	5.0	6.5	30	0.1	1.3	0.3	55	0.39	0.044
114439	Soil	0.9	31.5	24.7	60	<0.1	24.2	6.3	345	2.46	9.9	3.0	5.5	25.2	24	<0.1	1.8	0.4	40	0.30	0.030
114440	Soil	0.9	34.6	17.1	60	<0.1	26.8	7.6	361	2.53	11.0	2.6	4.1	14.7	28	<0.1	1.4	0.3	48	0.34	0.043
114441	Soil	0.8	17.4	64.9	43	0.3	13.5	4.5	246	1.79	53.3	3.0	8.3	20.8	16	0.1	3.0	0.8	25	0.13	0.025
114368	Soil	0.9	23.4	14.1	59	0.2	21.2	10.0	330	2.39	16.0	1.1	3.7	4.1	28	0.2	0.8	0.3	50	0.36	0.056
114369	Soil	0.9	25.6	15.4	62	0.2	21.3	8.8	281	2.47	14.8	1.2	3.3	4.6	27	0.2	0.8	0.3	50	0.37	0.060
114370	Soil	1.0	28.5	24.7	72	0.2	23.9	11.1	419	2.54	20.0	1.2	3.7	4.7	32	0.3	1.3	0.2	51	0.46	0.062
114371	Soil	1.0	25.6	36.2	68	0.2	20.5	8.3	246	2.45	30.9	1.1	9.1	4.7	31	0.3	1.3	0.3	51	0.39	0.059
114372	Soil	0.5	28.6	8.8	59	<0.1	23.0	8.8	262	2.05	10.3	0.5	2.2	5.1	27	0.3	0.7	0.2	33	0.43	0.087
114373	Soil	1.2	27.9	16.9	63	0.1	26.0	10.4	401	2.57	13.5	1.3	5.2	4.3	33	0.2	0.8	0.2	53	0.50	0.056
114374	Soil	1.2	33.3	15.6	68	0.1	29.1	11.9	468	2.62	13.8	0.8	4.8	5.2	34	0.3	0.9	0.2	56	0.52	0.056
114375	Soil	1.2	27.8	14.7	65	0.2	25.3	10.4	447	2.56	12.4	0.9	14.6	4.4	41	0.3	0.9	0.2	50	0.92	0.068
114376	Soil	3.2	21.7	113.2	138	0.3	15.6	9.6	447	4.53	33.7	2.6	16.4	10.4	310	0.7	1.5	0.4	73	0.59	0.111
114377	Soil	3.7	20.5	69.2	137	0.1	18.8	14.0	1194	5.56	20.7	2.0	6.5	15.2	508	0.6	3.2	0.3	104	0.82	0.182
114378	Soil	2.4	36.8	122.2	164	0.2	22.8	9.3	395	3.23	44.4	1.8	15.6	7.2	162	0.7	4.6	0.4	60	0.42	0.061
114379	Soil	3.0	27.3	65.7	93	0.1	19.3	10.1	271	3.25	77.2	1.0	20.5	7.5	71	0.3	3.4	0.3	51	0.19	0.035
114380	Soil	3.6	24.3	64.7	67	0.2	18.5	9.6	306	2.82	21.2	1.3	19.8	5.2	56	0.1	1.3	0.2	54	0.24	0.048
114381	Soil	2.2	17.9	30.0	65	<0.1	15.4	8.6	230	2.97	26.3	1.1	17.8	6.0	71	0.2	1.5	0.2	60	0.19	0.022
114382	Soil	1.5	42.7	90.0	88	0.6	23.2	11.1	232	3.24	154.2	1.1	36.8	7.1	66	0.3	1.1	0.8	57	0.28	0.024
114383	Soil	2.0	24.5	43.3	113	0.3	19.8	11.6	278	3.44	20.7	0.9	7.8	5.2	92	0.5	0.6	0.4	66	0.21	0.033
114384	Soil	1.9	15.3	16.4	50	0.3	14.6	8.3	359	2.77	13.0	0.7	1.6	3.4	42	0.3	0.4	0.3	68	0.25	0.040
114385	Soil	1.9	13.7	43.4	82	0.2	12.2	5.6	452	2.80	32.1	0.9	2.3	6.4	155	0.2	0.6	0.6	48	0.23	0.025
112994	Soil	1.0	26.2	9.6	61	<0.1	20.2	8.4	359	2.52	13.9	0.8	2.4	4.4	28	0.1	0.9	0.2	48	0.34	0.065
112995	Soil	0.9	18.7	10.4	62	<0.1	16.3	6.9	243	2.34	27.6	1.2	3.3	4.8	23	<0.1	0.7	0.3	43	0.26	0.038
112996	Soil	1.1	19.4	10.7	50	<0.1	16.7	6.7	229	2.40	27.3	1.1	13.8	5.1	25	<0.1	0.8	0.3	49	0.30	0.053
112997	Soil	1.1	30.7	9.4	43	0.1	17.6	6.3	203	2.16	49.8	0.9	5.6	5.8	24	<0.1	1.9	0.6	40	0.29	0.037

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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
114434	Soil	24	26	0.29	337	0.011	<1	1.71	0.008	0.14	0.1	0.04	4.1	0.2	<0.05	5	<0.5	<0.2
114435	Soil	16	31	0.53	412	0.052	<1	1.69	0.020	0.07	0.2	0.05	3.7	0.1	<0.05	5	<0.5	<0.2
114436	Soil	20	37	0.43	362	0.041	<1	1.84	0.011	0.08	0.1	0.04	4.6	0.1	<0.05	5	<0.5	<0.2
114437	Soil	18	33	0.51	392	0.030	<1	2.05	0.010	0.08	<0.1	0.03	5.8	0.1	<0.05	6	<0.5	<0.2
114438	Soil	18	39	0.52	456	0.048	<1	1.78	0.017	0.08	0.1	0.05	4.2	0.1	<0.05	5	<0.5	<0.2
114439	Soil	34	27	0.33	292	0.032	<1	1.75	0.008	0.08	<0.1	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
114440	Soil	27	31	0.43	328	0.047	<1	1.73	0.012	0.07	<0.1	0.03	4.8	0.1	<0.05	5	<0.5	<0.2
114441	Soil	27	14	0.16	172	0.019	<1	0.79	0.005	0.06	<0.1	0.03	2.5	0.2	<0.05	2	<0.5	<0.2
114368	Soil	17	30	0.41	355	0.047	<1	1.60	0.013	0.05	0.2	0.05	3.3	<0.1	<0.05	5	<0.5	<0.2
114369	Soil	17	30	0.42	347	0.049	<1	1.59	0.014	0.05	0.2	0.04	3.5	0.1	<0.05	5	<0.5	<0.2
114370	Soil	18	30	0.45	399	0.051	<1	1.66	0.015	0.05	0.2	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
114371	Soil	18	29	0.40	336	0.047	<1	1.54	0.013	0.05	0.2	0.04	3.4	0.1	<0.05	5	<0.5	<0.2
114372	Soil	15	20	0.44	239	0.044	1	1.00	0.021	0.07	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
114373	Soil	16	31	0.47	400	0.048	1	1.54	0.017	0.05	0.2	0.05	3.7	<0.1	<0.05	5	0.5	<0.2
114374	Soil	17	33	0.51	430	0.065	1	1.64	0.023	0.07	0.2	0.06	4.1	<0.1	<0.05	5	<0.5	<0.2
114375	Soil	16	26	0.56	405	0.051	1	1.48	0.022	0.05	0.2	0.06	3.2	<0.1	<0.05	4	<0.5	<0.2
114376	Soil	29	21	0.54	529	0.055	<1	2.01	0.020	0.10	<0.1	0.04	6.4	0.2	0.05	7	<0.5	<0.2
114377	Soil	33	23	0.86	978	0.085	<1	2.46	0.026	0.19	0.2	0.03	7.4	0.3	<0.05	9	0.6	<0.2
114378	Soil	24	31	0.53	461	0.067	<1	2.06	0.018	0.08	0.1	0.04	5.8	0.2	<0.05	6	<0.5	<0.2
114379	Soil	18	27	0.42	273	0.035	<1	1.95	0.013	0.04	0.1	0.02	3.2	0.2	<0.05	5	<0.5	<0.2
114380	Soil	17	27	0.45	249	0.050	<1	1.97	0.013	0.05	0.1	0.02	3.1	0.2	<0.05	5	<0.5	<0.2
114381	Soil	13	28	0.49	252	0.069	<1	2.17	0.012	0.05	0.1	0.03	3.0	0.2	<0.05	6	<0.5	<0.2
114382	Soil	24	33	0.49	372	0.051	<1	1.92	0.022	0.06	0.1	0.05	4.9	0.1	<0.05	6	<0.5	<0.2
114383	Soil	14	34	0.43	363	0.048	<1	2.50	0.012	0.04	0.1	0.02	3.2	0.2	<0.05	7	<0.5	<0.2
114384	Soil	10	23	0.36	221	0.023	4	2.02	0.008	0.04	0.2	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
114385	Soil	15	18	0.36	295	0.009	<1	1.85	0.019	0.04	<0.1	0.01	1.7	0.2	<0.05	6	<0.5	<0.2
112994	Soil	15	26	0.44	339	0.040	<1	1.17	0.015	0.04	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
112995	Soil	14	22	0.37	309	0.022	1	1.23	0.009	0.04	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
112996	Soil	14	24	0.38	309	0.040	1	1.23	0.009	0.04	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
112997	Soil	17	21	0.34	312	0.030	<1	1.10	0.008	0.04	0.1	0.02	3.3	<0.1	<0.05	3	0.9	<0.2

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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
112998	Soil	1.0	24.0	10.3	49	0.2	18.8	6.4	201	2.15	31.3	1.1	3.0	4.1	28	0.1	1.0	0.4	44	0.35	0.047
112999	Soil	0.7	20.1	9.3	41	0.1	15.0	5.8	177	1.95	33.4	1.0	3.3	4.4	23	<0.1	1.1	0.4	41	0.29	0.040
113000	Soil	1.3	30.4	10.9	50	0.2	22.5	7.5	277	2.36	58.7	0.8	4.0	5.0	29	0.1	1.4	0.7	46	0.36	0.044
145299	Soil	1.0	15.4	15.7	50	0.2	13.6	4.7	136	2.22	9.5	1.8	2.0	3.1	26	0.2	0.6	0.3	38	0.26	0.057
145300	Soil	0.8	18.7	15.3	50	0.1	16.0	6.8	222	2.02	9.2	2.3	1.2	3.3	29	0.1	0.6	0.2	39	0.32	0.059
145301	Soil	1.2	20.2	16.8	67	0.2	15.8	6.7	282	2.42	11.6	2.2	2.3	4.0	27	0.1	0.8	0.3	45	0.28	0.044
145302	Soil	1.2	28.1	22.6	92	0.2	19.9	6.9	251	2.78	16.9	2.9	6.4	5.6	33	0.2	1.0	0.4	49	0.30	0.053
145303	Soil	0.9	22.4	33.7	68	0.2	14.3	4.6	187	2.10	21.1	2.8	2.2	6.8	25	0.1	0.9	0.4	35	0.20	0.038
145304	Soil	0.9	21.9	23.2	38	0.1	12.6	3.6	133	1.70	28.1	2.4	4.2	7.9	22	0.1	0.7	0.6	31	0.20	0.019
145305	Soil	0.8	13.7	25.4	45	0.1	8.2	2.4	97	1.44	34.4	1.6	2.2	8.9	20	0.2	0.8	0.7	23	0.14	0.027
145306	Soil	0.8	21.3	17.3	34	0.2	13.1	3.7	116	1.64	25.5	1.6	1.3	7.2	22	<0.1	0.8	0.7	30	0.22	0.025
145307	Soil	0.6	14.9	17.5	24	0.2	11.2	3.1	88	1.55	21.5	1.3	1.7	7.2	19	<0.1	0.9	0.6	33	0.17	0.015
145308	Soil	0.5	12.8	36.2	10	0.3	4.5	1.3	30	0.82	19.1	1.4	2.7	10.0	18	<0.1	1.4	0.7	17	0.08	0.014
145309	Soil	0.8	25.1	26.8	39	0.3	16.5	5.8	188	2.11	17.7	4.6	2.4	7.1	20	<0.1	0.8	0.5	42	0.23	0.021
145310	Soil	0.6	11.3	43.3	25	0.2	8.1	3.1	93	1.51	32.0	1.2	8.0	8.4	13	<0.1	1.2	1.0	27	0.13	0.020
145311	Soil	0.7	10.5	32.3	32	0.2	11.3	5.0	161	1.95	35.3	0.6	3.3	5.5	11	<0.1	1.3	0.5	40	0.12	0.019
145312	Soil	0.7	10.5	61.7	15	0.4	4.9	1.6	49	1.01	58.0	1.4	2.7	10.9	11	<0.1	2.2	1.2	20	0.10	0.015
145313	Soil	0.9	16.0	55.5	23	0.5	10.2	2.7	93	1.19	50.6	2.2	4.8	11.6	17	<0.1	1.4	0.9	22	0.15	0.024
145314	Soil	0.6	8.9	33.8	18	0.4	6.2	2.4	77	1.09	91.2	1.2	4.3	16.6	12	<0.1	1.6	1.2	20	0.11	0.015
145315	Soil	0.7	4.6	71.0	8	0.1	2.1	0.8	57	1.05	109.1	1.3	1.7	20.9	7	0.1	3.5	2.6	10	0.02	0.015
145316	Soil	0.4	18.4	17.0	36	0.2	14.7	5.8	217	1.93	18.6	0.9	3.7	5.9	18	<0.1	0.8	0.3	42	0.18	0.014
145317	Soil	0.3	13.6	90.2	11	0.7	2.6	1.2	32	1.12	36.4	1.4	7.4	18.3	14	<0.1	2.2	1.7	14	0.05	0.010
145318	Soil	0.6	13.5	51.2	24	0.1	8.9	3.5	87	1.59	12.3	0.8	3.4	9.7	12	<0.1	1.6	0.4	31	0.06	0.011
145319	Soil	0.6	9.9	14.8	8	<0.1	2.4	2.3	43	0.74	18.8	1.6	0.9	21.8	8	<0.1	1.3	0.3	12	0.04	0.007
145320	Soil	0.6	17.2	30.8	44	<0.1	13.6	5.3	124	2.01	14.3	0.9	4.7	6.7	17	0.1	1.2	0.2	39	0.12	0.012
145321	Soil	0.8	6.5	11.2	7	<0.1	2.0	0.9	22	0.44	9.1	0.6	3.4	7.1	9	<0.1	0.7	0.5	11	0.04	0.005
145322	Soil	0.7	11.7	12.9	20	<0.1	8.2	3.1	95	1.19	9.2	0.8	2.2	7.2	14	<0.1	0.5	0.4	26	0.12	0.013
145350	Soil	0.9	22.8	10.4	47	0.1	19.9	7.4	381	1.97	8.1	1.4	2.7	3.3	34	0.2	0.7	0.2	41	0.42	0.053
145351	Soil	0.8	26.6	9.4	53	0.1	23.0	8.5	377	2.14	8.8	0.7	2.4	3.4	43	0.2	0.7	0.1	44	0.95	0.062
145352	Soil	0.9	27.5	10.7	57	0.2	23.2	8.3	377	2.23	9.8	0.5	9.8	4.2	30	0.2	0.7	0.2	45	0.53	0.055

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Project: Bishop
 Report Date: September 30, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
112998	Soil	13	22	0.39	345	0.028	<1	1.21	0.011	0.04	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
112999	Soil	14	21	0.36	265	0.029	<1	1.12	0.009	0.03	0.2	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
113000	Soil	15	26	0.39	337	0.036	<1	1.23	0.012	0.04	0.3	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
145299	Soil	11	19	0.26	277	0.006	2	1.31	0.006	0.05	0.1	0.05	2.5	0.1	<0.05	4	<0.5	<0.2
145300	Soil	13	19	0.28	302	0.008	<1	1.17	0.006	0.04	0.2	0.04	2.7	0.1	<0.05	4	<0.5	<0.2
145301	Soil	14	21	0.35	330	0.018	<1	1.30	0.007	0.04	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
145302	Soil	16	22	0.35	379	0.025	<1	1.27	0.007	0.05	<0.1	0.06	4.5	0.2	<0.05	4	1.0	<0.2
145303	Soil	19	16	0.24	244	0.016	<1	0.92	0.006	0.06	0.1	0.05	3.0	0.2	<0.05	3	<0.5	<0.2
145304	Soil	21	16	0.23	228	0.007	2	0.97	0.006	0.08	0.1	0.03	2.5	0.1	<0.05	3	<0.5	<0.2
145305	Soil	23	10	0.16	160	0.006	<1	0.63	0.005	0.07	0.1	0.03	1.6	0.1	<0.05	2	<0.5	<0.2
145306	Soil	17	16	0.27	249	0.011	<1	0.93	0.006	0.06	0.2	0.03	2.4	0.1	<0.05	3	<0.5	<0.2
145307	Soil	17	16	0.28	165	0.019	<1	0.87	0.006	0.06	0.2	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
145308	Soil	21	6	0.09	125	0.009	<1	0.42	0.005	0.06	<0.1	0.04	1.0	<0.1	<0.05	1	<0.5	<0.2
145309	Soil	15	24	0.35	331	0.020	2	1.30	0.007	0.06	0.1	0.09	3.2	<0.1	<0.05	4	<0.5	<0.2
145310	Soil	17	12	0.21	133	0.015	<1	0.78	0.004	0.07	0.2	0.11	1.3	0.1	<0.05	3	<0.5	<0.2
145311	Soil	10	19	0.32	119	0.026	1	1.01	0.009	0.05	0.1	0.04	1.3	<0.1	<0.05	3	<0.5	<0.2
145312	Soil	17	8	0.11	116	0.007	<1	0.60	0.003	0.08	0.2	0.16	0.8	0.2	<0.05	2	<0.5	<0.2
145313	Soil	19	12	0.17	170	0.015	<1	0.63	0.004	0.06	0.2	0.24	1.7	<0.1	<0.05	2	0.6	<0.2
145314	Soil	18	9	0.18	119	0.015	<1	0.50	0.004	0.05	0.3	0.18	1.0	0.1	<0.05	2	<0.5	<0.2
145315	Soil	23	5	0.02	59	0.003	<1	0.30	0.001	0.07	0.3	0.08	0.2	0.1	<0.05	2	<0.5	<0.2
145316	Soil	14	23	0.38	279	0.032	1	1.16	0.008	0.04	0.1	0.11	2.5	<0.1	<0.05	4	<0.5	<0.2
145317	Soil	29	6	0.06	83	0.013	<1	0.36	0.003	0.06	<0.1	0.12	0.8	0.2	<0.05	2	0.7	<0.2
145318	Soil	14	16	0.19	102	0.021	<1	0.98	0.004	0.07	<0.1	0.07	1.4	0.1	<0.05	3	<0.5	<0.2
145319	Soil	44	6	0.06	99	0.004	<1	0.39	0.003	0.06	0.3	0.02	0.7	0.1	<0.05	<1	<0.5	<0.2
145320	Soil	16	20	0.31	229	0.021	2	1.24	0.005	0.06	<0.1	0.11	2.0	0.1	<0.05	4	<0.5	<0.2
145321	Soil	13	4	0.05	65	0.003	<1	0.27	0.003	0.04	<0.1	0.02	0.4	<0.1	<0.05	<1	<0.5	<0.2
145322	Soil	17	12	0.24	159	0.015	2	0.70	0.005	0.04	0.1	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
145350	Soil	13	21	0.35	282	0.034	1	1.07	0.011	0.04	0.2	0.04	2.9	<0.1	<0.05	3	0.7	<0.2
145351	Soil	12	22	0.48	265	0.045	3	1.12	0.017	0.07	0.2	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
145352	Soil	14	24	0.45	259	0.046	3	1.10	0.017	0.05	0.2	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
145353	Soil	1.1	22.5	15.6	55	0.2	15.9	6.7	238	2.00	14.5	1.6	6.3	4.1	25	0.2	0.7	0.3	41	0.34	0.054
145354	Soil	1.1	19.3	13.6	50	0.1	14.7	6.5	178	2.07	14.2	1.2	5.8	5.7	18	0.1	0.7	0.3	33	0.25	0.049
145355	Soil	0.7	22.8	14.4	55	0.2	15.2	6.7	264	1.69	16.9	1.5	4.3	5.0	24	0.1	0.9	0.4	37	0.32	0.055
145356	Soil	0.9	29.3	11.2	55	0.1	24.9	8.8	313	2.11	9.5	0.6	2.3	3.3	31	0.2	0.6	0.2	43	0.65	0.066
145357	Soil	0.8	33.1	11.1	62	0.1	25.4	9.4	354	2.27	9.8	0.5	3.2	3.2	36	0.2	0.7	0.2	45	0.95	0.076
145358	Soil	0.8	31.1	12.1	64	<0.1	24.3	9.1	351	2.32	9.2	0.9	3.0	10.4	22	0.1	0.7	0.4	47	0.39	0.063
145359	Soil	0.8	29.7	13.5	70	<0.1	22.5	8.3	354	2.66	10.2	1.4	3.5	13.8	23	0.1	0.7	0.2	51	0.37	0.068
145360	Soil	1.2	26.2	14.3	54	0.2	22.3	8.4	421	2.42	12.8	1.0	3.7	4.2	24	<0.1	0.8	0.3	52	0.36	0.053
145361	Soil	1.1	24.0	16.0	59	0.1	19.3	8.9	386	2.38	13.2	1.6	3.3	4.8	26	0.1	0.7	0.2	45	0.40	0.065
145362	Soil	0.8	15.5	17.5	71	<0.1	15.3	5.4	211	2.26	5.7	2.5	2.7	26.1	24	<0.1	0.5	0.3	31	0.46	0.085
145363	Soil	1.0	21.5	17.7	58	<0.1	18.4	6.0	237	2.12	7.7	1.9	2.2	17.8	27	<0.1	0.5	0.3	31	0.42	0.056
145364	Soil	1.2	18.0	14.7	45	<0.1	14.1	5.2	181	2.05	9.5	3.1	1.7	15.4	24	<0.1	0.7	0.3	37	0.27	0.028
145365	Soil	1.5	23.4	26.0	62	<0.1	18.9	9.4	987	3.57	11.1	3.5	2.5	16.3	35	<0.1	1.0	0.6	76	0.43	0.054
145366	Soil	1.2	16.4	12.0	38	<0.1	12.4	4.9	196	1.80	8.1	2.7	2.5	15.2	15	<0.1	0.6	0.5	37	0.19	0.027
145367	Soil	1.8	16.3	13.5	46	<0.1	16.1	6.5	152	2.36	12.2	1.1	1.9	8.5	15	<0.1	0.5	0.5	51	0.13	0.016
145368	Soil	1.6	15.3	14.2	45	<0.1	19.3	7.9	263	3.44	18.1	1.6	7.7	5.2	28	<0.1	0.6	0.3	71	0.19	0.031
145369	Soil	2.3	21.3	32.4	75	<0.1	16.9	11.5	1075	4.47	65.3	1.8	2.1	7.1	63	<0.1	1.0	1.4	100	0.48	0.073
145370	Soil	0.9	18.8	11.3	38	<0.1	15.0	5.7	161	2.04	9.2	1.4	2.0	10.4	15	<0.1	0.4	0.3	43	0.15	0.010
145371	Soil	1.2	10.1	18.4	34	<0.1	6.1	3.1	155	1.56	4.0	3.8	0.9	27.0	6	<0.1	0.4	1.3	17	0.08	0.016
145372	Soil	1.2	22.7	14.0	32	<0.1	15.9	6.6	140	2.30	9.1	2.1	3.2	22.1	12	<0.1	0.8	0.4	42	0.12	0.008
145373	Soil	1.7	21.3	18.7	38	<0.1	14.5	4.5	177	2.22	5.5	2.9	3.1	31.5	10	<0.1	0.6	0.4	29	0.11	0.009
145374	Soil	1.0	26.5	11.4	50	<0.1	21.0	7.9	370	2.25	9.4	1.6	5.8	8.4	23	<0.1	0.7	0.3	53	0.30	0.031
145375	Soil	0.9	25.1	12.4	40	<0.1	18.2	7.1	187	2.30	7.7	1.8	3.2	15.2	19	<0.1	0.6	0.3	41	0.24	0.011
145376	Soil	1.2	21.6	12.3	41	<0.1	17.0	6.7	199	2.13	5.5	2.0	1.8	14.9	16	<0.1	0.5	0.3	37	0.20	0.015
146336	Soil	1.0	16.2	13.0	50	0.1	14.1	6.5	280	1.91	26.3	0.8	5.0	2.9	20	0.2	0.8	0.3	39	0.27	0.053
146337	Soil	1.0	17.6	11.6	53	0.1	15.9	8.0	254	2.10	28.1	0.7	2.7	2.7	22	0.2	0.7	0.3	42	0.30	0.050
146338	Soil	1.1	16.6	11.1	53	0.1	14.5	6.6	181	2.02	24.6	0.8	3.1	3.4	19	0.1	0.8	0.3	39	0.28	0.050
146339	Soil	1.1	19.0	12.3	63	0.2	16.4	7.2	250	2.13	34.5	1.0	3.6	3.8	22	0.2	0.9	0.4	38	0.31	0.058
146340	Soil	1.2	17.6	13.2	61	0.2	15.6	7.1	257	2.07	35.2	1.0	6.4	4.1	22	0.2	1.0	0.4	36	0.30	0.056
146341	Soil	0.9	15.7	11.4	64	0.1	13.8	6.8	252	1.86	22.9	0.9	2.5	2.7	24	0.3	0.8	0.2	44	0.30	0.060

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
145353	Soil	16	24	0.32	298	0.030	<1	1.12	0.008	0.05	0.2	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
145354	Soil	17	20	0.28	159	0.019	<1	0.90	0.006	0.06	0.1	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
145355	Soil	16	22	0.32	296	0.030	<1	1.10	0.007	0.04	0.2	0.05	2.5	<0.1	<0.05	4	<0.5	<0.2
145356	Soil	12	25	0.48	259	0.040	<1	1.16	0.013	0.06	0.2	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
145357	Soil	13	26	0.50	289	0.046	<1	1.17	0.014	0.07	0.2	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
145358	Soil	23	29	0.49	222	0.044	<1	1.15	0.013	0.12	0.2	0.02	3.5	0.1	<0.05	5	<0.5	<0.2
145359	Soil	31	34	0.53	247	0.043	<1	1.32	0.011	0.16	0.1	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
145360	Soil	14	34	0.45	334	0.038	<1	1.37	0.009	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
145361	Soil	17	26	0.36	337	0.034	<1	1.26	0.008	0.04	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
145362	Soil	38	22	0.33	294	0.016	<1	1.31	0.006	0.11	0.1	0.02	2.9	0.2	<0.05	5	<0.5	<0.2
145363	Soil	38	25	0.34	299	0.012	<1	1.49	0.006	0.11	0.1	0.04	3.5	0.1	<0.05	5	<0.5	<0.2
145364	Soil	29	23	0.30	263	0.017	<1	1.23	0.007	0.09	0.1	0.03	2.9	0.1	<0.05	4	<0.5	<0.2
145365	Soil	51	28	0.49	359	0.030	<1	1.97	0.009	0.07	0.1	0.09	5.9	0.1	<0.05	8	<0.5	<0.2
145366	Soil	20	22	0.30	181	0.032	<1	0.95	0.006	0.05	0.1	0.03	2.2	0.1	<0.05	3	<0.5	<0.2
145367	Soil	10	30	0.33	198	0.026	<1	1.57	0.008	0.04	0.2	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
145368	Soil	13	33	0.50	259	0.025	<1	2.19	0.008	0.04	0.1	0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
145369	Soil	62	35	0.61	434	0.029	<1	2.69	0.013	0.05	0.1	0.05	7.2	<0.1	<0.05	10	<0.5	<0.2
145370	Soil	15	26	0.31	279	0.036	<1	1.25	0.006	0.04	0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
145371	Soil	39	9	0.10	78	0.019	<1	0.46	0.003	0.04	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
145372	Soil	22	23	0.23	198	0.036	<1	1.47	0.005	0.08	<0.1	0.02	4.1	0.1	<0.05	4	<0.5	<0.2
145373	Soil	69	20	0.19	161	0.026	<1	1.17	0.005	0.07	<0.1	0.03	4.3	0.1	<0.05	4	<0.5	<0.2
145374	Soil	20	31	0.33	345	0.055	<1	1.43	0.008	0.05	<0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
145375	Soil	32	24	0.33	287	0.038	<1	1.44	0.007	0.08	<0.1	0.05	4.7	0.1	<0.05	4	<0.5	<0.2
145376	Soil	31	22	0.28	248	0.040	<1	1.21	0.006	0.12	<0.1	0.05	4.1	0.2	<0.05	4	<0.5	<0.2
146336	Soil	12	21	0.29	220	0.029	<1	0.95	0.007	0.03	0.3	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
146337	Soil	11	22	0.35	258	0.030	<1	1.26	0.008	0.04	0.1	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
146338	Soil	12	20	0.31	246	0.027	<1	1.13	0.007	0.04	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
146339	Soil	15	21	0.33	280	0.028	<1	1.13	0.007	0.05	0.3	0.04	2.5	<0.1	<0.05	3	<0.5	<0.2
146340	Soil	14	20	0.30	258	0.025	<1	1.10	0.007	0.04	0.2	0.03	2.4	<0.1	<0.05	3	<0.5	<0.2
146341	Soil	11	21	0.31	251	0.031	<1	0.99	0.008	0.04	0.3	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2

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Project: Bishop
Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
146342	Soil	1.0	13.7	10.0	52	0.2	13.0	8.7	353	1.97	20.7	1.0	3.7	1.6	21	0.3	0.6	0.2	39	0.26	0.056
146343	Soil	1.0	16.6	7.8	52	0.1	17.2	8.3	356	2.15	13.0	0.9	2.8	2.4	28	0.1	0.7	0.2	44	0.37	0.059
146344	Soil	1.1	28.4	10.3	47	0.4	14.0	6.4	255	2.28	94.9	1.1	15.5	4.9	29	0.1	2.0	1.1	41	0.38	0.041
146345	Soil	0.9	29.1	9.6	47	0.3	19.7	8.3	512	2.03	55.3	3.1	14.1	3.0	70	0.2	1.8	0.8	35	0.76	0.051
146346	Soil	1.0	28.7	9.2	47	0.4	21.6	8.4	1655	1.95	60.1	1.8	6.4	3.6	42	0.2	1.5	0.7	36	0.46	0.040
146347	Soil	1.1	25.2	8.8	47	0.4	16.7	6.3	1948	2.14	87.6	1.6	16.1	3.4	26	0.2	1.9	1.1	36	0.26	0.041
146348	Soil	1.6	45.9	12.7	65	0.6	46.6	32.1	>10000	3.19	167.3	5.8	24.3	4.0	49	0.7	4.1	2.0	34	0.25	0.051
146349	Soil	3.0	19.6	34.6	171	0.6	44.6	81.4	>10000	8.11	92.1	7.0	41.0	6.5	31	1.6	2.8	0.9	37	0.25	0.152
146350	Soil	1.8	30.8	18.7	53	0.2	12.2	5.4	373	2.53	49.6	2.9	4.2	8.6	13	0.3	3.1	0.4	31	0.10	0.075
146351	Soil	1.3	31.2	9.9	45	0.4	14.4	6.6	197	2.13	70.4	1.0	16.6	3.6	25	0.3	2.2	1.1	32	0.21	0.046
146352	Soil	1.2	32.6	9.2	46	0.7	13.8	7.9	285	2.16	68.3	1.5	17.2	2.7	19	0.4	2.0	1.3	31	0.14	0.056
146353	Soil	1.1	20.8	9.2	48	0.4	15.2	11.2	643	2.14	66.3	0.9	8.8	3.4	17	0.3	1.8	1.3	32	0.14	0.047
146354	Soil	0.8	15.4	7.8	51	0.2	13.9	7.2	361	2.00	37.0	0.7	4.1	4.4	13	0.2	1.2	0.7	32	0.12	0.033
146355	Soil	1.1	22.2	10.2	41	0.2	13.6	5.6	158	1.95	65.7	0.7	10.1	3.9	22	0.1	1.6	1.0	33	0.24	0.039
146356	Soil	0.9	21.8	9.9	42	0.3	13.3	6.0	198	2.03	62.6	0.9	8.3	3.7	24	<0.1	1.1	0.7	37	0.26	0.040
146357	Soil	1.1	33.2	13.0	48	0.5	20.0	7.7	353	2.26	107.4	1.0	45.4	5.1	27	0.2	2.1	1.1	36	0.28	0.049
146358	Soil	0.7	29.0	10.1	42	0.3	16.1	6.8	212	2.06	50.5	1.3	8.7	4.4	27	<0.1	1.3	0.5	37	0.33	0.043
146359	Soil	0.9	20.1	8.5	43	0.2	13.5	6.5	217	1.92	57.4	0.8	6.8	4.0	22	0.1	1.2	0.5	36	0.26	0.040
146360	Soil	0.9	29.3	10.1	48	0.3	18.5	7.8	396	2.23	71.7	1.2	20.7	4.3	31	<0.1	1.7	0.6	38	0.37	0.062
146361	Soil	1.3	37.6	11.2	41	0.5	23.5	10.8	5603	2.75	175.8	1.7	34.9	4.4	48	0.2	3.3	1.7	30	0.37	0.041
146362	Soil	0.9	30.3	9.3	50	0.4	24.0	10.9	3726	2.31	72.1	2.1	8.4	3.1	54	0.3	1.8	0.8	32	0.59	0.045
146363	Soil	0.9	28.4	8.4	45	0.3	21.1	8.1	2061	2.01	43.3	1.6	4.7	2.7	44	0.2	1.0	0.5	33	0.50	0.045
146364	Soil	0.9	31.7	10.4	42	0.3	20.7	7.3	459	2.11	51.6	1.5	5.8	3.7	36	<0.1	1.1	0.6	40	0.41	0.044
146365	Soil	1.1	26.8	9.9	50	0.3	17.8	6.8	281	2.18	57.1	1.4	15.3	4.8	36	0.1	2.0	0.8	40	0.41	0.060
146366	Soil	2.0	25.9	16.8	56	0.3	15.6	20.2	1808	2.63	111.0	1.0	368.0	4.3	21	0.2	2.6	1.1	34	0.21	0.063
146367	Soil	0.8	18.4	8.7	46	0.2	14.1	6.0	197	1.92	39.8	0.9	3.5	3.5	23	0.2	1.0	0.5	37	0.29	0.053
146368	Soil	0.7	21.1	9.1	50	0.2	16.2	6.8	203	1.86	26.3	1.0	15.5	3.3	27	0.2	0.9	0.3	38	0.34	0.061
146369	Soil	1.1	25.2	10.9	45	0.2	16.5	7.6	309	2.15	48.6	1.0	8.9	4.3	29	<0.1	1.3	0.5	40	0.38	0.051
146370	Soil	1.1	18.4	8.6	54	0.1	18.2	8.9	447	2.22	22.4	0.9	2.5	3.1	32	0.2	0.7	0.2	37	0.37	0.072
146371	Soil	1.3	21.0	12.0	78	0.2	20.3	10.5	503	2.55	15.0	0.9	4.6	3.6	31	0.3	0.9	0.2	45	0.37	0.080

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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
146342	Soil	12	20	0.24	292	0.023	<1	0.97	0.007	0.03	0.2	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
146343	Soil	12	23	0.34	305	0.031	<1	1.01	0.009	0.03	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
146344	Soil	15	22	0.26	202	0.035	<1	0.94	0.007	0.04	0.2	0.04	2.7	<0.1	0.05	3	<0.5	<0.2
146345	Soil	15	19	0.33	338	0.027	2	1.10	0.010	0.05	0.2	0.05	2.4	0.1	0.10	3	<0.5	<0.2
146346	Soil	14	22	0.30	275	0.030	<1	1.06	0.008	0.04	0.1	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
146347	Soil	15	21	0.23	195	0.026	<1	1.03	0.007	0.04	0.2	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
146348	Soil	19	18	0.23	430	0.017	1	1.24	0.007	0.05	<0.1	0.06	3.5	0.2	<0.05	4	1.2	<0.2
146349	Soil	24	7	0.13	244	0.005	2	0.60	0.005	0.07	<0.1	0.05	4.1	0.2	<0.05	3	1.0	<0.2
146350	Soil	52	2	0.04	67	0.001	1	0.33	0.003	0.05	<0.1	0.03	3.7	<0.1	<0.05	<1	0.7	<0.2
146351	Soil	13	17	0.27	273	0.020	1	0.98	0.008	0.03	0.2	0.02	2.1	<0.1	0.05	3	0.9	<0.2
146352	Soil	15	15	0.21	236	0.008	1	1.05	0.006	0.04	0.2	0.04	2.1	0.1	<0.05	4	1.0	<0.2
146353	Soil	13	14	0.23	220	0.008	<1	0.97	0.005	0.04	0.2	0.02	1.7	0.1	<0.05	4	0.6	<0.2
146354	Soil	13	16	0.28	165	0.014	<1	1.00	0.005	0.03	0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
146355	Soil	12	20	0.34	288	0.025	<1	1.02	0.009	0.03	0.2	0.03	2.4	<0.1	<0.05	3	<0.5	<0.2
146356	Soil	12	20	0.36	303	0.024	<1	1.11	0.011	0.03	0.2	0.03	3.1	<0.1	<0.05	3	0.6	<0.2
146357	Soil	16	20	0.31	292	0.031	<1	0.96	0.010	0.04	0.2	0.03	3.0	<0.1	<0.05	3	0.5	0.2
146358	Soil	14	21	0.36	347	0.030	<1	1.14	0.010	0.04	0.2	0.04	3.8	<0.1	<0.05	3	<0.5	<0.2
146359	Soil	13	20	0.32	279	0.031	<1	1.05	0.008	0.04	0.2	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
146360	Soil	14	21	0.38	290	0.038	<1	1.05	0.012	0.04	0.2	0.04	3.3	<0.1	0.08	3	<0.5	<0.2
146361	Soil	16	15	0.23	235	0.024	<1	0.93	0.007	0.04	0.1	0.03	2.9	0.1	0.06	3	0.6	0.2
146362	Soil	13	18	0.34	266	0.021	1	1.09	0.010	0.04	0.1	0.04	2.8	<0.1	0.07	4	<0.5	<0.2
146363	Soil	12	20	0.34	273	0.026	<1	1.07	0.009	0.03	0.2	0.04	2.8	<0.1	<0.05	3	0.9	<0.2
146364	Soil	14	23	0.36	321	0.033	1	1.16	0.011	0.04	0.2	0.03	3.6	<0.1	<0.05	4	0.8	<0.2
146365	Soil	19	22	0.37	298	0.047	2	1.27	0.019	0.06	0.2	0.03	3.1	0.1	<0.05	4	<0.5	<0.2
146366	Soil	18	16	0.22	234	0.016	<1	0.82	0.008	0.06	0.2	0.02	2.4	<0.1	0.06	3	0.6	<0.2
146367	Soil	13	19	0.35	252	0.029	<1	1.16	0.010	0.04	0.2	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
146368	Soil	13	18	0.35	287	0.031	1	1.00	0.010	0.04	0.3	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
146369	Soil	15	22	0.36	298	0.036	<1	1.17	0.010	0.04	0.2	0.03	3.5	<0.1	<0.05	3	<0.5	<0.2
146370	Soil	13	19	0.35	306	0.031	1	0.97	0.011	0.03	0.3	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
146371	Soil	14	24	0.51	206	0.040	2	1.15	0.016	0.08	0.3	0.05	3.3	0.1	0.06	4	0.9	<0.2



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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
146372	Soil	1.2	20.1	18.9	47	0.2	14.5	6.3	344	2.25	16.9	1.0	1.3	1.5	28	0.3	0.6	0.5	42	0.31	0.050
146373	Soil	1.3	27.9	15.7	61	0.2	24.5	9.9	482	2.51	11.0	1.1	3.6	4.6	40	0.3	0.5	0.3	40	0.45	0.061
146374	Soil	1.2	22.7	16.7	62	<0.1	21.3	7.2	244	2.37	12.5	2.5	0.7	5.6	35	0.2	0.4	0.3	27	0.40	0.041
146375	Soil	1.4	21.8	16.5	58	<0.1	17.8	6.0	228	2.38	10.5	1.3	2.5	5.4	20	0.1	0.4	0.2	22	0.22	0.031
146376	Soil	0.9	15.7	18.3	56	0.1	12.6	6.5	205	1.11	6.0	2.7	1.2	13.3	25	0.1	0.4	0.6	11	0.16	0.017
146377	Soil	1.0	18.7	28.2	64	<0.1	14.3	5.1	103	1.87	12.3	1.8	2.6	11.9	29	<0.1	0.6	0.6	23	0.20	0.016
146378	Soil	1.0	19.6	20.0	64	0.1	16.6	5.1	104	1.95	19.9	1.7	3.6	8.9	20	<0.1	0.8	0.6	22	0.17	0.024
146379	Soil	0.9	14.6	24.6	35	0.1	9.8	3.4	85	1.46	114.2	1.3	2.8	9.8	24	<0.1	0.9	1.3	20	0.16	0.018
146380	Soil	1.2	20.2	25.9	44	0.2	11.4	4.5	170	1.46	10.2	1.5	2.6	13.7	27	0.2	0.8	0.6	19	0.21	0.025
146381	Soil	1.2	12.5	29.7	26	0.1	8.4	3.1	72	1.19	12.7	1.6	2.2	10.0	21	<0.1	0.9	0.3	20	0.12	0.012
146382	Soil	1.0	25.7	11.8	32	<0.1	14.0	4.6	113	1.64	19.0	2.9	1.6	10.8	25	<0.1	0.7	0.5	23	0.19	0.016
146383	Soil	1.1	14.6	27.3	56	0.2	15.9	7.1	394	2.31	9.2	0.8	3.2	4.0	15	0.2	0.5	0.2	45	0.14	0.023
146384	Soil	1.0	14.9	9.6	44	<0.1	20.5	7.5	151	2.20	13.1	1.4	2.7	9.4	18	<0.1	0.6	0.4	25	0.15	0.016
146385	Soil	2.6	22.3	61.9	64	0.2	12.7	5.1	116	1.82	18.1	1.7	3.7	11.6	29	<0.1	0.9	0.9	19	0.18	0.019
146386	Soil	0.9	27.0	12.6	52	0.2	20.9	10.4	433	2.37	10.2	1.5	3.8	2.7	35	0.2	0.7	0.2	46	0.49	0.068
146387	Soil	0.8	24.2	11.0	49	0.2	21.2	10.7	645	2.32	9.4	1.2	7.4	2.5	34	0.2	0.6	0.2	45	0.51	0.068
146388	Soil	1.2	31.8	10.9	49	0.2	26.0	11.6	584	2.23	9.4	1.9	4.2	2.5	39	0.2	0.7	0.2	46	0.65	0.084
146389	Soil	1.4	30.1	25.4	50	0.2	27.1	9.3	316	2.47	16.2	1.9	3.9	5.2	30	0.1	1.0	0.4	50	0.40	0.049
146390	Soil	1.0	28.7	19.8	44	0.2	23.0	9.9	398	2.56	13.7	3.5	3.0	4.9	34	<0.1	0.8	0.3	52	0.44	0.045
146391	Soil	1.0	29.1	34.5	44	0.2	21.7	8.3	231	2.37	18.3	1.4	4.9	7.3	28	<0.1	0.9	0.6	45	0.34	0.023
146392	Soil	0.6	22.6	36.8	33	0.1	15.1	5.2	136	1.88	12.7	1.3	4.4	10.6	23	<0.1	0.9	0.7	35	0.24	0.013
146393	Soil	0.8	26.0	44.0	36	0.2	18.8	6.7	184	2.09	14.3	1.0	3.6	7.4	25	<0.1	1.7	0.7	37	0.27	0.016
146394	Soil	0.7	30.2	48.8	37	0.2	18.5	6.0	152	2.26	23.6	1.4	4.1	9.8	27	<0.1	1.6	0.8	38	0.32	0.021
146395	Soil	1.2	33.0	31.4	49	0.4	25.6	8.8	279	2.82	16.0	2.3	3.8	5.7	32	<0.1	1.0	0.3	47	0.42	0.039
146396	Soil	1.2	35.8	27.7	45	0.4	23.9	7.0	197	2.63	22.8	1.5	4.6	6.4	27	<0.1	1.2	0.6	47	0.34	0.031
146397	Soil	1.5	23.2	26.0	26	0.1	15.2	4.0	96	1.56	6.1	1.5	3.0	11.2	23	<0.1	0.6	0.6	29	0.29	0.022
146398	Soil	0.9	34.6	28.8	90	<0.1	25.8	8.1	295	3.00	8.2	1.6	4.1	6.9	36	<0.1	0.7	0.5	39	0.26	0.034
109815	Soil	1.3	25.7	25.5	105	0.3	17.6	6.4	227	2.81	67.9	1.4	6.5	6.0	30	0.3	1.2	1.0	41	0.28	0.058
109816	Soil	1.1	33.0	13.3	54	0.2	21.3	6.8	217	2.58	31.8	1.4	4.9	5.4	30	0.2	1.1	0.5	45	0.35	0.052
109817	Soil	0.9	31.9	11.4	53	0.2	22.5	8.8	280	2.53	34.5	1.3	4.1	4.4	29	<0.1	1.0	0.5	52	0.40	0.048

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Project: Bishop
Report Date: September 30, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
146372	Soil	15	20	0.28	231	0.018	1	1.34	0.008	0.05	<0.1	0.07	3.1	0.2	<0.05	4	<0.5	<0.2
146373	Soil	17	26	0.38	396	0.019	<1	1.49	0.016	0.09	<0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
146374	Soil	12	17	0.29	348	0.004	<1	1.16	0.007	0.12	<0.1	0.03	4.4	0.1	<0.05	4	<0.5	<0.2
146375	Soil	19	14	0.14	229	0.002	<1	0.75	0.004	0.10	<0.1	0.01	3.6	0.1	<0.05	2	<0.5	<0.2
146376	Soil	27	7	0.09	223	0.001	<1	0.56	0.006	0.15	<0.1	0.01	2.1	0.2	<0.05	1	<0.5	<0.2
146377	Soil	19	13	0.15	222	0.003	<1	1.30	0.005	0.12	<0.1	0.01	3.5	0.2	<0.05	3	<0.5	<0.2
146378	Soil	17	12	0.17	170	0.004	<1	0.82	0.006	0.10	<0.1	0.02	3.2	0.1	<0.05	2	<0.5	<0.2
146379	Soil	22	12	0.16	195	0.006	<1	0.76	0.005	0.09	<0.1	0.02	2.7	0.1	<0.05	2	<0.5	<0.2
146380	Soil	27	12	0.17	237	0.003	<1	0.88	0.006	0.12	0.1	0.02	2.9	0.2	0.06	2	<0.5	<0.2
146381	Soil	20	13	0.19	134	0.015	<1	0.63	0.005	0.07	<0.1	<0.01	1.9	0.1	<0.05	2	<0.5	<0.2
146382	Soil	35	14	0.20	294	0.005	<1	0.84	0.007	0.08	0.1	0.01	3.5	0.1	<0.05	2	<0.5	<0.2
146383	Soil	13	21	0.29	263	0.017	1	1.25	0.006	0.05	<0.1	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2
146384	Soil	26	15	0.21	172	0.007	<1	0.84	0.005	0.06	0.1	0.01	1.8	0.1	<0.05	2	<0.5	<0.2
146385	Soil	29	12	0.13	251	0.003	<1	0.85	0.006	0.12	0.3	0.03	2.5	0.2	<0.05	2	<0.5	<0.2
146386	Soil	15	25	0.39	400	0.031	<1	1.41	0.012	0.04	0.1	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
146387	Soil	13	26	0.39	362	0.031	<1	1.33	0.012	0.04	0.1	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
146388	Soil	16	26	0.41	456	0.033	<1	1.34	0.012	0.04	0.2	0.06	3.4	<0.1	0.06	4	0.7	<0.2
146389	Soil	16	35	0.41	418	0.038	<1	1.52	0.014	0.05	<0.1	0.06	3.8	<0.1	<0.05	4	<0.5	<0.2
146390	Soil	17	30	0.44	448	0.041	<1	1.57	0.014	0.05	0.1	0.05	3.9	<0.1	<0.05	4	0.7	<0.2
146391	Soil	20	30	0.37	382	0.033	<1	1.73	0.012	0.08	<0.1	0.07	3.7	0.1	<0.05	5	<0.5	<0.2
146392	Soil	22	22	0.27	274	0.023	<1	1.45	0.007	0.08	<0.1	0.05	3.2	0.1	<0.05	4	<0.5	<0.2
146393	Soil	22	25	0.28	296	0.023	<1	1.60	0.008	0.08	<0.1	0.06	3.3	0.1	<0.05	5	<0.5	<0.2
146394	Soil	22	24	0.33	356	0.019	<1	1.63	0.007	0.08	<0.1	0.07	4.3	0.2	<0.05	5	<0.5	<0.2
146395	Soil	17	31	0.47	440	0.035	<1	1.86	0.015	0.07	<0.1	0.08	5.0	0.1	<0.05	5	<0.5	<0.2
146396	Soil	21	31	0.42	441	0.026	<1	1.67	0.011	0.09	0.1	0.07	4.5	0.2	<0.05	5	<0.5	<0.2
146397	Soil	22	19	0.24	336	0.005	<1	1.30	0.008	0.11	0.2	0.03	2.9	0.2	<0.05	3	<0.5	<0.2
146398	Soil	17	25	0.33	351	0.016	<1	1.36	0.009	0.08	0.2	0.03	3.8	0.1	<0.05	4	<0.5	<0.2
109815	Soil	23	21	0.30	333	0.034	<1	1.17	0.012	0.08	0.1	0.04	3.6	0.1	0.09	4	<0.5	<0.2
109816	Soil	20	26	0.37	359	0.041	<1	1.47	0.012	0.07	0.1	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
109817	Soil	17	29	0.45	367	0.048	<1	1.55	0.012	0.06	0.1	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: September 30, 2011

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
109818	Soil	0.9	27.1	10.0	51	0.1	19.3	7.6	233	2.34	30.9	1.2	4.5	4.2	28	<0.1	1.0	0.4	48	0.42	0.056
109819	Soil	0.9	25.6	10.8	50	0.2	19.1	8.3	235	2.39	27.2	1.6	6.9	4.4	29	<0.1	0.9	0.4	47	0.41	0.057
109820	Soil	1.0	31.9	11.0	56	0.2	22.7	8.6	298	2.52	32.1	0.9	11.5	4.7	31	0.1	1.0	0.4	48	0.47	0.056
109821	Soil	0.9	32.6	10.4	53	0.2	21.1	7.4	256	2.50	36.3	1.4	3.4	4.2	33	0.1	1.2	0.5	47	0.47	0.058
109822	Soil	0.9	26.2	9.9	51	0.2	19.0	7.4	226	2.21	28.2	1.3	3.8	4.2	28	0.1	1.0	0.4	44	0.37	0.056
109823	Soil	1.1	29.9	11.5	59	0.2	22.1	7.8	253	2.51	40.3	1.1	7.8	4.9	29	0.1	1.2	0.5	47	0.39	0.058
109824	Soil	1.2	27.1	11.2	53	0.3	17.4	7.3	231	2.35	37.8	1.0	30.9	2.2	25	0.2	1.0	0.6	43	0.30	0.055
109825	Soil	1.3	34.1	12.8	49	0.5	19.0	7.6	208	2.40	57.4	1.2	6.4	4.0	25	0.2	1.3	0.8	42	0.29	0.049
109826	Soil	1.4	27.1	12.1	51	0.4	16.0	6.2	173	2.28	50.0	1.0	7.9	4.3	23	0.2	1.3	0.8	44	0.27	0.044
109827	Soil	1.4	22.8	13.4	43	0.3	14.4	7.0	221	2.04	66.4	0.6	15.0	4.7	20	0.1	1.8	0.8	37	0.23	0.044
109828	Soil	1.4	23.8	13.0	46	0.3	15.0	6.0	141	2.30	61.0	0.7	5.9	4.3	19	<0.1	1.6	0.7	43	0.23	0.036
109829	Soil	3.2	63.4	15.9	48	0.4	16.5	9.1	219	2.73	59.2	1.2	8.2	6.9	29	0.1	2.5	1.3	45	0.31	0.056
109830	Soil	2.0	49.7	11.7	47	0.3	15.7	6.5	166	2.21	52.9	1.2	8.1	6.3	27	0.1	2.5	0.9	40	0.32	0.052
109831	Soil	2.2	37.8	12.1	52	0.4	15.8	7.5	188	2.31	54.4	0.9	6.9	4.6	23	0.2	2.0	0.8	41	0.27	0.052
109832	Soil	1.9	43.3	13.4	51	0.4	17.3	6.5	161	2.44	55.4	1.2	6.8	4.8	27	0.2	2.0	0.8	42	0.32	0.049
109833	Soil	1.9	42.6	15.1	54	0.4	18.2	9.3	263	2.41	59.1	1.2	6.7	4.7	28	0.2	2.2	1.0	42	0.32	0.054
109834	Soil	1.4	35.0	12.3	46	0.3	17.4	8.3	290	2.25	47.4	1.1	9.2	5.1	25	0.1	1.6	0.6	43	0.31	0.042
109835	Soil	1.2	30.4	11.8	45	0.2	16.2	7.4	227	2.19	41.7	1.1	5.5	5.3	23	<0.1	1.5	0.6	40	0.29	0.043
109836	Soil	1.4	29.4	13.2	52	0.3	18.2	7.7	316	2.21	53.7	1.2	6.1	4.1	28	0.2	1.5	0.7	42	0.32	0.046
109837	Soil	1.3	26.0	10.8	49	0.2	15.9	7.5	283	2.09	40.1	1.1	2.8	3.7	24	0.2	1.2	0.6	38	0.29	0.056
131001	Soil	0.8	21.7	10.1	46	0.2	16.2	6.0	150	2.11	43.8	0.9	3.3	4.0	26	<0.1	1.1	0.6	41	0.34	0.040
131002	Soil	0.8	30.5	10.9	52	0.2	21.5	7.5	228	2.43	48.0	1.2	3.1	4.5	30	<0.1	1.3	0.6	42	0.37	0.045
131003	Soil	1.8	36.3	16.1	69	0.4	24.0	8.3	316	3.81	124.6	1.8	10.0	7.0	31	0.1	2.5	1.3	51	0.38	0.072
131004	Soil	0.9	28.3	10.5	52	0.3	19.6	6.6	207	2.28	47.2	1.2	13.0	4.5	29	0.1	1.2	0.6	44	0.36	0.042
131005	Soil	0.8	20.1	9.5	46	0.2	15.0	6.2	190	1.99	42.0	1.1	13.5	4.3	25	<0.1	1.1	0.5	40	0.32	0.049
131006	Soil	0.9	22.6	9.6	49	0.3	15.2	7.1	259	2.17	49.3	1.1	2.4	4.2	25	<0.1	1.1	0.7	41	0.31	0.048
131007	Soil	0.8	25.2	9.5	49	0.3	16.6	8.7	351	2.12	40.2	1.4	5.9	3.6	28	0.1	1.1	0.6	39	0.36	0.057
131008	Soil	0.8	23.4	9.7	50	0.3	16.3	8.3	272	2.24	56.5	1.1	7.3	4.1	27	0.2	1.3	0.6	42	0.34	0.048
131009	Soil	0.8	27.6	9.8	49	0.3	17.1	6.2	200	2.11	63.6	1.0	4.4	4.4	27	0.1	1.5	0.7	38	0.32	0.053
131010	Soil	0.8	28.0	9.9	51	0.4	17.6	7.0	287	2.09	51.5	1.5	4.4	3.5	31	0.2	1.4	0.6	40	0.38	0.059

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
109818	Soil	17	25	0.42	318	0.050	<1	1.42	0.015	0.05	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
109819	Soil	17	26	0.41	317	0.047	<1	1.41	0.014	0.04	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
109820	Soil	16	27	0.46	356	0.051	<1	1.44	0.017	0.05	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
109821	Soil	16	28	0.42	407	0.050	<1	1.43	0.015	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
109822	Soil	17	26	0.42	318	0.052	2	1.49	0.015	0.05	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
109823	Soil	18	28	0.42	323	0.057	<1	1.45	0.015	0.05	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
109824	Soil	15	26	0.35	306	0.041	<1	1.62	0.011	0.06	0.2	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
109825	Soil	16	24	0.34	333	0.039	<1	1.51	0.011	0.05	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
109826	Soil	16	24	0.39	298	0.042	<1	1.57	0.011	0.05	0.2	0.05	2.6	0.1	<0.05	5	<0.5	<0.2
109827	Soil	15	21	0.33	191	0.047	<1	1.19	0.010	0.05	0.2	0.03	2.0	0.1	<0.05	3	<0.5	<0.2
109828	Soil	15	24	0.38	215	0.048	<1	1.49	0.010	0.05	0.2	0.03	2.2	0.1	<0.05	4	<0.5	<0.2
109829	Soil	24	24	0.41	294	0.042	<1	1.40	0.011	0.08	0.2	0.02	2.9	0.3	<0.05	4	<0.5	<0.2
109830	Soil	21	22	0.40	287	0.047	<1	1.21	0.013	0.06	0.2	0.03	2.7	0.1	<0.05	4	<0.5	<0.2
109831	Soil	16	23	0.36	258	0.038	<1	1.39	0.010	0.05	0.2	0.04	2.6	0.1	<0.05	4	<0.5	<0.2
109832	Soil	17	25	0.37	295	0.045	<1	1.48	0.011	0.05	0.2	0.04	3.0	0.1	<0.05	5	<0.5	<0.2
109833	Soil	18	24	0.37	337	0.046	<1	1.48	0.012	0.05	0.2	0.04	3.0	0.1	<0.05	4	<0.5	<0.2
109834	Soil	17	24	0.39	307	0.048	<1	1.36	0.011	0.04	0.2	0.03	3.0	0.1	<0.05	4	<0.5	<0.2
109835	Soil	18	23	0.38	282	0.054	<1	1.26	0.012	0.05	0.2	0.03	2.7	0.1	<0.05	4	<0.5	<0.2
109836	Soil	16	24	0.34	314	0.043	<1	1.38	0.010	0.04	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
109837	Soil	17	22	0.30	288	0.044	<1	1.27	0.009	0.04	0.2	0.05	2.9	<0.1	<0.05	4	0.7	<0.2
131001	Soil	14	22	0.37	269	0.046	<1	1.41	0.011	0.05	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
131002	Soil	15	27	0.41	313	0.055	<1	1.49	0.013	0.05	0.2	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
131003	Soil	23	23	0.32	330	0.033	1	1.58	0.012	0.08	0.1	0.05	4.4	0.1	<0.05	5	<0.5	<0.2
131004	Soil	16	25	0.38	350	0.049	<1	1.50	0.013	0.05	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
131005	Soil	16	22	0.36	282	0.040	<1	1.31	0.013	0.04	0.2	0.04	2.5	<0.1	<0.05	4	<0.5	<0.2
131006	Soil	15	23	0.36	319	0.037	<1	1.35	0.011	0.04	0.3	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
131007	Soil	15	21	0.35	337	0.034	<1	1.27	0.011	0.04	0.3	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
131008	Soil	16	24	0.37	309	0.050	<1	1.27	0.012	0.05	0.2	0.04	2.5	<0.1	<0.05	4	0.6	<0.2
131009	Soil	17	22	0.35	295	0.043	<1	1.19	0.012	0.05	0.2	0.03	2.9	<0.1	<0.05	4	0.5	<0.2
131010	Soil	16	22	0.36	393	0.039	<1	1.29	0.012	0.04	0.3	0.05	3.0	<0.1	<0.05	4	0.6	<0.2

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Project: Bishop
 Report Date: September 30, 2011

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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
131011	Soil	0.7	23.7	8.3	50	0.2	16.6	6.4	205	2.01	40.3	1.1	2.1	4.3	28	0.2	1.1	0.4	40	0.38	0.067
131012	Soil	0.9	24.6	10.1	44	0.1	17.4	6.1	195	2.22	36.3	0.9	3.0	5.2	23	0.1	1.3	0.5	41	0.28	0.046
131013	Soil	0.7	26.4	9.3	46	0.2	18.1	6.8	212	2.15	28.3	1.3	43.3	4.7	26	<0.1	1.0	0.4	39	0.34	0.049
131014	Soil	0.7	17.7	9.2	44	0.1	16.0	5.8	148	2.03	24.8	0.8	7.3	3.9	22	<0.1	0.9	0.4	40	0.28	0.045
131015	Soil	1.1	18.3	9.6	45	0.2	16.5	6.4	168	2.15	29.9	0.7	7.3	4.2	21	0.1	0.8	0.4	41	0.25	0.041
131016	Soil	1.1	21.2	11.0	46	0.2	14.8	5.5	161	2.09	38.8	0.9	4.1	4.2	23	0.2	1.2	0.6	40	0.25	0.039
131017	Soil	1.3	20.0	10.5	50	0.3	15.6	6.1	210	2.30	49.0	0.8	4.8	3.7	23	0.2	1.4	0.7	38	0.24	0.040
131018	Soil	0.9	27.2	10.7	46	0.2	17.2	6.1	212	2.26	51.1	1.2	2.7	5.2	26	<0.1	1.5	0.7	37	0.31	0.043
131019	Soil	1.1	32.5	12.0	55	0.2	21.7	8.4	303	2.62	56.3	1.1	17.5	5.4	31	0.1	1.4	0.6	42	0.41	0.048
131020	Soil	0.9	26.1	9.7	47	0.2	16.4	5.7	192	2.14	47.1	1.1	1.8	5.3	26	<0.1	1.3	0.6	40	0.31	0.046
131021	Soil	0.8	27.8	10.9	55	0.2	18.9	6.9	220	2.43	47.7	0.9	5.7	4.9	30	<0.1	1.4	0.5	43	0.35	0.047
131022	Soil	1.1	26.3	11.0	46	0.1	19.3	7.1	280	2.23	35.8	1.5	3.4	5.1	25	<0.1	1.1	0.5	39	0.31	0.053
131023	Soil	0.8	29.2	11.7	51	0.2	21.6	8.0	280	2.44	33.0	1.3	3.4	4.3	31	<0.1	1.2	0.4	48	0.42	0.053
131024	Soil	0.9	31.7	10.2	54	0.2	23.5	7.1	249	2.41	34.7	1.4	9.6	4.7	31	0.1	1.0	0.4	45	0.40	0.056
131025	Soil	1.0	36.6	10.8	51	0.3	20.3	6.8	213	2.41	75.0	0.7	8.6	5.6	29	<0.1	2.3	1.0	39	0.35	0.046
131026	Soil	0.7	29.6	9.9	53	0.2	21.0	8.7	294	2.39	26.1	1.1	16.0	4.0	32	0.1	1.1	0.3	44	0.48	0.058
131027	Soil	0.9	26.1	10.1	49	0.1	17.0	6.7	195	2.42	34.8	1.2	4.7	4.7	26	<0.1	1.0	0.5	41	0.32	0.040
131028	Soil	0.9	16.0	12.9	56	<0.1	12.8	5.2	241	2.31	12.8	1.4	1.5	6.3	36	<0.1	0.9	0.3	45	0.26	0.040
131029	Soil	1.1	17.3	12.6	74	<0.1	15.2	6.0	256	2.60	33.0	1.3	6.6	6.7	23	0.1	1.1	0.4	35	0.24	0.053



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CERTIFICATE OF ANALYSIS

WHI11001151.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
131011	Soil	15	21	0.36	290	0.047	<1	1.06	0.014	0.04	0.3	0.05	2.6	<0.1	<0.05	3	<0.5	<0.2
131012	Soil	17	24	0.34	252	0.053	<1	1.15	0.012	0.05	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
131013	Soil	17	23	0.36	342	0.047	<1	1.29	0.012	0.04	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
131014	Soil	14	22	0.37	272	0.041	<1	1.36	0.009	0.04	0.3	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
131015	Soil	14	24	0.34	292	0.039	<1	1.36	0.009	0.05	0.3	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
131016	Soil	15	22	0.34	274	0.047	<1	1.39	0.011	0.05	0.1	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
131017	Soil	15	21	0.30	261	0.042	<1	1.47	0.010	0.05	0.2	0.04	2.4	0.1	<0.05	4	<0.5	<0.2
131018	Soil	17	22	0.35	304	0.047	<1	1.25	0.013	0.05	0.2	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
131019	Soil	17	26	0.40	354	0.052	<1	1.43	0.016	0.06	0.1	0.06	3.8	<0.1	<0.05	4	0.9	<0.2
131020	Soil	18	23	0.34	299	0.053	<1	1.22	0.013	0.05	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
131021	Soil	17	26	0.36	325	0.051	<1	1.37	0.017	0.05	0.2	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
131022	Soil	18	27	0.34	344	0.049	<1	1.27	0.009	0.05	0.3	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
131023	Soil	16	27	0.38	367	0.051	<1	1.40	0.012	0.05	0.2	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
131024	Soil	17	27	0.37	364	0.052	<1	1.37	0.013	0.05	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
131025	Soil	18	22	0.36	322	0.047	<1	1.24	0.014	0.06	0.1	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
131026	Soil	15	25	0.40	334	0.053	<1	1.33	0.015	0.05	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
131027	Soil	17	25	0.36	308	0.045	1	1.41	0.010	0.05	0.2	0.05	3.5	<0.1	<0.05	4	0.6	<0.2
131028	Soil	19	16	0.28	252	0.057	<1	1.18	0.009	0.06	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
131029	Soil	23	17	0.26	189	0.030	<1	0.96	0.008	0.06	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11001151.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
110744	Soil	1.9	28.7	39.5	67	0.2	28.2	11.3	339	2.61	32.8	1.1	10.1	4.8	35	0.1	2.0	0.3	59	0.40	0.045
REP 110744	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
110770	Soil	1.0	24.3	174.6	76	0.3	18.9	5.6	152	1.98	71.1	0.7	13.7	5.0	16	0.2	2.8	0.5	31	0.18	0.017
REP 110770	QC	1.1	25.3	156.3	81	0.3	18.2	5.9	136	1.93	72.1	0.8	10.0	5.6	17	0.3	3.3	0.5	34	0.18	0.019
110782	Soil	1.5	26.3	17.7	84	<0.1	22.3	7.6	336	3.18	9.1	2.4	2.5	24.7	23	<0.1	1.0	0.3	40	0.29	0.024
REP 110782	QC	1.6	24.5	17.1	82	<0.1	20.8	7.7	340	3.19	8.8	2.4	7.3	24.0	23	0.1	1.1	0.3	36	0.30	0.023
110811	Soil	1.4	20.0	21.4	58	<0.1	21.7	3.9	465	2.18	25.7	4.8	8.6	48.7	19	<0.1	3.2	1.1	20	0.22	0.020
REP 110811	QC	1.2	19.8	22.2	59	<0.1	21.7	4.0	485	2.10	25.9	4.7	7.5	48.8	19	0.1	3.3	1.1	21	0.22	0.019
114390	Soil	1.3	17.5	20.6	60	0.2	15.9	6.6	235	2.23	24.0	0.8	11.6	2.6	45	0.4	0.8	0.3	42	0.27	0.059
REP 114390	QC	1.5	17.9	20.6	64	0.2	16.4	6.8	235	2.25	24.0	0.8	10.4	2.8	46	0.4	0.9	0.3	42	0.27	0.059
114410	Soil	1.3	35.5	80.1	100	0.2	28.2	9.9	358	2.74	32.0	1.3	47.8	7.8	23	0.2	2.3	0.4	48	0.23	0.013
REP 114410	QC	1.4	35.6	83.4	100	0.2	28.0	9.8	365	2.66	32.9	1.3	11.1	7.8	24	0.2	2.7	0.4	49	0.22	0.014
114430	Soil	1.4	30.9	27.3	70	0.2	23.6	10.3	388	2.70	23.8	2.7	2.9	4.7	38	<0.1	1.1	0.3	53	0.51	0.042
REP 114430	QC	1.4	29.0	25.7	68	0.2	22.1	9.8	366	2.58	23.9	2.7	6.8	4.4	36	0.2	1.1	0.2	53	0.48	0.035
114431	Soil	0.9	29.1	28.6	82	0.1	24.9	7.2	358	2.59	13.4	2.3	6.5	18.6	20	<0.1	0.9	0.9	31	0.27	0.017
REP 114431	QC	1.0	29.3	29.8	81	0.1	24.9	7.3	351	2.55	13.5	2.5	5.7	19.3	20	<0.1	0.9	0.9	33	0.27	0.017
114441	Soil	0.8	17.4	64.9	43	0.3	13.5	4.5	246	1.79	53.3	3.0	8.3	20.8	16	0.1	3.0	0.8	25	0.13	0.025
REP 114441	QC	0.8	19.1	73.7	47	0.3	14.7	4.9	268	1.97	56.8	3.2	9.2	22.0	17	0.2	3.3	0.9	26	0.14	0.027
145302	Soil	1.2	28.1	22.6	92	0.2	19.9	6.9	251	2.78	16.9	2.9	6.4	5.6	33	0.2	1.0	0.4	49	0.30	0.053
REP 145302	QC	1.1	28.5	22.6	90	0.2	19.4	7.1	254	2.81	16.2	2.9	2.3	5.6	33	0.2	1.1	0.4	53	0.31	0.052
145321	Soil	0.8	6.5	11.2	7	<0.1	2.0	0.9	22	0.44	9.1	0.6	3.4	7.1	9	<0.1	0.7	0.5	11	0.04	0.005
REP 145321	QC	0.6	6.2	11.3	7	<0.1	2.3	0.8	22	0.44	8.7	0.7	1.2	7.1	10	<0.1	0.7	0.5	11	0.04	0.004
145367	Soil	1.8	16.3	13.5	46	<0.1	16.1	6.5	152	2.36	12.2	1.1	1.9	8.5	15	<0.1	0.5	0.5	51	0.13	0.016
REP 145367	QC	1.7	15.4	13.8	45	<0.1	15.7	6.7	169	2.55	12.5	1.2	0.6	8.9	14	<0.1	0.6	0.6	56	0.13	0.015
146336	Soil	1.0	16.2	13.0	50	0.1	14.1	6.5	280	1.91	26.3	0.8	5.0	2.9	20	0.2	0.8	0.3	39	0.27	0.053
REP 146336	QC	1.0	17.6	12.5	52	<0.1	14.2	6.8	304	2.01	27.2	0.8	5.1	2.8	20	0.2	0.8	0.3	41	0.28	0.056
146350	Soil	1.8	30.8	18.7	53	0.2	12.2	5.4	373	2.53	49.6	2.9	4.2	8.6	13	0.3	3.1	0.4	31	0.10	0.075
REP 146350	QC	1.8	32.2	18.8	53	0.2	11.9	5.8	378	2.65	51.9	2.9	5.6	8.8	14	0.4	3.0	0.3	32	0.11	0.079

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.



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
110744	Soil	19	44	0.41	376	0.083	3	1.74	0.018	0.06	0.3	0.03	4.6	<0.1	<0.05	5	<0.5	0.3
REP 110744	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
110770	Soil	18	21	0.22	213	0.022	<1	0.93	0.005	0.07	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
REP 110770	QC	22	22	0.23	223	0.030	<1	0.98	0.006	0.08	0.1	0.03	2.8	0.1	<0.05	3	<0.5	<0.2
110782	Soil	59	28	0.48	389	0.025	2	1.79	0.010	0.23	<0.1	<0.01	3.9	0.3	<0.05	8	<0.5	<0.2
REP 110782	QC	60	28	0.44	381	0.024	1	1.77	0.010	0.23	<0.1	0.02	3.6	0.2	<0.05	7	0.6	<0.2
110811	Soil	35	20	0.18	183	0.009	1	1.57	0.006	0.07	<0.1	0.02	3.8	0.2	<0.05	5	0.9	<0.2
REP 110811	QC	36	22	0.17	177	0.008	<1	1.49	0.006	0.07	<0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
114390	Soil	15	22	0.38	246	0.028	<1	1.51	0.010	0.04	0.2	0.06	3.0	<0.1	<0.05	5	0.9	<0.2
REP 114390	QC	16	23	0.38	250	0.029	2	1.49	0.010	0.04	0.2	0.05	2.9	<0.1	<0.05	5	<0.5	<0.2
114410	Soil	25	32	0.30	324	0.039	<1	1.53	0.008	0.07	<0.1	0.04	4.8	0.1	<0.05	4	<0.5	<0.2
REP 114410	QC	26	32	0.31	349	0.047	<1	1.60	0.009	0.09	0.1	0.05	4.4	0.1	<0.05	4	<0.5	<0.2
114430	Soil	18	34	0.50	402	0.060	2	1.81	0.015	0.06	0.2	0.03	4.2	<0.1	<0.05	5	1.7	<0.2
REP 114430	QC	18	32	0.48	403	0.060	3	1.78	0.015	0.06	0.2	0.04	4.5	<0.1	<0.05	5	2.0	<0.2
114431	Soil	26	23	0.28	290	0.007	<1	1.61	0.007	0.20	0.1	0.02	3.6	0.2	<0.05	5	<0.5	<0.2
REP 114431	QC	27	24	0.29	287	0.007	<1	1.69	0.008	0.20	<0.1	0.03	3.7	0.2	<0.05	5	<0.5	<0.2
114441	Soil	27	14	0.16	172	0.019	<1	0.79	0.005	0.06	<0.1	0.03	2.5	0.2	<0.05	2	<0.5	<0.2
REP 114441	QC	29	14	0.17	190	0.020	1	0.85	0.005	0.07	<0.1	0.04	2.7	0.2	<0.05	3	<0.5	<0.2
145302	Soil	16	22	0.35	379	0.025	<1	1.27	0.007	0.05	<0.1	0.06	4.5	0.2	<0.05	4	1.0	<0.2
REP 145302	QC	17	22	0.35	372	0.028	<1	1.33	0.009	0.06	<0.1	0.09	4.3	0.2	<0.05	4	0.6	<0.2
145321	Soil	13	4	0.05	65	0.003	<1	0.27	0.003	0.04	<0.1	0.02	0.4	<0.1	<0.05	<1	<0.5	<0.2
REP 145321	QC	13	4	0.04	64	0.004	<1	0.28	0.003	0.05	<0.1	0.01	0.4	<0.1	<0.05	1	<0.5	<0.2
145367	Soil	10	30	0.33	198	0.026	<1	1.57	0.008	0.04	0.2	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
REP 145367	QC	10	33	0.34	199	0.028	<1	1.54	0.004	0.04	0.2	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
146336	Soil	12	21	0.29	220	0.029	<1	0.95	0.007	0.03	0.3	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
REP 146336	QC	12	22	0.29	216	0.030	<1	0.99	0.007	0.04	0.3	0.04	2.0	<0.1	<0.05	3	<0.5	<0.2
146350	Soil	52	2	0.04	67	0.001	1	0.33	0.003	0.05	<0.1	0.03	3.7	<0.1	<0.05	<1	0.7	<0.2
REP 146350	QC	55	3	0.04	68	0.001	<1	0.34	0.004	0.05	<0.1	0.03	3.8	<0.1	<0.05	<1	1.5	<0.2

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Project: Bishop
 Report Date: September 30, 2011

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QUALITY CONTROL REPORT

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		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 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
146365	Soil	1.1	26.8	9.9	50	0.3	17.8	6.8	281	2.18	57.1	1.4	15.3	4.8	36	0.1	2.0	0.8	40	0.41	0.060
REP 146365	QC	1.0	27.9	10.3	50	0.3	17.1	7.1	286	2.22	57.2	1.4	8.7	4.9	36	0.1	1.9	0.8	42	0.40	0.057
146382	Soil	1.0	25.7	11.8	32	<0.1	14.0	4.6	113	1.64	19.0	2.9	1.6	10.8	25	<0.1	0.7	0.5	23	0.19	0.016
REP 146382	QC	0.9	26.5	11.6	32	0.1	14.0	4.7	113	1.64	18.5	3.0	1.9	10.8	26	<0.1	0.6	0.4	23	0.20	0.015
109815	Soil	1.3	25.7	25.5	105	0.3	17.6	6.4	227	2.81	67.9	1.4	6.5	6.0	30	0.3	1.2	1.0	41	0.28	0.058
REP 109815	QC	1.3	25.5	24.9	105	0.3	17.6	6.4	231	2.86	68.0	1.4	7.0	5.8	31	0.3	1.2	1.1	43	0.29	0.060
109819	Soil	0.9	25.6	10.8	50	0.2	19.1	8.3	235	2.39	27.2	1.6	6.9	4.4	29	<0.1	0.9	0.4	47	0.41	0.057
REP 109819	QC	0.9	25.1	10.3	48	0.1	19.0	7.7	227	2.23	26.4	1.5	4.1	4.6	28	<0.1	0.9	0.4	45	0.38	0.056
131007	Soil	0.8	25.2	9.5	49	0.3	16.6	8.7	351	2.12	40.2	1.4	5.9	3.6	28	0.1	1.1	0.6	39	0.36	0.057
REP 131007	QC	0.8	24.6	9.6	50	0.3	16.9	8.6	350	2.10	40.2	1.3	355.8	3.7	27	0.2	1.0	0.5	38	0.34	0.055
131016	Soil	1.1	21.2	11.0	46	0.2	14.8	5.5	161	2.09	38.8	0.9	4.1	4.2	23	0.2	1.2	0.6	40	0.25	0.039
REP 131016	QC	1.0	21.6	11.0	46	0.2	14.6	5.6	164	2.08	37.3	1.0	3.9	4.3	23	<0.1	1.1	0.6	40	0.25	0.037
Reference Materials																					
STD DS8	Standard	10.6	105.7	119.8	301	1.7	37.8	7.1	574	2.31	22.9	2.5	96.7	5.6	59	2.2	5.3	6.1	41	0.59	0.073
STD DS8	Standard	13.7	109.8	129.4	318	1.9	38.2	7.3	618	2.48	24.8	2.8	126.6	7.2	73	2.3	5.9	7.0	43	0.68	0.077
STD DS8	Standard	11.2	103.7	112.8	286	1.6	36.2	7.0	553	2.22	23.0	2.3	102.4	5.7	58	2.0	5.0	6.0	38	0.59	0.075
STD DS8	Standard	13.7	111.5	134.6	330	1.9	39.4	8.0	644	2.53	25.1	2.9	133.4	7.5	72	2.3	5.8	7.0	45	0.74	0.081
STD DS8	Standard	12.6	110.7	126.7	312	1.8	37.9	7.8	599	2.46	24.3	2.7	107.4	6.6	62	2.2	5.4	6.8	43	0.67	0.083
STD DS8	Standard	12.5	106.5	130.1	300	1.8	39.2	7.6	619	2.43	24.4	2.7	115.3	6.9	63	2.2	5.4	6.8	39	0.66	0.081
STD DS8	Standard	14.2	110.7	128.8	322	1.9	39.1	7.7	638	2.58	25.4	2.8	114.9	6.7	66	2.3	5.8	6.7	43	0.70	0.086
STD DS8	Standard	12.1	94.4	107.7	278	1.7	34.4	6.8	580	2.28	23.6	2.4	98.9	5.4	48	2.2	4.7	5.8	41	0.57	0.069
STD DS8	Standard	11.3	100.6	119.5	318	1.8	35.4	7.1	620	2.56	25.7	2.4	109.3	5.7	64	2.4	5.4	6.2	38	0.69	0.078
STD DS8	Standard	11.9	94.3	114.8	285	1.6	33.4	6.8	564	2.29	21.6	2.4	99.2	5.4	58	2.0	5.0	5.3	38	0.64	0.072
STD DS8	Standard	13.5	104.0	123.8	301	1.8	37.2	7.5	610	2.49	24.0	2.9	108.8	6.9	63	2.4	5.3	6.4	40	0.67	0.076
STD DS8	Standard	12.7	114.2	126.3	321	1.7	39.4	7.2	608	2.44	25.3	2.8	103.3	6.7	64	2.0	5.8	6.7	40	0.68	0.082
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

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Project: Bishop

Report Date: September 30, 2011

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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
146365	Soil	19	22	0.37	298	0.047	2	1.27	0.019	0.06	0.2	0.03	3.1	0.1	<0.05	4	<0.5	<0.2
REP 146365	QC	19	24	0.38	305	0.047	2	1.29	0.014	0.06	0.3	0.04	3.1	0.1	<0.05	4	<0.5	<0.2
146382	Soil	35	14	0.20	294	0.005	<1	0.84	0.007	0.08	0.1	0.01	3.5	0.1	<0.05	2	<0.5	<0.2
REP 146382	QC	35	14	0.20	295	0.005	<1	0.87	0.007	0.08	0.1	<0.01	3.7	0.1	<0.05	2	<0.5	<0.2
109815	Soil	23	21	0.30	333	0.034	<1	1.17	0.012	0.08	0.1	0.04	3.6	0.1	0.09	4	<0.5	<0.2
REP 109815	QC	23	21	0.31	329	0.035	<1	1.13	0.013	0.09	0.1	0.04	3.6	0.2	0.09	4	<0.5	<0.2
109819	Soil	17	26	0.41	317	0.047	<1	1.41	0.014	0.04	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 109819	QC	16	26	0.39	313	0.044	<1	1.37	0.014	0.04	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
131007	Soil	15	21	0.35	337	0.034	<1	1.27	0.011	0.04	0.3	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
REP 131007	QC	15	22	0.35	336	0.043	<1	1.29	0.011	0.04	0.3	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
131016	Soil	15	22	0.34	274	0.047	<1	1.39	0.011	0.05	0.1	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
REP 131016	QC	16	23	0.33	282	0.048	<1	1.39	0.011	0.05	0.2	0.04	2.8	0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	11	107	0.55	222	0.090	2	0.81	0.063	0.38	3.0	0.19	1.7	5.2	0.06	4	3.7	4.6
STD DS8	Standard	15	117	0.64	289	0.118	2	0.95	0.098	0.41	3.0	0.21	2.4	5.8	0.15	5	5.3	5.5
STD DS8	Standard	12	108	0.56	238	0.098	2	0.80	0.078	0.38	2.8	0.20	2.2	5.0	0.15	4	3.8	4.6
STD DS8	Standard	16	123	0.64	280	0.123	3	0.98	0.103	0.45	3.0	0.19	2.4	5.6	0.16	5	4.0	5.0
STD DS8	Standard	15	119	0.64	279	0.113	2	0.90	0.089	0.41	2.9	0.19	1.9	5.5	0.19	5	5.2	5.1
STD DS8	Standard	15	118	0.60	256	0.106	2	0.93	0.082	0.41	2.8	0.20	1.8	5.5	0.17	4	5.0	4.8
STD DS8	Standard	16	123	0.60	293	0.120	3	0.92	0.088	0.41	3.2	0.20	2.1	5.7	0.16	5	5.3	5.0
STD DS8	Standard	11	118	0.53	236	0.092	2	0.75	0.066	0.36	2.7	0.19	1.5	4.9	0.18	4	4.6	4.6
STD DS8	Standard	13	108	0.60	282	0.102	3	0.88	0.085	0.42	3.2	0.20	2.3	5.5	0.10	5	6.6	5.2
STD DS8	Standard	14	107	0.54	248	0.101	3	0.78	0.086	0.38	2.8	0.19	1.7	5.0	0.13	4	5.1	4.6
STD DS8	Standard	14	114	0.60	276	0.115	3	0.88	0.083	0.39	3.1	0.20	2.1	5.3	0.14	5	4.7	4.6
STD DS8	Standard	14	115	0.62	285	0.111	3	0.94	0.092	0.40	3.2	0.22	2.0	5.4	0.17	4	4.4	5.5
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



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Project: Bishop

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QUALITY CONTROL REPORT

WHI11001151.1

		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	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

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		1DX15	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
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: Breakaway Expl. Mgmt. Inc.
203 - 680 3rd Ave.
Val d'Or QC J9P 1S5 Canada

Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 10, 2011
Report Date: June 20, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000186D.1

CLIENT JOB INFORMATION

Project: DAWSON
Shipment ID: 2011-06-05
P.O. Number
Number of Samples: 260

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.

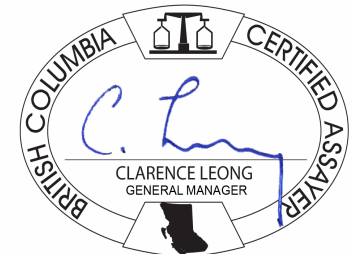
Invoice To: Breakaway Expl. Mgmt. Inc.
203 - 680 3rd Ave.
Val d'Or QC J9P 1S5
Canada

CC: Greg Davison

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **Breakaway Expl. Mgmt. Inc.**
 203 - 680 3rd Ave.
 Val d'Or QC J9P 1S5 Canada

Project: DAWSON
 Report Date: June 20, 2011

Page: 2 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000186D.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
104001	Soil	0.7	12.7	4.1	93	<0.1	8.6	10.1	567	4.70	2.8	1.8	8.1	8	<0.1	0.3	0.1	78	0.12	0.026	8
104002	Soil	0.3	11.3	4.0	77	<0.1	3.8	7.6	756	3.18	0.9	1.0	8.1	13	<0.1	0.2	0.1	34	0.26	0.062	9
104003	Soil	0.3	9.2	1.4	75	<0.1	3.8	17.4	730	4.29	0.9	2.1	4.1	10	<0.1	<0.1	<0.1	92	0.23	0.056	6
104004	Soil	0.9	53.4	3.0	134	<0.1	6.7	8.8	204	2.28	1.4	<0.5	1.3	77	0.3	0.2	<0.1	44	0.51	0.032	4
104005	Soil	0.2	36.7	1.1	28	<0.1	8.7	13.8	285	2.35	0.9	<0.5	0.7	32	<0.1	<0.1	<0.1	66	0.64	0.032	4
104006	Soil	0.4	10.3	1.9	68	<0.1	6.5	11.6	354	3.85	1.0	<0.5	2.8	23	<0.1	0.1	<0.1	62	0.39	0.059	6
104007	Soil	0.2	33.7	2.4	34	<0.1	13.7	11.5	226	2.85	1.6	1.1	1.3	45	<0.1	0.2	<0.1	61	0.68	0.025	5
104008	Soil	0.2	38.3	1.8	24	<0.1	5.1	6.9	179	1.86	1.9	0.7	0.8	20	<0.1	0.2	<0.1	47	0.52	0.034	3
104009	Soil	0.4	16.5	1.7	56	<0.1	6.7	10.7	379	3.69	2.3	1.0	3.8	74	<0.1	0.2	0.1	54	0.61	0.069	7
104010	Soil	0.2	6.9	1.3	11	<0.1	18.4	5.1	123	0.76	<0.5	0.9	1.7	11	<0.1	<0.1	<0.1	16	0.23	0.013	5
104011	Soil	0.2	42.5	0.8	26	<0.1	5.6	10.1	182	1.88	1.2	<0.5	1.0	18	<0.1	<0.1	<0.1	51	0.48	0.065	7
104012	Soil	0.4	14.8	2.0	47	<0.1	5.5	10.9	272	2.93	3.6	0.7	1.3	14	<0.1	0.1	0.1	49	0.55	0.115	2
104013	Soil	0.6	33.8	5.1	54	<0.1	12.9	12.5	313	3.48	5.2	<0.5	1.6	23	<0.1	0.4	<0.1	86	0.38	0.045	5
104014	Soil	0.5	15.4	5.0	60	<0.1	5.2	9.8	430	3.54	1.3	<0.5	4.8	43	<0.1	0.1	<0.1	62	0.45	0.050	16
104015	Soil	0.3	21.6	3.5	60	<0.1	5.0	10.3	465	3.80	1.3	<0.5	4.6	90	<0.1	0.1	<0.1	66	0.57	0.047	15
104016	Soil	0.4	32.8	4.5	23	0.1	7.0	6.4	197	1.33	1.9	<0.5	1.3	31	<0.1	0.2	<0.1	27	0.40	0.075	4
104017	Soil	0.5	61.2	1.6	40	<0.1	7.8	13.7	310	3.40	2.0	<0.5	2.4	13	<0.1	0.2	<0.1	98	0.53	0.085	9
104018	Soil	0.4	16.9	4.0	60	<0.1	14.5	13.1	366	2.60	2.3	0.6	1.5	16	<0.1	0.2	<0.1	69	0.36	0.046	5
104019	Soil	0.5	18.5	3.2	50	<0.1	8.4	11.1	531	3.06	2.2	0.8	3.3	29	<0.1	0.2	<0.1	76	0.53	0.056	10
104020	Soil	0.1	15.4	3.4	45	<0.1	13.3	15.4	508	3.27	1.3	1.0	2.3	44	<0.1	0.2	<0.1	82	1.00	0.053	10
104021	Soil	0.7	24.4	6.8	45	<0.1	19.3	8.9	347	2.48	7.9	4.9	3.9	30	<0.1	0.5	<0.1	53	0.50	0.075	14
104022	Soil	0.2	27.7	1.9	32	<0.1	6.8	9.6	272	2.45	2.4	<0.5	1.8	17	<0.1	<0.1	<0.1	55	0.51	0.100	3
104023	Soil	0.2	8.1	1.1	34	<0.1	7.0	10.2	316	2.09	0.9	1.6	1.2	27	<0.1	0.1	<0.1	49	0.64	0.071	6
104024	Soil	0.4	26.0	2.1	26	<0.1	11.3	10.9	217	1.84	1.5	<0.5	0.8	111	<0.1	0.1	<0.1	52	0.62	0.064	3
104025	Soil	0.2	14.5	1.0	36	<0.1	4.6	11.8	339	2.11	0.6	<0.5	1.3	26	<0.1	<0.1	<0.1	54	0.68	0.063	3
104026	Soil	0.6	24.0	7.6	49	<0.1	19.5	10.1	349	3.19	7.5	2.8	3.5	27	<0.1	0.5	0.2	66	0.50	0.048	13
104027	Soil	0.2	24.7	1.0	33	<0.1	4.1	11.1	283	2.63	1.2	<0.5	2.0	7	<0.1	<0.1	<0.1	46	0.55	0.153	6
104028	Soil	0.3	24.8	0.7	38	<0.1	4.2	10.1	242	2.30	0.7	<0.5	2.0	8	<0.1	<0.1	<0.1	50	0.58	0.085	8
104029	Soil	0.2	33.5	2.0	43	<0.1	6.7	11.2	249	2.70	2.9	<0.5	2.9	13	<0.1	0.2	<0.1	43	0.65	0.140	9
0102001	Soil	0.4	32.3	2.8	37	<0.1	8.9	8.9	228	2.81	2.7	<0.5	1.7	34	<0.1	0.2	<0.1	62	0.66	0.085	6

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 Val d'Or QC J9P 1S5 Canada

Project: DAWSON
Report Date: June 20, 2011

Page: 2 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000186D.1

Method	Analyte	1DX15															
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
104001	Soil	11	1.14	147	0.179	2	2.62	0.008	0.88	<0.1	<0.01	8.8	0.3	<0.05	13	<0.5	<0.2
104002	Soil	7	0.55	265	0.092	1	1.71	0.007	0.54	<0.1	<0.01	5.5	0.2	<0.05	7	<0.5	<0.2
104003	Soil	6	1.08	335	0.304	1	2.53	0.007	1.12	<0.1	<0.01	2.0	0.3	<0.05	8	<0.5	<0.2
104004	Soil	6	0.36	482	0.052	2	1.97	0.036	0.03	0.2	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
104005	Soil	18	0.93	212	0.091	<1	1.66	0.042	0.15	<0.1	<0.01	5.6	<0.1	<0.05	4	<0.5	<0.2
104006	Soil	13	0.76	347	0.150	<1	2.25	0.015	0.61	<0.1	<0.01	6.9	0.1	<0.05	8	0.6	<0.2
104007	Soil	15	1.02	112	0.082	1	2.10	0.034	0.04	<0.1	0.01	7.6	<0.1	<0.05	5	<0.5	<0.2
104008	Soil	7	0.48	83	0.040	2	1.64	0.044	0.03	<0.1	<0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
104009	Soil	13	0.77	276	0.051	2	2.10	0.036	0.26	<0.1	0.01	9.1	<0.1	<0.05	8	<0.5	<0.2
104010	Soil	113	0.53	41	0.034	1	0.67	0.013	0.02	<0.1	<0.01	3.0	<0.1	<0.05	2	<0.5	<0.2
104011	Soil	7	0.71	114	0.082	1	1.67	0.031	0.09	<0.1	0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
104012	Soil	6	0.83	253	0.145	2	2.23	0.029	0.32	<0.1	<0.01	4.6	0.2	<0.05	6	<0.5	<0.2
104013	Soil	18	0.72	183	0.087	1	2.43	0.023	0.10	<0.1	0.02	5.1	<0.1	<0.05	7	<0.5	<0.2
104014	Soil	11	0.89	329	0.098	<1	2.23	0.019	0.44	<0.1	0.01	6.7	0.1	<0.05	9	<0.5	<0.2
104015	Soil	13	0.97	411	0.102	2	2.60	0.031	0.41	<0.1	0.03	8.2	0.1	<0.05	10	<0.5	<0.2
104016	Soil	17	0.38	136	0.048	2	0.91	0.012	0.12	<0.1	0.02	2.0	<0.1	<0.05	4	0.6	<0.2
104017	Soil	12	0.74	152	0.123	1	1.61	0.034	0.31	<0.1	<0.01	6.6	<0.1	<0.05	5	<0.5	<0.2
104018	Soil	23	0.61	208	0.116	2	1.78	0.025	0.07	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
104019	Soil	19	0.82	198	0.119	2	1.77	0.033	0.24	<0.1	<0.01	6.9	<0.1	<0.05	7	<0.5	<0.2
104020	Soil	26	1.26	114	0.099	1	2.24	0.045	0.06	<0.1	0.01	8.8	<0.1	<0.05	8	<0.5	<0.2
104021	Soil	25	0.55	179	0.071	1	1.27	0.024	0.06	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
104022	Soil	12	0.75	260	0.119	<1	1.74	0.027	0.37	<0.1	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2
104023	Soil	39	0.96	151	0.078	<1	1.50	0.030	0.14	<0.1	<0.01	5.8	<0.1	<0.05	4	<0.5	<0.2
104024	Soil	66	0.72	289	0.068	1	1.48	0.025	0.14	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
104025	Soil	14	0.91	177	0.080	<1	1.44	0.044	0.22	<0.1	<0.01	5.4	0.1	<0.05	4	<0.5	<0.2
104026	Soil	41	0.68	236	0.056	2	1.90	0.017	0.05	0.1	0.03	6.4	<0.1	<0.05	6	<0.5	<0.2
104027	Soil	7	0.67	169	0.118	1	1.45	0.031	0.47	<0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
104028	Soil	6	0.65	246	0.111	1	1.31	0.039	0.35	<0.1	<0.01	6.0	0.1	<0.05	5	0.5	<0.2
104029	Soil	10	0.60	204	0.107	1	1.58	0.034	0.29	<0.1	<0.01	5.2	0.1	<0.05	5	<0.5	<0.2
0102001	Soil	15	0.77	171	0.064	1	1.73	0.039	0.07	<0.1	<0.01	6.1	<0.1	<0.05	6	<0.5	<0.2

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Project: DAWSON
 Report Date: June 20, 2011

Page: 3 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000186D.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
0102002	Soil	0.2	12.9	0.8	37	<0.1	4.6	11.6	367	2.71	1.0	2.2	1.7	27	<0.1	<0.1	<0.1	59	0.55	0.078	10
0102003	Soil	0.7	8.2	1.9	45	<0.1	6.0	13.4	309	3.02	1.9	1.0	2.0	16	<0.1	<0.1	<0.1	72	0.44	0.054	4
0102004	Soil	0.4	33.3	1.4	60	<0.1	5.7	14.9	611	4.92	0.7	<0.5	4.6	24	<0.1	<0.1	<0.1	101	0.54	0.095	15
0102005	Soil	0.2	3.2	1.3	20	<0.1	3.4	6.5	249	1.48	0.7	<0.5	1.7	36	<0.1	<0.1	<0.1	42	0.48	0.033	4
0102006	Soil	0.6	35.9	2.4	57	<0.1	8.7	14.3	402	4.22	1.9	0.8	2.2	15	<0.1	0.1	<0.1	63	0.55	0.097	7
0102007	Soil	0.3	10.5	2.2	25	<0.1	3.8	7.7	133	1.66	1.3	1.3	2.0	12	<0.1	0.1	<0.1	43	0.26	0.033	5
0102008	Soil	0.5	22.2	2.4	59	<0.1	6.8	16.7	407	3.98	1.5	1.4	2.6	12	<0.1	0.5	<0.1	81	0.38	0.067	12
0102009	Soil	0.4	82.5	2.8	109	<0.1	6.5	31.3	1150	6.28	<0.5	1.5	3.9	32	0.1	0.2	<0.1	78	0.84	0.119	18
0102010	Soil	0.4	16.4	3.4	110	<0.1	7.8	17.4	623	4.59	2.0	1.8	7.2	28	<0.1	0.2	<0.1	65	0.73	0.103	16
0102011	Soil	0.4	20.3	1.6	20	<0.1	13.4	10.6	227	1.17	1.0	0.8	2.3	8	<0.1	<0.1	<0.1	38	0.18	0.051	4
0102012	Soil	0.3	82.3	1.3	40	<0.1	4.6	12.4	326	2.50	<0.5	0.8	3.3	15	<0.1	<0.1	<0.1	48	0.44	0.108	5
0102013	Soil	0.5	5.8	3.2	96	<0.1	5.4	11.4	698	4.26	0.5	1.2	3.0	28	<0.1	<0.1	<0.1	53	0.43	0.135	9
0102014	Soil	0.2	51.9	1.0	25	<0.1	4.3	7.4	214	1.56	0.7	1.2	1.1	11	<0.1	<0.1	<0.1	38	0.44	0.078	5
0102015	Soil	0.3	41.7	1.3	23	<0.1	4.9	8.4	233	1.37	0.7	1.4	0.7	10	<0.1	<0.1	<0.1	38	0.41	0.071	4
0102016	Soil	0.2	31.3	1.8	26	<0.1	13.4	11.2	312	1.58	1.0	0.7	1.7	67	<0.1	<0.1	<0.1	36	0.58	0.026	7
0102017	Soil	0.4	35.8	2.1	41	<0.1	7.5	9.5	278	2.51	2.2	1.3	1.8	17	<0.1	0.1	<0.1	44	0.26	0.058	5
0102018	Soil	0.3	31.5	1.4	56	<0.1	2.8	10.7	321	2.86	1.1	1.0	2.7	43	<0.1	<0.1	<0.1	47	0.84	0.116	9
0102019	Soil	0.1	30.1	1.0	17	<0.1	6.1	6.7	255	1.08	<0.5	1.6	0.8	12	<0.1	<0.1	<0.1	35	0.43	0.055	4
0102020	Soil	0.2	12.0	1.0	39	<0.1	8.7	13.0	648	2.49	<0.5	0.9	2.1	22	<0.1	<0.1	<0.1	68	0.40	0.038	3
0102021	Soil	0.3	30.1	2.1	69	<0.1	8.9	16.8	481	3.37	1.4	1.6	2.8	12	<0.1	0.1	<0.1	95	0.49	0.077	7
0102022	Soil	0.4	13.9	5.8	54	<0.1	14.7	8.8	251	1.82	4.1	6.8	3.0	29	0.2	0.4	0.1	40	0.45	0.083	12
0102023	Soil	0.4	5.4	1.5	36	<0.1	2.8	14.4	291	2.61	1.1	0.9	2.0	42	<0.1	0.2	<0.1	86	0.54	0.080	5
0102024	Soil	1.6	67.5	1.1	43	<0.1	23.5	19.3	780	3.45	0.9	1.2	0.9	15	<0.1	0.3	<0.1	105	0.67	0.122	8
0102025	Soil	0.5	38.3	1.7	76	<0.1	15.5	26.6	647	4.78	1.3	1.3	1.5	18	<0.1	0.2	<0.1	169	0.66	0.104	10
0102026	Soil	1.2	39.1	3.1	65	<0.1	16.3	18.6	318	4.79	3.3	2.2	1.7	11	<0.1	0.3	<0.1	117	0.26	0.037	6
0102027	Soil	0.5	22.4	2.2	95	<0.1	3.7	16.8	581	4.38	0.8	2.3	2.4	22	<0.1	0.1	<0.1	59	0.55	0.141	12
0102028	Soil	1.1	7.9	2.2	36	<0.1	4.1	4.9	194	1.97	2.3	1.1	9.3	7	<0.1	0.4	<0.1	29	0.08	0.011	25
0102029	Soil	1.2	6.7	6.7	115	<0.1	11.6	13.1	836	5.07	4.1	1.2	8.3	16	0.1	0.5	<0.1	76	0.21	0.070	30
0102030	Soil	2.0	11.2	7.8	88	<0.1	7.5	11.4	467	4.83	2.9	1.7	9.5	19	0.2	0.3	0.5	82	0.27	0.056	19
0102031	Soil	1.5	9.3	6.9	84	<0.1	8.1	11.8	861	4.51	2.2	1.2	16.0	15	<0.1	0.3	<0.1	69	0.24	0.048	34

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Project: DAWSON
 Report Date: June 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0102002	Soil	15	0.84	263	0.097	<1	1.66	0.025	0.30	<0.1	<0.01	5.8	<0.1	<0.05	6	0.7	<0.2
0102003	Soil	10	0.88	314	0.130	<1	1.85	0.033	0.52	<0.1	0.02	5.4	0.1	<0.05	6	0.8	<0.2
0102004	Soil	12	1.37	658	0.189	<1	2.66	0.018	0.82	<0.1	<0.01	10.5	0.3	<0.05	10	0.6	<0.2
0102005	Soil	16	0.76	69	0.043	<1	1.15	0.014	0.03	<0.1	0.03	4.4	<0.1	<0.05	3	0.6	<0.2
0102006	Soil	14	0.93	211	0.143	<1	2.14	0.034	0.36	<0.1	<0.01	6.6	0.1	<0.05	8	<0.5	<0.2
0102007	Soil	9	0.52	113	0.070	1	1.25	0.021	0.09	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
0102008	Soil	17	1.07	79	0.061	<1	2.03	0.026	0.03	<0.1	<0.01	9.3	<0.1	<0.05	7	<0.5	<0.2
0102009	Soil	22	1.96	173	0.014	<1	2.87	0.016	0.14	<0.1	0.07	9.9	<0.1	<0.05	11	0.6	<0.2
0102010	Soil	14	1.20	179	0.020	<1	2.33	0.016	0.21	<0.1	0.02	7.2	<0.1	<0.05	10	<0.5	<0.2
0102011	Soil	191	0.67	141	0.077	<1	1.13	0.008	0.18	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
0102012	Soil	9	0.57	248	0.081	<1	1.35	0.024	0.34	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
0102013	Soil	13	1.08	417	0.201	<1	2.15	0.013	1.02	<0.1	<0.01	3.8	0.2	<0.05	8	0.6	<0.2
0102014	Soil	7	0.45	113	0.032	<1	1.07	0.030	0.03	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
0102015	Soil	7	0.43	101	0.034	<1	0.95	0.024	0.03	<0.1	<0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
0102016	Soil	87	0.95	215	0.047	<1	1.48	0.028	0.05	<0.1	<0.01	5.1	<0.1	<0.05	4	0.5	<0.2
0102017	Soil	9	0.49	317	0.127	<1	1.74	0.018	0.46	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
0102018	Soil	6	0.46	315	0.010	<1	2.00	0.045	0.08	<0.1	<0.01	5.1	<0.1	<0.05	6	0.6	<0.2
0102019	Soil	14	0.37	106	0.028	<1	0.69	0.026	0.02	<0.1	<0.01	3.6	<0.1	<0.05	2	<0.5	<0.2
0102020	Soil	6	0.85	391	0.083	<1	1.51	0.016	0.38	<0.1	<0.01	6.5	0.1	<0.05	5	<0.5	<0.2
0102021	Soil	14	1.38	262	0.185	<1	2.06	0.025	0.50	<0.1	<0.01	4.8	0.1	<0.05	7	0.6	<0.2
0102022	Soil	21	0.46	223	0.058	1	1.11	0.017	0.07	0.3	0.04	2.6	<0.1	0.07	3	<0.5	<0.2
0102023	Soil	7	0.96	378	0.132	<1	1.77	0.027	0.25	<0.1	<0.01	5.0	<0.1	<0.05	5	0.5	<0.2
0102024	Soil	53	0.74	221	0.040	<1	1.38	0.049	0.05	<0.1	0.02	8.5	<0.1	<0.05	6	<0.5	<0.2
0102025	Soil	42	2.00	275	0.093	<1	2.23	0.017	0.38	<0.1	0.01	13.1	0.1	<0.05	9	<0.5	<0.2
0102026	Soil	31	1.48	160	0.097	<1	2.43	0.022	0.14	<0.1	0.01	6.5	<0.1	<0.05	8	<0.5	<0.2
0102027	Soil	9	1.08	310	0.208	<1	1.78	0.026	0.62	<0.1	<0.01	6.3	0.2	<0.05	7	<0.5	<0.2
0102028	Soil	9	0.22	68	0.020	<1	0.90	0.029	0.03	<0.1	0.03	5.1	<0.1	<0.05	3	<0.5	<0.2
0102029	Soil	18	0.78	398	0.252	<1	2.88	0.011	0.81	<0.1	0.05	9.4	0.4	<0.05	13	<0.5	<0.2
0102030	Soil	13	0.98	311	0.181	<1	2.72	0.009	0.86	<0.1	0.02	6.8	0.3	<0.05	12	0.5	<0.2
0102031	Soil	17	0.92	290	0.256	<1	2.36	0.011	1.26	<0.1	0.04	10.6	0.7	<0.05	11	0.9	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
0102032	Soil		0.5	16.6	4.7	33	<0.1	24.7	13.4	272	2.18	1.2	1.1	0.4	12	<0.1	0.2	<0.1	63	0.36	0.037	2
0102033	Soil		0.9	17.4	2.2	95	<0.1	7.3	14.4	542	4.56	1.5	2.8	3.5	10	<0.1	0.1	<0.1	69	0.39	0.125	10
0102034	Soil		0.7	20.8	1.8	67	<0.1	6.8	16.8	610	3.73	1.0	1.6	2.2	18	<0.1	0.1	<0.1	103	0.51	0.081	14
0102035	Soil		0.8	29.6	3.5	80	<0.1	12.1	24.7	1106	5.24	2.4	3.1	1.7	39	<0.1	0.5	<0.1	104	0.84	0.063	8
0102036	Soil		0.5	11.1	1.8	69	<0.1	2.9	11.4	391	3.05	1.7	1.4	0.7	13	<0.1	0.1	<0.1	54	0.61	0.159	2
0102037	Soil		0.7	95.3	1.6	56	<0.1	6.4	12.4	525	3.60	0.9	2.0	1.8	17	<0.1	0.1	<0.1	67	0.32	0.056	3
0102038	Soil		0.8	9.5	1.6	104	<0.1	14.3	24.5	787	7.28	0.9	2.0	0.7	112	<0.1	0.2	<0.1	174	0.90	0.034	3
0102039	Soil		0.7	42.9	4.3	43	<0.1	10.2	13.4	261	2.85	4.8	2.6	2.4	23	<0.1	0.3	<0.1	72	0.28	0.036	7
0102040	Soil		0.3	36.6	1.1	24	<0.1	4.3	10.2	224	2.12	1.6	1.0	2.2	46	<0.1	0.1	<0.1	58	0.40	0.058	6
0102041	Soil		0.5	24.3	0.9	43	<0.1	3.8	12.4	384	2.69	0.6	1.2	1.0	26	<0.1	<0.1	<0.1	66	0.62	0.092	5
0102042	Soil		0.9	40.3	6.0	55	<0.1	11.1	16.0	482	4.37	1.7	8.1	1.9	69	<0.1	0.6	<0.1	92	0.71	0.035	10
0102043	Soil		0.3	11.5	1.3	33	<0.1	4.7	9.1	214	2.03	1.2	<0.5	0.9	9	<0.1	0.1	<0.1	52	0.36	0.054	3
0102044	Soil		0.5	40.9	3.5	50	<0.1	6.2	13.2	345	4.28	1.7	0.8	2.7	25	<0.1	0.2	<0.1	93	0.61	0.069	11
0102045	Soil		0.5	72.7	1.1	46	<0.1	4.3	20.4	299	3.51	<0.5	<0.5	1.8	12	<0.1	0.2	<0.1	79	0.33	0.068	7
0102046	Soil		0.7	63.2	0.6	39	<0.1	6.0	13.0	570	4.10	<0.5	2.9	1.7	20	<0.1	0.3	<0.1	109	0.51	0.073	8
0102047	Soil		0.7	64.1	2.1	55	<0.1	13.8	16.2	390	5.00	3.4	3.9	2.8	41	<0.1	0.4	<0.1	122	0.61	0.032	31
100001	Soil		0.2	43.9	1.2	45	<0.1	9.6	12.2	289	2.90	1.2	<0.5	4.0	12	<0.1	0.1	<0.1	70	0.37	0.089	12
100002	Soil		0.2	35.0	1.0	41	<0.1	5.1	9.3	224	2.41	<0.5	<0.5	1.0	18	<0.1	<0.1	<0.1	61	0.61	0.109	4
100003	Soil		0.1	24.9	1.4	50	<0.1	9.7	17.8	313	3.37	1.5	<0.5	3.5	42	<0.1	0.2	<0.1	80	0.72	0.035	8
100004	Soil		<0.1	23.3	0.8	16	<0.1	5.9	6.9	154	1.27	1.0	<0.5	1.1	68	<0.1	<0.1	<0.1	34	0.83	0.037	3
100005	Soil		0.2	20.8	2.0	40	<0.1	6.7	11.6	356	2.82	2.0	0.5	1.7	132	<0.1	0.1	<0.1	60	0.89	0.050	5
100006	Soil		0.6	44.8	2.5	48	<0.1	12.7	15.9	332	4.03	4.3	1.0	1.3	73	<0.1	0.2	<0.1	85	0.50	0.086	3
100007	Soil		0.2	35.6	1.5	28	<0.1	5.6	13.4	208	2.06	1.8	<0.5	1.5	106	<0.1	0.1	<0.1	52	0.66	0.044	5
100008	Soil		0.2	7.9	2.2	21	<0.1	5.1	6.2	148	1.43	2.4	<0.5	0.9	125	<0.1	0.2	<0.1	36	0.36	0.048	3
100009	Soil		0.8	25.1	5.6	51	<0.1	11.4	13.2	296	3.14	5.7	<0.5	2.1	45	<0.1	0.4	0.1	78	0.26	0.045	6
100010	Soil		0.8	18.7	6.8	58	<0.1	17.3	11.5	328	3.21	7.9	<0.5	2.4	18	<0.1	0.4	0.2	75	0.19	0.075	7
100011	Soil		0.6	23.5	4.9	31	<0.1	12.3	9.9	180	2.32	5.9	0.9	1.7	10	<0.1	0.5	0.1	58	0.20	0.051	6
100012	Soil		0.2	20.8	2.5	82	<0.1	7.9	22.8	1225	5.17	1.0	<0.5	2.4	36	<0.1	0.6	<0.1	71	0.97	0.064	14
100013	Soil		0.3	32.7	1.2	53	<0.1	9.3	13.8	574	3.90	0.7	<0.5	2.6	60	<0.1	<0.1	<0.1	45	0.49	0.072	10
100014	Soil		0.2	107.9	0.5	41	<0.1	4.2	9.7	208	3.20	<0.5	<0.5	1.9	41	<0.1	<0.1	<0.1	66	0.37	0.034	7

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0102032	Soil	80	0.80	114	0.046	<1	1.32	0.018	0.02	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
0102033	Soil	19	1.14	381	0.204	<1	2.05	0.020	0.98	<0.1	0.02	8.1	0.1	<0.05	9	0.8	<0.2
0102034	Soil	18	1.25	435	0.164	<1	2.17	0.020	0.62	<0.1	0.01	8.5	0.1	<0.05	7	0.8	<0.2
0102035	Soil	37	2.09	401	0.084	1	3.00	0.027	0.11	<0.1	0.05	13.0	<0.1	<0.05	10	0.6	<0.2
0102036	Soil	40	0.98	378	0.168	<1	2.00	0.024	0.52	<0.1	<0.01	3.9	0.1	<0.05	5	<0.5	<0.2
0102037	Soil	62	0.99	492	0.180	<1	2.18	0.016	0.59	<0.1	<0.01	4.8	0.2	<0.05	7	<0.5	<0.2
0102038	Soil	62	1.85	513	0.022	<1	3.52	0.030	0.07	<0.1	0.08	20.4	<0.1	<0.05	12	0.6	<0.2
0102039	Soil	20	0.80	266	0.117	<1	1.71	0.017	0.25	<0.1	<0.01	5.2	0.1	<0.05	5	<0.5	<0.2
0102040	Soil	8	0.59	289	0.070	<1	1.24	0.029	0.14	<0.1	<0.01	5.6	<0.1	<0.05	4	<0.5	<0.2
0102041	Soil	10	1.01	318	0.130	<1	1.61	0.037	0.26	<0.1	<0.01	7.2	<0.1	<0.05	5	<0.5	<0.2
0102042	Soil	16	0.88	333	0.024	<1	2.40	0.030	0.05	<0.1	0.11	13.8	<0.1	0.07	8	0.5	<0.2
0102043	Soil	9	0.62	152	0.119	<1	1.26	0.031	0.19	<0.1	<0.01	3.7	0.1	<0.05	4	<0.5	<0.2
0102044	Soil	16	0.88	192	0.129	<1	1.83	0.035	0.07	<0.1	0.02	8.0	<0.1	<0.05	7	<0.5	<0.2
0102045	Soil	8	1.03	307	0.176	<1	1.94	0.024	0.57	<0.1	<0.01	4.5	0.2	<0.05	6	<0.5	<0.2
0102046	Soil	9	0.69	174	0.038	<1	1.65	0.029	0.03	<0.1	<0.01	7.3	<0.1	<0.05	6	<0.5	<0.2
0102047	Soil	28	1.12	361	0.044	<1	2.82	0.024	0.06	<0.1	0.05	15.9	<0.1	<0.05	8	0.6	<0.2
100001	Soil	12	0.97	302	0.182	<1	1.77	0.026	0.58	<0.1	<0.01	4.9	0.2	<0.05	6	<0.5	<0.2
100002	Soil	9	0.77	306	0.124	<1	1.90	0.039	0.32	<0.1	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2
100003	Soil	22	1.44	110	0.152	<1	2.36	0.035	0.03	<0.1	0.01	4.7	<0.1	<0.05	8	<0.5	<0.2
100004	Soil	6	0.44	76	0.044	<1	2.31	0.147	0.02	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
100005	Soil	12	1.10	249	0.120	<1	2.47	0.050	0.11	<0.1	0.03	6.5	<0.1	<0.05	6	<0.5	<0.2
100006	Soil	20	0.90	233	0.135	<1	2.26	0.028	0.40	<0.1	<0.01	4.7	0.1	<0.05	9	<0.5	<0.2
100007	Soil	11	1.03	235	0.093	<1	2.57	0.063	0.09	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
100008	Soil	9	0.45	186	0.047	<1	1.14	0.028	0.07	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
100009	Soil	21	0.92	263	0.148	<1	2.54	0.018	0.33	0.1	<0.01	2.9	0.1	<0.05	7	<0.5	<0.2
100010	Soil	39	0.74	224	0.098	<1	2.06	0.017	0.06	<0.1	0.01	3.4	0.1	<0.05	7	<0.5	<0.2
100011	Soil	18	0.39	112	0.058	<1	1.56	0.020	0.04	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
100012	Soil	9	1.27	342	0.005	<1	2.81	0.013	0.11	<0.1	0.02	15.1	<0.1	<0.05	8	<0.5	<0.2
100013	Soil	10	0.68	452	0.060	<1	1.73	0.017	0.13	<0.1	<0.01	7.1	<0.1	<0.05	6	<0.5	<0.2
100014	Soil	7	0.74	258	0.035	<1	1.78	0.023	0.03	<0.1	0.01	8.3	<0.1	<0.05	5	<0.5	<0.2



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Project: DAWSON
 Report Date: June 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	1
100015	Soil	0.3	63.3	0.9	34	<0.1	26.1	16.4	233	3.33	1.2	0.8	1.7	18	<0.1	0.1	<0.1	72	0.43	0.035	6
100016	Soil	0.4	20.8	1.4	68	<0.1	6.1	14.7	458	3.86	1.5	<0.5	2.1	12	<0.1	0.1	<0.1	47	0.25	0.075	9
100017	Soil	0.5	59.4	3.3	72	<0.1	6.0	14.5	436	3.85	2.2	<0.5	3.7	23	<0.1	0.2	<0.1	62	0.25	0.068	10
100018	Soil	0.5	72.4	1.9	137	<0.1	6.1	13.1	751	4.98	2.1	<0.5	4.9	11	0.1	0.1	<0.1	94	0.23	0.081	17
100019	Soil	0.3	34.6	2.0	36	<0.1	11.9	19.1	247	3.24	1.7	0.6	0.5	15	0.1	0.1	<0.1	99	0.44	0.076	2
100020	Soil	0.4	12.5	2.1	80	<0.1	7.8	10.6	671	4.14	2.0	<0.5	5.5	13	<0.1	0.1	<0.1	56	0.26	0.067	18
100021	Soil	0.7	17.5	5.7	64	<0.1	12.5	10.9	460	3.69	5.3	1.5	4.8	25	<0.1	0.3	<0.1	63	0.32	0.045	21
100022	Soil	0.2	68.3	1.1	45	<0.1	8.6	16.3	417	3.55	0.5	<0.5	1.7	18	<0.1	0.1	<0.1	69	0.41	0.058	8
100023	Soil	0.8	23.0	5.3	58	<0.1	13.1	13.7	609	3.69	5.1	0.9	7.5	17	<0.1	0.3	0.1	57	0.24	0.048	21
100024	Soil	0.1	26.9	0.6	46	<0.1	10.0	11.6	253	2.94	<0.5	<0.5	1.3	19	<0.1	<0.1	<0.1	63	0.51	0.063	7
100025	Soil	0.8	13.7	5.1	81	<0.1	7.6	9.4	1032	3.98	5.5	<0.5	6.1	6	<0.1	0.3	<0.1	68	0.07	0.074	8
100026	Soil	0.1	53.2	0.6	42	<0.1	4.4	12.1	318	2.70	<0.5	<0.5	0.8	18	<0.1	<0.1	<0.1	82	0.41	0.061	2
100027	Soil	0.7	49.1	6.0	53	<0.1	15.3	12.6	279	3.41	6.1	2.0	3.8	56	<0.1	0.4	<0.1	75	0.29	0.030	20
0103001	Soil	0.1	17.2	0.9	46	<0.1	5.8	9.7	340	3.12	<0.5	1.5	2.2	21	<0.1	<0.1	<0.1	56	0.59	0.098	8
0103002	Soil	0.5	21.3	3.5	66	<0.1	8.9	10.2	302	3.13	4.5	<0.5	2.4	18	<0.1	0.3	<0.1	52	0.47	0.095	6
0103003	Soil	0.2	20.8	1.1	51	<0.1	4.6	9.4	299	2.78	1.0	2.0	2.1	12	<0.1	0.1	<0.1	51	0.62	0.135	10
0103004	Soil	0.5	20.1	1.2	53	<0.1	4.5	16.1	322	3.42	1.2	1.0	2.0	16	<0.1	0.1	<0.1	65	0.61	0.062	10
0103005	Soil	0.4	54.3	2.2	61	<0.1	6.7	18.0	326	3.31	1.3	1.5	2.1	50	<0.1	0.2	<0.1	104	0.47	0.043	8
0103006	Soil	0.3	27.3	2.0	40	<0.1	7.1	13.8	270	3.35	2.0	1.1	1.9	18	<0.1	0.2	<0.1	79	0.55	0.094	10
0103007	Soil	0.3	25.8	1.6	56	<0.1	5.4	14.2	330	3.18	2.6	<0.5	3.1	12	<0.1	0.1	<0.1	75	0.37	0.066	6
0103008	Soil	0.6	23.6	5.2	52	0.1	11.4	12.2	798	2.49	4.9	1.6	1.1	19	0.1	0.4	0.1	67	0.34	0.056	5
0103009	Soil	1.0	24.0	7.0	94	0.1	14.8	8.7	508	3.59	7.7	4.4	7.3	20	0.1	0.5	0.2	49	0.26	0.043	10
0103010	Soil	0.6	21.6	4.0	45	<0.1	12.9	9.8	250	3.46	5.5	0.7	4.8	70	<0.1	0.5	<0.1	61	0.46	0.037	8
0103011	Soil	0.5	27.1	2.7	46	<0.1	7.1	13.0	302	2.73	2.8	0.5	2.6	29	<0.1	0.2	<0.1	59	0.39	0.079	6
0103012	Soil	0.6	21.2	6.0	50	<0.1	14.6	10.5	770	2.62	5.8	0.8	2.4	24	<0.1	0.4	0.1	64	0.38	0.036	8
0103013	Soil	0.5	27.0	4.0	63	<0.1	9.9	15.9	647	4.61	1.6	1.8	5.3	22	<0.1	0.5	<0.1	114	0.66	0.038	24
0103014	Soil	0.7	25.6	4.2	77	<0.1	11.4	10.9	944	3.08	3.8	1.3	2.4	27	0.2	0.3	<0.1	63	0.49	0.071	7
0103015	Soil	0.4	27.0	2.2	52	<0.1	8.8	10.3	337	2.97	2.6	<0.5	1.8	17	<0.1	0.2	<0.1	68	0.47	0.072	6
0103016	Soil	0.7	18.5	6.0	50	<0.1	16.7	10.5	319	2.87	6.6	0.8	3.4	28	<0.1	0.5	0.1	63	0.33	0.049	10
0103017	Soil	1.6	21.5	15.9	103	<0.1	5.4	10.8	1057	5.15	3.5	1.6	6.2	61	0.1	0.3	0.2	107	0.77	0.202	44

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
100015	Soil	55	0.96	169	0.036	<1	1.90	0.027	0.03	<0.1	<0.01	6.1	<0.1	<0.05	5	<0.5	<0.2
100016	Soil	10	0.90	385	0.142	<1	2.49	0.012	0.60	<0.1	<0.01	5.2	0.2	<0.05	8	<0.5	<0.2
100017	Soil	11	0.80	372	0.131	<1	2.32	0.015	0.63	<0.1	<0.01	5.3	0.1	0.07	8	<0.5	<0.2
100018	Soil	10	1.54	559	0.276	<1	2.76	0.013	1.25	<0.1	<0.01	16.5	0.3	<0.05	11	<0.5	<0.2
100019	Soil	16	0.86	154	0.070	<1	1.76	0.027	0.04	<0.1	<0.01	5.2	<0.1	0.05	5	<0.5	<0.2
100020	Soil	15	0.81	179	0.181	<1	2.11	0.010	0.75	<0.1	<0.01	9.0	0.2	<0.05	9	<0.5	<0.2
100021	Soil	21	0.75	424	0.136	<1	2.02	0.014	0.38	<0.1	0.03	6.4	0.1	<0.05	7	<0.5	<0.2
100022	Soil	11	0.63	213	0.038	<1	1.29	0.021	0.05	<0.1	0.01	8.7	<0.1	<0.05	4	<0.5	<0.2
100023	Soil	22	0.65	409	0.124	<1	1.95	0.011	0.45	<0.1	0.01	7.2	0.1	<0.05	6	<0.5	<0.2
100024	Soil	35	0.52	285	0.017	<1	1.27	0.016	0.13	<0.1	0.01	8.4	<0.1	<0.05	4	<0.5	<0.2
100025	Soil	14	0.76	200	0.243	<1	2.09	0.011	0.90	<0.1	0.02	8.9	0.3	<0.05	10	<0.5	<0.2
100026	Soil	6	0.86	252	0.120	<1	1.73	0.028	0.37	<0.1	<0.01	5.5	0.1	<0.05	5	<0.5	<0.2
100027	Soil	23	0.65	311	0.077	<1	2.10	0.026	0.07	<0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
0103001	Soil	9	0.87	237	0.128	<1	1.61	0.026	0.26	<0.1	0.02	6.8	<0.1	<0.05	6	<0.5	<0.2
0103002	Soil	16	0.75	227	0.109	<1	2.20	0.033	0.23	<0.1	<0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
0103003	Soil	8	0.65	166	0.095	<1	1.22	0.036	0.27	<0.1	0.04	6.8	<0.1	0.12	5	<0.5	<0.2
0103004	Soil	8	0.84	195	0.138	<1	1.76	0.041	0.24	<0.1	<0.01	7.5	0.1	0.09	7	0.7	<0.2
0103005	Soil	7	0.86	541	0.151	<1	1.86	0.021	0.41	<0.1	0.03	5.4	0.1	0.08	6	0.5	<0.2
0103006	Soil	11	0.78	231	0.086	<1	1.82	0.032	0.12	<0.1	<0.01	7.5	<0.1	0.11	6	<0.5	<0.2
0103007	Soil	9	0.98	337	0.188	<1	2.11	0.023	0.69	<0.1	0.01	5.2	0.2	0.09	7	<0.5	<0.2
0103008	Soil	17	0.46	289	0.051	<1	1.48	0.020	0.09	<0.1	0.02	2.5	<0.1	0.12	5	<0.5	<0.2
0103009	Soil	19	0.61	368	0.095	<1	2.22	0.009	0.38	<0.1	0.02	3.9	0.1	0.07	7	<0.5	<0.2
0103010	Soil	27	0.69	385	0.071	<1	2.06	0.029	0.09	<0.1	0.01	5.8	<0.1	0.07	6	<0.5	<0.2
0103011	Soil	42	0.97	332	0.162	<1	1.98	0.018	0.40	<0.1	<0.01	3.7	0.2	0.08	6	<0.5	<0.2
0103012	Soil	28	0.54	315	0.053	<1	1.71	0.017	0.07	<0.1	0.02	3.7	<0.1	0.05	5	<0.5	<0.2
0103013	Soil	11	0.99	90	0.005	<1	2.46	0.006	0.04	<0.1	0.07	10.0	<0.1	0.06	10	0.6	<0.2
0103014	Soil	17	0.53	368	0.087	1	1.51	0.025	0.34	<0.1	<0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
0103015	Soil	12	0.50	206	0.068	<1	1.44	0.033	0.20	<0.1	0.01	7.1	<0.1	<0.05	5	<0.5	<0.2
0103016	Soil	41	0.66	382	0.091	<1	1.75	0.016	0.22	<0.1	0.02	5.1	<0.1	<0.05	5	0.6	<0.2
0103017	Soil	8	0.74	386	0.121	<1	2.01	0.018	0.10	<0.1	0.02	7.7	<0.1	<0.05	8	0.6	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
0103018	Soil		0.6	33.6	2.5	56	<0.1	13.3	14.2	384	4.53	2.7	2.2	2.5	182	<0.1	0.4	<0.1	101	0.76	0.083	16
0103019	Soil		0.7	31.1	8.0	62	<0.1	19.8	8.8	287	2.54	6.6	5.5	4.0	39	0.2	0.7	0.1	58	0.50	0.050	15
0103020	Soil		0.9	37.1	9.3	75	0.1	26.6	10.3	385	2.75	9.2	6.3	3.8	43	0.3	0.8	0.2	56	0.77	0.065	14
0103021	Soil		0.8	33.3	9.0	60	0.1	24.8	9.7	381	2.73	9.1	2.8	3.7	46	0.2	0.8	0.3	54	0.66	0.058	14
0103022	Soil		1.1	33.9	8.8	60	0.1	25.6	11.3	509	2.95	9.6	7.1	3.6	48	0.1	0.8	0.2	56	0.72	0.064	14
0103023	Soil		0.7	33.7	9.5	56	0.1	27.1	9.9	431	2.54	9.6	2.8	3.6	46	0.2	0.8	0.2	53	0.73	0.063	14
0103024	Soil		0.3	19.7	1.2	44	<0.1	7.7	12.7	249	3.29	2.4	<0.5	2.8	21	<0.1	0.2	<0.1	80	0.40	0.040	5
0103025	Soil		0.5	28.2	4.6	64	<0.1	12.5	10.0	373	3.46	5.6	3.2	3.5	22	<0.1	0.4	0.1	70	0.38	0.041	18
0103026	Soil		0.6	28.5	3.3	69	<0.1	14.2	15.6	552	3.76	2.8	<0.5	4.3	23	<0.1	0.2	<0.1	97	0.38	0.048	12
0103027	Soil		0.6	18.3	5.4	71	<0.1	12.3	12.7	297	3.15	4.9	0.8	3.2	43	<0.1	0.3	<0.1	83	0.38	0.038	6
0103028	Soil		1.0	65.6	6.9	94	<0.1	15.0	11.6	454	4.32	7.2	1.1	4.0	23	<0.1	0.4	0.1	57	0.31	0.050	10
0103029	Soil		0.3	3.7	1.5	47	<0.1	13.2	12.3	317	2.11	1.0	<0.5	2.7	20	<0.1	<0.1	<0.1	60	0.40	0.033	3
0103030	Soil		0.3	13.9	1.2	63	<0.1	5.0	17.7	533	3.72	1.4	0.6	3.3	13	<0.1	0.2	<0.1	123	0.38	0.042	9
0103031	Soil		0.7	31.0	5.8	43	<0.1	13.0	11.7	492	2.55	4.4	0.6	2.4	16	<0.1	0.3	<0.1	60	0.34	0.056	7
0103032	Soil		0.6	15.3	5.0	58	<0.1	12.1	8.5	715	2.94	4.9	<0.5	6.0	15	<0.1	0.4	<0.1	49	0.21	0.044	10
0103033	Soil		0.5	31.4	2.5	26	<0.1	10.0	9.3	187	2.00	2.6	0.6	1.6	17	<0.1	0.2	<0.1	52	0.49	0.050	5
0103034	Soil		0.6	30.5	2.7	102	<0.1	7.3	12.8	613	5.08	3.4	<0.5	2.8	15	<0.1	0.2	<0.1	86	0.32	0.079	5
0103035	Soil		0.2	37.6	1.1	54	<0.1	3.5	13.3	255	3.28	1.6	<0.5	2.1	22	<0.1	<0.1	<0.1	77	0.53	0.102	5
0103036	Soil		0.3	34.1	1.8	57	<0.1	6.9	13.6	269	3.57	2.3	<0.5	1.3	20	<0.1	0.2	<0.1	79	0.70	0.097	10
0103037	Soil		1.0	32.9	7.3	64	<0.1	24.6	9.9	312	2.68	8.0	4.2	4.2	34	0.2	0.7	0.1	55	0.50	0.080	14
0103038	Soil		0.6	22.7	6.5	53	<0.1	15.7	7.9	279	2.19	6.3	4.8	3.9	22	0.2	0.6	0.1	44	0.33	0.063	13
0103039	Soil		0.5	23.8	7.4	56	<0.1	17.3	7.8	244	2.35	6.3	6.5	3.8	23	0.2	0.6	0.1	42	0.35	0.061	14
0103040	Soil		0.3	22.3	3.9	68	<0.1	12.3	12.6	423	3.86	2.7	3.5	3.0	25	<0.1	0.3	<0.1	69	0.53	0.054	15
0103041	Soil		0.2	13.0	2.1	85	<0.1	7.4	11.1	551	4.29	2.1	2.9	4.0	20	<0.1	0.2	<0.1	51	0.42	0.064	20
0103042	Soil		0.5	13.5	1.6	116	<0.1	6.9	21.2	1008	6.81	2.2	3.3	2.3	29	<0.1	0.2	<0.1	114	0.19	0.045	5
0103043	Soil		0.6	22.9	5.6	67	<0.1	11.5	11.4	398	3.89	5.2	1.0	5.2	19	<0.1	0.4	<0.1	47	0.29	0.043	14
0103044	Soil		0.4	12.8	2.2	73	<0.1	7.2	11.9	342	4.40	2.6	0.6	1.5	12	<0.1	0.2	<0.1	79	0.41	0.111	3
0103045	Soil		0.4	76.8	0.7	38	<0.1	10.1	16.8	370	3.70	1.5	2.4	1.2	30	<0.1	0.1	<0.1	108	0.75	0.060	6
0103046	Soil		0.3	44.0	2.2	31	<0.1	12.6	10.6	304	2.39	2.9	1.7	1.9	39	<0.1	0.2	<0.1	58	0.43	0.028	14
0103047	Soil		0.4	40.2	3.5	42	<0.1	10.5	10.8	259	3.23	3.6	<0.5	1.8	28	<0.1	0.2	0.1	62	0.29	0.018	4

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Project: DAWSON
 Report Date: June 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0103018	Soil	20	0.84	562	0.055	<1	2.54	0.031	0.04	<0.1	0.03	11.1	<0.1	0.07	9	<0.5	<0.2
0103019	Soil	26	0.49	352	0.091	<1	1.58	0.030	0.08	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
0103020	Soil	26	0.60	402	0.085	<1	1.73	0.030	0.09	0.1	0.04	4.2	<0.1	0.09	5	0.5	<0.2
0103021	Soil	25	0.56	381	0.069	<1	1.69	0.024	0.06	0.2	0.05	4.1	<0.1	0.09	5	0.8	<0.2
0103022	Soil	27	0.54	340	0.076	1	1.61	0.021	0.07	0.2	0.04	4.2	<0.1	0.11	5	<0.5	<0.2
0103023	Soil	27	0.52	380	0.072	1	1.60	0.021	0.06	0.1	0.03	3.8	<0.1	0.10	4	0.6	<0.2
0103024	Soil	10	0.72	245	0.073	<1	1.86	0.027	0.33	<0.1	<0.01	7.2	<0.1	<0.05	6	<0.5	<0.2
0103025	Soil	19	0.89	242	0.128	<1	1.78	0.023	0.26	<0.1	0.03	8.4	0.1	0.05	7	<0.5	<0.2
0103026	Soil	30	1.34	404	0.217	<1	2.49	0.015	0.81	<0.1	<0.01	6.3	0.2	<0.05	8	<0.5	<0.2
0103027	Soil	18	1.15	403	0.153	<1	2.58	0.016	0.45	<0.1	<0.01	4.1	0.2	<0.05	7	<0.5	<0.2
0103028	Soil	23	0.97	477	0.134	<1	2.42	0.009	0.66	<0.1	<0.01	3.6	0.2	<0.05	8	<0.5	<0.2
0103029	Soil	58	0.95	307	0.099	<1	1.61	0.020	0.35	<0.1	<0.01	4.3	0.1	<0.05	5	<0.5	<0.2
0103030	Soil	6	1.42	440	0.268	<1	2.41	0.022	1.03	<0.1	<0.01	4.1	0.3	<0.05	6	<0.5	<0.2
0103031	Soil	22	0.57	246	0.074	1	1.55	0.023	0.13	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
0103032	Soil	18	0.59	303	0.113	<1	1.80	0.009	0.48	<0.1	0.02	6.7	0.2	<0.05	7	<0.5	<0.2
0103033	Soil	20	0.72	97	0.052	<1	1.40	0.029	0.04	<0.1	<0.01	5.1	<0.1	<0.05	4	<0.5	<0.2
0103034	Soil	14	1.26	558	0.291	<1	2.69	0.014	1.28	<0.1	<0.01	5.0	0.2	<0.05	9	<0.5	<0.2
0103035	Soil	7	1.15	255	0.146	<1	2.04	0.030	0.51	<0.1	<0.01	5.8	0.1	0.07	7	<0.5	<0.2
0103036	Soil	10	0.90	255	0.148	<1	1.93	0.042	0.25	<0.1	0.01	6.6	<0.1	0.08	6	<0.5	<0.2
0103037	Soil	28	0.57	302	0.073	<1	1.43	0.025	0.10	0.2	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
0103038	Soil	22	0.43	241	0.068	<1	1.25	0.014	0.07	0.1	0.04	3.9	<0.1	0.15	4	<0.5	<0.2
0103039	Soil	22	0.42	246	0.059	<1	1.28	0.014	0.06	0.1	0.03	3.7	<0.1	0.12	4	<0.5	<0.2
0103040	Soil	20	0.73	247	0.100	<1	1.89	0.022	0.29	<0.1	0.05	6.4	<0.1	0.08	7	<0.5	<0.2
0103041	Soil	12	0.81	331	0.137	<1	2.14	0.009	0.55	<0.1	0.04	3.3	0.1	<0.05	9	<0.5	<0.2
0103042	Soil	17	2.04	615	0.380	<1	3.82	0.011	1.71	<0.1	0.01	4.5	0.5	<0.05	12	<0.5	<0.2
0103043	Soil	20	0.83	168	0.027	<1	1.92	0.008	0.03	<0.1	0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
0103044	Soil	13	1.16	378	0.218	<1	2.54	0.016	0.70	<0.1	0.02	4.2	0.2	<0.05	9	<0.5	<0.2
0103045	Soil	14	0.66	124	0.028	<1	1.75	0.046	0.03	<0.1	0.02	11.2	<0.1	<0.05	6	<0.5	<0.2
0103046	Soil	26	0.65	217	0.056	<1	1.67	0.027	0.03	<0.1	<0.01	6.0	<0.1	<0.05	4	<0.5	<0.2
0103047	Soil	16	0.74	199	0.083	<1	2.27	0.020	0.05	<0.1	0.06	3.6	<0.1	<0.05	6	<0.5	0.2

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Project: DAWSON
 Report Date: June 20, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
0103048	Soil		0.4	27.7	2.0	39	<0.1	11.5	9.8	244	2.62	2.8	2.2	1.3	39	<0.1	0.2	<0.1	56	0.49	0.029	2
0103049	Soil		0.7	21.5	4.8	42	<0.1	10.1	9.1	276	2.70	5.2	2.2	2.1	21	<0.1	0.3	<0.1	61	0.37	0.042	5
0103050	Soil		0.5	25.9	4.7	41	0.1	13.7	8.7	304	2.43	5.4	3.7	2.3	31	<0.1	0.4	<0.1	57	0.43	0.048	9
0103051	Soil		0.5	31.8	2.6	75	<0.1	15.4	14.5	754	4.68	4.4	4.9	3.2	61	<0.1	0.4	<0.1	83	0.61	0.062	11
0103052	Soil		0.7	27.8	3.3	58	<0.1	13.1	13.7	385	4.08	5.4	1.0	2.0	42	<0.1	0.2	<0.1	114	0.61	0.051	7
0103053	Soil		0.6	12.1	3.4	84	<0.1	11.0	12.7	672	4.86	3.7	2.4	2.2	21	<0.1	0.2	<0.1	81	0.25	0.051	6
0103054	Soil		0.6	13.2	3.3	68	<0.1	9.9	11.8	385	4.25	4.5	3.7	3.2	18	<0.1	0.3	<0.1	79	0.30	0.058	8
0103055	Soil		0.3	13.6	0.7	65	<0.1	3.6	10.0	412	3.89	<0.5	2.5	3.1	29	<0.1	<0.1	<0.1	63	0.58	0.137	15
0103056	Soil		0.8	52.4	2.9	92	<0.1	10.4	13.4	820	5.21	2.9	2.3	4.2	16	0.1	0.3	<0.1	81	0.41	0.099	11
0103057	Soil		0.7	17.7	6.7	52	<0.1	17.1	9.1	223	3.24	7.7	3.2	3.2	17	<0.1	0.4	0.1	65	0.25	0.051	7
0103058	Soil		0.3	10.2	3.0	91	<0.1	15.8	21.3	406	4.01	2.9	5.1	4.0	15	<0.1	0.2	<0.1	80	0.48	0.069	9
0103059	Soil		1.1	25.4	8.1	53	<0.1	21.0	9.8	340	3.07	8.4	6.6	4.1	16	<0.1	0.5	0.1	58	0.21	0.032	16
0107001	Soil		0.2	85.1	2.1	42	<0.1	4.7	17.4	297	3.62	1.4	2.5	1.9	46	<0.1	0.2	<0.1	103	0.62	0.035	5
0107002	Soil		0.2	83.0	2.0	41	<0.1	5.7	21.5	404	3.58	0.6	2.2	1.3	21	<0.1	<0.1	<0.1	88	0.43	0.083	4
0107003	Soil		0.8	19.9	6.5	41	<0.1	13.4	10.9	202	2.84	4.2	5.4	3.4	18	<0.1	0.2	<0.1	69	0.26	0.029	13
0107004	Soil		0.5	9.3	3.3	26	<0.1	9.0	8.4	131	1.71	3.8	1.3	1.2	13	<0.1	0.2	<0.1	40	0.20	0.018	3
0107005	Soil		0.3	33.8	1.9	27	<0.1	7.0	12.3	258	2.11	0.8	2.6	1.3	23	<0.1	<0.1	<0.1	58	0.37	0.068	5
0107006	Soil		0.2	41.5	1.7	55	<0.1	15.2	23.2	702	3.99	0.6	0.9	1.4	95	0.1	<0.1	<0.1	74	0.54	0.182	3
0107007	Soil		1.1	101.0	1.7	53	<0.1	6.1	30.5	751	5.74	2.1	2.1	1.8	13	<0.1	0.2	<0.1	124	0.34	0.102	3
0107008	Soil		0.5	26.5	3.9	54	<0.1	11.5	13.8	327	3.42	3.5	0.5	1.9	19	<0.1	0.2	<0.1	59	0.32	0.062	7
0107009	Soil		0.2	15.4	1.1	42	<0.1	4.4	13.6	297	3.10	0.6	4.2	1.1	15	<0.1	<0.1	<0.1	77	0.41	0.052	3
0107010	Soil		0.1	2.8	0.7	18	<0.1	5.0	6.5	143	1.23	<0.5	2.6	1.8	16	<0.1	<0.1	<0.1	26	0.29	0.040	7
0107011	Soil		0.2	26.1	3.1	69	<0.1	7.4	11.9	378	4.38	<0.5	2.0	1.7	30	<0.1	<0.1	<0.1	58	0.66	0.089	8
0107012	Soil		0.2	17.9	1.4	23	<0.1	9.2	10.6	145	1.67	<0.5	1.3	1.0	38	<0.1	<0.1	<0.1	37	0.38	0.038	3
0107013	Soil		0.2	16.4	2.5	45	<0.1	6.2	11.6	259	3.10	1.3	3.0	1.4	32	<0.1	<0.1	<0.1	56	0.59	0.072	6
0107014	Soil		0.4	22.7	2.8	37	<0.1	11.3	9.4	321	2.26	1.5	1.1	1.7	21	<0.1	0.1	<0.1	47	0.54	0.079	4
0107015	Soil		0.2	20.2	3.4	71	<0.1	11.4	18.1	721	3.88	1.1	1.2	1.8	35	0.1	0.2	<0.1	63	0.97	0.073	9
0107016	Soil		0.3	15.7	2.7	31	<0.1	9.1	8.8	222	2.20	2.6	<0.5	2.1	16	<0.1	0.2	<0.1	44	0.43	0.068	6
0107017	Soil		0.2	55.0	0.8	79	<0.1	16.5	22.1	449	5.33	<0.5	<0.5	2.5	29	<0.1	<0.1	<0.1	141	0.77	0.072	12
0107018	Soil		0.5	18.5	2.7	52	<0.1	5.7	7.8	275	2.84	1.1	<0.5	1.4	11	<0.1	<0.1	<0.1	50	0.46	0.096	4

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0103048	Soil	16	0.75	148	0.031	<1	2.25	0.029	0.03	<0.1	0.05	4.6	<0.1	<0.05	5	<0.5	<0.2
0103049	Soil	15	0.50	153	0.061	<1	1.88	0.019	0.09	<0.1	0.05	3.5	<0.1	<0.05	6	<0.5	<0.2
0103050	Soil	22	0.51	165	0.061	<1	1.72	0.020	0.06	<0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
0103051	Soil	32	0.85	328	0.089	<1	2.34	0.025	0.35	<0.1	0.11	9.2	<0.1	<0.05	9	<0.5	<0.2
0103052	Soil	21	0.75	266	0.061	<1	2.33	0.020	0.24	<0.1	0.03	9.8	<0.1	0.06	7	<0.5	<0.2
0103053	Soil	16	1.13	423	0.274	<1	2.49	0.010	1.14	<0.1	0.01	4.1	0.3	<0.05	9	<0.5	<0.2
0103054	Soil	19	1.13	355	0.222	<1	2.47	0.018	0.80	<0.1	0.02	6.2	0.2	<0.05	8	<0.5	<0.2
0103055	Soil	6	0.99	263	0.123	<1	2.02	0.028	0.69	<0.1	0.05	9.4	0.1	<0.05	8	<0.5	<0.2
0103056	Soil	17	1.05	286	0.162	<1	2.44	0.021	0.69	<0.1	0.03	12.2	0.2	<0.05	11	<0.5	<0.2
0103057	Soil	27	0.53	236	0.078	<1	2.03	0.012	0.11	0.1	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
0103058	Soil	29	1.71	121	0.111	<1	2.28	0.024	0.06	<0.1	0.02	4.5	<0.1	<0.05	8	<0.5	<0.2
0103059	Soil	37	0.55	170	0.079	<1	1.74	0.014	0.09	<0.1	0.03	6.6	<0.1	<0.05	5	0.5	<0.2
0107001	Soil	5	1.13	187	0.164	<1	2.47	0.032	0.06	<0.1	0.01	7.0	<0.1	<0.05	8	<0.5	<0.2
0107002	Soil	14	1.28	312	0.207	<1	2.21	0.016	0.76	<0.1	<0.01	3.5	0.3	<0.05	6	<0.5	<0.2
0107003	Soil	21	0.72	171	0.097	<1	1.67	0.013	0.09	<0.1	<0.01	3.9	0.1	<0.05	5	<0.5	<0.2
0107004	Soil	14	0.62	149	0.066	<1	1.48	0.013	0.05	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
0107005	Soil	11	0.70	219	0.072	<1	1.14	0.014	0.23	<0.1	0.02	4.6	0.2	0.08	4	<0.5	<0.2
0107006	Soil	55	1.69	1176	0.239	<1	2.91	0.014	0.94	<0.1	<0.01	3.2	0.4	<0.05	8	<0.5	<0.2
0107007	Soil	9	1.72	338	0.248	<1	2.83	0.010	0.99	<0.1	<0.01	4.2	0.5	<0.05	8	<0.5	<0.2
0107008	Soil	31	0.81	248	0.086	<1	1.83	0.011	0.18	<0.1	0.02	4.3	0.2	<0.05	6	<0.5	<0.2
0107009	Soil	9	1.27	144	0.126	<1	1.62	0.010	0.44	<0.1	0.02	6.5	0.2	<0.05	5	<0.5	<0.2
0107010	Soil	25	0.67	116	0.016	<1	0.84	0.010	0.03	<0.1	<0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
0107011	Soil	16	1.77	160	0.019	<1	2.38	0.009	0.18	<0.1	0.01	10.8	<0.1	<0.05	10	<0.5	<0.2
0107012	Soil	18	1.08	258	0.019	<1	1.20	0.011	0.05	<0.1	<0.01	4.7	<0.1	<0.05	4	<0.5	<0.2
0107013	Soil	15	1.38	208	0.029	<1	2.10	0.018	0.10	<0.1	0.02	8.7	<0.1	<0.05	7	<0.5	<0.2
0107014	Soil	99	1.04	173	0.046	2	1.75	0.020	0.11	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
0107015	Soil	44	1.32	134	0.007	2	2.57	0.012	0.06	<0.1	0.02	10.6	<0.1	<0.05	8	<0.5	<0.2
0107016	Soil	74	0.88	106	0.044	1	1.38	0.014	0.06	<0.1	<0.01	4.7	<0.1	<0.05	4	<0.5	<0.2
0107017	Soil	34	2.12	194	0.046	<1	2.96	0.011	0.18	<0.1	<0.01	11.6	0.1	<0.05	11	0.5	<0.2
0107018	Soil	13	1.14	138	0.153	1	1.76	0.018	0.35	<0.1	<0.01	2.9	0.1	<0.05	7	<0.5	<0.2



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Project: DAWSON
 Report Date: June 20, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
0107019	Soil		0.2	13.8	1.2	53	<0.1	4.0	11.1	249	3.24	<0.5	0.5	1.7	53	<0.1	<0.1	<0.1	53	0.60	0.115	8
0107020	Soil		0.2	22.3	0.9	67	<0.1	4.4	13.4	287	3.43	<0.5	<0.5	1.9	27	<0.1	<0.1	<0.1	65	0.69	0.131	6
0107021	Soil		0.3	23.1	1.3	38	<0.1	3.5	9.3	219	2.67	0.5	<0.5	1.3	19	<0.1	<0.1	<0.1	46	0.54	0.124	5
0107022	Soil		0.4	22.7	1.2	49	<0.1	6.8	12.9	229	2.63	1.1	<0.5	1.6	13	<0.1	<0.1	<0.1	51	0.50	0.105	4
0107023	Soil		0.8	39.1	5.1	72	<0.1	9.6	15.8	287	5.02	4.9	0.9	2.4	22	<0.1	0.7	<0.1	83	0.43	0.105	7
0107024	Soil		0.2	25.9	1.1	40	<0.1	2.8	8.1	253	2.36	<0.5	<0.5	0.9	45	<0.1	<0.1	<0.1	35	0.72	0.153	3
0107025	Soil		0.8	19.4	7.4	48	<0.1	18.4	10.0	276	2.77	7.9	1.4	3.4	31	<0.1	0.5	0.2	50	0.40	0.060	10
0107026	Soil		0.3	28.2	3.0	86	<0.1	10.0	14.5	434	4.26	2.2	1.2	1.5	96	<0.1	0.2	<0.1	54	0.97	0.107	4
0107027	Soil		0.1	15.5	1.3	35	<0.1	2.1	9.7	228	1.99	<0.5	<0.5	1.1	16	<0.1	<0.1	<0.1	44	0.47	0.073	3
0107028	Soil		0.2	38.3	0.8	23	<0.1	4.8	9.4	212	1.56	0.8	<0.5	1.7	10	<0.1	<0.1	<0.1	32	0.43	0.095	7
0107029	Soil		0.2	63.8	2.0	31	<0.1	5.0	9.5	503	3.44	2.0	<0.5	3.0	11	<0.1	0.3	<0.1	67	0.40	0.088	4
0107030	Soil		0.3	31.3	2.1	31	<0.1	5.3	10.9	335	2.24	0.8	<0.5	1.2	29	<0.1	<0.1	<0.1	57	0.44	0.064	4
0107031	Soil		0.7	19.3	8.8	47	<0.1	16.8	9.4	314	2.55	6.1	1.7	3.2	24	<0.1	0.4	<0.1	56	0.36	0.052	9
0107032	Soil		0.7	20.9	5.6	38	<0.1	15.1	9.0	207	2.24	6.0	<0.5	3.1	24	<0.1	0.3	<0.1	57	0.37	0.046	7
0107033	Soil		0.7	17.4	9.9	36	<0.1	17.1	10.4	207	2.30	6.6	0.9	1.8	31	0.1	0.3	<0.1	49	0.58	0.037	5
0107034	Soil		0.7	33.6	9.8	38	<0.1	19.6	9.6	265	2.50	6.7	4.1	2.9	35	0.3	0.5	<0.1	56	0.53	0.046	11
0107035	Soil		0.4	36.9	3.9	55	<0.1	13.1	9.8	311	2.58	3.2	<0.5	1.7	24	<0.1	0.2	<0.1	58	0.54	0.054	5
0116001	Soil		0.6	20.6	6.8	43	<0.1	16.1	9.5	231	2.79	7.6	1.8	3.5	23	<0.1	0.4	<0.1	64	0.25	0.020	11
0116002	Soil		1.4	83.0	3.1	240	<0.1	25.8	29.9	956	5.90	1.5	<0.5	2.9	32	0.1	0.2	<0.1	134	0.56	0.049	18
0116003	Soil		0.7	11.9	15.4	60	<0.1	8.0	5.5	371	2.87	3.4	1.2	5.5	16	0.7	0.3	<0.1	29	0.18	0.015	16
0116004	Soil		1.0	14.8	8.3	60	<0.1	14.1	8.7	313	3.20	6.8	0.6	6.3	24	<0.1	0.5	0.2	55	0.27	0.024	22
0116005	Soil		0.7	8.1	5.6	48	<0.1	10.6	7.0	257	2.07	1.1	0.7	3.4	19	<0.1	0.1	0.9	15	0.28	0.015	15
0116006	Soil		1.1	40.4	11.4	64	<0.1	19.6	9.5	421	3.43	4.1	1.6	6.9	27	0.3	0.3	0.2	60	0.36	0.021	23
0116007	Soil		1.0	16.4	10.4	59	<0.1	15.4	8.3	290	2.73	6.0	1.5	4.9	20	0.2	0.4	0.1	52	0.26	0.029	15
0116008	Soil		1.0	22.3	8.3	74	<0.1	18.8	14.9	471	4.27	5.2	12.9	4.7	34	<0.1	0.3	<0.1	82	0.40	0.035	18
0116009	Soil		1.1	18.6	8.4	61	<0.1	17.7	9.6	309	3.06	6.5	2.2	4.7	23	<0.1	0.4	0.1	56	0.29	0.026	16
0116010	Soil		0.8	10.4	8.5	64	<0.1	11.2	9.5	451	3.14	4.0	9.6	5.0	20	<0.1	0.2	<0.1	44	0.30	0.046	14
0116011	Soil		1.2	25.9	6.3	61	<0.1	18.0	10.1	359	3.20	3.2	2.4	4.4	34	<0.1	0.3	<0.1	66	0.47	0.046	23
0116012	Soil		1.5	19.0	7.9	57	<0.1	19.7	8.5	388	2.54	3.8	3.9	5.8	24	<0.1	0.3	<0.1	49	0.33	0.041	19
0116013	Soil		0.8	17.3	6.6	53	<0.1	14.7	7.0	229	2.63	4.7	1.1	3.2	25	<0.1	0.3	0.1	50	0.32	0.040	14

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.



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Project: DAWSON
 Report Date: June 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0107019	Soil	10	1.06	318	0.098	2	1.99	0.027	0.25	<0.1	<0.01	6.2	0.1	<0.05	6	<0.5	<0.2
0107020	Soil	10	1.21	306	0.098	1	2.02	0.024	0.23	<0.1	<0.01	9.0	<0.1	<0.05	7	<0.5	<0.2
0107021	Soil	15	0.74	221	0.095	<1	1.56	0.023	0.25	<0.1	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2
0107022	Soil	19	0.68	157	0.085	<1	1.68	0.029	0.17	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
0107023	Soil	19	1.10	348	0.196	<1	2.83	0.021	0.46	<0.1	0.01	7.6	0.1	<0.05	10	<0.5	<0.2
0107024	Soil	11	0.71	207	0.076	1	1.45	0.025	0.17	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
0107025	Soil	32	0.60	218	0.071	2	1.61	0.017	0.05	0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
0107026	Soil	23	1.31	419	0.060	1	2.72	0.039	0.09	<0.1	0.01	6.7	<0.1	<0.05	9	<0.5	<0.2
0107027	Soil	6	0.81	171	0.100	1	1.30	0.020	0.35	<0.1	<0.01	4.2	0.1	<0.05	4	<0.5	<0.2
0107028	Soil	76	0.63	69	0.076	<1	0.85	0.025	0.08	<0.1	<0.01	3.9	<0.1	<0.05	3	<0.5	<0.2
0107029	Soil	15	1.05	153	0.236	1	2.05	0.017	0.61	<0.1	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2
0107030	Soil	24	0.94	194	0.155	<1	1.77	0.015	0.33	<0.1	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
0107031	Soil	28	0.70	202	0.108	2	1.83	0.020	0.17	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
0107032	Soil	39	0.68	137	0.083	1	1.56	0.022	0.09	0.2	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
0107033	Soil	49	0.67	163	0.060	2	1.91	0.026	0.06	<0.1	<0.01	5.3	<0.1	<0.05	5	<0.5	<0.2
0107034	Soil	36	0.70	113	0.075	2	1.70	0.035	0.06	0.1	0.01	6.2	<0.1	<0.05	5	<0.5	<0.2
0107035	Soil	23	0.59	159	0.084	<1	1.79	0.029	0.09	<0.1	0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
0116001	Soil	29	0.52	238	0.078	1	1.83	0.018	0.05	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
0116002	Soil	56	1.95	391	0.258	<1	3.49	0.016	0.76	<0.1	<0.01	7.5	0.3	<0.05	10	<0.5	<0.2
0116003	Soil	16	0.47	147	0.091	1	2.18	0.017	0.28	<0.1	0.01	5.6	0.2	<0.05	7	<0.5	<0.2
0116004	Soil	28	0.62	206	0.075	1	1.95	0.011	0.10	<0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
0116005	Soil	12	0.57	149	0.059	<1	2.68	0.011	0.34	<0.1	<0.01	1.8	0.3	<0.05	5	<0.5	<0.2
0116006	Soil	29	0.72	303	0.126	<1	2.31	0.018	0.31	<0.1	0.01	8.9	0.2	<0.05	7	0.7	<0.2
0116007	Soil	28	0.50	220	0.108	1	1.90	0.015	0.16	0.1	<0.01	3.8	0.1	<0.05	6	<0.5	<0.2
0116008	Soil	37	0.93	307	0.129	1	2.74	0.019	0.30	<0.1	<0.01	7.2	0.2	<0.05	9	<0.5	<0.2
0116009	Soil	34	0.58	250	0.106	<1	2.12	0.012	0.12	0.1	0.02	4.5	0.1	<0.05	7	<0.5	<0.2
0116010	Soil	18	0.59	196	0.110	<1	1.80	0.010	0.41	<0.1	0.01	3.8	0.2	<0.05	7	<0.5	<0.2
0116011	Soil	29	0.71	280	0.129	<1	1.94	0.020	0.23	<0.1	0.02	5.9	0.1	<0.05	7	0.6	<0.2
0116012	Soil	36	0.54	213	0.123	1	1.75	0.016	0.23	<0.1	0.01	4.5	0.2	<0.05	6	<0.5	<0.2
0116013	Soil	27	0.50	203	0.090	<1	1.88	0.012	0.09	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
0108001	Soil	0.9	12.4	4.4	35	<0.1	8.4	7.5	186	2.51	2.8	1.7	2.6	14	<0.1	0.2	<0.1	51	0.30	0.066	10
0108002	Soil	0.2	17.9	1.6	56	<0.1	4.3	11.2	355	3.52	<0.5	7.3	3.4	17	<0.1	<0.1	<0.1	97	0.77	0.176	11
0108003	Soil	0.6	26.3	1.9	48	<0.1	6.1	13.8	325	3.14	<0.5	1.0	3.7	19	<0.1	<0.1	<0.1	82	0.65	0.153	14
0108004	Soil	0.6	12.5	2.9	53	<0.1	8.2	10.8	343	3.59	2.8	2.1	5.7	22	<0.1	0.2	<0.1	56	0.52	0.095	25
0108005	Soil	0.5	11.5	1.6	68	<0.1	6.1	17.1	419	4.17	1.8	<0.5	2.3	21	<0.1	<0.1	<0.1	126	0.38	0.180	6
0108006	Soil	0.4	9.6	1.2	49	<0.1	2.8	12.3	349	3.37	1.0	<0.5	4.1	13	<0.1	<0.1	<0.1	61	0.73	0.265	10
0108008	Soil	0.2	12.1	2.7	26	<0.1	3.3	7.2	240	2.12	<0.5	0.7	6.8	18	<0.1	<0.1	<0.1	33	0.43	0.102	19
0108009	Soil	0.2	4.5	1.5	26	<0.1	4.5	8.9	275	2.68	0.7	1.0	6.3	15	<0.1	<0.1	<0.1	36	0.53	0.101	29
0108010	Soil	0.2	2.2	1.0	25	<0.1	5.2	9.0	208	2.02	1.0	<0.5	2.5	9	<0.1	<0.1	<0.1	44	0.39	0.132	6
0108011	Soil	0.6	7.9	2.6	36	<0.1	6.3	11.2	360	2.91	2.1	<0.5	5.4	13	<0.1	0.2	<0.1	50	0.33	0.096	19
0108012	Soil	0.2	7.3	2.2	37	<0.1	7.9	13.0	298	3.17	2.1	<0.5	3.2	13	<0.1	0.1	<0.1	65	0.39	0.070	15
0108013	Soil	0.6	43.0	3.0	35	<0.1	4.5	11.7	456	3.65	1.6	<0.5	5.7	14	<0.1	<0.1	<0.1	62	0.58	0.182	14
0108014	Soil	0.9	5.5	3.7	21	<0.1	5.0	7.4	270	2.58	2.9	<0.5	3.0	9	<0.1	0.1	<0.1	49	0.33	0.073	9
0108015	Soil	1.3	11.0	3.7	38	<0.1	7.7	9.9	317	3.33	3.4	1.1	2.9	22	<0.1	0.2	<0.1	65	0.57	0.102	16
0108016	Soil	0.4	31.8	1.4	81	<0.1	4.5	7.0	870	5.29	1.0	<0.5	6.7	10	<0.1	<0.1	<0.1	23	0.37	0.104	37
0108017	Soil	0.3	8.7	1.7	67	<0.1	3.6	11.8	1198	4.84	0.9	<0.5	6.8	17	<0.1	0.1	<0.1	11	0.44	0.125	32
0108018	Soil	1.5	12.0	3.4	52	<0.1	4.5	11.8	769	4.20	3.1	1.3	6.2	9	<0.1	0.2	<0.1	54	0.20	0.058	15
0108019	Soil	0.5	6.5	1.5	87	<0.1	3.1	13.9	794	4.46	1.5	<0.5	6.4	11	<0.1	0.1	<0.1	63	0.35	0.090	30
0108020	Soil	0.1	19.0	0.6	30	<0.1	4.0	12.3	501	2.85	<0.5	<0.5	0.5	7	<0.1	<0.1	<0.1	71	0.65	0.156	5
0108021	Soil	0.3	7.2	2.4	64	<0.1	16.9	23.6	859	5.27	0.7	<0.5	1.5	13	0.1	<0.1	<0.1	124	0.99	0.095	8
0108022	Soil	0.2	8.6	0.9	80	<0.1	2.7	15.9	1346	5.36	0.8	<0.5	2.6	11	<0.1	<0.1	<0.1	19	0.72	0.158	18
0108023	Soil	1.3	15.6	6.2	95	<0.1	14.9	16.8	683	5.55	5.3	0.6	3.7	14	<0.1	0.3	<0.1	89	0.23	0.052	12
0108024	Soil	0.6	20.7	3.8	91	<0.1	14.0	14.2	764	5.08	1.8	0.7	6.3	12	<0.1	0.1	<0.1	80	0.27	0.044	33
0108025	Soil	0.9	19.7	4.9	56	<0.1	14.6	10.4	468	3.02	5.1	1.7	4.5	16	<0.1	0.4	<0.1	62	0.34	0.054	13
0108026	Soil	0.7	17.5	5.6	47	<0.1	13.3	8.1	246	2.76	4.8	4.1	3.6	19	<0.1	0.3	<0.1	60	0.30	0.040	14
0108027	Soil	0.8	17.9	6.3	47	0.1	14.1	9.2	247	2.87	5.2	1.9	3.7	24	0.1	0.4	<0.1	62	0.37	0.051	16
0108028	Soil	0.7	14.2	5.5	41	<0.1	9.8	9.4	292	2.88	4.0	0.8	3.4	15	<0.1	0.3	<0.1	61	0.26	0.029	12
0108029	Soil	0.6	32.8	3.4	45	<0.1	14.3	12.4	300	3.16	2.9	0.8	2.1	13	<0.1	0.2	<0.1	80	0.31	0.061	8
0108030	Soil	0.9	12.6	4.6	51	<0.1	8.2	13.0	440	4.08	4.0	<0.5	4.3	8	<0.1	0.3	<0.1	53	0.16	0.044	14
0108031	Soil	0.7	21.6	3.1	72	<0.1	7.9	15.6	685	4.90	2.1	<0.5	4.8	29	<0.1	0.2	<0.1	51	0.38	0.095	17

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.



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Project: DAWSON
Report Date: June 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0108001	Soil	20	0.49	266	0.067	1	1.30	0.014	0.12	0.1	0.02	4.1	<0.1	0.06	5	<0.5	<0.2
0108002	Soil	6	0.92	568	0.088	<1	1.87	0.028	0.59	<0.1	<0.01	6.8	<0.1	<0.05	8	<0.5	<0.2
0108003	Soil	17	1.42	409	0.050	<1	1.94	0.018	0.12	<0.1	0.01	6.2	<0.1	<0.05	8	<0.5	<0.2
0108004	Soil	14	1.50	618	0.054	<1	2.11	0.010	0.22	<0.1	<0.01	7.2	<0.1	<0.05	11	<0.5	<0.2
0108005	Soil	20	2.30	405	0.126	<1	3.24	0.012	0.23	<0.1	<0.01	8.4	<0.1	<0.05	12	<0.5	<0.2
0108006	Soil	4	1.76	543	0.065	<1	2.27	0.013	0.41	<0.1	<0.01	7.7	<0.1	<0.05	10	<0.5	<0.2
0108008	Soil	6	0.91	531	0.036	<1	1.49	0.008	0.33	<0.1	<0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
0108009	Soil	22	1.18	785	0.024	<1	1.84	0.009	0.26	<0.1	0.02	7.3	<0.1	<0.05	7	<0.5	<0.2
0108010	Soil	11	1.11	296	0.038	<1	1.89	0.011	0.23	<0.1	<0.01	6.1	<0.1	<0.05	6	<0.5	<0.2
0108011	Soil	14	1.10	1909	0.074	<1	1.68	0.014	0.23	<0.1	0.01	6.5	<0.1	<0.05	7	<0.5	<0.2
0108012	Soil	18	1.49	448	0.059	<1	2.19	0.011	0.23	<0.1	<0.01	6.6	<0.1	<0.05	8	<0.5	<0.2
0108013	Soil	11	1.63	863	0.096	<1	2.06	0.010	0.68	<0.1	<0.01	9.1	0.2	<0.05	10	<0.5	<0.2
0108014	Soil	16	0.70	262	0.068	<1	1.34	0.023	0.26	<0.1	0.01	5.1	<0.1	<0.05	7	<0.5	<0.2
0108015	Soil	16	0.81	668	0.086	<1	1.60	0.011	0.24	<0.1	0.03	6.0	<0.1	<0.05	7	<0.5	<0.2
0108016	Soil	4	0.82	797	0.182	<1	1.83	0.007	1.06	<0.1	<0.01	15.6	0.2	<0.05	11	<0.5	<0.2
0108017	Soil	2	0.60	635	0.080	<1	1.54	0.006	0.62	<0.1	<0.01	11.8	0.2	<0.05	8	<0.5	<0.2
0108018	Soil	9	0.85	320	0.107	<1	1.80	0.006	0.65	<0.1	<0.01	12.1	0.2	<0.05	9	<0.5	<0.2
0108019	Soil	6	1.36	580	0.159	<1	1.98	0.009	0.96	<0.1	<0.01	13.4	0.2	<0.05	10	<0.5	<0.2
0108020	Soil	2	0.27	91	0.028	<1	0.66	0.040	0.04	<0.1	<0.01	5.8	<0.1	<0.05	4	<0.5	<0.2
0108021	Soil	23	0.82	344	0.040	<1	1.51	0.006	0.42	<0.1	<0.01	21.2	0.2	<0.05	6	<0.5	<0.2
0108022	Soil	2	0.69	442	0.065	<1	1.60	0.006	0.53	<0.1	0.01	14.1	0.1	0.05	7	<0.5	<0.2
0108023	Soil	29	0.92	429	0.132	<1	2.51	0.008	0.52	<0.1	0.02	8.7	0.2	<0.05	9	<0.5	<0.2
0108024	Soil	29	0.96	625	0.187	<1	2.11	0.008	0.97	<0.1	0.02	14.2	0.2	0.07	9	0.6	<0.2
0108025	Soil	22	0.59	312	0.115	<1	1.63	0.013	0.26	<0.1	0.02	7.0	0.1	0.05	6	<0.5	<0.2
0108026	Soil	21	0.51	258	0.107	<1	1.47	0.016	0.24	<0.1	<0.01	5.4	0.1	0.06	5	<0.5	<0.2
0108027	Soil	22	0.60	354	0.101	<1	1.66	0.016	0.29	0.1	0.02	6.1	<0.1	<0.05	6	<0.5	<0.2
0108028	Soil	18	0.56	313	0.110	<1	1.61	0.014	0.28	<0.1	0.01	5.3	<0.1	0.08	6	<0.5	<0.2
0108029	Soil	28	0.66	232	0.097	<1	1.49	0.014	0.17	<0.1	<0.01	4.7	<0.1	0.05	7	<0.5	<0.2
0108030	Soil	17	0.46	169	0.070	<1	1.49	0.008	0.18	<0.1	<0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
0108031	Soil	11	0.78	668	0.085	<1	1.85	0.015	0.44	<0.1	0.01	10.6	0.1	<0.05	9	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
0108032	Soil	0.2	8.5	1.0	48	<0.1	3.4	10.3	625	3.65	1.4	<0.5	5.4	18	<0.1	<0.1	<0.1	76	0.45	0.094	21
0108033	Soil	0.6	29.4	6.1	53	<0.1	20.9	11.6	370	3.10	8.2	4.8	4.5	19	<0.1	0.4	0.1	67	0.29	0.021	20
0108034	Soil	0.7	15.2	5.2	44	<0.1	13.1	7.2	239	2.30	7.0	1.8	3.2	13	<0.1	0.4	<0.1	52	0.16	0.010	17
0108035	Soil	0.5	19.7	2.0	85	<0.1	5.7	9.2	510	3.87	7.6	<0.5	5.9	10	<0.1	0.5	<0.1	53	0.18	0.033	16
0108036	Soil	0.7	20.2	7.2	53	<0.1	23.4	9.6	268	3.02	11.2	5.2	6.4	19	<0.1	0.5	0.1	67	0.27	0.038	21
0108037	Soil	0.7	18.0	7.7	58	<0.1	15.0	9.1	271	2.78	6.6	2.5	4.3	15	<0.1	0.4	0.2	56	0.21	0.026	13
0108038	Soil	0.8	29.4	5.5	99	<0.1	6.7	9.6	722	4.29	4.5	0.8	8.2	13	<0.1	0.3	0.2	52	0.23	0.044	23
0108039	Soil	0.7	13.8	6.5	67	<0.1	12.0	12.0	512	3.21	7.8	0.6	5.5	15	<0.1	0.6	0.2	55	0.18	0.024	16
101006	Soil	0.5	22.0	3.4	42	<0.1	7.7	10.7	276	2.63	4.1	1.5	1.6	15	<0.1	0.2	<0.1	61	0.32	0.025	4
101007	Soil	0.3	45.8	1.6	28	<0.1	11.7	12.6	236	2.00	2.4	0.8	1.1	16	<0.1	0.2	<0.1	63	0.36	0.028	3
101008	Soil	0.4	26.0	1.7	52	<0.1	8.7	16.7	345	3.05	1.9	<0.5	0.8	21	<0.1	0.1	<0.1	76	0.46	0.049	2
101009	Soil	0.3	7.8	3.7	25	<0.1	8.5	7.1	133	1.77	2.6	1.3	1.4	21	0.1	0.2	<0.1	47	0.35	0.036	3
101010	Soil	0.3	22.6	1.5	43	<0.1	5.2	12.6	297	2.69	3.1	0.7	0.8	21	<0.1	0.2	<0.1	67	0.42	0.034	2
101011	Soil	0.3	61.9	1.3	26	<0.1	5.4	7.2	233	2.63	2.5	<0.5	1.4	18	<0.1	0.2	<0.1	51	0.61	0.064	2
101012	Soil	0.4	43.4	0.9	65	<0.1	5.2	20.5	1017	5.63	1.6	<0.5	3.2	21	<0.1	<0.1	<0.1	117	0.42	0.104	15
101013	Soil	0.5	38.5	4.3	63	<0.1	41.8	16.4	485	4.10	4.4	1.8	2.1	20	<0.1	0.5	0.1	119	0.50	0.022	15
101014	Soil	0.4	11.8	8.4	66	<0.1	5.0	18.8	347	4.50	2.1	<0.5	1.6	31	0.5	0.1	<0.1	110	0.56	0.059	5
101015	Soil	0.4	52.1	2.9	55	<0.1	10.8	15.8	562	4.14	3.1	<0.5	4.2	82	<0.1	0.2	<0.1	82	0.57	0.065	10
101016	Soil	0.7	28.7	3.9	49	<0.1	10.9	10.0	269	3.20	3.8	<0.5	3.1	70	<0.1	0.2	<0.1	76	0.60	0.050	16
101017	Soil	0.7	19.0	6.8	41	<0.1	11.9	7.4	191	2.43	5.6	1.1	2.1	22	<0.1	0.3	0.1	55	0.23	0.024	7



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
0108032	Soil	4	1.04	672	0.147	<1	1.87	0.026	0.71	<0.1	<0.01	9.8	0.2	<0.05	9	<0.5	<0.2
0108033	Soil	36	0.66	306	0.088	<1	1.97	0.012	0.12	0.1	0.03	6.3	0.1	<0.05	6	<0.5	<0.2
0108034	Soil	28	0.49	189	0.076	<1	1.47	0.010	0.07	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
0108035	Soil	9	0.83	140	0.188	<1	2.70	0.007	0.93	<0.1	0.01	7.7	0.5	0.09	11	<0.5	<0.2
0108036	Soil	34	0.58	243	0.069	1	1.98	0.011	0.07	0.2	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
0108037	Soil	26	0.53	234	0.088	1	1.57	0.011	0.11	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
0108038	Soil	14	0.71	201	0.159	<1	2.08	0.009	0.71	<0.1	<0.01	5.5	0.5	<0.05	10	0.5	<0.2
0108039	Soil	23	0.59	199	0.123	<1	1.80	0.011	0.35	<0.1	0.01	4.0	0.2	0.05	7	<0.5	<0.2
101006	Soil	17	0.92	229	0.141	1	1.63	0.018	0.40	<0.1	0.01	2.8	0.2	<0.05	5	<0.5	<0.2
101007	Soil	37	0.60	99	0.062	<1	1.23	0.018	0.05	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
101008	Soil	24	1.09	240	0.126	<1	1.91	0.022	0.24	<0.1	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
101009	Soil	25	0.42	86	0.044	<1	1.21	0.019	0.07	<0.1	<0.01	2.9	<0.1	<0.05	3	0.6	<0.2
101010	Soil	14	0.87	225	0.111	<1	1.72	0.025	0.24	<0.1	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2
101011	Soil	10	0.68	108	0.069	<1	1.73	0.030	0.04	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
101012	Soil	18	2.20	633	0.369	<1	3.34	0.009	1.40	<0.1	<0.01	2.8	0.6	<0.05	9	<0.5	<0.2
101013	Soil	134	1.49	283	0.146	<1	2.46	0.036	0.16	0.1	0.02	8.0	0.2	<0.05	8	<0.5	<0.2
101014	Soil	16	1.96	363	0.147	<1	2.85	0.019	0.50	<0.1	<0.01	8.8	0.2	<0.05	9	0.5	<0.2
101015	Soil	18	1.13	361	0.168	<1	2.20	0.016	0.58	<0.1	0.04	6.5	0.2	<0.05	8	<0.5	<0.2
101016	Soil	22	0.97	307	0.108	<1	1.84	0.025	0.24	<0.1	0.05	6.2	0.1	<0.05	7	0.8	<0.2
101017	Soil	20	0.58	192	0.100	<1	1.49	0.011	0.16	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11000186D.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
104016	Soil	0.4	32.8	4.5	23	0.1	7.0	6.4	197	1.33	1.9	<0.5	1.3	31	<0.1	0.2	<0.1	27	0.40	0.075	4
REP 104016	QC	0.6	33.8	4.5	23	0.1	7.8	6.1	194	1.33	1.8	1.5	1.4	31	0.1	0.1	<0.1	27	0.41	0.078	4
0102006	Soil	0.6	35.9	2.4	57	<0.1	8.7	14.3	402	4.22	1.9	0.8	2.2	15	<0.1	0.1	<0.1	63	0.55	0.097	7
REP 0102006	QC	0.4	36.6	2.3	55	<0.1	6.9	14.1	387	4.09	2.1	<0.5	2.3	16	<0.1	0.2	<0.1	60	0.54	0.099	7
0102012	Soil	0.3	82.3	1.3	40	<0.1	4.6	12.4	326	2.50	<0.5	0.8	3.3	15	<0.1	<0.1	<0.1	48	0.44	0.108	5
REP 0102012	QC	0.2	81.0	1.1	38	<0.1	4.4	12.2	337	2.62	<0.5	1.2	3.3	15	<0.1	<0.1	<0.1	49	0.45	0.105	5
0102034	Soil	0.7	20.8	1.8	67	<0.1	6.8	16.8	610	3.73	1.0	1.6	2.2	18	<0.1	0.1	<0.1	103	0.51	0.081	14
REP 0102034	QC	0.5	20.1	1.8	69	<0.1	6.8	17.4	630	3.87	1.3	1.4	2.2	18	<0.1	0.1	<0.1	108	0.52	0.079	14
100002	Soil	0.2	35.0	1.0	41	<0.1	5.1	9.3	224	2.41	<0.5	<0.5	1.0	18	<0.1	<0.1	<0.1	61	0.61	0.109	4
REP 100002	QC	0.2	33.6	1.1	41	<0.1	4.8	9.2	225	2.30	<0.5	<0.5	1.0	18	<0.1	<0.1	<0.1	63	0.64	0.113	4
100016	Soil	0.4	20.8	1.4	68	<0.1	6.1	14.7	458	3.86	1.5	<0.5	2.1	12	<0.1	0.1	<0.1	47	0.25	0.075	9
REP 100016	QC	0.3	20.9	1.1	68	<0.1	5.9	15.5	504	3.93	1.4	<0.5	2.1	12	<0.1	0.1	<0.1	49	0.26	0.084	8
0103017	Soil	1.6	21.5	15.9	103	<0.1	5.4	10.8	1057	5.15	3.5	1.6	6.2	61	0.1	0.3	0.2	107	0.77	0.202	44
REP 0103017	QC	1.6	22.3	15.9	104	<0.1	6.0	10.8	1055	5.24	3.9	1.6	6.6	63	<0.1	0.3	0.1	111	0.79	0.182	45
0103031	Soil	0.7	31.0	5.8	43	<0.1	13.0	11.7	492	2.55	4.4	0.6	2.4	16	<0.1	0.3	<0.1	60	0.34	0.056	7
REP 0103031	QC	0.6	30.3	5.9	45	<0.1	12.4	11.0	496	2.50	4.7	0.6	2.4	16	0.1	0.3	<0.1	59	0.35	0.054	7
0103052	Soil	0.7	27.8	3.3	58	<0.1	13.1	13.7	385	4.08	5.4	1.0	2.0	42	<0.1	0.2	<0.1	114	0.61	0.051	7
REP 0103052	QC	0.7	27.5	3.4	59	0.1	13.3	14.0	398	3.98	5.1	1.7	1.9	41	<0.1	0.3	<0.1	116	0.59	0.046	7
0107003	Soil	0.8	19.9	6.5	41	<0.1	13.4	10.9	202	2.84	4.2	5.4	3.4	18	<0.1	0.2	<0.1	69	0.26	0.029	13
REP 0107003	QC	0.7	19.4	5.6	40	<0.1	14.1	10.8	191	2.71	4.1	4.2	3.3	16	<0.1	0.3	<0.1	65	0.26	0.028	12
0107019	Soil	0.2	13.8	1.2	53	<0.1	4.0	11.1	249	3.24	<0.5	0.5	1.7	53	<0.1	<0.1	<0.1	53	0.60	0.115	8
REP 0107019	QC	0.2	13.6	1.1	52	<0.1	4.0	11.1	260	3.28	<0.5	<0.5	1.7	51	<0.1	<0.1	<0.1	53	0.59	0.114	8
0116005	Soil	0.7	8.1	5.6	48	<0.1	10.6	7.0	257	2.07	1.1	0.7	3.4	19	<0.1	0.1	0.9	15	0.28	0.015	15
REP 0116005	QC	0.6	7.9	7.1	44	<0.1	10.2	6.6	260	2.01	1.1	<0.5	3.5	19	0.1	0.1	0.9	17	0.26	0.015	15
0108015	Soil	1.3	11.0	3.7	38	<0.1	7.7	9.9	317	3.33	3.4	1.1	2.9	22	<0.1	0.2	<0.1	65	0.57	0.102	16
REP 0108015	QC	1.1	10.9	3.4	38	<0.1	7.6	10.0	302	3.38	3.2	<0.5	2.9	21	<0.1	0.2	<0.1	71	0.56	0.102	16
0108032	Soil	0.2	8.5	1.0	48	<0.1	3.4	10.3	625	3.65	1.4	<0.5	5.4	18	<0.1	<0.1	<0.1	76	0.45	0.094	21
REP 0108032	QC	0.3	9.1	1.0	48	<0.1	3.3	10.2	587	3.54	1.5	<0.5	5.6	19	<0.1	<0.1	<0.1	74	0.43	0.097	21



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Project: DAWSON
 Report Date: June 20, 2011

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	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																	
104016	Soil	17	0.38	136	0.048	2	0.91	0.012	0.12	<0.1	0.02	2.0	<0.1	<0.05	4	0.6	<0.2
REP 104016	QC	17	0.39	136	0.050	2	0.91	0.013	0.12	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
0102006	Soil	14	0.93	211	0.143	<1	2.14	0.034	0.36	<0.1	<0.01	6.6	0.1	<0.05	8	<0.5	<0.2
REP 0102006	QC	14	0.96	205	0.142	<1	2.16	0.032	0.37	<0.1	<0.01	6.7	0.2	<0.05	8	0.6	<0.2
0102012	Soil	9	0.57	248	0.081	<1	1.35	0.024	0.34	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
REP 0102012	QC	11	0.56	242	0.079	<1	1.39	0.025	0.35	<0.1	<0.01	3.8	<0.1	<0.05	5	0.6	<0.2
0102034	Soil	18	1.25	435	0.164	<1	2.17	0.020	0.62	<0.1	0.01	8.5	0.1	<0.05	7	0.8	<0.2
REP 0102034	QC	18	1.30	470	0.181	1	2.15	0.020	0.64	<0.1	<0.01	8.8	0.1	<0.05	7	<0.5	<0.2
100002	Soil	9	0.77	306	0.124	<1	1.90	0.039	0.32	<0.1	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2
REP 100002	QC	9	0.75	309	0.133	<1	1.88	0.037	0.34	<0.1	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2
100016	Soil	10	0.90	385	0.142	<1	2.49	0.012	0.60	<0.1	<0.01	5.2	0.2	<0.05	8	<0.5	<0.2
REP 100016	QC	11	0.93	364	0.131	<1	2.38	0.013	0.59	<0.1	<0.01	4.9	0.1	<0.05	8	<0.5	<0.2
0103017	Soil	8	0.74	386	0.121	<1	2.01	0.018	0.10	<0.1	0.02	7.7	<0.1	<0.05	8	0.6	<0.2
REP 0103017	QC	9	0.72	387	0.137	<1	2.01	0.018	0.11	<0.1	0.02	8.2	<0.1	<0.05	8	0.7	<0.2
0103031	Soil	22	0.57	246	0.074	1	1.55	0.023	0.13	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 0103031	QC	20	0.57	241	0.072	<1	1.51	0.025	0.14	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
0103052	Soil	21	0.75	266	0.061	<1	2.33	0.020	0.24	<0.1	0.03	9.8	<0.1	0.06	7	<0.5	<0.2
REP 0103052	QC	22	0.73	263	0.061	<1	2.22	0.022	0.23	<0.1	0.04	9.6	<0.1	<0.05	7	<0.5	<0.2
0107003	Soil	21	0.72	171	0.097	<1	1.67	0.013	0.09	<0.1	<0.01	3.9	0.1	<0.05	5	<0.5	<0.2
REP 0107003	QC	20	0.69	165	0.094	<1	1.59	0.013	0.08	<0.1	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
0107019	Soil	10	1.06	318	0.098	2	1.99	0.027	0.25	<0.1	<0.01	6.2	0.1	<0.05	6	<0.5	<0.2
REP 0107019	QC	10	0.94	298	0.093	<1	1.84	0.025	0.22	<0.1	<0.01	6.4	0.1	<0.05	6	<0.5	<0.2
0116005	Soil	12	0.57	149	0.059	<1	2.68	0.011	0.34	<0.1	<0.01	1.8	0.3	<0.05	5	<0.5	<0.2
REP 0116005	QC	13	0.52	142	0.059	<1	2.37	0.012	0.32	<0.1	0.02	1.7	0.2	<0.05	5	<0.5	<0.2
0108015	Soil	16	0.81	668	0.086	<1	1.60	0.011	0.24	<0.1	0.03	6.0	<0.1	<0.05	7	<0.5	<0.2
REP 0108015	QC	15	0.80	666	0.093	<1	1.59	0.011	0.25	<0.1	0.04	6.4	0.1	<0.05	7	<0.5	<0.2
0108032	Soil	4	1.04	672	0.147	<1	1.87	0.026	0.71	<0.1	<0.01	9.8	0.2	<0.05	9	<0.5	<0.2
REP 0108032	QC	4	1.06	692	0.140	<1	1.95	0.023	0.73	<0.1	<0.01	10.0	0.2	<0.05	9	0.6	<0.2

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.



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Project: DAWSON
 Report Date: June 20, 2011

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
0108039	Soil	0.7	13.8	6.5	67	<0.1	12.0	12.0	512	3.21	7.8	0.6	5.5	15	<0.1	0.6	0.2	55	0.18	0.024	16
REP 0108039	QC	0.7	13.8	6.6	71	<0.1	11.4	11.8	484	3.12	7.6	9.8	5.6	15	<0.1	0.6	0.2	52	0.17	0.023	16
Reference Materials																					
STD DS8	Standard	14.0	115.1	120.8	330	1.8	39.9	7.9	637	2.49	27.1	112.9	6.7	64	2.3	5.7	6.2	43	0.71	0.081	15
STD DS8	Standard	14.1	121.4	125.4	335	1.8	41.2	7.8	686	2.58	28.7	112.7	6.7	65	2.2	5.5	6.4	45	0.72	0.085	15
STD DS8	Standard	12.9	116.7	116.7	326	1.7	39.4	7.4	628	2.46	25.9	105.7	6.5	69	2.7	5.9	6.5	41	0.67	0.082	14
STD DS8	Standard	12.5	123.7	117.3	336	1.7	40.9	7.8	627	2.50	25.2	104.7	6.3	69	2.5	5.7	6.1	39	0.69	0.082	14
STD DS8	Standard	13.8	107.9	121.6	316	1.8	37.5	7.2	626	2.61	26.3	165.9	6.7	62	2.1	5.4	5.9	41	0.72	0.079	16
STD DS8	Standard	14.5	109.8	126.7	310	1.7	37.0	7.4	626	2.58	26.2	106.0	7.1	66	2.5	6.0	6.1	43	0.75	0.082	16
STD DS8	Standard	12.2	100.0	116.1	296	1.5	35.4	6.8	574	2.28	23.8	103.5	5.8	57	1.7	5.2	5.7	39	0.63	0.078	12
STD DS8	Standard	12.4	103.9	115.2	297	1.7	36.0	7.3	597	2.46	24.9	112.9	5.9	56	2.3	5.1	5.5	40	0.63	0.078	12
STD DS8	Standard	13.0	107.4	121.9	309	1.7	37.8	7.2	614	2.44	26.0	145.6	7.0	71	2.5	6.1	6.5	38	0.73	0.080	15
STD DS8	Standard	14.0	115.1	142.5	341	1.8	40.5	7.8	642	2.55	27.0	106.6	7.2	76	4.2	6.2	6.6	40	0.73	0.081	15
STD DS8	Standard	13.8	114.2	121.4	330	1.9	40.1	7.6	690	2.64	27.6	109.7	7.2	75	2.5	6.2	6.6	42	0.73	0.088	16
STD DS8	Standard	13.7	115.6	115.8	319	1.8	39.5	7.3	640	2.59	26.7	110.4	6.7	75	2.5	6.2	6.5	41	0.72	0.083	15
STD DS8	Standard	13.2	94.0	126.1	313	1.8	38.2	7.6	628	2.42	27.3	109.1	6.1	55	2.1	4.9	5.8	44	0.68	0.078	13
STD DS8	Standard	13.6	100.1	125.0	317	1.8	38.0	7.6	594	2.42	27.0	113.3	6.0	55	2.2	4.8	5.9	43	0.68	0.079	13
STD DS8	Standard	13.8	113.2	119.0	330	1.9	40.2	8.1	646	2.47	29.1	116.8	6.4	65	2.4	5.9	6.6	44	0.73	0.085	14
STD DS8	Standard	14.8	118.7	127.4	342	1.8	42.5	8.5	654	2.60	29.6	120.3	6.9	71	2.4	5.9	6.8	44	0.72	0.083	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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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	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
0108039	Soil	23	0.59	199	0.123	<1	1.80	0.011	0.35	<0.1	0.01	4.0	0.2	0.05	7	<0.5	<0.2
REP 0108039	QC	21	0.59	197	0.120	1	1.80	0.008	0.35	<0.1	0.01	3.9	0.2	<0.05	7	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	118	0.63	285	0.120	3	0.91	0.088	0.42	3.0	0.20	1.9	5.3	0.15	5	5.3	5.2
STD DS8	Standard	124	0.61	289	0.125	2	0.92	0.092	0.43	3.2	0.20	2.1	5.8	0.15	5	5.8	5.1
STD DS8	Standard	115	0.60	289	0.121	3	0.83	0.086	0.40	2.9	0.19	2.0	5.0	0.27	5	5.7	5.4
STD DS8	Standard	110	0.63	292	0.113	2	0.95	0.102	0.42	2.8	0.19	2.1	5.2	0.21	5	5.0	5.2
STD DS8	Standard	118	0.61	273	0.122	5	0.93	0.093	0.41	3.0	0.21	2.3	5.3	0.08	5	6.5	5.8
STD DS8	Standard	119	0.63	283	0.127	4	0.97	0.097	0.42	3.3	0.20	2.6	5.4	0.07	5	5.2	5.3
STD DS8	Standard	107	0.55	254	0.101	<1	0.85	0.084	0.38	2.8	0.19	2.4	5.1	0.09	4	6.1	5.2
STD DS8	Standard	111	0.56	256	0.105	<1	0.89	0.081	0.39	2.8	0.22	2.3	5.2	0.21	5	5.3	5.0
STD DS8	Standard	122	0.64	293	0.125	4	0.94	0.103	0.43	3.0	0.20	2.0	5.5	0.11	5	5.9	4.9
STD DS8	Standard	123	0.64	291	0.131	3	0.92	0.117	0.42	3.0	0.19	2.0	5.6	<0.05	5	5.2	5.1
STD DS8	Standard	120	0.67	295	0.126	3	0.94	0.103	0.45	3.3	0.21	1.8	5.6	0.15	5	5.0	5.2
STD DS8	Standard	113	0.63	288	0.119	3	0.95	0.095	0.45	2.9	0.23	1.9	5.4	0.20	5	5.4	5.2
STD DS8	Standard	116	0.63	270	0.096	3	0.90	0.094	0.41	3.3	0.21	2.3	5.5	0.19	5	4.5	5.2
STD DS8	Standard	116	0.63	275	0.103	3	0.96	0.094	0.44	3.2	0.20	2.4	5.7	0.22	5	5.2	5.0
STD DS8	Standard	124	0.64	294	0.117	2	1.00	0.116	0.49	3.2	0.21	2.5	5.4	0.17	5	6.0	5.1
STD DS8	Standard	124	0.65	307	0.121	3	1.01	0.118	0.51	3.2	0.21	2.4	5.6	0.17	5	5.7	5.4
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Taku Gold Corp
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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 16, 2011
Report Date: June 26, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000229.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110612170 842
P.O. Number
Number of Samples: 295

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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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. ** 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: Montana
 Report Date: June 26, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000229.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
101018	Soil	0.8	17.9	5.5	39	<0.1	12.5	7.0	173	2.19	5.8	0.4	1.3	3.0	15	<0.1	0.4	<0.1	58	0.23	0.016
101019	Soil	0.5	21.0	3.6	35	<0.1	7.4	9.4	233	2.51	3.8	0.4	<0.5	3.6	27	<0.1	0.2	<0.1	58	0.40	0.063
101020	Soil	0.5	26.7	3.8	35	<0.1	9.7	9.9	205	2.54	5.0	0.3	<0.5	2.5	16	<0.1	0.2	<0.1	63	0.25	0.026
101021	Soil	0.3	21.4	2.9	40	<0.1	7.3	10.0	191	2.40	3.2	0.4	0.7	2.3	17	<0.1	0.1	<0.1	63	0.38	0.082
101022	Soil	0.4	50.4	3.3	58	<0.1	7.0	19.7	385	4.21	3.3	0.5	1.5	1.6	162	<0.1	0.3	<0.1	121	0.78	0.069
101023	Soil	0.2	27.3	3.2	35	<0.1	7.4	7.3	214	1.97	3.1	0.4	2.5	1.5	67	<0.1	0.2	<0.1	29	0.72	0.079
101024	Soil	1.1	32.2	6.9	50	<0.1	18.5	11.9	318	2.81	5.9	0.3	1.1	2.2	37	<0.1	0.3	<0.1	69	0.51	0.061
101025	Soil	0.9	24.9	6.1	53	<0.1	11.7	10.5	362	3.11	4.6	0.8	1.0	2.2	93	<0.1	0.4	<0.1	60	0.70	0.029
101026	Soil	0.4	18.3	3.1	60	<0.1	8.8	12.8	519	3.58	2.9	0.3	1.3	1.0	79	<0.1	0.2	<0.1	61	2.20	0.066
101027	Soil	0.4	42.3	1.4	54	<0.1	4.1	12.1	242	3.17	1.7	0.6	<0.5	2.5	19	<0.1	0.1	<0.1	50	0.74	0.148
101028	Soil	0.4	17.9	2.8	24	<0.1	14.6	8.6	160	1.99	4.1	0.3	0.8	2.5	18	<0.1	0.2	<0.1	53	0.33	0.017
101029	Soil	0.4	74.9	2.4	48	<0.1	10.4	9.7	232	2.98	3.1	0.7	1.4	2.3	31	<0.1	0.2	<0.1	53	0.67	0.063
101030	Soil	0.2	10.7	1.7	29	<0.1	14.3	10.6	231	2.43	1.6	0.4	<0.5	1.6	16	<0.1	0.2	<0.1	71	0.49	0.050
101031	Soil	0.7	76.4	3.3	35	<0.1	10.7	9.4	250	2.94	2.4	0.2	0.6	2.2	11	<0.1	0.2	<0.1	70	0.36	0.051
101032	Soil	0.2	6.1	1.1	30	<0.1	7.7	10.9	170	2.05	1.6	0.3	1.1	2.9	14	<0.1	0.1	0.1	66	0.35	0.018
101033	Soil	0.6	20.1	3.3	37	<0.1	8.5	9.8	241	2.60	3.4	0.5	1.6	3.0	15	<0.1	0.2	<0.1	67	0.35	0.025
101034	Soil	1.4	14.4	8.6	75	<0.1	12.7	8.8	587	3.09	7.4	0.6	1.7	4.1	12	0.1	0.6	0.1	48	0.15	0.072
101035	Soil	1.2	17.1	8.7	71	<0.1	15.9	10.2	391	3.95	7.8	0.8	1.8	4.3	21	<0.1	0.5	0.1	75	0.27	0.023
101036	Soil	1.9	8.3	7.9	135	<0.1	8.4	15.9	1993	4.78	5.0	0.6	0.6	3.0	8	<0.1	0.4	<0.1	55	0.08	0.060
101037	Soil	1.2	22.2	7.1	74	<0.1	16.0	14.1	777	4.22	6.0	0.6	1.1	2.5	13	<0.1	0.4	<0.1	70	0.21	0.047
101038	Soil	0.8	14.9	4.9	91	<0.1	10.4	10.1	602	3.96	5.8	0.6	<0.5	2.8	9	0.1	0.4	<0.1	52	0.12	0.101
101039	Soil	1.3	24.7	10.9	60	<0.1	22.0	10.7	372	3.33	9.7	1.0	3.5	5.6	15	<0.1	0.7	0.2	70	0.15	0.021
101040	Soil	1.1	17.6	10.3	47	<0.1	19.7	10.0	313	3.02	10.1	0.6	1.7	5.0	15	<0.1	0.7	0.1	63	0.14	0.019
101041	Soil	0.7	15.4	6.2	89	<0.1	15.1	11.9	466	4.22	6.8	0.6	1.5	4.3	14	0.1	0.5	<0.1	59	0.18	0.038
101042	Soil	1.2	14.1	6.7	74	<0.1	9.5	6.1	355	3.14	4.3	0.9	0.6	4.9	19	<0.1	0.6	<0.1	39	0.22	0.019
101043	Soil	0.5	15.4	6.8	62	<0.1	11.3	7.3	321	2.75	3.9	1.0	1.2	5.7	19	<0.1	0.3	<0.1	58	0.21	0.017
101044	Soil	0.9	20.1	6.5	69	<0.1	11.9	9.7	318	4.05	4.0	0.7	1.2	4.4	20	<0.1	0.2	<0.1	86	0.24	0.035
101045	Soil	1.0	21.7	6.2	66	<0.1	10.0	7.7	318	3.29	4.0	1.1	0.6	7.0	18	<0.1	0.5	<0.1	56	0.25	0.024
101046	Soil	0.5	12.5	5.1	59	<0.1	9.2	7.1	295	2.80	4.1	0.8	1.7	7.6	13	<0.1	0.3	<0.1	47	0.15	0.014
101047	Soil	0.8	43.8	4.2	27	<0.1	26.6	14.5	300	4.37	4.6	1.4	0.7	8.1	9	<0.1	0.2	0.3	56	0.11	0.037

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

WHI11000229.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
101018	Soil	9	21	0.56	163	0.074	1	1.61	0.016	0.08	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
101019	Soil	6	19	0.69	196	0.109	<1	1.46	0.026	0.33	<0.1	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
101020	Soil	4	38	0.79	252	0.132	<1	2.13	0.017	0.37	<0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
101021	Soil	6	10	0.73	213	0.116	<1	1.89	0.024	0.31	<0.1	<0.01	3.1	0.1	<0.05	6	<0.5	<0.2
101022	Soil	11	11	1.30	342	0.136	<1	2.51	0.035	0.27	<0.1	0.05	9.3	0.1	<0.05	9	<0.5	<0.2
101023	Soil	4	10	0.68	136	0.048	<1	1.93	0.079	0.04	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
101024	Soil	4	39	0.78	175	0.102	<1	2.04	0.024	0.08	<0.1	0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
101025	Soil	7	20	0.65	263	0.052	<1	2.21	0.048	0.05	<0.1	<0.01	7.2	<0.1	<0.05	6	<0.5	<0.2
101026	Soil	5	12	0.94	217	0.010	<1	4.17	0.054	0.12	<0.1	0.02	6.7	<0.1	<0.05	9	<0.5	<0.2
101027	Soil	10	8	0.70	163	0.071	<1	1.80	0.040	0.15	<0.1	<0.01	8.9	<0.1	<0.05	6	<0.5	<0.2
101028	Soil	8	58	0.57	186	0.078	<1	1.77	0.024	0.03	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
101029	Soil	11	58	0.78	184	0.044	<1	2.22	0.057	0.03	<0.1	0.02	7.9	<0.1	<0.05	7	<0.5	<0.2
101030	Soil	6	57	0.97	86	0.085	<1	1.22	0.022	0.02	<0.1	<0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
101031	Soil	4	16	0.59	190	0.095	<1	1.40	0.023	0.40	<0.1	<0.01	4.9	0.2	<0.05	5	<0.5	<0.2
101032	Soil	6	18	0.90	130	0.059	<1	1.53	0.022	0.14	<0.1	<0.01	5.0	<0.1	<0.05	5	0.5	<0.2
101033	Soil	9	17	0.68	212	0.102	<1	1.43	0.024	0.26	<0.1	<0.01	6.3	<0.1	<0.05	5	<0.5	<0.2
101034	Soil	10	23	0.49	155	0.086	<1	1.83	0.010	0.27	0.1	0.01	4.2	0.2	<0.05	7	0.6	<0.2
101035	Soil	17	41	0.73	327	0.122	<1	2.32	0.018	0.20	<0.1	0.01	5.6	0.1	<0.05	8	0.7	<0.2
101036	Soil	9	16	0.68	167	0.237	<1	2.13	0.010	1.06	<0.1	<0.01	7.9	0.5	<0.05	14	<0.5	<0.2
101037	Soil	7	39	0.68	195	0.130	<1	2.32	0.017	0.28	<0.1	0.01	6.0	0.2	<0.05	9	0.5	<0.2
101038	Soil	8	18	0.64	151	0.167	<1	2.19	0.008	0.49	<0.1	<0.01	4.5	0.2	<0.05	9	<0.5	<0.2
101039	Soil	12	41	0.50	223	0.091	<1	2.25	0.011	0.07	0.1	0.01	4.5	<0.1	<0.05	7	<0.5	<0.2
101040	Soil	11	36	0.48	209	0.076	<1	2.17	0.010	0.06	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
101041	Soil	13	29	0.63	201	0.134	<1	2.91	0.012	0.46	<0.1	0.01	5.3	0.2	<0.05	10	<0.5	<0.2
101042	Soil	15	18	0.52	179	0.097	<1	2.12	0.007	0.29	<0.1	<0.01	4.3	0.2	<0.05	8	<0.5	<0.2
101043	Soil	32	20	0.54	281	0.133	<1	1.66	0.010	0.22	0.1	0.01	6.2	0.2	<0.05	7	<0.5	<0.2
101044	Soil	15	30	0.80	217	0.111	<1	2.37	0.011	0.46	<0.1	<0.01	8.1	0.2	<0.05	10	<0.5	<0.2
101045	Soil	16	17	0.53	130	0.095	<1	1.90	0.013	0.32	<0.1	0.01	5.5	0.2	<0.05	8	<0.5	<0.2
101046	Soil	22	16	0.54	160	0.118	<1	1.60	0.011	0.41	0.1	0.02	4.9	0.3	<0.05	7	<0.5	<0.2
101047	Soil	23	44	1.48	314	0.220	<1	2.87	0.017	1.04	<0.1	0.01	5.0	0.4	<0.05	10	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 2011

Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
101048	Soil	1.2	26.9	9.2	95	<0.1	25.8	13.7	343	4.17	3.9	0.8	1.0	9.2	15	0.1	0.2	0.3	63	0.20	0.032
101049	Soil	0.7	15.1	5.2	65	<0.1	9.7	11.9	342	3.66	3.2	0.5	2.1	4.0	43	<0.1	0.2	<0.1	92	0.41	0.045
101050	Soil	0.4	15.6	3.7	63	<0.1	7.1	15.5	314	3.44	2.0	0.4	5.7	4.7	35	<0.1	0.1	<0.1	65	0.52	0.069
101051	Soil	0.9	77.0	3.9	97	<0.1	6.5	13.0	711	4.79	4.6	0.6	1.0	3.3	9	<0.1	0.4	0.1	87	0.12	0.034
101052	Soil	0.9	26.1	5.6	57	<0.1	8.8	7.7	300	3.32	3.4	0.5	1.2	2.7	12	<0.1	0.3	<0.1	48	0.13	0.018
101053	Soil	0.6	12.0	3.9	80	<0.1	9.9	10.7	582	4.28	2.5	0.6	1.7	4.7	13	<0.1	0.3	<0.1	44	0.20	0.027
101054	Soil	0.4	14.3	2.7	80	<0.1	5.5	14.5	447	4.81	1.5	1.1	0.8	5.2	26	<0.1	0.3	<0.1	61	0.51	0.100
101055	Soil	0.8	23.6	4.9	46	<0.1	17.3	11.9	230	3.44	5.5	0.4	2.2	2.7	86	<0.1	0.4	<0.1	66	0.51	0.055
101056	Soil	1.5	24.2	10.1	52	<0.1	20.1	9.4	262	3.20	8.3	1.4	3.9	6.0	22	<0.1	0.7	0.2	63	0.24	0.023
101057	Soil	0.8	6.5	3.8	25	<0.1	7.3	4.3	153	2.24	4.3	0.4	3.1	2.4	11	<0.1	0.5	<0.1	22	0.14	0.020
101058	Soil	0.5	7.5	3.7	71	<0.1	8.5	14.8	484	4.68	2.9	0.7	2.1	3.4	25	<0.1	0.3	<0.1	64	0.58	0.118
101059	Soil	0.6	21.3	6.7	45	0.1	17.9	10.7	384	2.70	4.6	1.2	12.1	4.1	24	<0.1	0.4	0.1	45	0.41	0.064
101060	Soil	0.5	7.8	2.2	32	<0.1	5.1	15.1	498	4.80	1.8	1.1	0.7	4.6	33	<0.1	0.4	<0.1	45	0.53	0.084
101061	Soil	0.9	11.2	6.6	46	<0.1	13.0	10.1	328	3.43	6.0	0.7	1.3	3.6	21	<0.1	0.4	0.1	43	0.24	0.020
101062	Soil	0.6	9.3	4.7	36	<0.1	8.7	12.3	217	3.88	3.3	0.5	4.4	2.4	19	<0.1	0.3	<0.1	63	0.36	0.033
0110001	Soil	0.8	18.5	9.1	48	<0.1	16.8	11.4	238	2.99	6.8	0.6	1.1	4.2	15	<0.1	0.5	0.2	60	0.15	0.020
0110002	Soil	0.6	28.5	2.9	43	<0.1	9.2	16.3	289	3.31	2.6	0.6	0.7	2.1	26	<0.1	0.3	<0.1	98	0.45	0.050
0110003	Soil	0.9	12.6	8.5	50	<0.1	10.8	7.1	210	2.99	7.1	0.4	<0.5	2.8	19	<0.1	0.4	0.2	64	0.23	0.033
0110004	Soil	0.6	21.7	2.3	73	<0.1	5.2	11.4	427	4.05	0.7	0.7	<0.5	3.3	19	<0.1	0.2	<0.1	53	0.33	0.043
0110005	Soil	0.4	7.0	1.8	87	<0.1	3.0	11.6	556	4.77	<0.5	0.7	<0.5	3.7	13	<0.1	0.1	<0.1	79	0.27	0.057
0110006	Soil	0.4	6.0	1.5	50	<0.1	2.9	14.5	589	4.19	<0.5	0.6	<0.5	4.3	12	<0.1	<0.1	<0.1	92	0.32	0.086
0110007	Soil	0.9	35.4	9.9	55	0.1	26.8	14.5	318	3.55	8.6	0.8	3.2	5.9	15	<0.1	0.8	0.2	73	0.21	0.037
0110008	Soil	0.5	5.1	1.3	53	<0.1	2.5	11.6	536	5.67	0.5	0.5	<0.5	3.0	13	<0.1	<0.1	<0.1	27	0.25	0.058
0110009	Soil	0.6	10.3	3.3	52	<0.1	7.1	8.3	233	2.88	2.3	0.7	<0.5	3.9	14	<0.1	0.3	<0.1	27	0.30	0.059
0110010	Soil	0.8	11.8	6.1	36	<0.1	11.1	9.0	327	2.77	5.0	0.4	<0.5	2.2	13	<0.1	0.3	0.1	49	0.18	0.040
0110011	Soil	1.1	11.7	4.2	67	<0.1	10.7	9.0	444	4.23	3.2	0.8	0.6	4.4	15	<0.1	0.3	<0.1	38	0.24	0.056
0110012	Soil	0.9	20.5	3.6	49	<0.1	9.6	14.3	443	4.09	2.8	0.8	<0.5	3.8	14	<0.1	0.3	<0.1	42	0.28	0.068
0110013	Soil	1.0	18.1	6.4	58	<0.1	14.7	10.0	282	2.76	4.2	0.8	1.0	4.1	21	<0.1	0.4	0.1	55	0.31	0.046
0110014	Soil	1.0	31.8	9.3	60	0.1	24.4	10.4	351	2.74	7.8	0.9	2.6	4.6	32	0.1	0.7	0.2	55	0.46	0.063
0110015	Soil	1.1	31.0	8.5	60	0.1	23.1	9.9	348	2.70	7.4	0.9	1.6	4.3	31	<0.1	0.6	0.2	55	0.44	0.060

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Project: Montana
 Report Date: June 26, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
101048	Soil	11	40	1.09	305	0.205	<1	2.84	0.012	1.06	0.2	<0.01	6.1	0.4	<0.05	10	<0.5	<0.2
101049	Soil	7	19	1.16	474	0.226	<1	2.67	0.016	0.91	<0.1	<0.01	7.2	0.2	<0.05	9	<0.5	<0.2
101050	Soil	13	32	1.30	426	0.232	<1	2.75	0.024	0.70	<0.1	<0.01	4.5	0.2	<0.05	8	<0.5	<0.2
101051	Soil	8	12	0.93	213	0.235	<1	2.86	0.009	0.80	<0.1	<0.01	6.8	0.3	<0.05	12	<0.5	<0.2
101052	Soil	10	15	0.68	287	0.048	<1	2.07	0.005	0.18	<0.1	<0.01	4.6	<0.1	<0.05	10	<0.5	<0.2
101053	Soil	34	17	1.27	576	0.257	2	2.59	0.011	1.09	0.1	<0.01	8.7	0.3	<0.05	10	<0.5	<0.2
101054	Soil	21	8	1.25	883	0.263	<1	2.75	0.012	1.14	<0.1	<0.01	7.7	0.4	<0.05	11	<0.5	<0.2
101055	Soil	11	43	1.06	669	0.098	2	2.15	0.018	0.06	0.1	0.02	6.8	<0.1	<0.05	7	<0.5	<0.2
101056	Soil	15	34	0.58	391	0.096	1	2.20	0.012	0.11	0.1	0.02	5.6	0.2	<0.05	6	<0.5	<0.2
101057	Soil	8	11	0.41	117	0.066	<1	1.63	0.006	0.11	<0.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
101058	Soil	22	14	1.53	607	0.272	<1	2.68	0.013	0.86	<0.1	<0.01	8.8	0.3	<0.05	9	<0.5	<0.2
101059	Soil	17	30	0.55	257	0.059	<1	1.54	0.014	0.07	0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
101060	Soil	17	7	1.13	368	0.076	<1	2.67	0.009	0.08	<0.1	<0.01	9.2	<0.1	<0.05	10	<0.5	<0.2
101061	Soil	8	22	0.78	349	0.177	<1	2.31	0.014	0.34	<0.1	<0.01	5.6	0.1	<0.05	8	<0.5	<0.2
101062	Soil	8	14	0.76	389	0.187	<1	2.18	0.023	0.36	<0.1	<0.01	5.7	0.1	<0.05	8	<0.5	<0.2
0110001	Soil	12	29	0.49	261	0.070	<1	1.90	0.012	0.05	0.1	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
0110002	Soil	12	12	0.65	349	0.107	<1	1.60	0.029	0.07	<0.1	<0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
0110003	Soil	10	23	0.50	192	0.082	1	1.79	0.012	0.06	<0.1	<0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
0110004	Soil	12	9	0.69	356	0.157	<1	1.88	0.014	0.38	<0.1	<0.01	8.9	0.2	<0.05	8	<0.5	<0.2
0110005	Soil	10	6	0.99	772	0.342	<1	2.43	0.012	0.95	<0.1	<0.01	9.7	0.2	<0.05	10	<0.5	<0.2
0110006	Soil	34	4	1.52	637	0.287	<1	2.49	0.013	1.06	<0.1	<0.01	13.4	0.3	<0.05	10	<0.5	<0.2
0110007	Soil	12	35	0.66	283	0.097	<1	2.94	0.013	0.14	0.1	<0.01	5.2	0.2	<0.05	7	<0.5	<0.2
0110008	Soil	11	3	1.08	578	0.378	<1	2.91	0.012	1.33	<0.1	<0.01	10.2	0.3	<0.05	12	<0.5	<0.2
0110009	Soil	12	12	0.75	325	0.117	<1	2.20	0.018	0.28	<0.1	<0.01	5.3	0.1	<0.05	7	<0.5	<0.2
0110010	Soil	7	18	0.85	242	0.119	1	2.12	0.009	0.23	0.1	<0.01	3.8	0.1	<0.05	7	<0.5	<0.2
0110011	Soil	15	16	0.91	381	0.213	<1	2.39	0.013	0.66	<0.1	<0.01	8.8	0.2	<0.05	9	<0.5	<0.2
0110012	Soil	10	12	1.16	399	0.232	<1	3.07	0.014	0.77	<0.1	<0.01	7.3	0.2	<0.05	10	<0.5	<0.2
0110013	Soil	16	23	0.73	329	0.132	<1	1.60	0.014	0.19	0.1	<0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
0110014	Soil	17	32	0.57	371	0.096	<1	1.56	0.021	0.09	0.2	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
0110015	Soil	17	30	0.57	351	0.100	1	1.47	0.021	0.10	0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
0110016	Soil	1.1	18.9	6.0	60	<0.1	13.4	9.9	319	2.93	5.2	0.6	1.6	3.7	20	<0.1	0.3	0.1	70	0.34	0.040
0110017	Soil	0.7	30.2	5.6	69	<0.1	17.6	15.1	391	3.75	5.3	0.7	2.1	5.1	19	<0.1	0.4	<0.1	82	0.31	0.040
0110018	Soil	0.6	22.2	4.6	65	<0.1	13.6	11.2	439	3.24	3.7	0.8	<0.5	4.4	22	<0.1	0.3	<0.1	67	0.38	0.061
0110019	Soil	0.7	22.1	5.3	46	<0.1	11.1	9.7	283	2.59	3.6	0.5	1.2	3.0	19	<0.1	0.3	<0.1	59	0.33	0.048
0110020	Soil	0.4	28.3	3.5	47	<0.1	7.4	10.5	270	2.93	2.3	0.7	1.7	3.0	44	<0.1	0.2	<0.1	63	0.61	0.067
0110021	Soil	0.7	28.1	5.5	48	<0.1	18.5	13.1	355	2.62	4.6	0.5	0.9	3.1	38	<0.1	0.3	<0.1	67	0.58	0.048
0110022	Soil	1.6	25.8	10.4	49	<0.1	26.1	10.1	255	2.58	6.4	1.1	2.1	3.5	31	<0.1	0.5	0.1	65	0.44	0.041
0110023	Soil	1.1	20.0	8.6	47	<0.1	18.9	9.0	231	2.36	5.4	1.2	2.2	3.7	28	<0.1	0.5	0.1	61	0.37	0.030
0110024	Soil	1.1	5.2	2.6	30	<0.1	8.2	11.7	306	3.83	3.1	0.7	<0.5	4.3	11	<0.1	0.2	<0.1	85	0.39	0.050
0110025	Soil	1.5	15.6	22.7	62	<0.1	18.1	11.5	329	3.53	8.4	0.8	1.7	5.5	18	<0.1	0.6	0.2	72	0.21	0.030
0110026	Soil	2.0	11.4	2.7	79	<0.1	5.6	11.5	673	5.48	2.9	0.9	0.9	3.1	8	<0.1	0.4	0.1	81	0.14	0.034
0112001	Soil	0.4	17.1	4.6	49	<0.1	11.6	10.2	249	2.81	5.0	0.3	0.7	1.9	11	<0.1	0.3	0.2	74	0.38	0.087
0112002	Soil	0.8	31.8	5.3	31	<0.1	18.4	12.0	154	2.55	7.0	0.3	0.7	1.5	12	<0.1	0.4	0.1	60	0.30	0.034
0112003	Soil	0.4	26.9	2.2	36	<0.1	9.3	10.6	256	2.65	2.3	0.5	0.8	2.3	14	<0.1	0.2	<0.1	58	0.44	0.106
0112004	Soil	0.3	69.2	1.5	38	<0.1	10.3	13.6	309	2.48	1.4	0.3	<0.5	2.3	52	<0.1	0.2	0.2	75	0.45	0.025
0112005	Soil	0.1	33.6	1.6	47	<0.1	4.7	12.6	357	3.70	1.1	0.5	1.3	1.7	122	<0.1	0.1	<0.1	55	1.09	0.118
0112006	Soil	0.2	18.8	2.8	65	<0.1	6.9	21.0	542	4.53	2.5	0.4	1.6	0.8	120	0.1	0.6	<0.1	89	1.83	0.136
0112007	Soil	0.4	41.4	3.0	39	<0.1	6.7	10.7	215	2.35	2.8	0.5	2.1	2.0	51	<0.1	0.2	<0.1	63	0.58	0.037
0112008	Soil	0.6	26.3	4.2	58	<0.1	9.7	10.6	294	3.11	4.3	0.3	1.4	1.5	18	<0.1	0.2	<0.1	62	0.61	0.129
0112009	Soil	0.4	24.4	1.6	41	<0.1	5.6	8.6	279	2.70	2.1	0.2	0.6	1.1	16	<0.1	<0.1	<0.1	48	0.45	0.091
0112010	Soil	0.4	24.0	3.4	49	<0.1	7.9	10.0	244	2.90	2.9	0.5	<0.5	1.7	36	<0.1	0.2	<0.1	53	0.62	0.092
0112011	Soil	0.5	167.6	4.3	62	<0.1	12.4	14.9	595	4.17	3.8	0.9	<0.5	3.4	23	<0.1	0.3	<0.1	112	0.62	0.091
0112012	Soil	0.3	14.8	3.0	73	<0.1	8.8	20.2	580	4.65	2.1	0.5	1.1	2.9	48	<0.1	0.2	<0.1	121	0.69	0.051
0112013	Soil	0.3	49.4	1.2	79	<0.1	18.4	25.0	547	5.95	1.2	0.3	1.3	0.3	32	<0.1	<0.1	<0.1	184	0.85	0.099
0112014	Soil	0.6	10.5	5.0	73	<0.1	15.3	24.2	749	4.65	3.0	0.7	1.1	2.7	32	<0.1	0.6	<0.1	103	0.65	0.042
0112015	Soil	0.2	14.6	1.7	61	<0.1	5.0	11.1	409	3.57	1.9	0.6	0.6	3.6	19	<0.1	0.2	<0.1	67	0.63	0.093
0112016	Soil	0.2	32.0	3.2	77	<0.1	12.2	11.1	678	4.14	1.5	0.4	<0.5	5.3	13	<0.1	0.1	<0.1	78	0.23	0.048
0112017	Soil	0.8	13.1	7.8	49	<0.1	15.5	14.5	523	2.86	5.8	0.4	0.7	2.4	26	<0.1	0.3	<0.1	77	0.33	0.046
0112018	Soil	0.3	9.2	2.3	79	<0.1	4.1	10.0	706	3.91	0.6	0.6	0.6	5.6	19	<0.1	<0.1	<0.1	71	0.31	0.063
0112019	Soil	0.6	12.7	5.0	71	<0.1	10.9	11.4	327	3.19	3.3	0.4	<0.5	2.3	52	<0.1	0.2	<0.1	67	0.34	0.062

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0110016	Soil	11	25	0.68	234	0.147	<1	1.83	0.017	0.18	<0.1	<0.01	4.9	0.1	<0.05	6	<0.5	<0.2
0110017	Soil	10	31	0.68	236	0.159	<1	2.11	0.019	0.30	<0.1	<0.01	5.2	0.1	<0.05	7	<0.5	<0.2
0110018	Soil	13	22	0.74	373	0.201	<1	1.77	0.020	0.54	<0.1	<0.01	4.9	0.2	<0.05	6	<0.5	<0.2
0110019	Soil	9	22	0.56	205	0.130	<1	1.62	0.021	0.19	<0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
0110020	Soil	15	16	0.78	324	0.136	<1	2.11	0.033	0.19	<0.1	<0.01	6.4	<0.1	<0.05	6	<0.5	<0.2
0110021	Soil	11	31	0.66	246	0.127	<1	1.67	0.031	0.14	<0.1	<0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
0110022	Soil	13	45	0.56	234	0.112	<1	1.78	0.027	0.09	0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
0110023	Soil	13	34	0.51	203	0.112	<1	1.60	0.021	0.08	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
0110024	Soil	10	28	1.35	374	0.229	<1	2.64	0.032	0.72	<0.1	<0.01	7.3	0.2	<0.05	9	<0.5	<0.2
0110025	Soil	16	33	0.60	404	0.148	<1	2.37	0.012	0.23	0.1	0.01	4.0	0.1	<0.05	7	<0.5	<0.2
0110026	Soil	20	9	1.38	357	0.261	1	2.68	0.013	1.37	<0.1	<0.01	13.2	0.4	<0.05	13	<0.5	<0.2
0112001	Soil	4	18	0.74	226	0.129	<1	2.15	0.024	0.33	<0.1	<0.01	3.9	0.1	<0.05	6	<0.5	<0.2
0112002	Soil	5	22	0.42	193	0.070	<1	1.69	0.023	0.05	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
0112003	Soil	7	13	0.82	251	0.129	1	1.81	0.023	0.45	<0.1	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
0112004	Soil	6	13	1.05	226	0.103	<1	1.51	0.023	0.23	<0.1	<0.01	6.4	0.2	<0.05	6	<0.5	<0.2
0112005	Soil	7	9	0.97	191	0.048	<1	2.37	0.073	0.06	<0.1	0.01	9.7	<0.1	<0.05	8	<0.5	<0.2
0112006	Soil	4	45	1.47	118	0.101	<1	3.52	0.067	0.03	<0.1	<0.01	14.5	<0.1	<0.05	10	<0.5	<0.2
0112007	Soil	8	22	0.80	168	0.102	<1	1.68	0.041	0.07	<0.1	<0.01	6.3	<0.1	<0.05	5	<0.5	<0.2
0112008	Soil	3	15	0.73	279	0.115	<1	2.35	0.030	0.30	<0.1	<0.01	6.9	0.1	<0.05	7	<0.5	<0.2
0112009	Soil	2	10	0.63	215	0.131	<1	1.99	0.022	0.28	<0.1	<0.01	3.2	0.2	<0.05	6	<0.5	<0.2
0112010	Soil	8	29	0.77	194	0.102	<1	1.81	0.029	0.13	<0.1	<0.01	6.5	<0.1	<0.05	6	<0.5	<0.2
0112011	Soil	11	22	1.22	170	0.068	<1	2.31	0.040	0.08	<0.1	<0.01	9.1	<0.1	<0.05	9	<0.5	<0.2
0112012	Soil	12	10	1.59	115	0.040	<1	2.49	0.023	0.03	<0.1	0.02	11.9	<0.1	<0.05	9	<0.5	<0.2
0112013	Soil	3	25	1.67	93	0.043	<1	2.63	0.028	0.02	<0.1	<0.01	11.9	<0.1	<0.05	10	0.5	<0.2
0112014	Soil	8	215	1.84	126	0.074	<1	2.79	0.015	0.15	0.3	0.01	16.5	<0.1	<0.05	10	<0.5	<0.2
0112015	Soil	13	11	0.91	204	0.124	<1	1.95	0.045	0.34	<0.1	<0.01	10.0	<0.1	<0.05	8	<0.5	<0.2
0112016	Soil	9	13	0.95	250	0.306	<1	2.39	0.009	1.16	<0.1	<0.01	2.9	0.3	<0.05	10	<0.5	<0.2
0112017	Soil	6	25	0.92	276	0.113	<1	2.11	0.017	0.13	0.1	<0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
0112018	Soil	13	7	0.98	322	0.286	<1	2.18	0.009	1.15	<0.1	<0.01	4.4	0.3	<0.05	8	<0.5	<0.2
0112019	Soil	5	23	0.96	302	0.168	<1	2.33	0.017	0.49	<0.1	<0.01	5.2	0.1	<0.05	9	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0112020	Soil		0.7	14.8	5.4	69	<0.1	11.9	12.5	440	3.03	3.4	0.5	<0.5	3.4	28	<0.1	0.2	<0.1	58	0.47	0.069
0112021	Soil		0.5	13.0	4.0	72	<0.1	13.1	10.0	425	3.53	4.6	0.6	<0.5	4.5	21	<0.1	0.2	<0.1	64	0.29	0.036
0112022	Soil		0.5	15.8	4.0	64	<0.1	11.2	10.5	501	3.45	3.8	0.7	<0.5	3.3	16	<0.1	0.2	<0.1	64	0.38	0.074
0112023	Soil		0.6	12.6	3.6	72	<0.1	13.0	10.6	519	3.31	4.3	0.7	<0.5	5.0	21	<0.1	0.2	<0.1	64	0.30	0.038
0112024	Soil		0.3	26.1	1.4	47	<0.1	10.6	11.1	511	3.17	1.1	0.7	1.3	2.7	14	<0.1	0.1	<0.1	77	0.41	0.066
0112025	Soil		0.5	24.8	2.6	42	<0.1	11.7	10.7	270	2.82	2.5	0.7	1.0	2.4	20	<0.1	0.2	<0.1	73	0.49	0.077
0112026	Soil		0.5	21.4	1.4	19	<0.1	7.7	9.3	181	1.66	3.1	0.7	<0.5	3.1	11	<0.1	0.1	<0.1	42	0.41	0.086
0112027	Soil		0.6	39.1	4.4	46	<0.1	13.9	10.6	246	2.82	4.4	0.7	1.2	3.2	25	<0.1	0.3	0.2	64	0.48	0.067
0112028	Soil		0.8	27.2	6.8	59	<0.1	19.1	9.4	342	2.35	6.0	0.5	1.9	3.2	49	0.2	0.5	0.2	51	0.77	0.068
0112029	Soil		0.5	11.8	1.2	54	<0.1	3.3	16.2	463	3.69	1.3	0.4	<0.5	3.6	24	<0.1	0.2	<0.1	127	0.38	0.043
0112030	Soil		0.9	12.6	4.2	48	<0.1	16.2	12.6	300	2.72	4.4	0.4	<0.5	2.4	10	<0.1	0.3	<0.1	74	0.23	0.024
0112031	Soil		0.5	48.8	2.4	84	<0.1	5.6	10.0	533	3.68	2.7	0.9	<0.5	9.3	6	<0.1	0.2	<0.1	51	0.12	0.036
0112032	Soil		0.7	31.8	3.1	64	<0.1	36.7	16.4	674	3.27	0.9	0.6	1.3	1.4	20	<0.1	0.1	<0.1	97	0.49	0.030
0112033	Soil		0.8	27.7	5.5	78	<0.1	10.5	10.8	661	4.03	1.2	2.8	1.0	8.1	12	<0.1	0.2	<0.1	72	0.16	0.028
0112034	Soil		0.9	8.9	4.0	86	<0.1	6.0	9.6	980	4.37	1.6	1.6	<0.5	7.2	8	<0.1	0.1	<0.1	71	0.14	0.059
0112035	Soil		0.7	26.0	8.6	55	<0.1	19.3	10.3	270	3.05	8.5	1.0	1.9	4.1	19	<0.1	0.5	0.2	68	0.24	0.028
0112036	Soil		1.0	66.2	3.7	69	<0.1	12.4	12.2	619	4.41	14.5	1.4	<0.5	4.8	17	<0.1	0.3	<0.1	89	0.38	0.071
0112037	Soil		0.6	4.6	2.0	54	<0.1	6.9	19.7	453	4.26	1.9	0.3	<0.5	3.5	33	<0.1	0.2	<0.1	105	0.47	0.025
0112038	Soil		0.6	28.3	4.0	53	<0.1	11.8	12.9	394	3.53	3.0	0.5	<0.5	2.8	15	<0.1	0.2	<0.1	100	0.36	0.070
0112039	Soil		0.8	19.8	4.1	54	<0.1	15.4	11.8	357	3.47	6.0	0.7	2.1	3.5	18	<0.1	0.5	<0.1	89	0.31	0.038
0112040	Soil		0.7	18.4	4.3	57	<0.1	10.3	10.4	310	3.27	3.7	0.4	<0.5	3.2	9	<0.1	0.2	0.1	72	0.33	0.073
0112041	Soil		0.3	42.8	1.5	50	<0.1	26.8	12.4	225	2.98	0.6	0.3	1.5	0.6	15	<0.1	0.1	<0.1	95	0.43	0.034
0112042	Soil		1.5	36.1	10.3	63	<0.1	25.5	10.7	309	3.39	10.3	1.1	3.8	6.5	21	<0.1	0.7	0.2	73	0.25	0.028
0112043	Soil		1.1	50.3	5.1	59	<0.1	12.6	11.0	603	4.19	4.8	1.5	<0.5	11.9	14	<0.1	0.4	0.2	79	0.18	0.042
0112044	Soil		1.0	18.8	6.7	57	<0.1	13.9	10.0	642	3.62	6.1	1.1	0.6	8.8	15	0.1	0.4	0.2	63	0.20	0.044
0112045	Soil		0.9	31.3	3.3	46	<0.1	18.2	14.7	497	3.36	6.9	2.1	0.9	1.4	45	<0.1	0.2	<0.1	115	0.53	0.057
0112046	Soil		1.4	9.2	6.7	86	<0.1	10.9	8.4	731	3.94	4.2	1.0	0.5	10.6	15	<0.1	0.4	<0.1	40	0.22	0.046
0112047	Soil		2.2	23.0	3.9	79	<0.1	11.4	7.6	526	3.08	3.6	0.8	2.7	6.8	12	<0.1	0.2	<0.1	46	0.24	0.041
0112048	Soil		0.5	14.7	4.5	75	<0.1	6.8	5.2	434	2.71	4.0	0.5	<0.5	6.9	12	<0.1	0.2	<0.1	34	0.20	0.036
0112049	Soil		0.7	14.8	6.0	75	<0.1	11.0	8.7	577	3.41	4.8	0.8	0.6	6.4	17	<0.1	0.4	<0.1	55	0.24	0.037

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0112020	Soil	7	22	0.77	280	0.134	<1	1.99	0.020	0.28	<0.1	<0.01	5.4	<0.1	<0.05	8	<0.5	<0.2
0112021	Soil	6	33	0.86	283	0.187	<1	2.38	0.016	0.59	<0.1	0.01	6.5	0.2	<0.05	8	<0.5	<0.2
0112022	Soil	6	27	0.76	251	0.151	<1	1.92	0.015	0.56	<0.1	<0.01	6.5	0.1	<0.05	8	<0.5	<0.2
0112023	Soil	7	32	0.81	307	0.189	<1	2.27	0.017	0.56	<0.1	<0.01	6.7	0.2	<0.05	8	<0.5	<0.2
0112024	Soil	15	20	0.75	310	0.148	<1	1.44	0.020	0.42	<0.1	0.02	8.7	0.1	<0.05	7	0.5	<0.2
0112025	Soil	10	23	0.60	203	0.082	<1	1.66	0.024	0.23	<0.1	<0.01	8.3	<0.1	<0.05	6	<0.5	<0.2
0112026	Soil	12	17	0.41	111	0.070	<1	1.12	0.021	0.11	<0.1	<0.01	4.5	<0.1	<0.05	4	0.5	<0.2
0112027	Soil	14	25	0.74	192	0.102	<1	1.68	0.024	0.13	<0.1	0.03	8.1	<0.1	<0.05	6	<0.5	<0.2
0112028	Soil	11	24	0.59	235	0.088	<1	1.55	0.034	0.10	0.2	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
0112029	Soil	7	5	1.33	464	0.196	<1	2.05	0.022	0.70	<0.1	0.02	8.5	0.3	<0.05	7	<0.5	<0.2
0112030	Soil	6	53	1.01	216	0.135	<1	1.75	0.018	0.36	<0.1	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
0112031	Soil	17	10	0.92	228	0.203	<1	1.81	0.007	0.95	<0.1	0.01	11.5	0.2	<0.05	9	<0.5	<0.2
0112032	Soil	9	116	1.21	252	0.124	<1	1.95	0.023	0.36	<0.1	0.03	11.5	0.2	<0.05	7	<0.5	<0.2
0112033	Soil	23	20	0.84	271	0.137	<1	1.77	0.007	0.70	<0.1	0.11	12.4	0.3	<0.05	9	0.5	<0.2
0112034	Soil	19	13	1.16	330	0.240	<1	2.29	0.009	1.24	<0.1	0.03	9.0	0.4	<0.05	11	<0.5	<0.2
0112035	Soil	13	32	0.60	284	0.068	1	1.78	0.011	0.04	<0.1	0.04	4.6	<0.1	<0.05	6	<0.5	<0.2
0112036	Soil	20	17	0.71	309	0.096	<1	1.68	0.021	0.43	<0.1	0.04	12.1	0.1	<0.05	8	<0.5	<0.2
0112037	Soil	6	12	1.45	297	0.070	<1	2.60	0.021	0.18	<0.1	0.03	7.2	<0.1	<0.05	8	<0.5	<0.2
0112038	Soil	7	23	0.50	253	0.061	1	1.38	0.022	0.21	<0.1	0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
0112039	Soil	15	26	0.86	125	0.057	<1	1.78	0.013	0.07	<0.1	0.05	9.0	<0.1	<0.05	7	<0.5	<0.2
0112040	Soil	5	21	0.91	175	0.133	<1	1.95	0.023	0.44	<0.1	0.01	4.6	0.2	<0.05	7	<0.5	<0.2
0112041	Soil	13	112	1.03	104	0.060	<1	1.58	0.024	0.04	<0.1	0.01	9.9	<0.1	<0.05	5	<0.5	<0.2
0112042	Soil	20	38	0.66	237	0.103	1	1.76	0.009	0.28	0.1	0.03	7.6	0.1	<0.05	6	<0.5	<0.2
0112043	Soil	29	20	0.76	235	0.174	<1	2.16	0.008	0.84	<0.1	0.02	9.4	0.4	<0.05	9	<0.5	<0.2
0112044	Soil	22	20	0.61	232	0.137	1	1.99	0.008	0.56	<0.1	0.01	6.6	0.3	<0.05	8	<0.5	<0.2
0112045	Soil	12	27	0.69	281	0.061	<1	1.62	0.025	0.14	<0.1	0.01	7.9	<0.1	<0.05	6	<0.5	<0.2
0112046	Soil	35	14	0.64	282	0.139	<1	2.22	0.010	0.85	<0.1	0.01	10.2	0.3	<0.05	10	<0.5	<0.2
0112047	Soil	20	13	0.60	193	0.157	<1	1.70	0.010	0.69	<0.1	0.01	5.7	0.3	<0.05	7	<0.5	<0.2
0112048	Soil	18	11	0.49	158	0.098	<1	1.66	0.007	0.51	<0.1	0.01	5.1	0.3	<0.05	7	<0.5	<0.2
0112049	Soil	12	18	0.65	332	0.167	<1	2.03	0.008	0.61	<0.1	0.01	6.0	0.2	<0.05	8	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0112050	Soil	3.0	25.2	12.4	70	0.1	17.9	9.2	310	3.88	8.6	1.1	308.5	4.6	28	0.1	1.1	<0.1	51	0.40	0.033
0112051	Soil	1.6	23.9	8.6	75	<0.1	19.6	14.4	961	4.18	4.2	0.5	0.7	4.4	28	<0.1	0.6	<0.1	71	0.46	0.052
0112052	Soil	1.0	12.6	2.2	73	<0.1	12.8	13.5	617	4.38	2.1	0.3	<0.5	2.5	23	<0.1	0.2	<0.1	94	0.43	0.055
0112053	Soil	0.9	22.3	2.9	84	<0.1	9.9	14.9	664	4.87	3.2	0.9	0.8	4.7	17	<0.1	0.2	<0.1	90	0.35	0.070
0112054	Soil	1.1	11.6	5.9	79	<0.1	8.5	9.2	691	3.71	4.4	1.3	<0.5	9.4	14	<0.1	0.5	0.1	52	0.18	0.040
0111001	Soil	0.6	14.8	0.8	46	<0.1	2.4	13.7	668	3.64	0.5	1.6	1.3	4.7	17	<0.1	0.2	<0.1	31	0.80	0.311
0111002	Soil	1.5	35.6	1.4	38	<0.1	2.4	14.9	241	3.44	0.7	1.0	<0.5	4.1	10	<0.1	0.2	0.2	33	0.42	0.163
0111003	Soil	0.5	15.0	3.2	54	<0.1	7.7	14.3	554	4.64	1.0	1.5	0.6	6.1	35	<0.1	0.2	<0.1	56	0.59	0.101
0111004	Soil	0.3	9.5	0.9	53	<0.1	5.1	15.8	332	3.13	0.7	0.5	<0.5	2.0	9	<0.1	0.1	<0.1	110	0.57	0.155
0111005	Soil	0.5	18.0	4.0	40	<0.1	9.3	8.6	297	2.94	2.4	1.4	1.7	7.5	18	<0.1	0.2	<0.1	52	0.37	0.058
0111006	Soil	0.5	6.9	1.7	19	<0.1	5.0	10.0	434	3.12	0.9	1.3	1.1	5.8	18	<0.1	0.1	<0.1	47	0.49	0.131
0111007	Soil	0.8	21.0	7.2	43	<0.1	18.1	8.6	257	2.77	7.1	0.9	<0.5	5.7	19	<0.1	0.4	0.1	47	0.23	0.025
0111008	Soil	0.9	11.0	8.0	40	<0.1	12.1	8.5	430	3.74	7.9	0.6	0.6	3.8	11	<0.1	0.3	<0.1	48	0.13	0.041
0111009	Soil	0.5	5.9	3.6	34	<0.1	4.9	5.5	276	2.59	3.1	0.6	<0.5	4.6	10	<0.1	0.2	<0.1	32	0.16	0.052
0111010	Soil	0.9	5.1	3.8	86	<0.1	4.2	14.8	949	5.36	3.5	0.2	<0.5	1.2	11	<0.1	0.2	<0.1	87	0.25	0.077
0111011	Soil	1.6	9.0	4.3	92	<0.1	7.2	9.3	386	5.25	5.8	1.0	<0.5	7.1	12	<0.1	0.2	<0.1	73	0.09	0.044
0111012	Soil	0.7	48.0	4.3	71	<0.1	15.4	11.9	463	4.39	1.4	1.1	1.3	6.3	25	<0.1	0.3	<0.1	78	0.36	0.014
0111013	Soil	1.2	27.3	7.0	66	<0.1	13.3	9.8	416	3.18	6.3	0.8	<0.5	7.6	14	<0.1	0.3	0.2	61	0.17	0.031
0111014	Soil	0.9	30.9	3.8	90	<0.1	10.1	14.4	552	5.09	2.7	0.7	<0.5	6.8	19	0.2	0.2	0.2	90	0.59	0.147
0111015	Soil	0.7	24.5	6.6	49	<0.1	20.4	8.5	398	2.11	9.2	0.5	2.1	3.4	54	0.2	0.6	0.1	40	1.65	0.080
0111016	Soil	0.4	38.5	2.9	44	<0.1	8.6	10.5	303	2.86	1.3	0.4	<0.5	3.1	16	<0.1	0.2	<0.1	64	0.35	0.072
0111017	Soil	0.3	28.2	1.8	56	<0.1	6.4	17.2	444	3.36	0.9	0.3	0.8	2.1	35	<0.1	0.1	<0.1	58	0.62	0.126
0111018	Soil	0.7	15.9	5.6	73	<0.1	10.0	12.0	399	4.12	3.5	0.7	<0.5	3.7	25	0.1	0.3	<0.1	64	0.38	0.085
0111019	Soil	0.3	28.7	2.0	51	<0.1	12.8	17.7	610	3.49	1.5	0.2	0.8	1.3	52	<0.1	0.3	<0.1	75	0.83	0.080
0111020	Soil	0.5	42.6	2.5	40	<0.1	8.2	16.6	265	3.22	2.2	0.6	<0.5	1.7	40	<0.1	0.3	<0.1	87	0.69	0.091
0111021	Soil	1.9	45.0	3.0	66	<0.1	18.3	25.2	400	5.37	5.4	0.7	1.4	1.8	128	<0.1	0.7	<0.1	181	0.86	0.080
0111022	Soil	1.0	21.8	3.3	60	<0.1	5.3	17.8	1039	4.13	0.9	0.6	0.7	2.2	65	<0.1	0.2	<0.1	83	0.88	0.072
0111023	Soil	1.3	36.0	3.9	60	<0.1	17.8	22.9	652	4.64	2.4	1.3	1.2	2.1	43	<0.1	0.3	<0.1	98	0.62	0.069
0111024	Soil	1.2	31.2	8.6	48	<0.1	21.8	13.8	286	2.81	6.1	0.6	3.2	2.3	19	0.1	0.5	<0.1	64	0.32	0.035
0111025	Soil	0.7	52.7	2.5	47	<0.1	15.3	15.5	458	2.98	2.7	0.5	1.7	1.5	28	<0.1	0.4	<0.1	60	0.55	0.074

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0112050	Soil	27	26	0.59	286	0.017	<1	2.28	0.007	0.19	<0.1	0.26	4.7	<0.1	<0.05	8	<0.5	<0.2
0112051	Soil	8	32	0.82	257	0.030	<1	2.20	0.007	0.25	<0.1	0.04	7.8	<0.1	<0.05	8	<0.5	<0.2
0112052	Soil	6	25	0.99	328	0.096	<1	1.87	0.026	0.43	<0.1	0.01	7.5	<0.1	<0.05	7	<0.5	<0.2
0112053	Soil	16	17	1.31	392	0.220	<1	2.64	0.010	1.16	<0.1	0.03	7.8	0.3	<0.05	10	<0.5	<0.2
0112054	Soil	24	13	0.60	258	0.157	<1	1.76	0.008	0.63	<0.1	<0.01	5.7	0.3	<0.05	8	<0.5	<0.2
0111001	Soil	12	4	1.04	494	0.055	<1	1.72	0.006	0.26	<0.1	0.02	9.8	<0.1	<0.05	8	<0.5	<0.2
0111002	Soil	13	3	1.33	587	0.082	<1	2.14	0.013	0.51	<0.1	<0.01	7.6	<0.1	<0.05	11	<0.5	<0.2
0111003	Soil	36	13	1.23	591	0.007	<1	2.48	0.009	0.07	<0.1	0.02	12.5	<0.1	<0.05	11	<0.5	<0.2
0111004	Soil	5	8	0.81	517	0.128	<1	1.72	0.029	0.61	<0.1	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
0111005	Soil	24	14	0.98	518	0.094	<1	1.78	0.011	0.19	<0.1	0.03	9.1	<0.1	<0.05	8	<0.5	<0.2
0111006	Soil	15	10	1.11	623	0.161	<1	2.05	0.018	0.76	<0.1	<0.01	10.5	0.2	<0.05	8	<0.5	<0.2
0111007	Soil	18	28	0.63	378	0.097	<1	1.73	0.010	0.13	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
0111008	Soil	12	23	0.78	415	0.139	<1	2.33	0.007	0.55	0.1	0.02	7.7	0.2	<0.05	9	<0.5	<0.2
0111009	Soil	8	9	0.69	321	0.107	<1	1.69	0.008	0.46	<0.1	<0.01	7.1	0.1	<0.05	7	<0.5	<0.2
0111010	Soil	5	6	1.15	648	0.308	<1	2.98	0.008	1.47	<0.1	<0.01	5.6	0.3	<0.05	10	<0.5	<0.2
0111011	Soil	22	9	0.71	337	0.259	<1	2.66	0.008	1.00	<0.1	<0.01	10.8	0.3	<0.05	12	<0.5	<0.2
0111012	Soil	39	29	0.66	592	0.055	<1	1.71	0.019	0.11	<0.1	0.01	11.9	<0.1	<0.05	7	<0.5	<0.2
0111013	Soil	15	20	0.67	262	0.127	<1	1.68	0.007	0.44	<0.1	0.02	7.1	0.2	<0.05	7	<0.5	<0.2
0111014	Soil	14	26	0.98	304	0.163	<1	2.29	0.016	1.12	<0.1	0.01	9.2	0.3	<0.05	9	<0.5	<0.2
0111015	Soil	12	20	0.68	259	0.057	<1	0.99	0.024	0.07	0.2	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
0111016	Soil	6	13	0.67	295	0.153	<1	1.75	0.018	0.50	<0.1	<0.01	4.5	0.2	0.06	6	<0.5	<0.2
0111017	Soil	7	11	1.49	405	0.210	<1	2.26	0.029	0.69	<0.1	<0.01	4.7	0.2	<0.05	6	<0.5	<0.2
0111018	Soil	6	19	0.80	421	0.171	<1	2.45	0.022	0.63	<0.1	<0.01	5.7	0.2	<0.05	8	<0.5	<0.2
0111019	Soil	6	30	1.30	238	0.032	<1	1.87	0.026	0.08	<0.1	0.03	7.9	<0.1	<0.05	6	<0.5	<0.2
0111020	Soil	4	19	1.01	170	0.097	<1	1.83	0.038	0.16	<0.1	0.02	6.5	<0.1	<0.05	6	<0.5	<0.2
0111021	Soil	6	31	1.52	269	0.076	1	2.70	0.044	0.09	<0.1	0.05	11.2	<0.1	<0.05	10	<0.5	<0.2
0111022	Soil	9	7	0.92	299	0.047	<1	2.20	0.045	0.18	<0.1	0.02	8.1	<0.1	<0.05	7	<0.5	<0.2
0111023	Soil	9	32	0.90	190	0.099	<1	1.93	0.033	0.17	<0.1	0.03	8.8	<0.1	<0.05	8	<0.5	<0.2
0111024	Soil	10	35	0.54	193	0.071	<1	1.71	0.015	0.03	<0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
0111025	Soil	9	22	0.62	178	0.078	<1	1.70	0.029	0.06	<0.1	0.03	7.6	<0.1	<0.05	5	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	0.001
0111026	Soil	0.8	27.5	2.6	48	<0.1	8.3	12.9	296	3.05	2.4	0.6	1.1	2.0	23	<0.1	0.2	<0.1	46	0.57	0.127
0111027	Soil	1.1	43.0	1.3	85	<0.1	11.7	14.1	570	3.84	0.5	0.9	1.2	3.5	70	<0.1	<0.1	<0.1	67	0.55	0.112
0111028	Soil	1.0	31.0	3.0	84	<0.1	7.0	24.5	725	4.61	2.4	0.4	0.8	2.6	28	<0.1	0.2	<0.1	65	0.80	0.153
0111029	Soil	0.8	22.8	1.0	36	<0.1	3.8	11.6	253	2.26	1.0	0.3	1.4	1.5	10	<0.1	<0.1	<0.1	46	0.48	0.094
0111030	Soil	0.6	71.4	4.4	39	<0.1	8.8	12.3	229	3.31	3.1	0.7	1.8	2.5	15	<0.1	0.3	<0.1	65	0.46	0.081
0111031	Soil	0.2	10.6	1.5	43	<0.1	3.1	10.1	288	2.64	0.7	0.4	0.6	2.6	23	<0.1	<0.1	<0.1	75	0.70	0.075
0111032	Soil	0.4	42.0	2.4	45	<0.1	22.1	16.3	567	4.19	2.4	1.0	0.7	15.2	13	<0.1	0.1	<0.1	89	0.31	0.084
0111033	Soil	0.6	32.2	2.9	57	<0.1	6.7	16.1	722	3.89	1.4	0.4	0.8	2.6	24	<0.1	0.2	<0.1	84	0.54	0.056
0111034	Soil	0.4	7.3	3.2	21	<0.1	28.2	13.3	511	3.92	1.1	2.0	<0.5	23.4	18	<0.1	0.1	<0.1	53	0.76	0.264
0111035	Soil	0.8	43.8	5.9	64	<0.1	17.4	16.4	487	4.28	5.1	0.7	2.6	4.1	26	<0.1	0.4	<0.1	76	0.69	0.120
0111036	Soil	0.4	40.0	1.3	76	<0.1	5.8	16.1	498	4.23	1.5	0.4	<0.5	4.4	14	<0.1	0.1	<0.1	67	0.58	0.099
0111037	Soil	0.3	16.7	1.7	35	<0.1	14.2	14.6	566	3.47	0.9	0.8	<0.5	5.1	41	<0.1	<0.1	<0.1	81	0.50	0.065
0111038	Soil	0.4	22.4	1.9	46	<0.1	5.7	12.6	327	3.62	1.5	0.5	1.2	3.2	23	<0.1	0.2	<0.1	55	0.50	0.067
0111039	Soil	0.4	32.6	3.3	73	<0.1	7.0	11.5	437	4.15	2.8	0.7	0.6	4.9	25	<0.1	0.2	<0.1	81	0.75	0.094
0111040	Soil	0.4	33.2	2.6	58	<0.1	8.7	14.6	674	3.87	3.2	0.7	1.0	4.0	23	<0.1	0.2	<0.1	73	0.54	0.076
0111041	Soil	0.3	23.3	3.1	38	<0.1	12.3	9.9	307	2.65	1.9	0.7	1.1	3.3	26	<0.1	0.1	<0.1	51	0.65	0.126
0111042	Soil	0.4	13.6	2.8	29	<0.1	11.0	10.5	354	2.67	1.9	0.5	0.5	2.0	41	<0.1	0.2	<0.1	89	0.60	0.072
0111043	Soil	0.4	33.0	4.7	32	<0.1	9.9	10.6	215	2.36	5.5	0.4	0.7	1.6	15	<0.1	0.2	<0.1	60	0.48	0.059
0111044	Soil	0.2	16.6	2.2	111	<0.1	14.0	23.8	895	6.19	2.1	1.2	1.1	1.5	55	<0.1	0.3	<0.1	87	0.92	0.089
0111045	Soil	0.8	16.5	5.1	39	<0.1	11.2	10.5	415	3.53	1.8	0.8	1.6	3.0	13	<0.1	0.1	<0.1	69	0.56	0.078
0111046	Soil	0.5	16.6	1.2	86	<0.1	4.4	9.9	839	4.39	0.7	0.6	0.6	4.5	16	<0.1	<0.1	<0.1	27	0.39	0.107
0111047	Soil	0.8	47.6	5.8	35	<0.1	16.3	11.2	375	3.12	4.7	0.9	4.0	2.3	18	<0.1	0.4	<0.1	72	0.53	0.038
0111048	Soil	0.4	27.9	1.7	33	<0.1	20.3	12.4	381	2.47	1.8	0.4	1.1	1.8	17	<0.1	0.1	<0.1	46	0.53	0.080
0111049	Soil	1.0	10.9	3.8	89	<0.1	42.5	21.7	930	5.58	3.6	0.7	<0.5	3.7	37	<0.1	0.2	<0.1	89	1.04	0.279
0111050	Soil	0.3	6.3	1.1	28	<0.1	8.3	10.1	432	2.39	1.1	0.2	<0.5	0.6	24	<0.1	<0.1	<0.1	57	0.56	0.041
0111051	Soil	0.3	10.1	1.7	35	<0.1	6.5	11.4	414	3.51	1.0	0.3	0.9	1.2	18	<0.1	0.3	<0.1	80	0.89	0.086
0111052	Soil	1.1	23.7	10.2	45	<0.1	19.8	7.9	267	2.99	8.9	1.0	4.1	4.4	39	<0.1	0.6	0.2	59	0.23	0.021
100028	Soil	1.2	10.9	2.8	54	<0.1	6.7	16.2	350	4.63	2.8	0.7	1.0	2.8	37	<0.1	0.4	<0.1	82	0.37	0.035
100029	Soil	0.8	27.8	3.7	43	<0.1	9.9	11.3	235	3.00	4.0	0.4	0.9	2.2	30	<0.1	0.3	<0.1	65	0.43	0.036
100030	Soil	1.0	16.4	9.8	43	<0.1	18.6	8.5	223	3.07	10.1	0.4	1.1	2.9	13	<0.1	0.6	0.2	63	0.12	0.035

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0111026	Soil	8	11	0.60	242	0.092	<1	1.61	0.031	0.23	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
0111027	Soil	13	18	0.98	850	0.165	<1	1.92	0.024	0.65	<0.1	<0.01	5.7	0.1	<0.05	6	<0.5	<0.2
0111028	Soil	5	11	0.98	408	0.122	<1	2.35	0.033	0.17	<0.1	<0.01	4.5	<0.1	<0.05	7	<0.5	<0.2
0111029	Soil	6	7	0.69	178	0.124	<1	1.49	0.035	0.28	<0.1	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2
0111030	Soil	12	16	0.51	183	0.086	<1	1.40	0.027	0.16	<0.1	<0.01	7.5	<0.1	<0.05	5	<0.5	<0.2
0111031	Soil	7	5	0.85	325	0.095	1	1.94	0.063	0.38	<0.1	<0.01	6.0	<0.1	<0.05	5	<0.5	<0.2
0111032	Soil	44	61	1.24	570	0.321	<1	2.35	0.012	1.23	<0.1	<0.01	7.2	0.4	<0.05	10	<0.5	<0.2
0111033	Soil	7	11	0.91	415	0.092	<1	2.01	0.026	0.44	<0.1	0.03	7.3	0.1	<0.05	6	<0.5	<0.2
0111034	Soil	33	53	1.09	345	0.136	<1	2.46	0.011	1.09	<0.1	<0.01	6.5	0.2	<0.05	8	<0.5	<0.2
0111035	Soil	16	22	0.77	298	0.046	1	1.97	0.025	0.24	<0.1	0.07	11.2	<0.1	<0.05	7	<0.5	<0.2
0111036	Soil	9	19	1.02	286	0.174	<1	2.49	0.036	0.52	<0.1	<0.01	7.1	0.1	<0.05	9	<0.5	<0.2
0111037	Soil	22	37	0.96	558	0.129	<1	1.59	0.032	0.48	<0.1	<0.01	9.2	0.2	<0.05	7	<0.5	<0.2
0111038	Soil	16	11	0.70	282	0.094	<1	1.52	0.030	0.27	<0.1	0.01	6.3	0.1	<0.05	5	<0.5	<0.2
0111039	Soil	13	14	0.79	301	0.109	<1	2.19	0.050	0.28	<0.1	<0.01	7.9	<0.1	<0.05	8	<0.5	<0.2
0111040	Soil	17	13	0.74	310	0.108	<1	1.97	0.035	0.34	<0.1	0.01	7.5	<0.1	<0.05	7	<0.5	<0.2
0111041	Soil	11	30	0.77	378	0.120	<1	1.76	0.041	0.37	<0.1	<0.01	5.4	0.1	<0.05	5	<0.5	<0.2
0111042	Soil	12	17	0.59	486	0.056	<1	1.51	0.046	0.10	<0.1	<0.01	6.1	<0.1	<0.05	5	<0.5	<0.2
0111043	Soil	6	12	0.46	246	0.052	<1	1.94	0.048	0.11	<0.1	<0.01	4.8	0.1	<0.05	5	<0.5	<0.2
0111044	Soil	15	56	1.11	366	0.002	<1	2.51	0.008	0.10	<0.1	<0.01	16.0	<0.1	<0.05	9	<0.5	<0.2
0111045	Soil	14	20	0.47	150	0.054	1	1.06	0.054	0.03	<0.1	0.01	7.7	<0.1	<0.05	4	<0.5	<0.2
0111046	Soil	22	21	0.69	456	0.174	<1	1.89	0.007	0.94	<0.1	<0.01	11.5	0.2	<0.05	8	<0.5	<0.2
0111047	Soil	10	36	0.53	259	0.056	<1	1.56	0.035	0.04	<0.1	0.02	6.8	<0.1	<0.05	5	<0.5	<0.2
0111048	Soil	14	61	0.73	367	0.081	<1	1.43	0.029	0.19	<0.1	<0.01	7.6	0.1	<0.05	4	<0.5	<0.2
0111049	Soil	16	204	1.32	351	0.007	<1	2.58	0.011	0.04	<0.1	0.01	12.1	<0.1	<0.05	10	0.9	<0.2
0111050	Soil	4	13	0.44	259	0.011	<1	1.10	0.036	0.04	<0.1	<0.01	7.3	<0.1	<0.05	3	<0.5	<0.2
0111051	Soil	5	9	0.71	201	0.033	2	2.04	0.074	0.04	<0.1	<0.01	9.4	<0.1	<0.05	6	<0.5	<0.2
0111052	Soil	14	38	0.45	371	0.055	1	1.75	0.008	0.05	<0.1	0.03	5.8	<0.1	<0.05	6	<0.5	<0.2
100028	Soil	6	15	0.73	294	0.068	<1	2.33	0.024	0.12	<0.1	0.02	8.0	<0.1	<0.05	7	<0.5	<0.2
100029	Soil	6	19	0.65	216	0.050	<1	1.91	0.024	0.04	<0.1	0.01	5.6	<0.1	<0.05	5	<0.5	<0.2
100030	Soil	8	32	0.46	209	0.064	<1	2.06	0.007	0.05	0.1	0.01	2.2	0.1	<0.05	5	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
100031	Soil		0.5	19.2	1.5	47	<0.1	4.7	7.4	222	2.68	1.8	0.6	1.3	2.6	56	<0.1	0.2	<0.1	52	0.49	0.058
100032	Soil		0.3	36.9	2.2	26	<0.1	16.1	11.6	201	2.18	3.2	0.5	1.7	2.0	64	<0.1	0.2	<0.1	57	0.42	0.035
100033	Soil		0.9	22.0	3.9	60	<0.1	10.9	10.4	294	3.30	4.3	0.6	1.4	2.6	21	<0.1	0.3	<0.1	55	0.42	0.066
100034	Soil		0.5	22.9	4.8	26	<0.1	14.5	6.9	185	1.96	3.6	0.3	1.0	1.8	15	<0.1	0.3	<0.1	55	0.35	0.018
100035	Soil		0.4	28.6	1.5	51	<0.1	5.3	12.7	278	3.21	2.0	0.4	<0.5	2.2	10	<0.1	0.1	<0.1	52	0.57	0.128
100036	Soil		0.5	20.9	4.0	27	<0.1	8.2	6.5	219	1.96	3.1	0.3	1.2	1.6	18	<0.1	0.2	<0.1	45	0.40	0.035
100037	Soil		0.3	22.0	1.9	27	<0.1	5.9	7.6	151	1.96	1.5	0.2	<0.5	1.3	13	<0.1	0.1	<0.1	50	0.49	0.057
100038	Soil		0.5	24.0	3.5	40	<0.1	10.5	7.8	263	2.75	4.3	0.5	1.7	1.8	29	<0.1	0.3	<0.1	47	0.53	0.039
100039	Soil		0.8	28.1	4.3	51	<0.1	11.4	14.1	325	3.25	4.9	0.4	0.5	2.3	24	<0.1	0.3	0.2	69	0.45	0.069
100040	Soil		0.6	24.5	4.6	46	<0.1	11.3	12.7	286	2.84	5.3	0.5	1.2	2.6	18	<0.1	0.3	<0.1	59	0.40	0.071
100041	Soil		0.8	39.6	11.2	103	<0.1	26.6	15.1	729	4.93	4.6	1.9	2.6	20.4	17	<0.1	0.3	0.2	67	0.21	0.053
100042	Soil		1.0	19.8	9.8	66	<0.1	20.9	9.6	326	3.06	8.3	1.2	3.1	6.9	19	0.1	0.5	0.2	52	0.23	0.046
100043	Soil		1.0	23.1	6.9	61	<0.1	22.7	9.0	318	3.13	5.6	1.1	4.5	6.2	18	<0.1	0.4	0.1	50	0.18	0.034
100044	Soil		0.9	52.8	11.4	119	<0.1	73.3	21.6	843	3.10	5.4	1.5	2.4	4.1	13	<0.1	0.3	<0.1	91	0.24	0.056
100045	Soil		0.5	26.3	8.7	67	<0.1	15.4	6.5	419	2.84	5.6	1.3	2.9	10.0	16	<0.1	0.4	0.2	36	0.22	0.020
100046	Soil		2.0	68.3	8.5	68	<0.1	53.0	17.4	280	4.81	8.1	1.8	1.5	8.9	7	<0.1	0.3	0.2	84	0.09	0.058
100047	Soil		1.1	53.7	21.7	80	0.2	28.3	8.5	224	4.69	4.8	1.0	3.6	7.8	23	<0.1	0.4	0.2	62	0.21	0.032
100048	Soil		0.7	34.4	13.1	55	<0.1	14.9	6.5	233	4.14	4.4	1.0	2.4	14.3	21	<0.1	0.3	0.2	35	0.07	0.038
100049	Soil		0.6	39.3	27.4	82	0.2	20.0	6.0	378	3.74	2.6	1.5	3.2	21.3	20	<0.1	0.1	0.3	37	0.07	0.037
100050	Soil		2.3	39.6	17.0	109	0.2	16.1	3.7	283	5.43	13.0	1.8	2.7	14.3	23	<0.1	0.2	0.4	87	0.17	0.085
100051	Soil		0.6	28.6	12.8	125	<0.1	11.5	6.5	579	4.09	1.4	1.3	0.7	17.4	9	<0.1	0.2	0.1	19	0.10	0.017
100052	Soil		0.5	30.7	7.7	83	0.1	22.7	15.5	657	4.56	2.9	0.6	2.2	3.4	57	0.2	0.2	<0.1	111	0.56	0.066
100053	Soil		2.3	65.3	13.3	82	0.2	40.3	15.6	372	3.70	4.0	1.5	3.7	9.2	16	0.1	0.3	0.2	73	0.44	0.103
100054	Soil		0.7	22.2	9.0	75	0.1	21.5	11.2	519	3.06	6.5	1.7	4.3	5.4	25	0.3	0.3	0.2	44	0.46	0.069
0110027	Soil		1.4	17.7	9.2	48	<0.1	14.8	7.1	245	3.09	7.7	0.9	2.4	4.3	16	<0.1	0.5	0.2	61	0.16	0.023
0110028	Soil		1.7	16.8	4.8	72	<0.1	10.6	12.0	940	3.99	3.1	0.9	0.6	4.7	11	<0.1	0.3	<0.1	86	0.15	0.040
0110029	Soil		1.7	13.8	8.6	63	<0.1	15.0	9.5	405	4.21	9.4	0.8	1.5	4.4	16	<0.1	0.4	0.1	84	0.22	0.060
0110030	Soil		0.8	12.3	5.3	56	<0.1	11.5	9.7	396	3.60	4.3	0.6	3.0	3.5	22	<0.1	0.3	<0.1	52	0.29	0.042
0110031	Soil		1.6	12.9	6.8	57	<0.1	13.9	7.7	326	3.51	7.1	0.6	1.9	3.4	16	<0.1	0.4	0.1	63	0.19	0.029
0110032	Soil		0.5	12.9	7.3	52	<0.1	13.5	7.3	463	2.01	5.1	1.5	1.5	3.7	50	0.2	0.4	0.1	36	0.52	0.069

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
100031	Soil	6	14	0.59	352	0.045	<1	1.76	0.030	0.03	<0.1	<0.01	5.9	<0.1	<0.05	5	<0.5	<0.2
100032	Soil	8	37	0.56	529	0.070	1	1.42	0.032	0.04	<0.1	<0.01	5.1	<0.1	<0.05	4	<0.5	<0.2
100033	Soil	9	21	0.78	253	0.091	<1	2.12	0.021	0.14	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
100034	Soil	6	28	0.46	151	0.048	<1	1.28	0.024	0.04	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
100035	Soil	8	9	0.86	175	0.132	<1	1.89	0.036	0.46	<0.1	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
100036	Soil	6	15	0.48	150	0.040	<1	1.84	0.041	0.03	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
100037	Soil	4	18	0.53	108	0.070	<1	1.85	0.043	0.06	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
100038	Soil	7	29	0.66	253	0.034	<1	2.00	0.043	0.04	<0.1	0.01	6.6	<0.1	<0.05	5	<0.5	<0.2
100039	Soil	7	17	0.77	229	0.054	<1	2.32	0.023	0.08	<0.1	0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
100040	Soil	8	18	0.65	220	0.069	<1	2.08	0.026	0.14	<0.1	0.01	3.9	<0.1	<0.05	5	0.6	<0.2
100041	Soil	48	74	1.34	242	0.223	<1	3.13	0.009	0.93	0.1	<0.01	6.2	0.7	<0.05	11	1.0	<0.2
100042	Soil	24	36	0.69	211	0.096	1	1.89	0.011	0.15	0.2	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
100043	Soil	19	53	0.71	169	0.117	<1	1.89	0.011	0.22	0.1	<0.01	3.8	0.2	<0.05	7	<0.5	<0.2
100044	Soil	21	38	1.16	790	0.165	<1	2.14	0.008	0.77	0.1	<0.01	4.0	0.5	<0.05	7	0.6	<0.2
100045	Soil	26	23	1.02	139	0.105	1	2.19	0.010	0.51	0.1	0.06	5.0	0.5	<0.05	7	<0.5	<0.2
100046	Soil	22	55	0.92	189	0.146	<1	2.60	0.007	0.64	<0.1	<0.01	4.0	0.5	<0.05	7	1.0	<0.2
100047	Soil	24	52	1.08	265	0.191	<1	2.67	0.018	0.75	<0.1	0.02	4.7	0.7	0.06	8	0.9	<0.2
100048	Soil	37	36	0.86	219	0.138	<1	2.18	0.025	0.84	<0.1	<0.01	2.7	0.5	0.35	7	<0.5	<0.2
100049	Soil	51	38	0.91	265	0.248	<1	2.41	0.027	1.08	<0.1	0.01	3.9	0.6	0.24	8	<0.5	<0.2
100050	Soil	29	52	0.60	233	0.055	<1	1.71	0.007	0.31	<0.1	0.02	4.7	0.3	0.06	7	1.6	<0.2
100051	Soil	36	13	1.09	176	0.173	<1	3.63	0.010	1.21	<0.1	0.01	8.5	0.8	<0.05	14	<0.5	<0.2
100052	Soil	12	119	2.70	577	0.179	<1	3.36	0.016	0.76	<0.1	0.01	12.0	0.4	<0.05	10	<0.5	<0.2
100053	Soil	32	59	1.18	232	0.088	<1	2.45	0.012	0.64	<0.1	0.02	4.6	0.4	<0.05	8	0.9	<0.2
100054	Soil	21	31	0.58	233	0.093	<1	1.59	0.014	0.24	0.2	0.05	3.1	0.2	0.10	5	0.6	<0.2
0110027	Soil	15	28	0.49	236	0.096	1	2.00	0.012	0.12	<0.1	0.02	3.3	0.1	<0.05	6	<0.5	<0.2
0110028	Soil	21	19	0.81	159	0.127	<1	1.87	0.010	0.44	<0.1	0.01	6.2	0.2	<0.05	8	<0.5	<0.2
0110029	Soil	16	30	0.69	182	0.116	<1	2.03	0.013	0.20	0.1	0.01	4.5	0.1	<0.05	8	<0.5	<0.2
0110030	Soil	11	17	0.92	281	0.149	<1	1.89	0.014	0.41	<0.1	0.02	5.7	0.1	<0.05	7	<0.5	<0.2
0110031	Soil	13	24	0.59	204	0.106	<1	1.73	0.013	0.15	0.1	<0.01	4.1	<0.1	<0.05	7	<0.5	<0.2
0110032	Soil	14	19	0.46	217	0.060	1	1.13	0.026	0.07	0.2	0.02	2.8	<0.1	<0.05	4	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0110033	Soil	1.0	14.8	6.3	39	0.1	12.8	7.6	200	2.51	3.6	0.4	2.3	2.1	23	0.1	0.4	<0.1	54	0.31	0.020
0110034	Soil	1.4	11.1	8.1	42	<0.1	13.2	7.3	242	2.68	4.0	0.6	1.8	3.5	17	<0.1	0.4	<0.1	56	0.26	0.020
0110035	Soil	0.7	11.3	2.3	47	<0.1	8.1	17.3	470	3.43	3.1	0.4	0.8	1.8	17	<0.1	0.2	<0.1	71	0.54	0.057
0110036	Soil	1.4	13.9	6.8	59	<0.1	9.4	12.3	769	3.29	1.7	0.5	<0.5	2.1	28	<0.1	0.3	<0.1	66	0.41	0.051
0110037	Soil	0.8	10.0	6.7	50	<0.1	13.7	7.5	195	2.11	5.8	0.3	1.3	2.1	15	0.1	0.4	<0.1	53	0.20	0.031
0110038	Soil	0.6	4.5	3.7	57	<0.1	6.0	9.7	248	2.79	2.4	0.3	0.6	1.4	28	<0.1	0.3	<0.1	83	0.58	0.039
0110039	Soil	0.9	18.9	6.1	47	<0.1	13.2	10.0	295	2.96	5.9	0.4	<0.5	2.9	17	<0.1	0.4	<0.1	61	0.31	0.025
0110040	Soil	0.7	27.2	2.3	36	<0.1	7.2	16.0	433	3.00	2.1	0.5	<0.5	2.6	22	<0.1	0.3	<0.1	61	0.45	0.036
0105028	Soil	0.4	12.4	0.7	46	<0.1	3.4	17.4	460	3.13	0.6	0.2	<0.5	1.2	18	<0.1	0.1	<0.1	97	0.40	0.037
0105029	Soil	0.8	40.4	3.2	59	<0.1	6.7	16.9	477	4.25	2.6	0.3	<0.5	1.9	16	<0.1	0.2	<0.1	120	0.30	0.051
0105030	Soil	0.6	34.8	2.3	45	<0.1	16.2	13.8	513	3.54	2.0	0.6	1.3	2.1	29	<0.1	0.4	<0.1	88	0.44	0.041
0105031	Soil	0.9	31.9	6.9	57	<0.1	14.2	13.2	418	3.86	5.9	0.6	1.8	3.1	34	<0.1	0.4	<0.1	89	0.37	0.042
0105032	Soil	0.6	32.4	1.8	72	<0.1	15.1	20.4	817	5.08	1.5	0.7	1.3	1.7	74	<0.1	0.7	<0.1	138	0.95	0.075
0105033	Soil	0.7	16.7	2.0	66	<0.1	8.7	16.9	537	3.74	0.8	0.3	0.8	1.6	21	<0.1	0.1	<0.1	106	0.55	0.085
0105034	Soil	0.4	9.7	1.2	51	<0.1	7.0	14.7	363	3.21	0.8	0.6	<0.5	3.2	13	<0.1	<0.1	<0.1	86	0.44	0.078
0105035	Soil	0.5	85.8	2.1	82	<0.1	7.7	17.8	848	5.26	1.7	0.9	<0.5	5.1	12	<0.1	0.1	<0.1	121	0.34	0.091
0105036	Soil	0.4	25.9	0.8	65	<0.1	6.0	18.9	553	4.05	0.5	0.2	0.5	1.4	22	<0.1	<0.1	<0.1	112	0.50	0.080
0105037	Soil	0.6	102.8	3.3	91	<0.1	14.9	15.4	334	3.94	2.2	0.6	1.0	2.1	28	<0.1	0.2	<0.1	98	0.60	0.050
0105038	Soil	0.7	61.0	3.3	68	<0.1	11.6	15.4	411	3.77	4.8	0.4	1.3	2.9	22	<0.1	0.2	<0.1	95	0.42	0.050
0105039	Soil	0.8	55.3	6.2	48	<0.1	13.5	11.2	292	2.86	3.5	0.8	3.0	3.0	22	<0.1	0.3	<0.1	73	0.43	0.044
0105040	Soil	0.7	50.3	4.5	45	<0.1	14.2	9.8	231	2.61	3.8	0.8	2.5	3.3	25	<0.1	0.3	<0.1	66	0.40	0.039
0105041	Soil	0.5	30.9	3.6	38	<0.1	10.3	9.4	200	2.26	2.0	0.5	1.7	2.4	21	<0.1	0.3	<0.1	62	0.40	0.032
0105042	Soil	1.7	15.9	10.6	38	<0.1	8.7	4.7	163	1.54	8.4	0.9	122.8	3.2	7	<0.1	0.4	<0.1	31	0.05	0.010
0105043	Soil	0.6	8.9	11.5	24	<0.1	3.5	2.3	46	0.65	3.2	1.1	9.3	4.6	10	<0.1	0.3	<0.1	16	0.08	0.006
0105044	Soil	1.5	14.7	18.2	50	<0.1	13.1	13.2	87	0.82	9.5	1.4	3.5	7.7	51	<0.1	0.3	0.2	17	0.44	0.013
0105045	Soil	0.5	21.1	4.4	95	<0.1	8.4	12.0	369	4.88	1.4	0.6	1.7	3.7	25	<0.1	0.7	<0.1	46	0.50	0.095
0105046	Soil	1.0	39.0	5.6	74	<0.1	9.0	17.0	488	5.38	6.3	0.6	1.5	2.8	22	<0.1	0.5	<0.1	85	0.44	0.078
0105047	Soil	0.8	12.0	7.8	62	<0.1	13.4	9.1	265	3.22	5.4	0.4	1.3	2.7	16	<0.1	0.4	<0.1	52	0.21	0.025
0105048	Soil	1.1	10.9	9.3	84	0.1	15.9	18.1	1921	2.95	5.4	0.5	1.2	3.5	17	0.1	0.4	<0.1	59	0.21	0.029
0105049	Soil	0.9	7.9	5.1	44	<0.1	7.1	7.5	312	3.05	5.5	0.9	1.6	3.6	15	<0.1	0.6	<0.1	40	0.18	0.032

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Project: Montana
 Report Date: June 26, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0110033	Soil	8	28	0.50	299	0.068	1	1.57	0.022	0.13	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
0110034	Soil	11	27	0.55	238	0.087	2	1.62	0.019	0.13	<0.1	0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
0110035	Soil	3	18	0.99	229	0.099	1	1.86	0.028	0.41	<0.1	<0.01	5.5	<0.1	<0.05	5	<0.5	<0.2
0110036	Soil	11	18	0.71	387	0.168	<1	1.65	0.026	0.52	<0.1	0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
0110037	Soil	8	59	0.47	228	0.044	1	1.74	0.012	0.06	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
0110038	Soil	4	236	1.18	224	0.029	1	1.81	0.025	0.04	<0.1	0.01	10.5	<0.1	<0.05	6	<0.5	<0.2
0110039	Soil	9	28	0.63	309	0.079	1	1.90	0.022	0.08	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
0110040	Soil	7	26	0.67	232	0.070	<1	1.62	0.038	0.08	<0.1	<0.01	7.3	<0.1	<0.05	4	<0.5	<0.2
0105028	Soil	6	9	1.25	450	0.190	<1	1.87	0.024	0.63	<0.1	<0.01	5.7	0.2	<0.05	5	<0.5	<0.2
0105029	Soil	4	11	1.32	357	0.259	<1	2.66	0.026	0.72	<0.1	0.01	4.7	0.3	<0.05	7	<0.5	<0.2
0105030	Soil	10	76	0.98	217	0.046	<1	1.93	0.019	0.04	<0.1	0.01	8.8	<0.1	<0.05	6	<0.5	<0.2
0105031	Soil	8	25	0.94	278	0.122	2	2.34	0.021	0.19	<0.1	0.02	5.0	<0.1	<0.05	7	<0.5	<0.2
0105032	Soil	11	31	1.20	394	0.059	2	2.71	0.043	0.10	<0.1	0.12	11.5	<0.1	<0.05	9	<0.5	<0.2
0105033	Soil	5	19	1.45	456	0.211	<1	2.50	0.031	0.73	<0.1	0.01	4.4	0.1	<0.05	7	<0.5	<0.2
0105034	Soil	8	19	1.32	352	0.219	<1	2.26	0.032	0.78	<0.1	0.01	4.4	0.2	<0.05	6	<0.5	<0.2
0105035	Soil	10	12	1.31	464	0.328	<1	2.90	0.022	1.25	<0.1	<0.01	8.0	0.4	<0.05	10	<0.5	<0.2
0105036	Soil	7	14	1.55	523	0.230	<1	2.48	0.028	0.99	<0.1	0.01	6.3	0.3	<0.05	7	<0.5	<0.2
0105037	Soil	9	36	1.09	272	0.062	<1	2.57	0.037	0.07	<0.1	0.01	8.0	<0.1	<0.05	6	<0.5	<0.2
0105038	Soil	8	18	1.07	359	0.176	<1	2.56	0.029	0.55	<0.1	<0.01	5.4	0.2	<0.05	7	<0.5	<0.2
0105039	Soil	11	27	0.74	232	0.113	<1	1.78	0.031	0.19	<0.1	0.02	6.4	<0.1	<0.05	5	<0.5	<0.2
0105040	Soil	12	29	0.66	213	0.108	<1	1.75	0.024	0.14	<0.1	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
0105041	Soil	9	21	0.56	150	0.102	<1	1.35	0.032	0.09	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
0105042	Soil	9	20	0.20	89	0.022	<1	1.25	0.005	0.04	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
0105043	Soil	18	14	0.10	64	0.010	<1	0.62	0.004	0.05	<0.1	0.03	1.7	0.2	<0.05	2	<0.5	<0.2
0105044	Soil	39	11	0.24	177	0.003	1	1.14	0.008	0.03	<0.1	0.06	2.7	0.2	<0.05	4	<0.5	<0.2
0105045	Soil	12	10	0.51	279	0.027	1	2.05	0.009	0.49	<0.1	0.03	9.9	<0.1	<0.05	9	<0.5	<0.2
0105046	Soil	6	18	0.90	279	0.173	2	2.88	0.027	0.53	0.1	0.01	7.6	<0.1	<0.05	10	<0.5	<0.2
0105047	Soil	9	23	0.52	169	0.096	1	2.19	0.013	0.18	<0.1	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
0105048	Soil	11	28	0.46	252	0.090	2	2.00	0.013	0.12	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
0105049	Soil	8	15	0.44	158	0.136	<1	1.72	0.010	0.53	<0.1	0.01	3.0	0.1	<0.05	7	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 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	
			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	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	2	0.01	0.001	
0105050	Soil		0.5	12.1	3.2	71	<0.1	10.3	9.3	538	3.79	3.9	0.9	1.3	4.5	17	<0.1	0.5	<0.1	42	0.20	0.034
0105051	Soil		0.8	11.5	7.0	67	<0.1	10.9	9.2	367	3.37	3.8	0.8	0.9	3.8	17	<0.1	0.5	<0.1	58	0.18	0.022
0105052	Soil		0.8	9.0	5.8	93	<0.1	10.9	12.4	1563	3.61	3.7	0.8	0.9	4.6	33	0.2	0.3	<0.1	37	0.46	0.065
0105053	Soil		0.7	7.3	5.1	84	<0.1	9.7	10.0	586	3.91	4.3	0.7	0.7	3.6	14	<0.1	0.4	<0.1	48	0.20	0.049
0105054	Soil		0.6	28.8	3.1	55	<0.1	13.0	13.8	357	4.25	3.4	0.6	<0.5	2.9	24	<0.1	0.3	<0.1	113	0.70	0.037
0105055	Soil		0.5	28.4	4.8	45	<0.1	13.4	12.4	258	2.88	5.0	0.5	0.6	2.6	19	<0.1	0.4	0.1	64	0.35	0.029
0105056	Soil		0.4	28.1	3.2	53	<0.1	14.0	11.2	249	3.34	1.4	0.5	<0.5	2.3	20	<0.1	0.3	<0.1	80	0.47	0.024
0105057	Soil		0.9	20.4	6.2	42	<0.1	13.5	9.4	259	2.74	5.3	0.5	0.6	2.5	18	<0.1	0.5	0.1	61	0.24	0.017
0105058	Soil		0.6	11.7	5.1	86	<0.1	14.4	11.6	462	3.46	2.3	1.2	0.8	4.2	33	<0.1	0.4	<0.1	63	0.52	0.029
0105059	Soil		1.0	14.5	4.1	71	<0.1	7.9	8.2	372	3.29	4.7	1.7	<0.5	6.1	22	<0.1	0.9	<0.1	35	0.33	0.030
0105060	Soil		0.9	29.9	8.6	67	<0.1	25.8	10.0	489	2.47	9.3	0.5	<0.5	3.8	65	0.3	0.8	0.2	51	1.81	0.077
0105061	Soil		0.4	12.6	3.1	79	<0.1	7.1	9.1	504	3.90	2.7	0.9	<0.5	4.7	15	<0.1	0.4	<0.1	47	0.21	0.025
0105062	Soil		1.0	39.0	2.3	79	<0.1	11.8	11.7	633	4.89	3.2	1.3	<0.5	5.0	8	<0.1	0.2	<0.1	77	0.17	0.048
0105063	Soil		0.6	7.6	4.8	45	<0.1	6.6	6.2	383	3.08	4.5	0.5	<0.5	2.9	19	<0.1	0.4	<0.1	35	0.16	0.029
0107036	Soil		1.0	13.4	10.5	47	<0.1	12.3	5.1	212	2.40	8.8	1.1	1.5	3.3	39	<0.1	0.4	0.2	47	0.37	0.032
0107037	Soil		1.0	11.4	12.8	41	<0.1	14.0	6.0	187	2.10	7.2	0.9	<0.5	4.2	55	<0.1	0.3	0.2	40	0.28	0.016
0107038	Soil		2.1	20.6	6.5	105	<0.1	24.6	24.2	1058	6.56	8.3	1.1	0.7	4.2	27	<0.1	0.5	0.2	118	0.23	0.030
0107039	Soil		1.1	28.6	1.5	152	<0.1	19.5	25.8	731	6.73	1.6	1.7	<0.5	4.0	55	<0.1	0.3	<0.1	82	0.44	0.031
0107040	Soil		1.2	20.9	3.3	113	<0.1	24.0	21.1	773	5.13	1.7	1.2	<0.5	4.2	70	<0.1	0.3	<0.1	79	0.56	0.020
0107041	Soil		1.4	10.7	6.8	102	<0.1	3.9	8.7	648	4.40	2.9	1.4	<0.5	6.0	17	<0.1	0.1	0.2	52	0.14	0.027
0107042	Soil		0.4	5.2	12.3	29	<0.1	5.9	1.5	149	0.65	1.1	2.3	0.8	6.0	189	<0.1	0.2	0.2	8	0.58	0.017
0107043	Soil		5.3	18.3	14.9	49	<0.1	15.6	6.9	2494	1.97	10.1	3.0	<0.5	7.8	158	0.1	0.7	0.2	32	0.56	0.022
0107044	Soil		0.2	23.5	7.3	24	<0.1	2.2	1.3	181	1.60	0.7	0.9	1.0	5.8	3	<0.1	<0.1	0.6	13	0.02	0.004
0107045	Soil		<0.1	5.8	2.3	45	<0.1	2.9	4.3	196	1.78	0.6	0.7	7.3	5.0	4	<0.1	0.1	<0.1	22	0.03	0.004
0107046	Soil		0.3	13.9	4.7	99	<0.1	8.3	11.5	1010	3.94	1.4	1.0	1.6	7.3	20	<0.1	0.3	0.1	56	0.28	0.043
0107047	Soil		0.2	16.8	5.7	119	<0.1	3.4	8.3	632	3.33	1.2	1.4	1.1	7.8	12	0.1	<0.1	<0.1	29	0.10	0.008
0107048	Soil		0.6	14.4	7.1	73	<0.1	11.6	9.5	424	3.63	6.3	0.8	0.9	5.4	22	<0.1	0.3	0.1	60	0.34	0.041
0107049	Soil		0.3	7.1	2.4	110	<0.1	3.3	12.8	494	5.41	1.0	1.4	<0.5	6.9	21	<0.1	<0.1	<0.1	37	0.41	0.096
0107050	Soil		0.7	9.7	2.5	115	<0.1	5.0	13.8	576	5.46	2.8	0.9	<0.5	6.4	17	<0.1	0.4	<0.1	50	0.44	0.134
0107051	Soil		0.7	18.7	9.1	17	<0.1	11.3	6.7	532	1.02	5.1	0.4	<0.5	1.6	4	<0.1	0.5	0.1	23	0.03	0.025

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0105050	Soil	15	13	0.73	238	0.225	<1	1.95	0.014	0.71	<0.1	0.01	4.9	0.3	<0.05	8	<0.5	<0.2
0105051	Soil	10	22	0.64	252	0.184	2	2.23	0.012	0.41	<0.1	<0.01	4.3	0.1	<0.05	8	<0.5	<0.2
0105052	Soil	8	15	0.64	419	0.097	1	2.48	0.015	0.12	<0.1	0.02	5.6	<0.1	<0.05	10	<0.5	<0.2
0105053	Soil	9	17	0.78	379	0.251	1	2.61	0.013	0.69	<0.1	0.01	7.5	0.1	<0.05	10	<0.5	<0.2
0105054	Soil	6	23	0.89	372	0.202	<1	2.54	0.068	0.38	<0.1	<0.01	6.9	<0.1	<0.05	8	<0.5	<0.2
0105055	Soil	7	20	0.53	196	0.061	<1	1.54	0.016	0.08	<0.1	<0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
0105056	Soil	9	18	0.64	157	0.106	<1	1.59	0.024	0.05	<0.1	<0.01	7.7	<0.1	<0.05	6	<0.5	<0.2
0105057	Soil	6	22	0.40	234	0.042	<1	1.48	0.011	0.03	<0.1	0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
0105058	Soil	22	19	0.88	201	0.080	<1	1.74	0.011	0.08	<0.1	0.02	9.2	<0.1	<0.05	7	<0.5	<0.2
0105059	Soil	10	11	0.43	206	0.113	<1	1.53	0.006	0.45	<0.1	0.01	7.9	<0.1	<0.05	8	<0.5	<0.2
0105060	Soil	12	26	0.77	323	0.064	2	1.08	0.022	0.07	0.3	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
0105061	Soil	21	12	0.78	258	0.205	<1	2.00	0.011	0.60	<0.1	0.02	5.5	0.2	<0.05	9	<0.5	<0.2
0105062	Soil	8	15	1.24	251	0.315	<1	2.99	0.008	0.96	<0.1	<0.01	9.2	0.4	<0.05	11	<0.5	<0.2
0105063	Soil	9	13	0.50	261	0.165	<1	1.84	0.012	0.62	<0.1	0.01	2.7	0.2	<0.05	7	<0.5	<0.2
0107036	Soil	13	20	0.36	228	0.021	<1	1.73	0.007	0.06	<0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
0107037	Soil	11	22	0.34	400	0.037	<1	1.65	0.010	0.08	<0.1	0.01	1.9	0.1	<0.05	4	<0.5	<0.2
0107038	Soil	20	29	0.78	330	0.036	1	2.45	0.006	0.35	<0.1	0.04	10.4	0.2	<0.05	10	0.5	<0.2
0107039	Soil	20	12	1.77	551	0.125	1	2.25	0.012	0.92	<0.1	0.04	12.6	0.4	<0.05	10	<0.5	<0.2
0107040	Soil	23	71	1.51	495	0.063	<1	2.23	0.010	0.53	<0.1	0.04	17.3	0.2	<0.05	9	<0.5	<0.2
0107041	Soil	31	7	0.96	256	0.262	1	2.28	0.007	1.37	<0.1	0.01	8.2	0.5	<0.05	14	<0.5	<0.2
0107042	Soil	16	5	0.27	1095	0.006	1	1.18	0.031	0.17	<0.1	0.01	1.3	0.2	<0.05	2	<0.5	<0.2
0107043	Soil	15	15	0.31	1036	0.007	<1	1.61	0.030	0.08	<0.1	0.04	5.2	0.5	<0.05	4	<0.5	<0.2
0107044	Soil	2	3	0.06	35	0.018	1	0.42	<0.001	0.06	<0.1	0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
0107045	Soil	28	5	0.22	65	0.049	<1	0.79	0.002	0.27	<0.1	<0.01	5.0	0.2	<0.05	5	<0.5	<0.2
0107046	Soil	30	13	0.81	150	0.113	1	1.76	0.006	0.84	<0.1	0.32	10.0	0.3	<0.05	11	<0.5	<0.2
0107047	Soil	26	6	0.41	179	0.143	2	1.46	0.006	0.72	<0.1	0.01	8.4	0.3	<0.05	10	<0.5	<0.2
0107048	Soil	17	21	0.67	180	0.086	1	1.85	0.008	0.18	<0.1	0.01	7.4	0.1	<0.05	8	<0.5	<0.2
0107049	Soil	23	3	1.12	201	0.081	<1	2.63	0.011	0.94	<0.1	0.01	11.5	0.2	<0.05	13	0.6	<0.2
0107050	Soil	22	9	1.12	263	0.117	1	2.40	0.007	0.68	<0.1	0.01	13.1	0.2	<0.05	13	<0.5	<0.2
0107051	Soil	3	14	0.07	76	0.021	<1	0.97	0.002	0.02	<0.1	0.01	2.8	<0.1	<0.05	2	<0.5	<0.2

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.



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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0107052	Soil	0.9	29.3	7.9	30	<0.1	17.3	5.8	197	1.69	6.9	0.8	2.3	3.5	14	<0.1	0.6	0.1	33	0.13	0.016
0107053	Soil	1.0	10.2	5.8	14	<0.1	7.5	2.2	70	0.86	5.7	0.4	<0.5	1.8	7	<0.1	0.6	<0.1	21	0.04	0.010
0107054	Soil	0.9	60.5	13.2	150	<0.1	60.6	12.0	4748	8.88	1.1	1.8	3.6	7.4	32	0.6	0.5	0.2	115	0.14	0.020
0107055	Soil	1.2	21.0	15.7	47	0.1	18.8	6.2	308	1.68	4.7	1.7	3.0	3.6	57	0.1	0.4	0.2	33	0.46	0.031
0107056	Soil	0.7	39.6	12.5	77	<0.1	17.6	4.6	195	1.57	3.3	1.3	1.0	6.4	17	<0.1	0.2	0.2	44	0.16	0.009
0107057	Soil	0.6	15.7	5.4	20	<0.1	9.0	3.7	72	1.10	5.0	0.7	0.9	3.3	10	<0.1	0.4	<0.1	26	0.04	0.005
0107058	Soil	0.6	4.7	3.7	10	<0.1	8.3	2.9	65	0.44	3.2	0.2	<0.5	1.2	11	<0.1	0.1	<0.1	10	0.03	0.013
0107059	Soil	0.9	108.9	11.7	115	<0.1	48.0	10.1	1040	4.25	3.7	2.1	2.0	4.8	21	0.4	0.4	0.1	57	0.16	0.034
0107060	Soil	0.8	130.5	11.2	89	0.2	41.0	10.3	2060	3.67	3.6	1.8	0.6	5.1	25	0.8	0.4	0.1	70	0.17	0.035
0107061	Soil	0.5	44.8	21.1	93	0.1	33.0	11.1	604	3.28	5.1	1.4	2.2	4.2	20	0.2	0.3	0.1	84	0.21	0.037
0107062	Soil	1.0	37.1	15.8	71	<0.1	24.3	8.4	570	2.02	9.3	1.9	2.0	5.4	15	0.2	0.4	0.2	21	0.06	0.031
0107063	Soil	0.5	35.4	8.6	80	<0.1	46.3	11.1	421	4.28	1.7	2.1	4.4	8.8	18	0.1	0.3	0.1	78	0.29	0.099
0107064	Soil	0.6	13.6	7.6	69	<0.1	15.7	9.5	426	2.82	5.3	1.8	<0.5	14.0	15	<0.1	0.3	0.3	52	0.15	0.029
0107065	Soil	0.5	39.4	16.1	143	<0.1	40.2	11.5	480	4.27	2.2	3.8	5.6	16.4	19	<0.1	0.2	0.4	74	0.29	0.071
0107066	Soil	1.8	59.6	8.8	105	<0.1	40.8	16.0	396	4.76	2.8	2.6	1.7	8.6	13	0.1	0.3	0.2	79	0.14	0.055
0107067	Soil	1.2	29.0	9.6	112	<0.1	28.5	7.5	306	3.15	3.0	2.3	0.8	19.9	13	0.1	0.2	0.2	36	0.15	0.024
0107068	Soil	1.7	51.4	8.4	72	<0.1	45.1	13.1	210	4.36	2.0	1.7	3.9	10.5	8	<0.1	0.2	0.2	77	0.10	0.053
0107069	Soil	1.1	49.6	11.5	83	<0.1	53.1	10.9	178	5.06	4.4	1.9	4.1	9.7	8	<0.1	0.2	0.3	105	0.11	0.060
0107070	Soil	0.7	47.2	15.9	133	<0.1	57.5	14.1	711	4.88	1.3	2.8	2.5	21.5	17	<0.1	0.2	0.2	114	0.34	0.094
0107071	Soil	1.3	55.4	8.2	106	<0.1	73.6	15.9	625	3.96	4.8	1.3	0.8	10.1	23	<0.1	0.3	0.2	123	0.31	0.044
0107072	Soil	0.5	45.2	31.6	49	0.3	40.8	5.4	780	1.39	3.5	1.0	4.4	4.3	40	0.2	0.3	0.1	19	4.24	0.071
0107073	Soil	0.5	39.6	18.3	45	0.1	56.9	7.1	947	1.35	3.3	0.7	5.0	4.3	8	0.3	0.3	0.1	29	0.54	0.080
0107074	Soil	0.6	17.9	7.0	46	<0.1	29.3	4.9	555	1.20	4.0	0.9	3.2	2.5	13	0.2	0.3	0.2	24	0.27	0.056
0107075	Soil	1.2	32.5	10.1	181	0.1	79.3	13.5	383	2.34	6.9	0.9	0.5	2.4	7	0.8	0.5	0.2	46	0.07	0.036
0107076	Soil	1.0	23.1	8.6	75	0.2	25.2	12.8	932	3.25	9.7	1.4	3.0	4.8	34	0.3	0.6	0.2	53	0.56	0.081



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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

WHI11000229.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
0107052	Soil	11	24	0.25	179	0.040	<1	0.97	0.005	0.03	0.1	0.02	4.6	<0.1	<0.05	3	<0.5	<0.2
0107053	Soil	5	14	0.10	61	0.020	<1	0.80	0.002	0.02	<0.1	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
0107054	Soil	11	87	1.29	1162	0.257	2	2.32	0.007	1.00	0.2	0.05	11.8	1.1	<0.05	11	<0.5	<0.2
0107055	Soil	20	25	0.32	273	0.009	2	1.35	0.008	0.07	<0.1	0.05	3.2	0.2	<0.05	4	<0.5	<0.2
0107056	Soil	51	42	0.55	191	0.011	<1	1.17	0.003	0.33	<0.1	0.02	5.8	0.2	<0.05	7	<0.5	<0.2
0107057	Soil	10	15	0.14	78	0.041	<1	0.82	0.003	0.02	<0.1	0.01	3.0	<0.1	<0.05	2	<0.5	<0.2
0107058	Soil	6	6	0.04	91	0.007	<1	0.58	0.001	0.02	<0.1	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
0107059	Soil	18	30	0.43	621	0.048	<1	1.24	0.007	0.20	<0.1	0.01	10.2	0.1	<0.05	6	0.7	<0.2
0107060	Soil	16	26	0.34	448	0.027	1	1.01	0.007	0.11	<0.1	0.02	8.4	<0.1	<0.05	5	<0.5	<0.2
0107061	Soil	10	28	0.62	432	0.039	1	1.49	0.005	0.22	0.1	0.02	8.0	0.2	<0.05	6	<0.5	<0.2
0107062	Soil	20	15	0.09	155	0.007	<1	0.55	0.002	0.05	<0.1	0.02	3.4	<0.1	<0.05	2	<0.5	<0.2
0107063	Soil	20	48	0.70	206	0.145	<1	2.05	0.008	0.89	<0.1	0.01	4.4	0.5	<0.05	7	0.6	<0.2
0107064	Soil	25	24	0.56	191	0.148	<1	1.98	0.008	0.52	0.1	0.01	3.8	0.5	<0.05	7	0.6	<0.2
0107065	Soil	71	40	0.79	351	0.223	<1	2.62	0.010	1.29	<0.1	0.03	3.4	0.8	<0.05	8	0.7	<0.2
0107066	Soil	34	57	0.91	297	0.210	<1	2.46	0.009	0.90	<0.1	0.01	5.7	0.6	<0.05	8	1.0	<0.2
0107067	Soil	56	22	0.52	207	0.095	<1	2.29	0.007	0.47	<0.1	0.01	4.4	0.4	<0.05	7	1.0	<0.2
0107068	Soil	29	46	0.80	221	0.177	<1	2.11	0.008	0.81	<0.1	0.02	4.6	0.6	<0.05	7	1.9	<0.2
0107069	Soil	30	60	1.03	190	0.213	<1	2.80	0.006	1.14	<0.1	<0.01	5.1	0.7	<0.05	9	0.8	<0.2
0107070	Soil	57	67	1.31	348	0.385	<1	3.25	0.013	1.68	<0.1	0.02	4.3	0.9	<0.05	11	0.6	<0.2
0107071	Soil	38	113	1.49	488	0.236	<1	3.05	0.010	0.60	0.2	<0.01	9.6	1.3	<0.05	10	0.6	<0.2
0107072	Soil	58	23	1.48	92	0.028	<1	1.08	0.006	0.03	0.1	0.07	4.7	<0.1	<0.05	4	1.3	<0.2
0107073	Soil	54	37	0.93	105	0.033	<1	1.07	0.004	0.02	<0.1	0.04	6.4	0.1	<0.05	4	0.6	<0.2
0107074	Soil	15	18	0.26	128	0.027	<1	0.66	0.007	0.04	0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
0107075	Soil	8	28	0.19	124	0.029	<1	1.01	0.003	0.04	0.2	0.02	3.7	<0.1	<0.05	3	0.6	<0.2
0107076	Soil	17	30	0.52	409	0.087	1	1.43	0.020	0.15	0.2	0.05	3.1	0.1	<0.05	5	1.0	<0.2



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Project: Montana

Report Date: June 26, 2011

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QUALITY CONTROL REPORT

WHI11000229.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
101026	Soil	0.4	18.3	3.1	60	<0.1	8.8	12.8	519	3.58	2.9	0.3	1.3	1.0	79	<0.1	0.2	<0.1	61	2.20	0.066
REP 101026	QC	0.5	17.8	3.2	60	<0.1	8.9	13.2	516	3.52	3.0	0.2	2.1	1.0	79	<0.1	0.3	<0.1	66	2.21	0.064
101037	Soil	1.2	22.2	7.1	74	<0.1	16.0	14.1	777	4.22	6.0	0.6	1.1	2.5	13	<0.1	0.4	<0.1	70	0.21	0.047
REP 101037	QC	1.0	20.9	6.5	72	<0.1	15.1	12.5	750	3.80	5.6	0.5	0.8	2.4	12	<0.1	0.3	<0.1	64	0.20	0.048
101062	Soil	0.6	9.3	4.7	36	<0.1	8.7	12.3	217	3.88	3.3	0.5	4.4	2.4	19	<0.1	0.3	<0.1	63	0.36	0.033
REP 101062	QC	0.5	9.1	4.4	36	<0.1	7.9	12.0	215	4.00	3.0	0.4	0.9	2.3	19	<0.1	0.3	<0.1	62	0.39	0.033
0110025	Soil	1.5	15.6	22.7	62	<0.1	18.1	11.5	329	3.53	8.4	0.8	1.7	5.5	18	<0.1	0.6	0.2	72	0.21	0.030
REP 0110025	QC	1.6	16.0	22.4	60	<0.1	18.3	11.0	333	3.52	7.8	0.7	7.7	5.3	17	<0.1	0.6	0.2	70	0.21	0.030
0112015	Soil	0.2	14.6	1.7	61	<0.1	5.0	11.1	409	3.57	1.9	0.6	0.6	3.6	19	<0.1	0.2	<0.1	67	0.63	0.093
REP 0112015	QC	0.2	13.1	1.5	56	<0.1	4.5	10.4	384	3.37	1.7	0.6	0.5	3.3	17	<0.1	0.2	<0.1	64	0.61	0.091
0112028	Soil	0.8	27.2	6.8	59	<0.1	19.1	9.4	342	2.35	6.0	0.5	1.9	3.2	49	0.2	0.5	0.2	51	0.77	0.068
REP 0112028	QC	0.9	26.9	6.8	57	<0.1	18.8	9.1	329	2.23	6.0	0.5	2.1	3.3	48	0.2	0.5	0.1	51	0.75	0.066
0112036	Soil	1.0	66.2	3.7	69	<0.1	12.4	12.2	619	4.41	14.5	1.4	<0.5	4.8	17	<0.1	0.3	<0.1	89	0.38	0.071
REP 0112036	QC	1.0	70.8	3.7	71	<0.1	12.6	13.0	651	4.66	15.2	1.4	1.8	4.8	17	<0.1	0.3	<0.1	93	0.39	0.071
0111015	Soil	0.7	24.5	6.6	49	<0.1	20.4	8.5	398	2.11	9.2	0.5	2.1	3.4	54	0.2	0.6	0.1	40	1.65	0.080
REP 0111015	QC	0.6	25.1	6.9	50	<0.1	21.0	8.9	404	2.16	9.6	0.5	4.8	3.4	54	0.2	0.7	0.1	40	1.73	0.084
0111025	Soil	0.7	52.7	2.5	47	<0.1	15.3	15.5	458	2.98	2.7	0.5	1.7	1.5	28	<0.1	0.4	<0.1	60	0.55	0.074
REP 0111025	QC	0.8	51.0	2.6	49	<0.1	15.9	16.0	482	3.11	2.7	0.5	2.5	1.5	27	<0.1	0.4	<0.1	63	0.55	0.070
0111033	Soil	0.6	32.2	2.9	57	<0.1	6.7	16.1	722	3.89	1.4	0.4	0.8	2.6	24	<0.1	0.2	<0.1	84	0.54	0.056
REP 0111033	QC	0.7	32.0	3.0	57	<0.1	6.5	17.0	715	4.03	1.7	0.4	1.6	2.6	25	<0.1	0.2	<0.1	84	0.53	0.058
0111051	Soil	0.3	10.1	1.7	35	<0.1	6.5	11.4	414	3.51	1.0	0.3	0.9	1.2	18	<0.1	0.3	<0.1	80	0.89	0.086
REP 0111051	QC	0.3	9.6	1.5	33	<0.1	6.2	10.8	411	3.39	1.0	0.3	1.2	1.2	18	<0.1	0.3	<0.1	79	0.87	0.089
100048	Soil	0.7	34.4	13.1	55	<0.1	14.9	6.5	233	4.14	4.4	1.0	2.4	14.3	21	<0.1	0.3	0.2	35	0.07	0.038
REP 100048	QC	0.8	35.4	13.3	57	0.1	14.8	7.0	245	4.27	4.4	1.0	3.3	15.1	21	<0.1	0.3	0.2	37	0.08	0.043
0110035	Soil	0.7	11.3	2.3	47	<0.1	8.1	17.3	470	3.43	3.1	0.4	0.8	1.8	17	<0.1	0.2	<0.1	71	0.54	0.057
REP 0110035	QC	0.6	11.5	2.1	49	<0.1	7.5	15.9	446	3.26	2.9	0.3	0.7	1.7	16	<0.1	0.2	<0.1	69	0.53	0.059
0105037	Soil	0.6	102.8	3.3	91	<0.1	14.9	15.4	334	3.94	2.2	0.6	1.0	2.1	28	<0.1	0.2	<0.1	98	0.60	0.050
REP 0105037	QC	0.6	102.5	2.9	88	<0.1	13.9	14.1	324	3.57	2.4	0.6	<0.5	2.1	27	<0.1	0.2	<0.1	97	0.55	0.045



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Project: Montana

Report Date: June 26, 2011

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
101026	Soil	5	12	0.94	217	0.010	<1	4.17	0.054	0.12	<0.1	0.02	6.7	<0.1	<0.05	9	<0.5	<0.2
REP 101026	QC	5	13	0.96	207	0.012	<1	4.31	0.054	0.12	<0.1	0.02	7.2	<0.1	<0.05	9	<0.5	<0.2
101037	Soil	7	39	0.68	195	0.130	<1	2.32	0.017	0.28	<0.1	0.01	6.0	0.2	<0.05	9	0.5	<0.2
REP 101037	QC	7	35	0.62	189	0.115	<1	2.13	0.015	0.26	<0.1	0.01	5.8	0.2	<0.05	9	<0.5	<0.2
101062	Soil	8	14	0.76	389	0.187	<1	2.18	0.023	0.36	<0.1	<0.01	5.7	0.1	<0.05	8	<0.5	<0.2
REP 101062	QC	8	13	0.78	391	0.184	<1	2.15	0.021	0.35	<0.1	<0.01	5.7	0.1	<0.05	8	<0.5	<0.2
0110025	Soil	16	33	0.60	404	0.148	<1	2.37	0.012	0.23	0.1	0.01	4.0	0.1	<0.05	7	<0.5	<0.2
REP 0110025	QC	16	33	0.59	404	0.145	<1	2.26	0.015	0.22	0.1	0.01	4.1	0.1	<0.05	7	<0.5	<0.2
0112015	Soil	13	11	0.91	204	0.124	<1	1.95	0.045	0.34	<0.1	<0.01	10.0	<0.1	<0.05	8	<0.5	<0.2
REP 0112015	QC	12	12	0.86	183	0.115	<1	1.80	0.039	0.31	<0.1	0.01	9.4	<0.1	<0.05	7	<0.5	<0.2
0112028	Soil	11	24	0.59	235	0.088	<1	1.55	0.034	0.10	0.2	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
REP 0112028	QC	11	24	0.57	242	0.087	<1	1.52	0.032	0.10	0.1	0.02	3.7	<0.1	<0.05	4	0.5	<0.2
0112036	Soil	20	17	0.71	309	0.096	<1	1.68	0.021	0.43	<0.1	0.04	12.1	0.1	<0.05	8	<0.5	<0.2
REP 0112036	QC	20	18	0.77	323	0.107	<1	1.84	0.023	0.48	<0.1	0.05	13.0	0.1	<0.05	9	<0.5	<0.2
0111015	Soil	12	20	0.68	259	0.057	<1	0.99	0.024	0.07	0.2	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
REP 0111015	QC	12	20	0.69	266	0.058	1	0.99	0.023	0.07	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
0111025	Soil	9	22	0.62	178	0.078	<1	1.70	0.029	0.06	<0.1	0.03	7.6	<0.1	<0.05	5	<0.5	<0.2
REP 0111025	QC	9	23	0.61	175	0.083	<1	1.66	0.029	0.06	<0.1	0.03	8.0	<0.1	<0.05	5	<0.5	<0.2
0111033	Soil	7	11	0.91	415	0.092	<1	2.01	0.026	0.44	<0.1	0.03	7.3	0.1	<0.05	6	<0.5	<0.2
REP 0111033	QC	7	11	0.95	414	0.093	<1	1.97	0.026	0.47	<0.1	0.03	7.3	0.1	<0.05	6	<0.5	<0.2
0111051	Soil	5	9	0.71	201	0.033	2	2.04	0.074	0.04	<0.1	<0.01	9.4	<0.1	<0.05	6	<0.5	<0.2
REP 0111051	QC	5	9	0.68	203	0.033	<1	1.90	0.073	0.04	<0.1	<0.01	9.2	<0.1	0.05	5	<0.5	<0.2
100048	Soil	37	36	0.86	219	0.138	<1	2.18	0.025	0.84	<0.1	<0.01	2.7	0.5	0.35	7	<0.5	<0.2
REP 100048	QC	38	39	0.89	236	0.152	<1	2.37	0.026	0.89	<0.1	<0.01	2.7	0.5	0.36	7	0.8	<0.2
0110035	Soil	3	18	0.99	229	0.099	1	1.86	0.028	0.41	<0.1	<0.01	5.5	<0.1	<0.05	5	<0.5	<0.2
REP 0110035	QC	3	16	0.97	214	0.099	<1	1.78	0.026	0.40	<0.1	<0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
0105037	Soil	9	36	1.09	272	0.062	<1	2.57	0.037	0.07	<0.1	0.01	8.0	<0.1	<0.05	6	<0.5	<0.2
REP 0105037	QC	9	34	0.95	257	0.059	<1	2.26	0.033	0.06	<0.1	0.02	7.5	<0.1	<0.05	6	<0.5	<0.2

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.



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Project: Montana

Report Date: June 26, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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
0107042	Soil	0.4	5.2	12.3	29	<0.1	5.9	1.5	149	0.65	1.1	2.3	0.8	6.0	189	<0.1	0.2	0.2	8	0.58	0.017
REP 0107042	QC	0.4	5.4	12.1	30	<0.1	6.1	1.3	154	0.68	1.1	2.4	<0.5	6.6	195	0.1	0.2	0.2	8	0.59	0.017
0107048	Soil	0.6	14.4	7.1	73	<0.1	11.6	9.5	424	3.63	6.3	0.8	0.9	5.4	22	<0.1	0.3	0.1	60	0.34	0.041
REP 0107048	QC	0.6	13.1	7.0	70	<0.1	10.7	8.9	385	3.33	6.1	0.8	1.2	5.1	21	0.1	0.3	<0.1	55	0.33	0.040
Reference Materials																					
STD DS8	Standard	13.5	104.6	116.6	320	1.8	36.9	7.4	640	2.54	26.6	2.7	108.7	6.8	70	2.2	5.7	5.9	42	0.67	0.079
STD DS8	Standard	13.3	101.2	120.0	309	1.7	34.6	6.9	627	2.36	25.7	2.7	101.7	7.0	69	2.1	5.7	6.3	39	0.64	0.078
STD DS8	Standard	12.6	106.5	119.8	302	1.7	37.7	7.3	596	2.33	25.0	2.6	112.9	6.4	65	2.2	5.7	6.0	40	0.65	0.071
STD DS8	Standard	14.2	115.0	122.3	325	1.8	41.1	7.8	646	2.54	27.0	2.8	101.5	6.8	67	2.3	5.8	6.1	44	0.70	0.079
STD DS8	Standard	12.3	102.9	120.8	327	1.8	36.7	7.2	602	2.46	25.6	2.6	347.9	6.4	68	2.6	6.1	6.2	40	0.66	0.086
STD DS8	Standard	13.1	103.1	114.1	304	1.7	37.0	7.5	613	2.47	25.7	2.6	118.0	6.5	70	2.1	5.7	5.9	42	0.64	0.083
STD DS8	Standard	13.8	115.8	126.0	321	1.9	40.1	8.0	620	2.44	26.4	2.8	107.2	7.0	66	2.3	5.9	7.0	43	0.68	0.075
STD DS8	Standard	14.5	114.9	129.1	329	1.9	40.1	8.0	634	2.50	26.7	2.9	119.6	7.4	71	2.2	6.2	6.9	43	0.70	0.079
STD DS8	Standard	13.0	111.4	116.3	317	1.7	39.2	7.5	614	2.41	26.3	2.5	115.1	6.6	62	2.0	5.3	6.2	41	0.67	0.082
STD DS8	Standard	12.7	105.4	117.5	305	1.6	36.2	7.2	595	2.39	26.3	2.5	107.3	6.3	63	2.1	5.3	6.2	39	0.68	0.079
STD DS8	Standard	13.5	112.6	127.4	337	1.8	40.4	7.4	655	2.57	27.5	2.8	109.8	7.1	73	2.4	6.0	6.5	41	0.70	0.080
STD DS8	Standard	13.7	104.9	125.6	308	1.8	37.1	7.1	648	2.54	26.0	2.8	128.2	7.3	76	2.4	6.0	6.4	41	0.71	0.082
STD DS8	Standard	13.5	103.5	123.2	313	1.7	38.1	6.9	599	2.46	27.1	2.8	101.4	6.8	71	2.4	5.9	6.5	42	0.69	0.081
STD DS8	Standard	12.6	105.1	120.8	313	1.8	36.0	6.9	603	2.46	26.7	2.6	120.8	6.6	72	2.1	5.7	6.7	39	0.70	0.084
STD DS8	Standard	12.9	110.6	120.4	325	1.7	37.3	7.5	639	2.43	26.6	2.7	106.9	6.7	67	2.3	5.9	6.9	42	0.69	0.078
STD DS8	Standard	13.2	108.7	122.5	313	1.7	37.1	7.6	626	2.49	26.4	2.8	112.5	7.3	66	2.6	5.6	7.2	43	0.69	0.083
STD DS8	Standard	13.2	105.7	118.5	336	1.9	36.7	7.7	665	2.50	27.1	2.8	183.6	7.2	72	2.3	5.9	6.5	43	0.73	0.079
STD DS8	Standard	14.0	112.2	125.7	328	1.8	39.4	7.9	662	2.57	26.8	2.9	114.3	7.3	71	2.3	5.8	6.6	44	0.70	0.080
STD DS8	Standard	13.7	112.3	118.2	321	1.7	37.9	7.6	622	2.41	26.9	2.9	105.3	6.7	66	2.5	5.9	6.6	41	0.66	0.079
STD DS8	Standard	13.4	111.6	119.6	319	1.8	37.2	7.6	607	2.40	26.3	2.7	111.3	6.6	64	2.4	5.6	6.6	42	0.67	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	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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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
0107042	Soil	16	5	0.27	1095	0.006	1	1.18	0.031	0.17	<0.1	0.01	1.3	0.2	<0.05	2	<0.5	<0.2
REP 0107042	QC	16	5	0.29	1111	0.009	2	1.26	0.033	0.19	<0.1	0.01	1.4	0.2	<0.05	3	<0.5	<0.2
0107048	Soil	17	21	0.67	180	0.086	1	1.85	0.008	0.18	<0.1	0.01	7.4	0.1	<0.05	8	<0.5	<0.2
REP 0107048	QC	17	19	0.67	184	0.082	2	1.81	0.008	0.17	<0.1	0.02	7.3	0.1	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	121	0.60	268	0.117	2	0.90	0.094	0.44	2.7	0.19	2.1	5.2	0.15	5	5.4	5.0
STD DS8	Standard	14	117	0.59	270	0.114	3	0.89	0.097	0.41	2.9	0.18	2.1	5.3	0.18	5	4.6	4.6
STD DS8	Standard	13	111	0.58	258	0.111	3	0.88	0.098	0.41	2.8	0.20	1.9	5.3	0.13	5	5.1	4.4
STD DS8	Standard	16	123	0.61	277	0.130	2	0.92	0.102	0.43	3.2	0.19	2.3	5.4	0.16	5	5.6	4.9
STD DS8	Standard	13	115	0.58	277	0.111	3	0.88	0.089	0.40	3.1	0.18	1.9	5.3	0.19	5	4.5	5.4
STD DS8	Standard	14	114	0.58	269	0.115	2	0.91	0.090	0.41	2.9	0.20	1.9	5.1	0.10	4	5.1	5.2
STD DS8	Standard	14	121	0.62	265	0.125	3	0.89	0.086	0.40	3.1	0.19	1.9	5.2	0.19	4	5.0	4.8
STD DS8	Standard	15	123	0.62	277	0.133	2	0.95	0.088	0.43	2.9	0.18	2.0	5.5	0.19	5	5.6	4.6
STD DS8	Standard	14	119	0.61	267	0.110	2	0.89	0.085	0.40	2.7	0.20	1.7	5.3	0.08	5	4.6	4.6
STD DS8	Standard	14	110	0.60	272	0.107	2	0.90	0.087	0.40	2.6	0.18	1.6	5.1	0.07	5	4.1	4.2
STD DS8	Standard	15	121	0.61	252	0.124	3	0.92	0.100	0.41	3.0	0.23	1.9	5.3	0.14	5	6.4	5.0
STD DS8	Standard	16	120	0.62	280	0.126	3	0.93	0.104	0.44	2.9	0.20	2.1	5.3	0.11	5	5.7	4.9
STD DS8	Standard	14	115	0.61	277	0.118	3	0.89	0.090	0.46	3.0	0.20	1.8	5.5	0.18	5	4.9	4.8
STD DS8	Standard	14	119	0.62	267	0.115	4	0.94	0.091	0.45	3.1	0.20	2.0	5.1	0.16	4	4.5	4.9
STD DS8	Standard	13	117	0.60	279	0.111	4	0.86	0.079	0.40	3.0	0.20	1.7	5.8	0.12	5	5.6	6.0
STD DS8	Standard	14	118	0.63	276	0.117	3	0.94	0.086	0.39	3.3	0.22	2.1	5.8	0.18	5	5.3	5.2
STD DS8	Standard	15	118	0.61	281	0.127	3	0.91	0.094	0.41	2.8	0.21	1.9	5.4	0.13	5	5.9	5.4
STD DS8	Standard	15	122	0.62	281	0.129	2	0.92	0.100	0.43	3.0	0.20	1.9	5.4	0.10	5	5.2	4.9
STD DS8	Standard	15	116	0.61	285	0.124	3	0.90	0.085	0.41	3.0	0.20	2.1	5.5	0.16	5	5.0	4.7
STD DS8	Standard	15	114	0.61	282	0.122	2	0.90	0.086	0.40	3.0	0.19	2.1	5.4	0.17	5	5.0	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



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Project: Montana

Report Date: June 26, 2011

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QUALITY CONTROL REPORT

WHI11000229.1

		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	<0.1	<0.1	<1	<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: Montana

Report Date: June 26, 2011

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000229.1

		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: June 16, 2011
Report Date: June 26, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000230.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110612170842
P.O. Number
Number of Samples: 291

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.

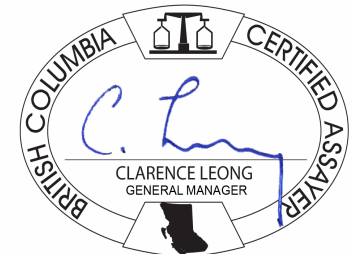
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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. ** 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: Montana
 Report Date: June 26, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000230.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
111053	Soil	0.7	20.1	7.2	35	<0.1	14.6	4.8	162	1.78	6.9	0.8	6.3	3.8	11	<0.1	0.6	0.1	44	0.08	0.015
111054	Soil	1.7	35.7	15.3	59	<0.1	28.2	9.3	403	2.65	9.2	1.2	7.0	6.2	36	<0.1	1.0	0.2	48	0.30	0.022
111055	Soil	1.8	35.2	27.7	80	0.1	24.8	8.6	276	1.77	7.2	2.5	5.4	10.5	36	<0.1	0.7	0.4	33	0.37	0.015
111056	Soil	2.1	32.5	14.0	78	0.1	29.1	9.8	463	3.27	9.5	1.3	7.2	7.7	56	<0.1	0.7	0.2	54	0.34	0.042
111057	Soil	1.4	20.0	14.5	36	0.1	20.4	5.6	180	1.92	5.7	3.7	5.2	6.1	77	<0.1	0.4	0.3	44	0.57	0.021
111058	Soil	1.1	33.6	50.6	61	<0.1	22.7	7.4	182	2.03	8.4	2.0	6.2	9.7	30	2.3	0.6	0.2	48	0.24	0.016
111059	Soil	1.5	32.6	35.3	72	0.2	21.3	8.0	286	2.51	11.9	1.8	6.1	6.2	65	1.2	0.7	0.2	56	0.45	0.054
111060	Soil	1.4	25.4	12.8	70	<0.1	18.4	10.8	313	2.29	9.8	1.1	8.0	7.8	22	<0.1	0.7	0.2	47	0.09	0.023
111061	Soil	0.9	23.1	11.1	69	<0.1	13.2	5.6	125	1.60	7.5	1.2	11.3	9.5	11	<0.1	0.5	0.2	38	0.04	0.016
111062	Soil	1.4	22.6	12.2	79	<0.1	15.6	6.4	173	2.12	10.8	1.1	3.0	5.9	13	<0.1	0.5	0.2	55	0.07	0.022
111063	Soil	3.5	58.8	19.7	209	0.3	52.4	8.8	520	4.35	2.8	3.8	6.7	9.5	33	0.4	0.3	0.2	64	0.27	0.084
111064	Soil	1.5	33.6	41.6	302	0.2	25.3	7.5	274	2.82	10.5	2.6	6.2	9.2	24	1.9	0.3	0.3	52	0.16	0.059
111065	Soil	1.6	31.3	10.6	332	0.1	26.1	7.4	241	2.89	12.3	2.4	4.8	8.5	24	0.2	0.4	0.2	55	0.14	0.052
111066	Soil	0.7	26.7	10.2	444	0.1	20.8	6.9	275	3.19	11.1	1.3	3.6	9.5	11	0.4	0.2	0.3	56	0.11	0.017
111067	Soil	1.8	51.2	10.8	106	0.1	51.8	12.4	247	4.54	4.7	1.6	1.6	8.5	8	<0.1	0.2	0.2	81	0.15	0.082
111068	Soil	0.5	41.3	6.3	92	<0.1	22.3	15.3	551	4.54	5.5	1.0	<0.5	6.5	38	<0.1	0.2	0.2	127	0.62	0.032
111069	Soil	0.2	35.7	1.2	37	<0.1	11.1	12.7	491	3.73	3.0	0.3	1.6	0.9	46	<0.1	0.2	<0.1	98	0.93	0.157
111070	Soil	0.4	45.4	3.8	56	<0.1	14.5	14.4	430	3.94	2.6	0.4	1.7	0.9	43	<0.1	0.2	<0.1	115	0.85	0.130
111071	Soil	0.3	39.1	4.3	24	<0.1	8.1	12.6	305	2.32	2.2	0.2	<0.5	0.6	52	<0.1	0.1	<0.1	79	0.94	0.171
111072	Soil	0.2	74.3	1.8	46	<0.1	3.7	18.0	491	3.20	2.2	0.3	<0.5	0.5	30	0.1	0.1	<0.1	88	0.86	0.089
111073	Soil	0.3	35.4	2.3	38	<0.1	7.6	10.7	248	2.54	2.4	0.2	0.7	1.1	33	<0.1	0.1	<0.1	53	0.73	0.046
111074	Soil	0.3	6.2	1.9	69	<0.1	2.1	11.0	541	3.57	1.2	0.8	0.7	3.4	17	<0.1	<0.1	<0.1	42	0.80	0.230
111075	Soil	0.4	37.9	3.3	95	<0.1	7.0	13.0	379	4.90	1.3	0.7	0.5	3.2	24	0.2	0.1	<0.1	63	0.68	0.107
111076	Soil	0.4	14.2	4.9	52	<0.1	7.7	9.4	251	2.80	3.8	0.4	0.7	2.3	15	0.2	0.2	<0.1	44	0.49	0.059
111077	Soil	0.6	20.0	7.9	91	<0.1	5.7	17.1	508	5.47	3.5	0.5	8.4	2.0	22	0.4	0.2	<0.1	134	0.57	0.076
111078	Soil	0.3	30.4	1.3	56	<0.1	11.2	12.9	318	3.62	1.2	0.3	0.7	1.8	19	<0.1	0.2	<0.1	105	0.69	0.066
111079	Soil	1.0	26.3	8.9	56	0.1	19.8	11.9	359	3.26	9.0	0.5	1.8	3.7	33	<0.1	0.6	0.2	63	0.44	0.049
111080	Soil	0.7	32.2	4.5	54	0.1	16.9	14.0	453	3.19	4.7	0.7	1.7	3.0	25	<0.1	0.3	<0.1	61	0.39	0.045
111081	Soil	0.5	49.3	1.2	59	<0.1	4.4	12.9	489	3.89	3.9	0.4	1.1	1.2	25	<0.1	0.2	<0.1	68	0.85	0.135
111082	Soil	0.5	48.1	7.3	26	<0.1	23.7	14.1	263	2.16	3.8	0.3	3.0	1.3	47	0.3	0.3	<0.1	65	0.61	0.024

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.



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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

WHI11000230.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
111053	Soil	13	24	0.30	128	0.049	<1	1.36	0.005	0.03	0.1	0.01	3.1	<0.1	0.06	4	<0.5	<0.2
111054	Soil	21	30	0.41	486	0.040	2	1.45	0.010	0.09	<0.1	0.05	4.5	0.4	<0.05	5	<0.5	<0.2
111055	Soil	32	27	0.40	299	0.010	<1	1.53	0.006	0.15	<0.1	0.09	4.0	0.8	0.05	6	<0.5	<0.2
111056	Soil	19	34	0.46	414	0.050	<1	1.66	0.014	0.18	<0.1	0.05	4.1	0.6	<0.05	5	<0.5	<0.2
111057	Soil	24	22	0.33	428	0.023	2	1.44	0.008	0.04	<0.1	0.05	3.3	0.2	0.07	5	<0.5	<0.2
111058	Soil	32	28	0.30	326	0.040	1	1.19	0.017	0.13	<0.1	0.03	5.0	0.7	0.06	5	<0.5	<0.2
111059	Soil	23	32	0.50	455	0.042	2	1.85	0.019	0.09	<0.1	0.06	4.5	0.3	0.08	6	<0.5	<0.2
111060	Soil	21	29	0.34	247	0.050	1	1.38	0.005	0.21	<0.1	0.03	4.2	0.8	<0.05	5	<0.5	<0.2
111061	Soil	23	26	0.34	189	0.061	<1	1.24	0.004	0.30	<0.1	0.04	3.0	0.6	0.08	5	<0.5	<0.2
111062	Soil	16	31	0.43	183	0.093	1	1.37	0.005	0.38	<0.1	<0.01	2.6	0.6	<0.05	6	<0.5	<0.2
111063	Soil	28	37	1.00	598	0.114	2	2.16	0.011	0.83	0.3	0.03	4.3	0.4	<0.05	7	1.5	<0.2
111064	Soil	33	31	0.46	273	0.121	1	1.49	0.017	0.58	<0.1	0.02	3.8	0.5	<0.05	6	0.5	<0.2
111065	Soil	27	31	0.45	268	0.102	<1	1.34	0.007	0.52	<0.1	0.01	4.2	0.4	<0.05	6	0.5	<0.2
111066	Soil	29	31	0.57	165	0.118	<1	2.08	0.005	0.57	<0.1	0.02	2.9	0.6	<0.05	7	<0.5	<0.2
111067	Soil	25	46	0.82	174	0.141	<1	2.23	0.007	0.81	<0.1	<0.01	3.1	0.5	<0.05	7	1.2	<0.2
111068	Soil	21	63	1.98	651	0.243	<1	3.38	0.040	0.63	<0.1	0.02	11.5	0.5	<0.05	10	<0.5	<0.2
111069	Soil	5	21	0.99	156	0.024	<1	2.57	0.061	0.04	<0.1	0.02	10.4	<0.1	<0.05	8	<0.5	<0.2
111070	Soil	6	50	0.77	133	0.011	<1	2.35	0.025	0.02	<0.1	0.02	10.0	<0.1	<0.05	7	<0.5	<0.2
111071	Soil	2	7	0.62	131	0.038	<1	2.89	0.093	0.03	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
111072	Soil	4	3	0.88	77	0.029	<1	1.83	0.065	0.04	<0.1	<0.01	7.5	<0.1	<0.05	5	<0.5	<0.2
111073	Soil	3	19	0.80	160	0.063	1	2.33	0.068	0.03	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
111074	Soil	19	5	0.67	228	0.068	<1	1.72	0.038	0.32	<0.1	<0.01	8.6	<0.1	<0.05	7	<0.5	<0.2
111075	Soil	14	22	0.94	300	0.089	<1	2.35	0.042	0.46	<0.1	<0.01	12.2	<0.1	<0.05	9	<0.5	<0.2
111076	Soil	4	18	0.62	188	0.078	<1	2.03	0.039	0.30	<0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
111077	Soil	5	8	1.18	258	0.231	<1	2.81	0.037	0.93	<0.1	<0.01	9.0	0.2	<0.05	9	<0.5	<0.2
111078	Soil	8	29	0.72	173	0.086	<1	1.67	0.056	0.06	<0.1	<0.01	7.6	<0.1	<0.05	7	<0.5	<0.2
111079	Soil	9	31	0.57	397	0.067	2	2.35	0.016	0.13	0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
111080	Soil	6	29	0.85	302	0.172	1	2.06	0.017	0.22	<0.1	0.02	5.1	0.1	<0.05	7	<0.5	<0.2
111081	Soil	5	5	0.62	125	0.040	<1	1.95	0.066	0.11	<0.1	<0.01	8.3	<0.1	<0.05	6	<0.5	<0.2
111082	Soil	4	70	0.80	243	0.024	<1	2.59	0.044	0.03	<0.1	0.01	5.7	<0.1	<0.05	5	<0.5	<0.2

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

WHI11000230.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
108040	Soil	1.1	19.5	11.3	54	<0.1	17.1	8.9	343	2.97	8.9	1.2	2.2	7.9	24	0.1	0.5	0.2	66	0.26	0.022
108041	Soil	1.3	15.5	6.9	84	<0.1	11.6	14.3	1114	3.84	8.5	1.2	1.3	6.9	17	<0.1	0.5	0.1	62	0.19	0.069
108042	Soil	1.5	24.4	8.2	54	<0.1	16.0	9.6	417	3.06	8.9	0.4	1.1	2.9	18	<0.1	0.4	0.2	69	0.19	0.036
108043	Soil	0.7	24.3	2.1	72	<0.1	8.8	18.9	623	5.56	2.0	0.5	<0.5	2.9	26	<0.1	0.2	<0.1	116	0.48	0.082
108044	Soil	1.0	11.3	7.4	72	<0.1	13.1	12.7	604	4.37	6.8	0.5	0.9	3.6	16	<0.1	0.5	0.1	76	0.18	0.032
108045	Soil	0.7	18.6	1.9	80	<0.1	4.7	13.0	590	4.19	1.2	0.9	0.6	4.7	13	<0.1	0.1	<0.1	74	0.37	0.101
108046	Soil	0.8	32.7	3.0	90	<0.1	6.1	14.0	687	5.11	2.2	0.9	0.8	4.4	12	<0.1	0.1	<0.1	97	0.29	0.101
108047	Soil	0.4	19.2	4.7	52	<0.1	12.3	11.1	299	2.74	5.0	0.7	3.5	4.0	23	<0.1	0.3	<0.1	62	0.38	0.066
108048	Soil	0.9	51.6	2.4	70	<0.1	14.9	20.4	663	5.08	3.0	0.4	0.7	1.6	15	0.1	0.3	<0.1	126	0.59	0.131
108049	Soil	1.0	35.0	8.0	67	<0.1	13.8	11.4	375	3.26	6.5	2.1	1.3	5.6	21	<0.1	0.5	0.4	62	0.27	0.029
108050	Soil	1.1	32.5	8.4	67	<0.1	13.9	9.7	365	3.92	4.2	1.0	3.0	6.5	13	<0.1	0.3	0.1	77	0.17	0.027
108051	Soil	1.1	9.6	0.6	53	<0.1	2.4	13.7	548	5.00	1.0	0.9	0.5	3.0	17	<0.1	0.2	<0.1	75	0.46	0.121
108052	Soil	1.7	11.3	2.0	39	<0.1	11.4	12.5	677	4.52	2.5	1.8	1.0	5.2	23	<0.1	0.3	<0.1	52	0.43	0.080
108053	Soil	1.9	9.5	2.0	63	<0.1	7.8	15.4	782	6.08	2.3	1.6	<0.5	2.1	31	<0.1	0.3	<0.1	94	0.65	0.111
108054	Soil	0.7	32.1	4.4	65	<0.1	18.3	20.9	339	3.98	2.1	0.7	5.0	3.5	17	<0.1	0.2	<0.1	120	0.42	0.040
108055	Soil	1.0	25.2	6.0	54	<0.1	16.3	11.7	326	2.98	6.6	0.4	2.0	3.1	20	<0.1	0.5	0.1	63	0.34	0.026
108056	Soil	1.0	23.1	10.2	66	<0.1	25.4	11.2	378	3.29	9.5	1.0	3.8	4.9	18	<0.1	0.5	0.1	60	0.18	0.025
108058	Soil	1.1	40.8	14.1	155	<0.1	31.5	10.5	499	3.80	9.7	2.1	2.6	12.5	8	<0.1	0.7	0.2	23	0.05	0.030
108059	Soil	0.1	24.7	2.0	51	<0.1	20.9	14.3	509	2.32	1.1	0.5	2.4	1.4	11	0.1	0.1	<0.1	43	0.46	0.090
108060	Soil	0.6	17.8	4.1	113	<0.1	22.3	8.2	427	4.77	3.9	0.5	1.4	4.3	14	<0.1	0.3	0.2	67	0.18	0.033
108061	Soil	0.8	81.3	15.3	134	<0.1	23.4	22.3	639	6.31	5.3	1.2	<0.5	3.3	19	0.1	0.4	0.2	170	0.35	0.060
108062	Soil	0.1	37.3	0.8	67	<0.1	2.8	11.7	343	3.39	0.8	0.4	<0.5	1.4	26	<0.1	<0.1	<0.1	39	0.98	0.183
108063	Soil	0.2	39.1	0.8	30	<0.1	3.6	10.0	214	1.92	1.2	0.3	0.7	1.2	20	<0.1	0.1	<0.1	42	0.55	0.054
108064	Soil	0.1	40.6	0.7	72	<0.1	3.8	14.2	588	5.52	2.4	0.4	<0.5	1.3	34	<0.1	0.2	<0.1	121	0.87	0.135
108065	Soil	0.3	43.8	1.4	70	<0.1	3.9	16.9	570	4.80	2.4	0.4	<0.5	1.2	32	<0.1	0.2	<0.1	129	0.88	0.132
108066	Soil	0.4	34.1	3.5	41	<0.1	10.0	9.3	304	2.79	4.2	0.7	1.2	2.1	27	<0.1	0.2	<0.1	56	0.67	0.087
108067	Soil	<0.1	38.0	0.8	37	<0.1	2.9	12.4	398	2.93	0.7	0.2	1.5	0.6	50	<0.1	0.1	<0.1	59	1.07	0.090
108068	Soil	0.2	31.9	1.9	15	<0.1	4.2	14.6	199	2.00	2.5	0.2	0.9	0.4	97	<0.1	0.1	<0.1	59	1.34	0.013
108069	Soil	0.4	30.3	1.6	32	<0.1	3.6	8.5	210	2.07	0.6	0.4	<0.5	1.3	23	<0.1	<0.1	<0.1	42	0.91	0.203
108070	Soil	0.4	28.3	2.7	37	<0.1	7.0	9.2	246	2.59	2.9	0.2	0.8	1.1	45	<0.1	0.2	<0.1	55	0.65	0.052

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

WHI11000230.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
108040	Soil	36	36	0.56	266	0.089	1	1.92	0.014	0.09	0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
108041	Soil	23	23	0.58	191	0.081	1	2.25	0.008	0.32	<0.1	0.02	5.0	0.2	<0.05	9	<0.5	<0.2
108042	Soil	10	27	0.60	193	0.088	2	2.07	0.013	0.16	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
108043	Soil	8	20	1.64	325	0.203	<1	3.26	0.026	0.72	<0.1	<0.01	7.7	0.2	<0.05	10	<0.5	<0.2
108044	Soil	11	24	0.96	378	0.204	<1	2.59	0.010	0.60	<0.1	0.01	7.2	0.3	<0.05	10	<0.5	<0.2
108045	Soil	19	11	1.56	429	0.191	<1	2.31	0.017	0.96	<0.1	<0.01	8.4	0.3	<0.05	9	<0.5	<0.2
108046	Soil	12	15	1.37	448	0.260	<1	2.62	0.015	1.20	<0.1	0.01	9.5	0.3	<0.05	11	0.5	<0.2
108047	Soil	13	22	0.77	274	0.092	<1	1.59	0.015	0.14	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
108048	Soil	6	25	0.84	187	0.100	<1	2.28	0.043	0.31	<0.1	0.02	6.8	<0.1	<0.05	9	<0.5	<0.2
108049	Soil	21	26	0.70	309	0.095	<1	1.83	0.014	0.14	0.1	0.08	7.9	0.1	<0.05	6	<0.5	<0.2
108050	Soil	14	25	0.74	238	0.129	<1	2.38	0.012	0.40	0.2	0.01	7.5	0.2	<0.05	9	<0.5	<0.2
108051	Soil	14	5	1.35	518	0.280	<1	2.68	0.019	1.45	<0.1	0.02	10.5	0.4	<0.05	10	<0.5	<0.2
108052	Soil	28	107	0.72	329	0.013	<1	1.86	0.011	0.25	<0.1	0.05	9.9	<0.1	<0.05	10	<0.5	<0.2
108053	Soil	12	8	1.04	447	0.070	<1	2.81	0.015	0.52	<0.1	0.07	13.7	<0.1	<0.05	12	<0.5	<0.2
108054	Soil	15	33	1.69	343	0.153	<1	2.46	0.027	0.39	0.2	0.01	8.1	0.2	<0.05	8	<0.5	<0.2
108055	Soil	8	30	0.62	207	0.128	<1	1.98	0.013	0.21	0.1	<0.01	5.2	0.1	0.16	7	1.0	<0.2
108056	Soil	14	35	0.51	302	0.076	<1	1.93	0.009	0.13	0.1	0.01	3.8	0.1	0.11	6	0.6	<0.2
108058	Soil	35	11	0.21	112	0.041	<1	0.72	0.004	0.25	<0.1	0.02	6.5	0.3	0.12	4	0.6	<0.2
108059	Soil	5	87	0.66	176	0.054	<1	0.98	0.020	0.21	<0.1	<0.01	6.5	<0.1	0.09	4	0.5	<0.2
108060	Soil	19	34	1.35	377	0.209	<1	2.88	0.026	0.86	0.1	<0.01	14.1	0.3	0.08	13	<0.5	<0.2
108061	Soil	13	67	3.08	911	0.331	<1	4.45	0.020	1.95	0.1	<0.01	20.2	0.6	0.07	16	1.0	<0.2
108062	Soil	7	4	0.56	170	0.030	<1	1.63	0.033	0.22	<0.1	<0.01	7.7	<0.1	0.06	6	<0.5	<0.2
108063	Soil	5	6	0.47	157	0.047	<1	1.35	0.041	0.05	<0.1	<0.01	6.2	<0.1	0.07	4	<0.5	<0.2
108064	Soil	7	7	0.92	242	0.057	<1	2.66	0.048	0.43	<0.1	0.01	12.6	<0.1	<0.05	9	0.7	<0.2
108065	Soil	6	6	0.77	217	0.057	<1	2.24	0.051	0.27	<0.1	<0.01	11.7	<0.1	<0.05	7	<0.5	<0.2
108066	Soil	11	15	0.49	192	0.056	<1	1.80	0.044	0.08	<0.1	0.01	6.6	<0.1	<0.05	5	<0.5	<0.2
108067	Soil	4	2	0.77	148	0.024	<1	1.95	0.089	0.06	<0.1	<0.01	8.3	<0.1	<0.05	5	0.6	<0.2
108068	Soil	2	6	0.78	222	0.027	<1	3.93	0.148	0.02	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
108069	Soil	7	5	0.38	76	0.035	<1	1.23	0.044	0.06	<0.1	<0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
108070	Soil	4	14	0.52	175	0.041	<1	2.10	0.040	0.04	<0.1	<0.01	5.6	<0.1	<0.05	5	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

WHI11000230.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
108071	Soil	0.2	16.4	0.8	14	<0.1	2.4	6.6	167	1.01	<0.5	0.2	<0.5	0.4	55	<0.1	<0.1	<0.1	33	0.99	0.037
108072	Soil	0.3	130.2	1.9	37	<0.1	7.2	16.0	319	5.49	8.1	0.7	1.3	0.7	60	<0.1	0.3	<0.1	108	1.16	0.325
108073	Soil	<0.1	17.0	1.8	12	<0.1	2.6	7.4	161	0.95	<0.5	0.1	1.4	0.2	81	<0.1	<0.1	<0.1	22	0.88	0.025
108074	Soil	0.4	50.5	1.9	23	<0.1	5.6	15.9	266	2.56	2.4	0.2	<0.5	0.4	53	<0.1	0.1	<0.1	106	0.85	0.026
108075	Soil	0.7	30.2	5.1	31	<0.1	10.7	8.5	202	2.24	3.9	1.0	1.0	2.2	44	<0.1	0.2	<0.1	63	0.64	0.058
108076	Soil	<0.1	42.8	0.6	21	<0.1	5.8	9.5	173	1.42	<0.5	0.3	<0.5	1.4	22	<0.1	<0.1	<0.1	35	0.54	0.059
108077	Soil	0.3	25.7	2.2	30	<0.1	8.6	10.7	235	2.35	1.8	0.3	<0.5	1.7	85	<0.1	0.2	<0.1	57	0.79	0.091
108078	Soil	0.4	39.3	3.4	37	<0.1	8.1	9.8	229	2.47	3.6	0.5	<0.5	2.2	148	<0.1	0.3	<0.1	46	0.68	0.070
108079	Soil	0.3	31.6	1.4	35	<0.1	7.1	10.3	228	2.33	1.4	0.4	1.9	1.1	100	<0.1	0.1	<0.1	53	0.66	0.070
108080	Soil	0.3	22.3	1.6	27	<0.1	4.5	9.4	262	2.27	1.0	0.6	0.8	1.8	138	<0.1	0.1	<0.1	45	1.05	0.111
108081	Soil	0.3	41.3	1.7	43	<0.1	6.1	17.1	366	3.69	1.6	0.8	1.7	1.5	142	<0.1	0.2	<0.1	114	0.71	0.035
108082	Soil	0.4	45.9	1.5	62	<0.1	5.3	16.4	332	3.74	1.9	0.5	3.4	1.0	41	<0.1	0.2	<0.1	73	0.66	0.080
108083	Soil	0.3	48.3	1.5	76	<0.1	4.7	14.8	383	4.24	3.0	0.6	1.7	1.5	75	<0.1	0.1	<0.1	48	0.80	0.145
108084	Soil	1.8	56.8	12.3	68	<0.1	35.0	14.9	485	3.50	11.5	0.8	4.5	6.3	26	<0.1	1.0	0.2	70	0.22	0.022
108085	Soil	1.5	50.0	12.4	62	<0.1	31.2	13.2	293	3.29	10.0	1.2	6.7	6.8	22	<0.1	0.7	0.3	72	0.18	0.015
108086	Soil	1.3	41.7	12.5	72	0.1	27.7	12.5	292	3.24	9.7	1.9	5.9	7.3	16	<0.1	0.7	0.2	74	0.12	0.022
108087	Soil	1.6	36.3	9.5	31	<0.1	11.1	4.3	76	1.78	5.5	1.6	2.8	9.8	12	<0.1	0.5	0.2	52	0.03	0.026
108088	Soil	1.7	58.5	22.6	83	<0.1	26.1	10.5	215	2.81	4.8	1.5	2.5	9.1	13	<0.1	0.4	0.2	68	0.06	0.029
108089	Soil	1.2	31.6	12.3	49	0.4	18.2	9.5	285	2.69	8.2	1.0	3.7	5.0	12	<0.1	0.6	0.2	67	0.09	0.023
108090	Soil	1.4	26.7	12.9	55	0.4	20.1	14.0	333	2.93	10.6	1.0	6.0	5.2	13	<0.1	0.6	0.2	73	0.09	0.024
108091	Soil	1.2	29.5	9.6	61	0.2	20.6	6.0	180	2.71	6.4	1.1	2.7	7.6	9	<0.1	0.5	0.2	45	0.07	0.024
108092	Soil	1.5	54.3	13.4	103	<0.1	30.9	10.4	213	3.43	4.5	1.8	3.6	12.3	12	<0.1	0.4	0.2	68	0.07	0.043
108093	Soil	1.2	18.3	8.5	101	<0.1	14.1	4.3	459	2.76	2.8	1.4	4.2	11.1	5	<0.1	0.3	0.2	18	0.06	0.023
108094	Soil	0.9	16.3	7.8	32	<0.1	8.7	5.4	281	1.34	2.7	1.1	1.9	7.9	10	<0.1	0.3	0.2	21	0.02	0.015
108095	Soil	1.5	50.5	12.6	82	0.1	32.7	11.4	233	3.22	4.3	2.0	2.7	7.8	8	<0.1	0.4	0.3	81	0.06	0.032
108096	Soil	1.3	39.1	10.7	47	<0.1	21.5	6.0	99	2.31	1.8	2.6	2.2	10.8	6	<0.1	0.2	0.3	59	0.05	0.028
108097	Soil	1.2	43.1	22.6	111	<0.1	15.4	5.9	215	2.61	1.0	3.0	4.8	19.2	6	0.1	0.4	0.3	49	0.04	0.032
108098	Soil	1.7	43.3	12.8	78	<0.1	20.4	21.4	543	2.59	6.7	2.2	4.0	11.2	3	<0.1	1.5	0.4	46	0.02	0.038
108099	Soil	1.7	35.5	7.0	40	0.2	15.9	9.5	192	2.25	5.0	1.7	5.0	9.1	9	<0.1	0.5	0.3	51	0.04	0.022
108100	Soil	1.3	38.4	8.0	75	<0.1	22.9	14.1	347	2.82	2.8	2.8	3.0	13.0	7	<0.1	0.4	0.3	49	0.03	0.031

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Project: Montana
 Report Date: June 26, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
108071	Soil	2	2	0.35	184	0.020	<1	2.06	0.172	0.03	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
108072	Soil	4	7	0.49	234	0.039	<1	2.37	0.034	0.13	<0.1	<0.01	7.0	<0.1	<0.05	5	<0.5	<0.2
108073	Soil	<1	4	0.38	174	0.009	<1	2.55	0.090	0.03	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
108074	Soil	2	6	0.66	179	0.039	<1	2.19	0.097	0.05	<0.1	<0.01	6.9	<0.1	<0.05	4	<0.5	<0.2
108075	Soil	11	18	0.52	172	0.046	<1	1.81	0.044	0.03	<0.1	0.02	5.5	<0.1	<0.05	4	<0.5	<0.2
108076	Soil	5	7	0.59	144	0.080	<1	1.49	0.046	0.09	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
108077	Soil	6	21	0.69	278	0.066	<1	2.12	0.058	0.06	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
108078	Soil	9	27	0.66	316	0.044	<1	2.24	0.042	0.04	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
108079	Soil	5	14	0.67	150	0.029	<1	1.52	0.036	0.04	<0.1	<0.01	5.2	<0.1	<0.05	4	<0.5	<0.2
108080	Soil	8	12	0.70	272	0.045	<1	2.54	0.116	0.05	<0.1	<0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
108081	Soil	7	6	0.79	322	0.044	1	2.21	0.052	0.03	<0.1	0.02	9.5	<0.1	<0.05	6	<0.5	<0.2
108082	Soil	6	8	0.72	149	0.045	1	1.97	0.034	0.04	<0.1	0.02	8.0	<0.1	0.06	6	<0.5	<0.2
108083	Soil	9	9	0.70	226	0.062	<1	1.93	0.029	0.14	<0.1	<0.01	8.8	<0.1	<0.05	7	<0.5	<0.2
108084	Soil	18	38	0.56	410	0.080	2	1.75	0.010	0.08	0.1	0.07	6.3	0.2	<0.05	5	0.6	<0.2
108085	Soil	21	43	0.57	363	0.095	<1	2.13	0.007	0.07	0.1	0.06	7.3	0.2	<0.05	6	<0.5	<0.2
108086	Soil	21	45	0.55	323	0.103	1	2.10	0.008	0.11	0.1	0.06	6.3	0.2	<0.05	6	<0.5	<0.2
108087	Soil	24	20	0.11	187	0.018	<1	0.83	0.002	0.04	<0.1	0.03	2.8	0.1	<0.05	3	1.0	<0.2
108088	Soil	18	38	0.37	281	0.107	<1	1.60	0.005	0.27	<0.1	0.03	4.3	0.5	<0.05	5	0.7	<0.2
108089	Soil	16	32	0.36	247	0.064	1	1.65	0.006	0.05	<0.1	0.03	4.0	0.2	<0.05	6	<0.5	<0.2
108090	Soil	17	36	0.47	280	0.070	<1	2.13	0.007	0.06	<0.1	0.04	4.6	0.3	<0.05	6	<0.5	<0.2
108091	Soil	13	25	0.34	174	0.062	<1	1.63	0.004	0.16	<0.1	0.04	4.0	0.4	<0.05	5	<0.5	<0.2
108092	Soil	29	36	0.49	445	0.156	1	1.61	0.005	0.49	<0.1	0.05	5.6	0.6	<0.05	6	<0.5	<0.2
108093	Soil	19	10	0.31	160	0.081	<1	1.21	0.003	0.40	0.1	0.03	6.7	0.6	<0.05	7	<0.5	<0.2
108094	Soil	13	11	0.10	125	0.015	<1	0.63	0.001	0.04	<0.1	0.04	3.7	0.1	<0.05	3	0.7	<0.2
108095	Soil	21	44	0.53	193	0.134	<1	1.78	0.007	0.34	<0.1	0.05	5.6	0.3	<0.05	6	1.0	<0.2
108096	Soil	30	31	0.28	141	0.073	<1	1.08	0.004	0.22	<0.1	0.05	3.7	0.3	<0.05	4	0.7	<0.2
108097	Soil	30	30	0.26	207	0.105	<1	1.08	0.003	0.38	<0.1	0.08	4.3	0.4	<0.05	5	0.8	<0.2
108098	Soil	31	25	0.21	144	0.056	<1	0.92	0.004	0.18	<0.1	0.07	5.6	0.3	<0.05	3	0.7	<0.2
108099	Soil	26	27	0.24	178	0.036	<1	1.29	0.004	0.06	<0.1	0.02	3.8	0.1	<0.05	4	<0.5	<0.2
108100	Soil	36	29	0.31	181	0.078	<1	1.21	0.004	0.28	<0.1	0.07	4.7	0.3	<0.05	4	0.6	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
108101	Soil	2.4	52.9	17.4	156	0.1	54.4	21.4	541	5.43	1.6	2.2	12.0	9.5	6	<0.1	0.4	0.4	87	0.06	0.076
108102	Soil	1.2	29.0	9.6	124	<0.1	29.0	12.1	670	3.56	1.4	1.0	2.9	7.6	4	<0.1	0.2	0.2	104	0.06	0.033
108103	Soil	1.9	34.5	16.8	244	<0.1	72.7	16.6	371	6.76	0.9	2.3	9.6	25.3	11	<0.1	<0.1	0.4	171	0.56	0.198
108104	Soil	0.7	57.3	11.7	89	<0.1	29.9	12.1	609	3.76	1.2	1.3	5.2	17.2	6	<0.1	0.1	0.2	63	0.13	0.029
108105	Soil	1.1	19.7	6.2	20	0.2	18.7	6.5	602	2.91	3.9	0.7	17.3	10.5	11	<0.1	0.3	0.8	36	0.18	0.027
108106	Soil	1.8	38.3	11.7	76	0.4	40.7	11.8	425	3.12	9.5	0.9	4.9	9.3	20	<0.1	0.6	0.2	78	0.31	0.039
108107	Soil	2.8	65.9	9.1	97	0.2	35.1	12.8	527	3.77	4.1	1.4	1.7	15.3	11	<0.1	0.3	0.4	66	0.22	0.028
108108	Soil	0.7	26.6	7.6	72	0.2	22.3	8.3	614	3.43	1.5	0.9	3.2	14.1	9	<0.1	0.1	0.2	71	0.33	0.046
108109	Soil	1.2	54.0	17.9	177	0.1	49.6	14.5	626	4.48	0.6	1.2	3.7	20.7	7	0.1	<0.1	0.3	93	0.29	0.063
108110	Soil	0.8	42.2	6.1	101	0.2	23.9	8.2	500	4.06	2.6	1.4	13.5	17.7	10	0.1	0.2	0.5	60	0.24	0.034
108111	Soil	1.3	24.3	13.2	134	0.2	22.1	9.2	616	3.85	2.4	1.6	2.0	25.5	12	0.2	0.2	0.3	56	0.25	0.025
108112	Soil	1.9	40.0	11.2	302	0.6	40.7	13.1	559	4.16	1.4	0.9	1.2	9.1	13	0.2	0.1	0.3	89	0.25	0.060
108113	Soil	0.8	35.8	7.1	83	<0.1	30.2	9.0	449	3.17	2.7	1.3	2.7	17.8	10	<0.1	0.2	0.3	52	0.20	0.028
108114	Soil	1.2	70.8	9.2	89	0.8	35.5	11.0	627	3.14	6.7	1.6	13.9	16.4	24	<0.1	0.6	0.2	53	0.51	0.051
108115	Soil	1.2	56.7	8.2	94	0.8	31.0	10.6	671	3.16	5.3	1.7	8.7	18.0	20	<0.1	0.5	0.2	49	0.40	0.049
108116	Soil	1.7	33.1	12.7	53	0.1	20.2	8.4	355	1.89	0.8	1.5	4.1	7.1	12	<0.1	0.4	0.3	36	0.11	0.032
108117	Soil	1.2	49.0	15.0	84	<0.1	41.4	12.1	240	3.60	2.6	1.8	5.6	4.6	11	<0.1	0.3	0.3	84	0.20	0.069
108118	Soil	0.4	32.7	15.5	73	<0.1	25.7	11.7	308	3.36	<0.5	1.6	7.4	15.7	15	<0.1	0.3	0.3	77	0.27	0.031
108119	Soil	0.8	24.0	11.3	61	<0.1	31.4	13.0	423	3.38	<0.5	1.5	5.5	17.7	22	<0.1	0.3	0.4	46	0.42	0.031
0115001	Soil	1.0	27.7	84.5	191	0.1	24.4	8.4	240	2.97	5.5	1.2	4.3	5.1	13	<0.1	0.4	0.2	63	0.19	0.038
0115002	Soil	0.5	45.0	11.5	73	0.3	35.5	10.4	260	3.27	4.0	1.6	0.7	7.1	17	<0.1	0.3	0.2	64	0.23	0.046
0115003	Soil	0.6	26.7	19.0	170	0.1	24.4	8.4	247	2.86	5.0	1.2	2.9	8.2	14	<0.1	0.4	0.2	52	0.16	0.021
0115004	Soil	3.9	48.6	55.3	412	<0.1	58.8	19.2	271	3.36	10.0	1.9	2.5	8.5	20	0.4	0.6	0.2	59	0.13	0.034
0115005	Soil	1.6	35.7	30.1	159	<0.1	30.9	7.6	144	2.25	4.9	2.0	3.9	8.1	15	0.1	0.2	0.2	46	0.20	0.046
0115006	Soil	1.5	27.0	16.1	61	0.1	26.9	10.0	379	2.37	9.0	1.5	3.7	5.6	60	0.1	0.6	0.2	51	0.44	0.061
0115007	Soil	2.8	31.7	13.9	71	<0.1	63.4	14.2	870	2.85	8.1	1.0	3.4	5.3	68	0.2	0.5	0.2	51	0.80	0.074
0115008	Soil	1.0	10.8	12.7	40	<0.1	11.6	4.8	317	1.92	4.2	0.7	3.1	3.3	25	<0.1	0.3	0.2	49	0.14	0.033
0115009	Soil	0.9	28.6	10.3	54	0.1	25.0	7.8	262	2.40	7.6	1.4	2.9	4.8	45	<0.1	0.5	0.2	48	0.46	0.065
0115010	Soil	1.3	14.6	16.4	49	<0.1	17.3	8.7	459	2.23	8.1	1.7	1.5	10.6	114	<0.1	0.3	0.2	38	0.69	0.072
0115011	Soil	2.6	7.4	16.3	39	<0.1	9.3	3.4	157	1.44	4.7	1.5	<0.5	3.2	203	<0.1	0.2	0.2	27	0.48	0.021

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
108101	Soil	28	49	0.52	184	0.129	<1	1.60	0.008	0.55	<0.1	0.04	6.6	0.4	<0.05	5	1.6	<0.2
108102	Soil	13	50	0.64	311	0.280	<1	2.00	0.005	0.93	<0.1	0.03	7.4	0.6	<0.05	8	<0.5	<0.2
108103	Soil	34	102	1.38	743	0.397	<1	3.67	0.017	1.98	<0.1	0.02	7.8	1.1	<0.05	13	0.9	<0.2
108104	Soil	44	32	0.60	189	0.215	<1	2.12	0.005	0.81	<0.1	0.01	5.2	0.6	<0.05	8	<0.5	<0.2
108105	Soil	13	23	0.40	226	0.094	<1	1.53	0.004	0.48	<0.1	0.02	3.0	0.4	<0.05	6	<0.5	<0.2
108106	Soil	36	51	0.61	300	0.154	<1	1.95	0.013	0.32	0.2	0.03	5.3	0.2	<0.05	6	<0.5	<0.2
108107	Soil	23	34	0.69	257	0.213	<1	2.13	0.006	1.03	0.2	0.02	5.6	0.8	<0.05	7	<0.5	<0.2
108108	Soil	28	35	0.57	363	0.205	<1	2.22	0.007	1.10	0.3	0.02	7.8	0.7	<0.05	9	0.6	<0.2
108109	Soil	46	50	0.88	309	0.314	<1	2.49	0.007	1.38	<0.1	<0.01	4.1	0.9	<0.05	9	0.5	<0.2
108110	Soil	36	32	0.53	403	0.198	1	2.51	0.010	0.90	0.2	0.02	7.3	0.9	<0.05	9	0.6	<0.2
108111	Soil	22	32	0.80	219	0.216	<1	2.48	0.009	1.24	<0.1	0.02	4.9	0.9	<0.05	11	<0.5	<0.2
108112	Soil	22	49	0.70	276	0.267	<1	2.21	0.007	1.15	0.2	0.02	4.6	0.7	<0.05	8	<0.5	<0.2
108113	Soil	45	33	0.57	196	0.200	<1	2.07	0.009	0.90	0.2	0.01	4.8	0.7	<0.05	8	<0.5	<0.2
108114	Soil	47	30	0.59	348	0.142	<1	1.56	0.020	0.45	0.1	0.11	4.8	0.5	<0.05	6	0.9	<0.2
108115	Soil	45	30	0.56	315	0.155	<1	1.57	0.018	0.52	0.1	0.11	4.6	0.6	<0.05	6	0.8	<0.2
108116	Soil	22	21	0.09	135	0.008	1	0.48	0.003	0.07	<0.1	0.11	2.6	<0.1	0.07	2	<0.5	<0.2
108117	Soil	12	51	0.89	270	0.219	2	2.03	0.019	0.90	0.1	0.02	5.5	0.5	<0.05	7	<0.5	<0.2
108118	Soil	32	45	0.74	235	0.100	2	1.73	0.006	0.41	<0.1	0.03	7.5	0.4	<0.05	7	<0.5	<0.2
108119	Soil	35	53	0.88	234	0.094	<1	2.15	0.007	0.44	<0.1	0.01	6.7	0.4	<0.05	8	<0.5	<0.2
0115001	Soil	20	37	0.50	156	0.095	2	1.63	0.006	0.25	0.1	0.02	2.3	0.2	<0.05	6	<0.5	<0.2
0115002	Soil	22	40	0.59	219	0.117	2	1.62	0.008	0.39	0.2	0.03	4.4	0.3	<0.05	5	<0.5	<0.2
0115003	Soil	23	33	0.54	190	0.133	<1	1.71	0.007	0.33	0.1	0.01	3.3	0.3	<0.05	6	<0.5	<0.2
0115004	Soil	25	42	0.56	202	0.136	2	1.55	0.006	0.61	<0.1	<0.01	3.5	0.6	<0.05	5	<0.5	<0.2
0115005	Soil	28	38	0.52	178	0.123	<1	1.28	0.007	0.70	<0.1	0.02	3.6	1.3	<0.05	6	<0.5	<0.2
0115006	Soil	19	37	0.42	366	0.064	<1	1.54	0.019	0.06	<0.1	0.04	4.4	0.1	<0.05	5	<0.5	<0.2
0115007	Soil	21	51	0.63	362	0.032	1	1.76	0.018	0.17	<0.1	0.02	6.2	0.3	<0.05	5	<0.5	<0.2
0115008	Soil	11	18	0.23	261	0.049	<1	1.67	0.010	0.04	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
0115009	Soil	18	33	0.52	345	0.069	<1	1.71	0.018	0.05	0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
0115010	Soil	29	19	0.66	543	0.037	2	1.90	0.030	0.19	<0.1	<0.01	4.1	0.3	<0.05	5	<0.5	<0.2
0115011	Soil	16	14	0.34	867	0.006	<1	1.51	0.019	0.12	<0.1	<0.01	1.5	0.2	<0.05	3	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

WHI11000230.1

Method	Analyte	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
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
0115012	Soil	5.5	7.6	14.2	51	<0.1	9.6	5.7	176	1.71	10.4	2.8	2.4	5.1	303	<0.1	0.3	0.2	35	0.54	0.030
0115013	Soil	2.2	9.7	21.2	43	<0.1	12.9	4.2	272	1.22	4.2	2.2	3.0	4.0	177	<0.1	0.3	0.2	24	0.58	0.033
0115014	Soil	2.4	20.2	19.4	59	<0.1	36.2	8.8	332	1.93	10.7	3.3	2.1	6.6	152	0.1	0.4	0.3	43	0.67	0.056
0115015	Soil	2.7	21.0	20.5	63	0.1	21.4	8.2	305	1.87	8.2	2.3	19.7	4.0	83	<0.1	0.5	0.3	35	0.51	0.036
0115016	Soil	1.3	30.6	7.4	46	0.2	17.9	15.7	470	3.15	5.6	0.8	1.8	4.1	22	<0.1	0.4	0.1	66	0.34	0.039
0112055	Soil	3.2	12.4	6.7	102	<0.1	8.1	13.1	3014	4.94	1.5	1.3	1.4	6.7	28	<0.1	0.2	<0.1	30	0.21	0.021
0112056	Soil	1.0	27.7	3.6	93	<0.1	18.9	28.0	509	7.17	0.8	1.5	<0.5	3.2	35	<0.1	0.3	<0.1	217	0.66	0.063
0112057	Soil	1.2	23.7	7.5	81	<0.1	17.9	14.7	476	4.43	5.4	2.1	1.0	6.4	34	<0.1	0.7	0.1	94	0.41	0.035
0112058	Soil	0.8	82.7	3.2	99	<0.1	26.3	34.8	1088	7.20	2.6	0.8	<0.5	1.2	46	<0.1	0.3	<0.1	173	0.81	0.061
0112059	Soil	1.0	10.8	6.6	68	<0.1	7.6	7.6	406	3.38	1.2	1.8	<0.5	9.9	19	<0.1	0.3	<0.1	54	0.24	0.041
0112060	Soil	1.1	27.1	3.7	77	<0.1	11.2	13.6	544	4.92	1.2	1.9	<0.5	5.3	30	<0.1	0.3	<0.1	74	0.48	0.052
0112061	Soil	0.5	8.9	2.3	40	<0.1	6.4	9.9	442	2.49	1.4	0.4	<0.5	1.5	17	<0.1	0.2	<0.1	48	0.53	0.074
0112062	Soil	0.6	40.7	1.3	103	<0.1	5.4	17.6	469	4.73	<0.5	0.4	0.7	3.2	13	<0.1	<0.1	<0.1	74	0.50	0.081
0112063	Soil	1.1	35.4	6.3	63	<0.1	14.7	12.8	315	3.98	6.8	0.5	<0.5	3.6	15	<0.1	0.5	0.1	68	0.22	0.025
0112064	Soil	1.2	11.5	5.0	41	<0.1	12.2	11.0	227	4.03	4.9	0.5	1.4	4.5	18	<0.1	0.3	0.1	35	0.35	0.036
0112065	Soil	1.4	19.6	4.9	47	<0.1	10.5	13.5	242	4.00	3.9	0.3	0.8	1.7	47	<0.1	0.6	<0.1	81	0.47	0.021
0112066	Soil	0.5	23.4	1.5	84	<0.1	6.4	16.1	414	4.16	<0.5	0.4	1.2	1.6	19	<0.1	0.2	<0.1	92	0.51	0.050
0112067	Soil	1.0	23.7	3.5	35	<0.1	9.9	13.9	361	3.02	2.3	0.4	1.1	2.1	13	<0.1	0.3	<0.1	86	0.52	0.059
0112068	Soil	1.6	60.7	16.4	79	<0.1	27.8	10.0	89	2.94	1.3	2.3	0.9	10.8	9	<0.1	0.8	0.3	79	0.04	0.039
0112069	Soil	1.8	55.9	9.9	56	<0.1	26.9	15.0	372	2.64	4.6	1.3	2.9	8.6	16	<0.1	0.7	0.2	52	0.11	0.021
0112070	Soil	1.1	50.7	15.1	100	<0.1	31.1	9.4	226	2.53	2.6	1.6	1.5	8.3	17	<0.1	0.4	0.3	63	0.05	0.043
0112071	Soil	1.0	67.4	9.1	114	<0.1	33.6	11.6	301	3.21	2.3	1.6	3.9	4.9	6	<0.1	0.3	0.3	70	0.02	0.041
0112072	Soil	1.6	50.7	11.8	80	<0.1	22.6	9.5	343	2.54	6.5	1.9	3.7	9.8	9	<0.1	0.7	0.4	52	0.02	0.036
0112073	Soil	1.9	30.0	14.7	50	0.1	16.3	6.7	193	2.12	6.1	1.3	1.6	6.0	13	0.2	1.5	0.2	48	0.04	0.042
0112074	Soil	1.1	35.9	16.0	92	0.1	23.6	7.2	319	3.06	3.3	1.9	1.1	11.8	8	<0.1	0.7	0.2	55	0.06	0.033
0112075	Soil	1.0	70.7	31.7	290	0.1	43.4	10.9	325	3.53	3.5	1.7	1.7	14.8	4	0.2	0.6	0.2	75	0.04	0.036
0112076	Soil	1.8	25.8	16.9	107	0.2	18.7	5.4	214	2.89	3.1	1.7	2.2	11.8	5	0.1	0.9	0.5	48	0.02	0.033
0112077	Soil	1.7	28.0	19.1	110	0.3	21.6	6.5	206	2.72	6.8	1.1	1.4	8.0	7	0.1	1.5	0.3	65	0.05	0.027
0112078	Soil	1.5	30.3	17.2	103	0.4	29.0	10.9	365	3.50	6.5	0.7	1.5	7.4	10	0.1	0.8	0.3	76	0.09	0.052
0112079	Soil	1.6	43.5	12.5	81	<0.1	22.5	6.5	170	2.37	6.2	1.8	4.5	18.6	5	<0.1	0.8	0.3	46	0.03	0.027

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 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0115012	Soil	20	15	0.32	2403	0.012	1	1.65	0.024	0.20	<0.1	<0.01	3.0	0.2	<0.05	3	<0.5	<0.2
0115013	Soil	18	18	0.42	1039	0.022	2	1.44	0.026	0.19	<0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
0115014	Soil	20	48	0.58	573	0.031	2	1.70	0.032	0.15	<0.1	0.02	4.2	0.3	<0.05	4	<0.5	<0.2
0115015	Soil	23	27	0.46	326	0.022	3	1.66	0.013	0.15	<0.1	0.02	2.4	0.3	<0.05	4	<0.5	<0.2
0115016	Soil	19	32	0.69	284	0.090	2	1.96	0.017	0.15	<0.1	0.02	4.8	0.1	<0.05	6	<0.5	<0.2
0112055	Soil	22	10	0.63	1076	0.211	2	2.20	0.008	1.15	<0.1	0.04	11.7	1.0	<0.05	12	<0.5	<0.2
0112056	Soil	20	40	1.51	359	0.139	<1	3.00	0.037	0.23	<0.1	0.12	22.0	0.1	<0.05	17	<0.5	<0.2
0112057	Soil	27	40	1.01	382	0.145	1	2.45	0.011	0.40	<0.1	0.10	8.6	0.2	<0.05	10	<0.5	<0.2
0112058	Soil	9	29	1.20	445	0.049	1	2.71	0.042	0.24	<0.1	0.02	17.9	<0.1	<0.05	12	<0.5	<0.2
0112059	Soil	37	12	0.54	183	0.081	<1	1.64	0.008	0.58	<0.1	0.03	5.5	0.2	<0.05	8	<0.5	<0.2
0112060	Soil	18	19	0.62	252	0.033	1	1.93	0.008	0.44	<0.1	0.04	13.7	0.1	<0.05	7	<0.5	<0.2
0112061	Soil	4	13	0.61	221	0.063	<1	1.37	0.029	0.10	<0.1	<0.01	6.1	<0.1	<0.05	4	<0.5	<0.2
0112062	Soil	10	8	1.07	351	0.165	1	2.43	0.026	0.62	<0.1	<0.01	8.9	0.2	<0.05	8	<0.5	<0.2
0112063	Soil	9	22	0.76	336	0.144	<1	2.85	0.012	0.33	<0.1	<0.01	6.1	0.2	<0.05	8	<0.5	<0.2
0112064	Soil	9	19	0.69	335	0.087	<1	3.13	0.017	0.28	<0.1	<0.01	4.7	<0.1	<0.05	9	<0.5	<0.2
0112065	Soil	6	26	0.70	209	0.029	1	2.14	0.020	0.04	<0.1	0.01	7.2	<0.1	<0.05	6	<0.5	<0.2
0112066	Soil	7	17	1.28	329	0.075	1	2.21	0.013	0.16	<0.1	<0.01	11.9	<0.1	<0.05	8	<0.5	<0.2
0112067	Soil	8	14	0.51	163	0.079	<1	1.26	0.036	0.08	<0.1	0.01	5.5	<0.1	<0.05	5	<0.5	<0.2
0112068	Soil	29	47	0.54	345	0.183	<1	1.65	0.006	0.59	<0.1	0.02	4.4	0.5	<0.05	5	<0.5	<0.2
0112069	Soil	20	31	0.41	301	0.093	1	1.36	0.009	0.13	<0.1	0.03	4.3	0.2	<0.05	4	<0.5	<0.2
0112070	Soil	21	35	0.47	378	0.147	<1	1.27	0.007	0.49	<0.1	0.02	5.0	0.4	<0.05	5	1.3	<0.2
0112071	Soil	14	42	0.65	368	0.178	<1	1.79	0.014	0.69	<0.1	0.03	5.1	0.5	<0.05	6	<0.5	<0.2
0112072	Soil	26	28	0.26	185	0.062	<1	0.95	0.006	0.27	<0.1	0.06	4.5	0.3	<0.05	4	1.1	0.2
0112073	Soil	12	26	0.22	179	0.032	<1	1.07	0.003	0.10	<0.1	0.02	3.0	0.2	<0.05	4	0.6	<0.2
0112074	Soil	26	32	0.38	188	0.122	<1	1.56	0.005	0.49	<0.1	0.02	2.6	0.5	<0.05	6	0.7	<0.2
0112075	Soil	31	40	0.43	154	0.150	<1	1.70	0.005	0.53	<0.1	0.03	3.1	0.5	<0.05	6	1.0	<0.2
0112076	Soil	21	22	0.24	127	0.082	<1	1.35	0.003	0.33	<0.1	0.03	3.4	0.5	<0.05	5	0.7	<0.2
0112077	Soil	14	33	0.31	161	0.084	<1	1.67	0.004	0.23	<0.1	0.04	3.1	0.3	<0.05	6	<0.5	<0.2
0112078	Soil	11	40	0.50	315	0.138	<1	2.11	0.006	0.43	0.1	0.03	2.7	0.4	<0.05	7	<0.5	<0.2
0112079	Soil	41	26	0.22	81	0.054	1	0.92	0.004	0.15	<0.1	0.04	3.6	0.2	<0.05	3	0.7	<0.2

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 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0112080	Soil		1.3	49.0	29.4	108	<0.1	29.3	7.9	184	2.77	3.9	2.7	5.8	15.4	5	<0.1	1.5	0.3	74	0.03	0.024
0112081	Soil		1.6	29.1	10.4	76	0.2	22.3	6.3	202	2.55	4.9	1.1	1.0	9.1	6	<0.1	0.5	0.2	50	0.05	0.027
0112082	Soil		1.1	42.2	19.6	174	<0.1	35.2	10.0	433	4.05	1.6	2.2	3.2	18.4	6	0.1	0.3	0.6	80	0.07	0.042
0112083	Soil		2.2	59.0	14.3	92	0.1	44.8	14.1	193	3.89	6.6	1.7	1.8	10.6	9	<0.1	0.7	0.3	62	0.04	0.022
0112084	Soil		1.8	59.4	12.6	73	0.2	45.5	14.1	216	3.46	10.2	1.4	3.7	7.3	17	<0.1	0.8	0.2	69	0.14	0.017
0112085	Soil		1.8	49.4	12.5	73	0.2	45.0	13.4	164	3.76	5.5	1.3	3.6	8.1	8	<0.1	0.8	0.3	75	0.05	0.019
0112086	Soil		2.0	64.7	17.7	125	<0.1	55.1	13.4	231	4.53	6.6	1.8	5.1	9.8	9	<0.1	1.1	0.3	85	0.09	0.042
0112087	Soil		2.1	72.0	15.0	103	0.6	43.2	10.7	282	4.07	6.0	1.2	1.6	7.9	9	<0.1	0.6	0.3	87	0.08	0.042
0112088	Soil		1.3	64.5	19.2	148	0.1	61.0	16.1	265	5.17	2.6	2.1	7.9	9.5	9	<0.1	0.4	0.3	101	0.15	0.069
0112089	Soil		1.3	46.1	17.9	114	0.1	42.9	13.1	224	4.27	5.1	1.4	6.4	5.4	18	<0.1	0.5	0.3	98	0.28	0.065
104030	Soil		0.3	29.4	1.4	108	<0.1	8.0	17.9	1004	6.02	2.0	0.4	0.9	2.3	31	<0.1	0.2	<0.1	116	0.89	0.116
104031	Soil		0.4	80.4	1.3	35	<0.1	9.8	14.3	259	2.69	2.5	0.4	4.6	2.6	15	<0.1	0.2	0.1	65	0.50	0.091
104032	Soil		0.4	50.2	1.5	39	<0.1	5.1	11.9	661	3.39	1.6	0.7	3.2	1.9	15	<0.1	0.2	<0.1	55	0.65	0.120
104033	Soil		0.9	24.6	6.4	69	<0.1	18.6	13.3	286	3.63	6.9	0.3	1.0	2.5	17	<0.1	0.4	0.1	91	0.35	0.058
104034	Soil		0.5	38.5	3.9	48	<0.1	14.9	14.7	326	3.55	4.5	0.6	<0.5	2.5	27	<0.1	0.4	<0.1	100	0.57	0.094
104035	Soil		0.8	18.6	1.9	40	<0.1	11.4	14.5	335	2.71	2.2	0.4	<0.5	3.0	26	<0.1	<0.1	<0.1	81	0.43	0.049
104036	Soil		1.3	26.4	3.7	50	<0.1	16.8	12.9	361	3.06	3.0	0.5	0.8	3.1	56	<0.1	0.2	<0.1	67	0.62	0.031
104037	Soil		0.7	14.6	3.5	62	<0.1	10.4	12.1	423	3.77	3.8	0.4	<0.5	2.5	32	<0.1	0.3	0.1	80	0.57	0.092
104038	Soil		0.7	9.4	4.3	45	<0.1	9.2	9.2	227	2.81	3.7	0.3	1.1	1.9	16	<0.1	0.2	0.1	67	0.45	0.072
104039	Soil		0.4	21.6	2.7	40	<0.1	11.6	12.8	305	2.56	4.1	0.4	0.8	2.2	24	<0.1	0.2	<0.1	66	0.41	0.050
104040	Soil		0.4	25.2	1.7	64	<0.1	4.6	14.3	411	3.11	1.6	0.4	0.9	1.3	15	<0.1	<0.1	<0.1	59	0.72	0.165
104041	Soil		0.3	20.1	1.3	62	<0.1	4.9	13.5	420	2.98	1.7	0.4	<0.5	1.4	18	<0.1	<0.1	<0.1	56	0.66	0.147
104043	Soil		0.1	41.6	0.5	11	<0.1	9.7	8.3	163	1.07	1.4	0.2	<0.5	0.6	5	<0.1	<0.1	<0.1	34	0.35	0.073
104044	Soil		1.3	15.5	7.8	60	<0.1	13.3	9.6	344	3.53	8.4	0.7	1.9	3.7	13	<0.1	0.4	0.1	63	0.13	0.025
104045	Soil		0.7	18.3	5.0	58	<0.1	12.2	12.6	297	3.54	4.1	0.5	2.0	3.5	22	<0.1	0.3	<0.1	74	0.29	0.034
104046	Soil		0.8	18.1	4.1	70	<0.1	10.2	9.6	634	3.18	3.2	1.4	2.2	6.6	13	<0.1	0.2	0.1	59	0.28	0.049
104047	Soil		1.0	21.5	9.5	51	<0.1	15.2	10.6	312	2.81	7.5	1.1	23.7	5.5	17	<0.1	0.4	0.2	61	0.23	0.024
104048	Soil		0.8	22.3	5.9	50	<0.1	12.6	9.7	275	2.70	5.0	0.6	<0.5	3.4	24	<0.1	0.3	0.1	67	0.32	0.032
104049	Soil		0.4	22.2	3.6	36	<0.1	13.4	9.7	238	2.22	1.8	0.3	0.9	1.6	65	<0.1	0.2	<0.1	46	0.49	0.039
104050	Soil		0.2	24.4	2.1	71	<0.1	4.4	14.8	390	4.28	1.3	0.5	<0.5	4.3	29	<0.1	0.2	<0.1	104	0.66	0.112

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Project: Montana
 Report Date: June 26, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
0112080	Soil	43	39	0.41	213	0.169	<1	1.49	0.005	0.58	0.1	0.04	4.4	0.5	<0.05	7	1.1	<0.2
0112081	Soil	21	28	0.32	158	0.079	<1	1.49	0.004	0.29	<0.1	0.02	2.2	0.3	<0.05	5	0.8	<0.2
0112082	Soil	60	50	0.71	280	0.289	<1	2.17	0.006	1.11	<0.1	0.01	3.8	0.9	<0.05	8	<0.5	<0.2
0112083	Soil	26	41	0.38	183	0.077	<1	1.62	0.004	0.18	<0.1	0.01	4.1	0.2	<0.05	5	0.9	<0.2
0112084	Soil	21	46	0.47	250	0.099	<1	1.67	0.008	0.21	<0.1	0.03	6.3	0.2	<0.05	5	0.7	<0.2
0112085	Soil	20	44	0.54	159	0.131	1	1.80	0.004	0.30	<0.1	0.02	3.6	0.3	<0.05	6	1.3	<0.2
0112086	Soil	25	50	0.62	214	0.175	<1	1.81	0.006	0.60	<0.1	0.03	6.1	0.5	<0.05	6	0.9	<0.2
0112087	Soil	21	60	0.89	323	0.196	<1	2.13	0.007	0.71	<0.1	0.03	4.6	0.5	<0.05	8	0.9	<0.2
0112088	Soil	25	68	1.15	354	0.235	<1	2.51	0.013	1.06	<0.1	0.03	6.3	0.6	<0.05	9	0.8	<0.2
0112089	Soil	16	58	1.00	411	0.240	<1	2.44	0.013	0.82	<0.1	0.03	5.7	0.5	<0.05	8	0.9	<0.2
104030	Soil	11	54	1.62	586	0.082	<1	2.93	0.028	0.13	<0.1	0.03	16.4	<0.1	<0.05	12	<0.5	<0.2
104031	Soil	7	20	0.49	154	0.079	<1	1.36	0.026	0.08	<0.1	0.01	6.7	<0.1	<0.05	5	<0.5	<0.2
104032	Soil	11	9	0.47	85	0.032	<1	1.33	0.037	0.04	<0.1	0.02	10.7	<0.1	<0.05	5	0.5	<0.2
104033	Soil	6	32	0.69	221	0.124	<1	1.96	0.020	0.22	<0.1	<0.01	3.9	0.1	<0.05	7	<0.5	<0.2
104034	Soil	6	21	0.69	158	0.068	<1	1.67	0.029	0.14	<0.1	0.01	7.3	<0.1	<0.05	6	<0.5	<0.2
104035	Soil	6	15	1.05	219	0.165	<1	1.74	0.023	0.51	<0.1	<0.01	4.8	0.2	<0.05	5	<0.5	<0.2
104036	Soil	9	36	0.81	187	0.089	<1	1.76	0.021	0.22	<0.1	0.02	7.0	<0.1	<0.05	6	<0.5	<0.2
104037	Soil	5	19	0.98	187	0.146	<1	2.05	0.022	0.35	<0.1	<0.01	5.1	0.1	<0.05	8	<0.5	<0.2
104038	Soil	4	16	0.65	185	0.104	<1	1.63	0.025	0.24	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
104039	Soil	5	16	0.77	178	0.124	<1	1.52	0.022	0.36	<0.1	<0.01	4.3	0.1	<0.05	5	<0.5	<0.2
104040	Soil	5	26	1.29	312	0.208	<1	1.66	0.028	0.65	<0.1	<0.01	4.9	0.2	<0.05	6	<0.5	<0.2
104041	Soil	5	26	1.25	297	0.197	<1	1.65	0.028	0.61	<0.1	<0.01	4.8	0.2	<0.05	6	<0.5	<0.2
104043	Soil	4	16	0.22	40	0.034	<1	0.42	0.021	0.01	<0.1	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2
104044	Soil	9	26	0.57	211	0.126	<1	2.14	0.008	0.20	<0.1	0.02	4.2	0.1	<0.05	7	<0.5	<0.2
104045	Soil	10	23	0.64	226	0.128	<1	1.82	0.020	0.19	<0.1	0.01	5.1	0.1	<0.05	6	<0.5	<0.2
104046	Soil	13	17	0.72	262	0.166	<1	1.57	0.010	0.54	<0.1	0.01	8.5	0.2	<0.05	7	<0.5	<0.2
104047	Soil	17	30	0.50	230	0.090	1	1.83	0.011	0.06	0.1	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
104048	Soil	14	25	0.59	266	0.100	1	1.71	0.017	0.09	0.1	0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
104049	Soil	6	40	0.51	276	0.056	<1	1.61	0.028	0.09	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
104050	Soil	10	11	1.15	308	0.079	<1	2.33	0.034	0.22	<0.1	<0.01	10.7	<0.1	<0.05	10	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
104051	Soil	0.3	25.9	1.9	59	<0.1	6.0	14.6	402	3.58	1.1	0.4	<0.5	2.2	26	<0.1	0.1	<0.1	89	0.80	0.067
104052	Soil	0.2	32.8	1.5	43	<0.1	12.2	14.7	331	2.86	1.2	0.4	<0.5	2.1	18	<0.1	0.2	<0.1	86	0.56	0.052
104053	Soil	0.4	18.7	2.4	42	<0.1	8.0	11.0	291	2.66	1.5	0.5	<0.5	2.2	53	<0.1	0.2	<0.1	84	0.63	0.066
104054	Soil	0.4	24.1	0.6	71	<0.1	3.3	14.5	608	4.25	<0.5	0.9	<0.5	5.5	9	<0.1	<0.1	<0.1	97	0.46	0.101
104055	Soil	0.3	22.2	0.9	68	<0.1	10.1	17.1	467	4.20	1.1	0.6	<0.5	5.1	15	<0.1	<0.1	<0.1	107	0.54	0.083
104056	Soil	0.6	46.4	1.0	35	<0.1	5.7	15.8	383	2.78	1.1	0.6	<0.5	2.4	17	<0.1	0.1	<0.1	66	0.56	0.065
104057	Soil	0.7	32.3	3.0	40	<0.1	9.3	12.9	281	2.80	2.7	0.3	<0.5	1.9	14	<0.1	0.2	<0.1	59	0.45	0.031
104058	Soil	0.7	16.8	2.1	53	<0.1	9.2	17.3	337	3.15	4.4	0.3	<0.5	2.0	7	<0.1	0.2	<0.1	62	0.23	0.060
104059	Soil	1.5	83.4	0.9	65	<0.1	4.1	14.7	402	3.65	1.5	0.5	<0.5	1.6	10	<0.1	<0.1	<0.1	47	0.74	0.211
104060	Soil	0.5	16.7	1.9	56	<0.1	4.3	13.0	412	2.75	1.4	0.3	<0.5	1.7	4	0.1	<0.1	<0.1	53	0.40	0.107
104061	Soil	0.8	28.7	5.1	56	<0.1	15.4	16.4	331	3.26	4.8	0.4	<0.5	2.0	13	<0.1	0.3	<0.1	104	0.25	0.027
104062	Soil	0.4	57.5	1.1	62	<0.1	15.2	21.0	524	3.79	0.8	0.4	<0.5	1.9	18	<0.1	<0.1	0.1	92	0.38	0.076
104063	Soil	0.4	31.9	2.2	48	<0.1	12.8	14.4	450	3.49	1.2	0.6	<0.5	1.6	25	<0.1	0.2	<0.1	96	0.66	0.079
104064	Soil	0.9	42.7	2.3	70	<0.1	23.4	22.8	758	4.22	1.0	0.6	<0.5	5.4	13	<0.1	0.1	<0.1	103	0.38	0.054
104065	Soil	1.2	44.3	4.4	64	<0.1	25.4	22.8	708	3.91	0.9	0.5	<0.5	4.4	13	<0.1	0.1	<0.1	102	0.41	0.055
104066	Soil	1.1	41.0	2.5	94	<0.1	12.9	22.7	790	5.62	1.3	1.1	<0.5	5.6	17	0.1	0.1	<0.1	150	0.48	0.097
104067	Soil	2.3	19.6	15.3	44	<0.1	16.1	6.6	395	2.38	7.7	2.3	0.9	5.3	70	<0.1	0.5	0.2	54	0.35	0.011
104068	Soil	1.7	11.3	23.5	36	<0.1	17.6	4.8	266	1.19	3.2	2.2	<0.5	6.8	94	<0.1	0.5	0.2	19	0.63	0.019
104070	Soil	1.2	14.2	19.5	37	<0.1	8.9	3.3	244	1.22	5.4	3.0	<0.5	6.5	138	<0.1	0.3	0.2	22	0.49	0.021
104071	Soil	1.6	16.0	10.7	51	<0.1	15.7	5.3	235	2.63	8.9	1.0	<0.5	4.2	66	<0.1	0.5	0.2	55	0.37	0.014
104072	Soil	1.5	16.6	9.3	45	<0.1	14.4	6.3	281	2.64	8.7	1.0	<0.5	3.4	46	<0.1	0.4	0.1	57	0.30	0.031
104073	Soil	2.3	18.3	20.7	55	<0.1	18.7	7.9	622	2.20	7.2	1.9	<0.5	7.2	150	<0.1	0.4	0.2	35	0.61	0.050
104074	Soil	1.6	15.1	17.5	52	<0.1	11.4	4.5	199	1.72	5.6	2.1	<0.5	6.4	100	<0.1	0.3	0.3	28	0.60	0.035
104075	Soil	0.4	18.2	9.6	38	<0.1	15.4	5.3	90	1.71	3.4	1.4	2.9	1.3	44	0.1	0.4	0.2	42	0.43	0.059
104076	Soil	1.6	22.0	13.7	57	<0.1	25.3	11.4	264	2.74	13.0	1.2	1.1	3.8	56	0.1	0.4	0.2	61	0.41	0.050
104077	Soil	0.6	13.5	11.6	44	<0.1	14.3	6.4	209	1.98	5.2	1.0	2.1	3.9	52	0.1	0.3	0.1	44	0.32	0.028
104078	Soil	0.5	26.1	15.6	58	<0.1	37.5	9.7	437	2.48	4.1	1.9	1.6	6.7	89	0.1	0.3	0.2	48	0.61	0.042
104079	Soil	1.9	16.0	13.5	58	<0.1	15.1	5.0	173	1.88	2.5	2.6	0.6	7.9	93	0.2	0.4	0.1	37	0.53	0.045
104080	Soil	0.7	25.6	10.9	48	<0.1	23.7	8.0	317	2.54	7.6	1.5	2.4	5.5	51	<0.1	0.5	0.2	56	0.36	0.024
104082	Soil	1.9	10.4	10.7	63	<0.1	10.3	6.1	289	2.33	9.9	1.5	1.0	4.8	143	0.1	0.3	0.2	42	0.51	0.030

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
104051	Soil	8	14	0.99	196	0.110	<1	2.25	0.052	0.17	<0.1	0.03	7.1	<0.1	<0.05	7	<0.5	<0.2
104052	Soil	9	27	0.80	128	0.089	<1	1.67	0.038	0.06	<0.1	<0.01	5.6	<0.1	<0.05	5	<0.5	<0.2
104053	Soil	7	15	0.80	143	0.091	<1	1.66	0.032	0.15	<0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
104054	Soil	16	9	1.03	174	0.123	<1	1.69	0.022	0.61	<0.1	0.01	9.1	0.1	<0.05	11	<0.5	<0.2
104055	Soil	19	33	1.53	294	0.113	<1	2.18	0.024	0.35	<0.1	<0.01	10.9	0.1	<0.05	9	<0.5	<0.2
104056	Soil	14	8	0.73	247	0.075	<1	1.40	0.048	0.16	<0.1	0.01	6.2	<0.1	<0.05	5	<0.5	<0.2
104057	Soil	8	25	0.64	324	0.106	<1	1.68	0.031	0.13	<0.1	0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
104058	Soil	6	64	0.88	129	0.117	<1	1.89	0.014	0.07	<0.1	<0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
104059	Soil	12	6	0.89	284	0.103	<1	1.63	0.035	0.59	<0.1	<0.01	5.5	0.2	<0.05	6	<0.5	<0.2
104060	Soil	7	8	0.68	156	0.118	<1	1.58	0.033	0.28	<0.1	<0.01	4.6	0.1	<0.05	6	<0.5	<0.2
104061	Soil	7	45	0.86	211	0.152	1	1.94	0.016	0.24	0.4	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2
104062	Soil	7	55	1.22	386	0.222	<1	2.13	0.013	0.76	<0.1	<0.01	6.5	0.4	<0.05	7	<0.5	<0.2
104063	Soil	9	22	0.78	314	0.095	<1	1.47	0.035	0.30	<0.1	0.05	9.9	0.1	<0.05	6	<0.5	<0.2
104064	Soil	11	42	1.06	283	0.194	<1	1.97	0.011	0.73	<0.1	<0.01	8.3	0.4	<0.05	7	<0.5	<0.2
104065	Soil	10	48	1.05	255	0.173	<1	1.90	0.013	0.64	<0.1	<0.01	7.8	0.3	<0.05	7	<0.5	<0.2
104066	Soil	16	22	1.18	360	0.231	<1	2.46	0.023	0.92	<0.1	0.01	10.7	0.2	<0.05	10	<0.5	<0.2
104067	Soil	16	28	0.42	484	0.040	<1	2.39	0.016	0.07	<0.1	0.01	4.0	0.2	<0.05	6	<0.5	<0.2
104068	Soil	16	25	0.43	406	0.017	3	1.75	0.024	0.08	<0.1	<0.01	2.3	0.1	<0.05	4	<0.5	<0.2
104070	Soil	15	14	0.32	811	0.013	<1	1.59	0.023	0.10	<0.1	0.01	2.3	0.2	<0.05	4	<0.5	<0.2
104071	Soil	15	27	0.44	381	0.031	<1	2.48	0.011	0.07	<0.1	0.02	3.8	0.2	<0.05	6	<0.5	<0.2
104072	Soil	14	28	0.43	318	0.048	<1	2.26	0.010	0.07	<0.1	0.01	3.5	0.2	<0.05	6	<0.5	<0.2
104073	Soil	18	17	0.46	1021	0.012	1	2.36	0.016	0.15	<0.1	<0.01	3.8	0.4	<0.05	6	<0.5	<0.2
104074	Soil	17	13	0.44	479	0.009	1	1.81	0.015	0.13	<0.1	0.02	3.2	0.4	<0.05	5	<0.5	<0.2
104075	Soil	14	28	0.30	250	0.035	1	1.63	0.013	0.04	<0.1	0.05	3.0	0.1	<0.05	5	0.5	<0.2
104076	Soil	14	35	0.58	247	0.055	1	2.74	0.011	0.10	<0.1	0.02	4.0	0.4	<0.05	7	<0.5	<0.2
104077	Soil	14	26	0.39	232	0.068	<1	1.63	0.011	0.07	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
104078	Soil	19	49	0.74	315	0.061	<1	2.64	0.022	0.13	<0.1	0.03	5.2	0.3	<0.05	7	<0.5	<0.2
104079	Soil	21	24	0.57	288	0.048	<1	2.14	0.025	0.16	<0.1	0.02	4.9	0.3	<0.05	6	<0.5	<0.2
104080	Soil	19	37	0.52	310	0.077	<1	2.15	0.016	0.07	<0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
104082	Soil	18	12	0.39	728	0.005	<1	2.35	0.012	0.13	<0.1	0.02	3.8	0.2	<0.05	6	<0.5	<0.2

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0113017	Soil	0.6	12.9	1.4	48	<0.1	6.7	11.5	341	4.41	2.4	1.2	1.6	5.4	78	<0.1	0.3	<0.1	85	0.63	0.059
0113018	Soil	0.5	14.7	1.5	41	<0.1	5.3	8.2	440	3.56	2.3	0.6	1.1	4.9	31	<0.1	0.2	<0.1	69	0.38	0.052
0113019	Soil	0.9	16.4	1.2	121	<0.1	3.1	12.8	1060	6.36	1.4	0.8	1.4	1.8	20	<0.1	0.2	<0.1	61	0.50	0.084
0113020	Soil	1.1	53.2	1.5	81	<0.1	5.1	11.1	763	5.11	2.1	0.8	<0.5	5.8	31	<0.1	0.2	<0.1	75	0.29	0.065
0113021	Soil	0.5	17.0	1.4	100	<0.1	5.3	9.5	662	4.47	1.4	1.0	0.7	6.4	17	<0.1	0.1	<0.1	53	0.25	0.048
0113022	Soil	0.5	27.3	1.4	118	<0.1	3.4	11.8	816	5.64	1.0	0.6	0.9	7.4	17	<0.1	<0.1	<0.1	64	0.39	0.112
0113023	Soil	0.3	16.2	1.2	112	<0.1	9.8	18.7	723	5.33	1.5	0.7	0.9	4.1	35	1.4	0.1	<0.1	151	0.73	0.049
0113024	Soil	0.6	8.5	2.1	101	<0.1	4.7	17.4	885	6.18	1.7	0.8	1.0	4.7	26	<0.1	0.1	<0.1	50	0.64	0.200
0113025	Soil	0.8	18.9	5.3	75	<0.1	15.1	10.0	564	4.11	7.1	1.2	4.7	6.0	15	<0.1	0.5	<0.1	55	0.15	0.022
0113026	Soil	1.2	18.4	4.4	108	<0.1	9.1	10.5	778	5.16	3.5	1.2	0.8	7.8	15	<0.1	0.5	<0.1	72	0.21	0.039
0113027	Soil	3.6	216.4	3.4	79	<0.1	14.8	14.1	682	6.52	3.5	2.3	3.9	10.9	22	<0.1	0.4	15.4	95	0.27	0.033
0113028	Soil	0.3	20.2	3.1	60	<0.1	13.1	15.2	534	3.67	4.5	0.6	1.9	4.0	23	<0.1	0.3	0.2	100	0.43	0.045
0113029	Soil	0.4	116.5	2.1	62	<0.1	7.5	10.9	406	4.05	3.5	1.1	0.7	6.6	14	<0.1	0.3	<0.1	99	0.39	0.058
0113030	Soil	0.6	19.3	1.3	45	<0.1	9.4	19.0	400	3.01	2.1	0.2	0.6	2.4	24	<0.1	0.1	<0.1	111	0.39	0.033
0113031	Soil	0.4	16.0	2.9	53	<0.1	9.8	16.0	364	3.40	4.0	0.3	0.8	2.4	11	<0.1	0.2	<0.1	113	0.24	0.020
0113032	Soil	1.0	35.3	3.2	57	<0.1	15.3	11.1	426	3.38	4.2	0.9	2.8	4.6	14	<0.1	0.4	<0.1	60	0.28	0.042
0113033	Soil	0.5	15.7	5.9	61	<0.1	17.6	9.3	481	2.18	5.3	1.0	5.3	3.8	41	0.2	0.4	0.1	41	0.59	0.078
0113035	Soil	0.5	14.1	14.7	40	<0.1	8.2	3.7	193	1.28	3.8	3.0	1.3	6.3	145	<0.1	0.2	0.3	21	0.40	0.025
0113036	Soil	1.1	22.7	16.7	39	0.1	10.7	4.2	200	1.42	3.5	3.0	1.1	0.5	84	0.4	0.2	0.2	28	0.26	0.070
0113037	Soil	0.7	15.0	14.0	37	<0.1	11.3	4.8	189	2.01	6.8	2.4	1.5	4.2	87	<0.1	0.5	0.2	37	0.33	0.017
0113038	Soil	0.3	25.8	29.2	46	0.1	7.6	2.8	94	1.27	7.2	4.4	4.3	8.5	188	<0.1	0.3	0.3	16	0.50	0.027
0113039	Soil	0.8	21.4	13.9	43	<0.1	13.3	5.9	208	2.04	6.6	2.5	2.3	4.2	95	0.1	0.5	0.2	37	0.38	0.027
0113040	Soil	0.8	19.7	13.9	43	<0.1	12.2	5.4	178	2.07	6.3	2.4	2.6	4.0	87	<0.1	0.4	0.2	37	0.35	0.025
0113041	Soil	0.8	14.4	27.9	43	<0.1	11.4	4.7	317	1.71	6.8	2.2	1.8	5.0	109	<0.1	0.4	0.2	30	0.46	0.026
0113042	Soil	1.0	27.7	13.2	46	<0.1	16.9	7.5	245	2.30	8.5	3.2	1.6	5.2	96	<0.1	0.5	0.2	44	0.52	0.035
0113043	Soil	0.7	14.1	20.5	44	<0.1	13.5	5.6	190	1.89	5.9	1.6	1.5	4.7	105	<0.1	0.4	0.2	32	0.49	0.024
0113044	Soil	0.8	16.5	16.1	46	<0.1	14.7	5.6	452	1.37	5.4	1.9	0.7	6.4	186	0.1	0.4	0.2	21	0.85	0.053
0113045	Soil	0.8	12.5	15.6	34	<0.1	9.6	3.3	186	1.20	6.7	1.8	1.2	5.7	85	<0.1	0.3	0.3	19	0.49	0.037
0113046	Soil	1.1	20.2	13.2	42	0.1	16.8	7.1	367	2.04	8.4	2.0	0.8	2.4	83	0.1	0.4	0.2	36	0.64	0.054
0113047	Soil	0.9	20.2	10.2	48	<0.1	15.1	6.9	218	2.20	8.4	1.5	1.6	4.6	47	<0.1	0.4	0.2	42	0.46	0.052

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Project: Montana
 Report Date: June 26, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0113017	Soil	21	11	1.30	446	0.076	1	2.70	0.037	0.18	<0.1	0.03	11.6	<0.1	<0.05	10	<0.5	<0.2
0113018	Soil	13	8	0.66	280	0.152	<1	1.99	0.020	0.60	<0.1	0.07	8.1	0.2	<0.05	9	<0.5	<0.2
0113019	Soil	14	3	0.94	436	0.187	<1	2.57	0.027	1.02	<0.1	0.03	11.1	0.2	<0.05	12	<0.5	<0.2
0113020	Soil	20	7	0.95	501	0.261	<1	2.66	0.014	1.15	<0.1	0.03	13.8	0.3	<0.05	11	<0.5	<0.2
0113021	Soil	27	11	0.97	246	0.211	<1	2.11	0.010	1.10	<0.1	0.02	13.6	0.4	<0.05	12	<0.5	<0.2
0113022	Soil	46	5	1.60	499	0.316	<1	3.34	0.013	1.59	<0.1	<0.01	10.8	0.5	<0.05	15	<0.5	<0.2
0113023	Soil	11	23	2.53	232	0.082	<1	2.95	0.031	0.40	<0.1	0.01	17.0	0.1	<0.05	12	<0.5	<0.2
0113024	Soil	23	5	1.75	671	0.368	<1	3.97	0.016	1.86	<0.1	<0.01	7.3	0.4	<0.05	12	<0.5	<0.2
0113025	Soil	29	25	0.96	408	0.197	<1	2.48	0.011	0.86	0.1	0.01	10.9	0.3	<0.05	10	<0.5	<0.2
0113026	Soil	24	13	0.88	246	0.106	<1	3.04	0.010	0.73	<0.1	0.05	8.7	0.3	<0.05	14	<0.5	<0.2
0113027	Soil	31	25	1.30	507	0.246	<1	3.30	0.012	1.48	<0.1	0.04	10.9	0.4	<0.05	13	<0.5	0.2
0113028	Soil	10	25	1.42	422	0.185	<1	2.13	0.021	0.61	<0.1	0.02	6.6	0.2	<0.05	8	<0.5	<0.2
0113029	Soil	24	14	1.17	333	0.182	<1	2.20	0.029	0.65	<0.1	0.02	8.7	0.2	<0.05	9	<0.5	<0.2
0113030	Soil	6	22	1.64	344	0.245	<1	2.40	0.021	0.56	<0.1	<0.01	3.6	0.3	<0.05	6	<0.5	<0.2
0113031	Soil	7	21	1.62	301	0.245	<1	3.04	0.018	0.54	<0.1	<0.01	3.9	0.2	<0.05	8	<0.5	<0.2
0113032	Soil	18	19	0.74	346	0.206	<1	1.80	0.019	0.56	<0.1	0.01	10.1	0.2	<0.05	8	<0.5	<0.2
0113033	Soil	14	23	0.60	223	0.074	<1	1.40	0.022	0.11	0.1	0.03	3.3	<0.1	0.06	4	<0.5	<0.2
0113035	Soil	16	11	0.32	677	0.009	<1	1.65	0.012	0.13	<0.1	0.01	2.2	0.3	<0.05	4	<0.5	<0.2
0113036	Soil	18	14	0.15	517	0.008	<1	1.27	0.013	0.13	<0.1	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
0113037	Soil	14	22	0.40	510	0.035	<1	1.98	0.011	0.10	<0.1	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
0113038	Soil	21	8	0.31	814	0.004	<1	1.44	0.019	0.20	<0.1	0.02	2.4	0.3	<0.05	4	<0.5	<0.2
0113039	Soil	14	23	0.41	545	0.037	<1	2.03	0.015	0.09	<0.1	0.02	3.3	0.2	<0.05	5	<0.5	<0.2
0113040	Soil	14	23	0.39	505	0.039	<1	2.06	0.015	0.08	<0.1	0.02	3.2	0.2	<0.05	5	<0.5	<0.2
0113041	Soil	16	14	0.37	570	0.019	<1	1.96	0.013	0.10	<0.1	0.02	2.6	0.2	<0.05	5	<0.5	<0.2
0113042	Soil	27	28	0.48	554	0.044	<1	1.94	0.018	0.07	<0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
0113043	Soil	15	18	0.44	527	0.019	<1	1.98	0.012	0.07	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
0113044	Soil	20	8	0.42	1178	0.009	<1	1.46	0.030	0.17	<0.1	0.02	2.2	0.3	<0.05	3	<0.5	<0.2
0113045	Soil	14	11	0.34	372	0.010	1	1.33	0.021	0.08	<0.1	<0.01	1.8	0.5	<0.05	3	<0.5	<0.2
0113046	Soil	19	20	0.39	473	0.020	<1	1.58	0.018	0.06	<0.1	0.03	2.6	0.1	<0.05	5	<0.5	<0.2
0113047	Soil	18	24	0.45	285	0.038	<1	1.70	0.012	0.06	<0.1	0.04	3.3	0.2	<0.05	5	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
0113048	Soil	1.0	12.4	15.3	38	<0.1	9.5	3.7	262	1.00	4.1	2.5	2.5	6.6	80	<0.1	0.3	0.3	17	0.49	0.021
0113049	Soil	0.9	14.4	18.1	41	<0.1	9.1	3.3	175	1.32	3.8	2.4	1.9	4.7	72	0.1	0.3	0.3	23	0.44	0.022
102048	Soil	8.7	12.0	7.2	85	<0.1	10.4	14.1	1006	6.72	38.8	1.2	1.0	7.0	18	<0.1	0.5	<0.1	42	0.12	0.054
102049	Soil	0.6	6.9	2.2	58	<0.1	2.8	4.5	576	2.90	1.6	0.8	<0.5	6.8	14	<0.1	0.3	<0.1	22	0.15	0.023
102050	Soil	0.9	4.8	3.8	78	<0.1	3.3	11.1	542	3.83	1.5	0.5	<0.5	5.9	12	<0.1	0.2	<0.1	33	0.15	0.043
102051	Soil	1.9	14.8	8.6	56	<0.1	13.0	11.7	705	3.52	3.3	1.1	1.2	6.7	14	<0.1	0.3	<0.1	42	0.13	0.028
102052	Soil	2.9	10.4	4.5	87	<0.1	14.5	15.0	707	4.94	2.3	0.5	1.2	5.2	11	<0.1	0.3	<0.1	55	0.11	0.031
102053	Soil	0.5	28.7	3.1	63	<0.1	4.6	6.8	495	3.45	1.3	1.2	1.2	8.8	11	<0.1	0.2	<0.1	41	0.17	0.059
102054	Soil	1.1	22.6	7.9	55	<0.1	16.2	10.4	423	3.00	8.8	0.7	6.3	4.0	31	<0.1	0.5	0.1	56	0.40	0.084
102055	Soil	1.1	115.7	3.4	33	<0.1	84.1	22.1	647	3.00	10.3	0.3	1.2	1.0	32	<0.1	0.2	<0.1	125	0.51	0.034
102056	Soil	0.9	37.3	1.2	71	<0.1	9.6	21.2	962	5.94	2.1	0.6	1.3	1.2	25	<0.1	0.1	<0.1	178	0.70	0.121
102057	Soil	0.9	40.1	2.8	103	<0.1	7.9	19.1	844	6.97	1.8	0.9	1.0	2.1	40	0.1	0.2	<0.1	97	1.17	0.313
102058	Soil	0.7	27.6	12.5	108	<0.1	12.0	7.1	667	3.99	3.4	1.1	1.6	9.7	16	<0.1	0.2	<0.1	42	0.34	0.077
102059	Soil	1.0	88.2	19.2	218	<0.1	21.3	17.7	758	4.74	3.9	1.2	6.1	4.5	18	0.1	0.4	0.1	116	0.30	0.036
102060	Soil	0.7	41.9	23.3	119	<0.1	25.9	19.2	839	4.69	4.9	1.1	5.5	6.3	18	0.1	0.4	0.2	122	0.33	0.080
102061	Soil	0.7	31.4	20.7	95	0.1	18.4	15.6	708	3.85	2.1	1.0	5.0	3.6	19	0.2	0.2	0.1	113	0.51	0.125
102062	Soil	0.6	22.4	4.3	61	<0.1	20.3	7.3	275	3.13	3.8	0.7	1.6	3.5	25	<0.1	0.3	<0.1	56	0.44	0.059
102063	Soil	0.5	12.4	4.1	50	<0.1	8.1	11.5	500	2.98	3.6	0.5	5.1	2.1	26	<0.1	0.4	<0.1	59	0.53	0.098
102064	Soil	2.1	60.6	16.7	129	0.1	46.6	7.3	207	4.44	10.5	4.4	12.8	19.4	9	0.2	0.4	0.4	57	0.07	0.057
102065	Soil	1.2	71.2	118.8	1162	<0.1	34.3	8.7	746	4.83	2.0	2.1	6.0	21.6	11	0.3	<0.1	0.2	105	0.28	0.080
102066	Soil	2.6	51.1	13.3	186	<0.1	40.2	10.0	499	4.67	2.8	3.8	8.1	25.2	10	0.2	0.1	0.6	70	0.28	0.107
102067	Soil	0.9	27.9	8.9	196	<0.1	22.1	6.6	393	3.29	1.7	1.9	4.3	16.4	8	0.3	<0.1	0.3	58	0.12	0.036
102068	Soil	0.5	57.7	232.1	2084	<0.1	36.6	13.2	626	3.97	0.8	1.4	3.1	17.3	7	0.8	0.1	0.4	72	0.25	0.086
102069	Soil	0.7	15.4	8.4	74	<0.1	14.7	5.6	211	2.21	5.6	1.2	1.7	11.5	11	0.1	0.3	0.1	45	0.12	0.016
102070	Soil	0.8	14.4	4.5	28	<0.1	13.7	5.2	243	2.68	9.5	1.4	1.6	14.1	6	<0.1	0.1	0.2	27	0.06	0.018
102071	Soil	0.7	51.3	11.4	116	<0.1	29.4	11.1	494	3.60	3.8	2.5	3.9	16.0	8	<0.1	0.2	0.4	59	0.17	0.066
102072	Soil	0.5	21.4	3.1	39	<0.1	19.3	6.7	662	3.36	1.8	1.5	3.1	14.7	9	<0.1	0.1	0.1	50	0.14	0.026
102073	Soil	0.5	30.0	6.1	103	<0.1	21.3	6.7	582	3.41	2.7	1.1	3.5	15.0	9	<0.1	0.2	0.2	45	0.21	0.063
102074	Soil	0.8	40.4	14.2	158	<0.1	86.2	14.7	1645	6.33	2.4	2.5	2.6	9.3	18	0.3	0.1	0.2	97	0.19	0.031
102075	Soil	0.9	61.5	14.9	141	<0.1	50.9	15.0	1486	4.48	5.5	2.2	3.5	6.6	47	0.4	0.2	0.3	108	0.09	0.027

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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
0113048	Soil	23	13	0.29	487	0.013	3	1.09	0.022	0.13	<0.1	0.02	1.6	0.2	<0.05	3	<0.5	<0.2
0113049	Soil	16	15	0.32	393	0.014	3	1.61	0.021	0.08	<0.1	0.02	2.0	0.1	<0.05	5	<0.5	<0.2
102048	Soil	13	12	0.60	372	0.167	<1	2.29	0.008	0.96	<0.1	0.08	8.8	0.7	<0.05	10	<0.5	<0.2
102049	Soil	18	4	0.55	243	0.148	<1	1.68	0.009	0.80	<0.1	<0.01	6.9	0.3	<0.05	8	<0.5	<0.2
102050	Soil	16	6	0.59	213	0.227	<1	1.72	0.009	0.90	<0.1	<0.01	9.5	0.4	<0.05	9	<0.5	<0.2
102051	Soil	12	27	0.78	206	0.125	<1	2.27	0.010	0.67	<0.1	0.01	5.2	0.3	0.06	8	<0.5	<0.2
102052	Soil	11	28	1.08	171	0.159	<1	2.81	0.009	0.87	<0.1	<0.01	10.2	0.4	<0.05	13	<0.5	<0.2
102053	Soil	27	8	0.55	204	0.152	<1	1.35	0.009	0.69	<0.1	0.01	7.3	0.2	<0.05	8	0.5	<0.2
102054	Soil	14	25	0.47	251	0.053	1	1.21	0.017	0.09	0.1	0.03	4.9	<0.1	<0.05	4	0.6	<0.2
102055	Soil	5	490	1.35	227	0.008	<1	1.28	0.011	0.02	<0.1	<0.01	16.5	<0.1	<0.05	4	<0.5	<0.2
102056	Soil	8	6	0.87	388	0.025	<1	1.85	0.028	0.12	<0.1	0.01	12.0	<0.1	<0.05	8	<0.5	<0.2
102057	Soil	13	16	1.09	462	0.010	<1	3.00	0.042	0.08	<0.1	0.02	17.6	<0.1	<0.05	11	<0.5	<0.2
102058	Soil	23	28	1.52	267	0.237	<1	2.56	0.010	1.30	0.2	<0.01	9.9	0.7	<0.05	12	<0.5	<0.2
102059	Soil	14	22	1.25	996	0.084	<1	1.82	0.011	0.49	<0.1	0.03	16.7	0.2	<0.05	6	0.8	<0.2
102060	Soil	16	45	1.51	1153	0.124	<1	2.19	0.011	0.84	<0.1	0.02	15.5	0.4	<0.05	7	<0.5	<0.2
102061	Soil	10	71	1.51	1223	0.136	<1	2.03	0.013	0.97	<0.1	<0.01	14.5	0.4	<0.05	7	<0.5	<0.2
102062	Soil	15	43	0.59	313	0.061	<1	1.63	0.019	0.12	<0.1	0.03	6.7	<0.1	<0.05	6	<0.5	<0.2
102063	Soil	9	18	0.56	227	0.033	<1	1.52	0.021	0.05	0.1	0.04	5.3	<0.1	<0.05	5	<0.5	<0.2
102064	Soil	56	29	0.23	159	0.019	<1	1.27	0.004	0.20	<0.1	0.48	4.5	0.2	<0.05	4	1.2	<0.2
102065	Soil	43	56	0.97	277	0.312	<1	2.88	0.011	1.42	<0.1	<0.01	5.6	1.0	<0.05	11	1.0	<0.2
102066	Soil	59	39	0.91	237	0.261	<1	2.46	0.009	1.26	<0.1	0.02	2.7	0.9	<0.05	8	0.9	<0.2
102067	Soil	52	33	0.70	133	0.219	<1	2.00	0.006	1.02	<0.1	0.02	3.6	0.7	<0.05	7	<0.5	<0.2
102068	Soil	45	37	0.84	186	0.253	<1	2.22	0.009	1.23	<0.1	0.01	3.4	0.8	<0.05	7	1.0	<0.2
102069	Soil	28	25	0.45	160	0.107	<1	1.69	0.008	0.32	0.1	0.01	3.5	0.2	<0.05	5	<0.5	<0.2
102070	Soil	30	17	0.40	113	0.135	<1	1.57	0.006	0.69	<0.1	<0.01	3.2	0.5	<0.05	5	<0.5	<0.2
102071	Soil	63	34	0.62	211	0.218	<1	1.68	0.007	0.97	<0.1	0.01	3.1	0.7	<0.05	6	0.6	0.2
102072	Soil	37	24	0.65	250	0.186	<1	2.08	0.008	1.01	0.3	0.01	7.5	0.7	<0.05	10	0.5	<0.2
102073	Soil	16	28	0.66	184	0.200	<1	1.81	0.008	1.17	<0.1	0.02	2.7	0.7	<0.05	7	<0.5	<0.2
102074	Soil	10	84	1.38	641	0.177	<1	2.37	0.010	1.33	<0.1	0.01	8.6	0.6	<0.05	9	<0.5	<0.2
102075	Soil	16	50	0.67	376	0.186	<1	1.87	0.007	1.12	0.2	0.01	6.7	0.7	<0.05	10	<0.5	<0.2

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 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
102076	Soil	1.1	21.7	11.1	72	<0.1	17.9	11.5	362	1.88	8.6	1.1	7.6	10.6	17	<0.1	0.4	0.2	42	0.10	0.018
102077	Soil	1.9	27.8	12.3	57	<0.1	16.6	7.1	157	1.89	14.1	1.3	11.2	8.4	11	<0.1	0.8	0.2	41	0.07	0.019
102078	Soil	2.7	77.8	15.1	277	<0.1	121.6	45.3	1017	4.33	33.2	1.8	359.4	11.1	13	<0.1	0.8	0.2	92	0.08	0.026
102079	Soil	1.9	23.5	9.5	105	<0.1	27.1	8.6	201	3.47	4.4	1.3	5.1	10.8	13	<0.1	0.4	0.1	52	0.13	0.029
102080	Soil	1.9	22.5	21.1	57	<0.1	26.0	4.5	139	4.05	20.6	2.6	3.1	8.7	31	<0.1	0.5	0.2	26	0.32	0.033
102081	Soil	0.5	38.0	13.9	131	<0.1	38.6	10.0	280	3.02	3.9	1.5	2.9	12.4	13	0.2	0.5	0.3	47	0.08	0.015
102082	Soil	0.9	27.6	14.0	76	<0.1	29.1	12.3	267	1.98	5.0	1.0	2.1	6.2	25	0.1	0.5	0.3	38	0.15	0.012
102083	Soil	0.7	12.9	5.8	21	<0.1	10.5	3.5	71	1.17	4.8	0.5	1.8	2.4	5	<0.1	0.5	0.1	31	0.03	0.009
102084	Soil	0.6	13.0	5.1	9	<0.1	7.1	3.8	198	0.64	3.3	0.6	1.0	1.6	7	<0.1	0.4	<0.1	14	<0.01	0.018
102085	Soil	0.4	32.6	5.0	8	<0.1	5.0	1.8	114	0.90	2.9	1.1	<0.5	1.6	3	<0.1	0.5	<0.1	16	0.01	0.006
102086	Soil	0.6	62.2	19.1	150	<0.1	46.4	13.8	499	4.02	6.5	2.3	4.7	17.4	17	0.1	0.2	0.3	84	0.45	0.149
102087	Soil	0.7	68.1	17.0	209	0.1	63.7	14.1	1038	4.79	1.1	1.6	5.2	21.4	15	<0.1	<0.1	0.5	139	0.43	0.130
102088	Soil	0.6	16.5	8.0	42	<0.1	17.1	6.0	769	1.83	1.4	1.0	3.6	21.6	11	<0.1	0.1	0.2	34	0.24	0.026
102089	Soil	0.5	44.3	17.5	95	0.1	24.9	7.7	756	2.82	1.4	1.7	8.9	20.9	13	0.1	0.1	0.3	60	0.30	0.052
102090	Soil	0.5	37.4	17.4	83	0.1	23.3	7.0	838	2.63	2.0	2.0	6.3	18.8	13	0.1	0.2	0.3	42	0.30	0.058
102091	Soil	0.7	29.0	6.7	72	<0.1	25.3	8.6	680	2.69	3.2	1.4	3.4	12.6	15	<0.1	0.2	0.3	58	0.28	0.068
102092	Soil	0.9	18.4	9.1	74	<0.1	16.9	7.0	299	2.72	4.5	1.1	1.1	8.8	12	<0.1	0.3	0.2	49	0.12	0.014
102093	Soil	0.9	34.1	13.6	119	0.1	27.3	8.5	482	3.32	3.2	1.2	1.0	10.4	16	0.1	0.2	0.2	82	0.36	0.085
102094	Soil	1.5	93.0	27.6	170	0.2	58.5	18.0	643	5.04	0.7	1.6	7.2	21.7	11	<0.1	<0.1	0.4	100	0.33	0.088
102095	Soil	1.4	38.9	13.9	99	0.2	29.2	9.8	370	3.30	2.1	1.3	3.9	10.0	12	<0.1	0.2	0.2	68	0.27	0.045
102096	Soil	0.7	20.4	8.5	67	<0.1	20.1	10.2	439	2.35	4.9	1.0	1.9	4.3	22	0.1	0.4	0.1	42	0.42	0.067



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Project: Montana
 Report Date: June 26, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
102076	Soil	17	30	0.37	303	0.060	<1	1.14	0.004	0.38	<0.1	0.03	4.8	0.8	<0.05	5	<0.5	<0.2
102077	Soil	16	25	0.21	191	0.036	<1	0.84	0.003	0.20	<0.1	0.05	4.1	0.8	<0.05	4	<0.5	<0.2
102078	Soil	24	31	0.22	236	0.025	<1	0.97	0.003	0.18	<0.1	0.09	8.9	1.1	<0.05	5	<0.5	<0.2
102079	Soil	20	37	0.70	243	0.157	<1	1.67	0.006	0.89	<0.1	0.02	4.1	2.5	<0.05	7	<0.5	<0.2
102080	Soil	35	23	0.22	414	0.008	<1	0.90	0.006	0.09	<0.1	0.04	4.3	0.4	<0.05	4	<0.5	<0.2
102081	Soil	28	32	0.48	334	0.115	<1	1.16	0.005	0.44	<0.1	0.03	5.1	1.6	<0.05	6	<0.5	<0.2
102082	Soil	17	24	0.29	211	0.040	<1	0.97	0.005	0.15	<0.1	0.04	4.5	0.9	<0.05	5	<0.5	<0.2
102083	Soil	6	17	0.14	71	0.039	<1	1.09	0.003	0.02	<0.1	<0.01	2.0	<0.1	0.06	3	<0.5	<0.2
102084	Soil	4	11	0.04	35	0.014	<1	0.63	0.001	<0.01	<0.1	0.01	2.4	<0.1	<0.05	1	<0.5	<0.2
102085	Soil	3	9	0.04	44	0.015	<1	0.35	0.002	0.01	<0.1	0.03	3.7	<0.1	0.05	1	<0.5	<0.2
102086	Soil	51	44	0.69	392	0.142	<1	1.96	0.010	0.88	<0.1	0.02	3.2	0.4	<0.05	7	1.0	<0.2
102087	Soil	36	65	0.86	364	0.294	<1	2.83	0.013	1.36	<0.1	0.02	7.2	0.8	<0.05	12	0.8	<0.2
102088	Soil	41	19	0.41	158	0.092	<1	1.28	0.004	0.40	0.1	0.02	5.3	0.4	<0.05	6	0.5	<0.2
102089	Soil	65	32	0.49	254	0.131	<1	1.90	0.007	0.75	0.1	0.02	5.3	0.6	<0.05	9	0.7	<0.2
102090	Soil	74	25	0.45	233	0.104	<1	1.78	0.007	0.68	0.1	0.02	4.7	0.5	<0.05	8	0.6	<0.2
102091	Soil	37	29	0.51	219	0.079	<1	1.99	0.008	0.40	<0.1	0.03	4.9	0.3	<0.05	8	0.6	<0.2
102092	Soil	22	26	0.46	149	0.123	<1	1.90	0.007	0.31	0.1	<0.01	3.4	0.3	<0.05	7	0.7	<0.2
102093	Soil	27	39	0.71	252	0.147	<1	2.27	0.008	0.68	<0.1	0.02	5.4	0.4	<0.05	8	0.7	<0.2
102094	Soil	50	52	1.01	487	0.337	<1	2.89	0.011	1.74	<0.1	0.01	4.2	0.9	<0.05	9	1.2	<0.2
102095	Soil	23	37	0.64	258	0.167	<1	1.88	0.009	0.63	0.1	0.02	3.7	0.4	<0.05	7	1.0	<0.2
102096	Soil	14	27	0.50	247	0.069	<1	1.24	0.014	0.13	0.2	0.03	2.7	0.1	0.06	4	0.6	<0.2



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Project: Montana

Report Date: June 26, 2011

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QUALITY CONTROL REPORT

WHI11000230.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
111068	Soil	0.5	41.3	6.3	92	<0.1	22.3	15.3	551	4.54	5.5	1.0	<0.5	6.5	38	<0.1	0.2	0.2	127	0.62	0.032
REP 111068	QC	0.5	43.3	6.0	99	<0.1	23.4	15.3	576	4.72	5.8	1.0	3.3	6.6	40	<0.1	0.3	<0.1	134	0.63	0.036
108043	Soil	0.7	24.3	2.1	72	<0.1	8.8	18.9	623	5.56	2.0	0.5	<0.5	2.9	26	<0.1	0.2	<0.1	116	0.48	0.082
REP 108043	QC	0.7	25.4	2.1	73	<0.1	8.5	18.2	597	5.46	2.3	0.5	<0.5	3.0	27	<0.1	0.2	<0.1	111	0.42	0.077
108060	Soil	0.6	17.8	4.1	113	<0.1	22.3	8.2	427	4.77	3.9	0.5	1.4	4.3	14	<0.1	0.3	0.2	67	0.18	0.033
REP 108060	QC	0.6	17.9	4.3	118	<0.1	23.6	8.2	423	4.82	4.2	0.5	0.8	4.4	14	<0.1	0.3	0.2	68	0.19	0.035
108078	Soil	0.4	39.3	3.4	37	<0.1	8.1	9.8	229	2.47	3.6	0.5	<0.5	2.2	148	<0.1	0.3	<0.1	46	0.68	0.070
REP 108078	QC	0.4	39.5	3.3	37	<0.1	8.3	10.3	229	2.46	3.7	0.5	0.8	2.0	149	<0.1	0.2	<0.1	47	0.66	0.073
108088	Soil	1.7	58.5	22.6	83	<0.1	26.1	10.5	215	2.81	4.8	1.5	2.5	9.1	13	<0.1	0.4	0.2	68	0.06	0.029
REP 108088	QC	1.8	57.5	22.1	83	<0.1	25.9	10.5	219	2.84	4.4	1.6	3.8	9.2	13	<0.1	0.5	0.2	68	0.06	0.029
108102	Soil	1.2	29.0	9.6	124	<0.1	29.0	12.1	670	3.56	1.4	1.0	2.9	7.6	4	<0.1	0.2	0.2	104	0.06	0.033
REP 108102	QC	1.2	29.4	9.4	121	0.1	28.2	11.7	652	3.43	1.5	1.0	1.0	7.6	4	<0.1	0.3	0.1	100	0.05	0.033
108119	Soil	0.8	24.0	11.3	61	<0.1	31.4	13.0	423	3.38	<0.5	1.5	5.5	17.7	22	<0.1	0.3	0.4	46	0.42	0.031
REP 108119	QC	0.8	24.5	12.0	65	<0.1	33.7	13.7	445	3.56	<0.5	1.6	6.2	18.1	22	<0.1	0.3	0.4	48	0.45	0.034
0112057	Soil	1.2	23.7	7.5	81	<0.1	17.9	14.7	476	4.43	5.4	2.1	1.0	6.4	34	<0.1	0.7	0.1	94	0.41	0.035
REP 0112057	QC	1.1	23.7	7.5	80	<0.1	17.5	14.8	473	4.51	5.7	2.2	2.0	6.3	34	<0.1	0.7	0.1	96	0.42	0.038
0112071	Soil	1.0	67.4	9.1	114	<0.1	33.6	11.6	301	3.21	2.3	1.6	3.9	4.9	6	<0.1	0.3	0.3	70	0.02	0.041
REP 0112071	QC	1.0	68.1	9.2	115	<0.1	33.1	11.8	302	3.23	2.6	1.7	4.1	5.0	7	<0.1	0.3	0.3	71	0.02	0.038
104038	Soil	0.7	9.4	4.3	45	<0.1	9.2	9.2	227	2.81	3.7	0.3	1.1	1.9	16	<0.1	0.2	0.1	67	0.45	0.072
REP 104038	QC	0.7	9.6	4.3	45	<0.1	9.2	9.2	224	2.77	4.0	0.3	0.7	2.0	16	<0.1	0.2	<0.1	67	0.46	0.077
104047	Soil	1.0	21.5	9.5	51	<0.1	15.2	10.6	312	2.81	7.5	1.1	23.7	5.5	17	<0.1	0.4	0.2	61	0.23	0.024
REP 104047	QC	0.9	21.6	9.1	52	<0.1	15.8	10.9	315	2.88	7.9	1.1	2.5	5.2	18	<0.1	0.4	0.2	65	0.23	0.023
104080	Soil	0.7	25.6	10.9	48	<0.1	23.7	8.0	317	2.54	7.6	1.5	2.4	5.5	51	<0.1	0.5	0.2	56	0.36	0.024
REP 104080	QC	0.8	26.5	11.0	50	<0.1	23.1	8.5	321	2.61	8.0	1.7	1.1	5.5	52	0.1	0.5	0.2	58	0.37	0.024
0113025	Soil	0.8	18.9	5.3	75	<0.1	15.1	10.0	564	4.11	7.1	1.2	4.7	6.0	15	<0.1	0.5	<0.1	55	0.15	0.022
REP 0113025	QC	0.7	18.6	5.4	73	<0.1	14.0	9.9	551	4.00	6.9	1.2	2.2	6.1	15	<0.1	0.5	<0.1	58	0.14	0.021
0113037	Soil	0.7	15.0	14.0	37	<0.1	11.3	4.8	189	2.01	6.8	2.4	1.5	4.2	87	<0.1	0.5	0.2	37	0.33	0.017
REP 0113037	QC	0.8	14.7	14.4	38	<0.1	11.0	5.1	186	1.97	6.9	2.5	2.1	4.3	87	<0.1	0.4	0.2	38	0.33	0.017



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Project: Montana

Report Date: June 26, 2011

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
111068	Soil	21	63	1.98	651	0.243	<1	3.38	0.040	0.63	<0.1	0.02	11.5	0.5	<0.05	10	<0.5	<0.2
REP 111068	QC	22	67	1.95	675	0.264	<1	3.40	0.039	0.62	<0.1	0.03	11.7	0.5	<0.05	11	<0.5	<0.2
108043	Soil	8	20	1.64	325	0.203	<1	3.26	0.026	0.72	<0.1	<0.01	7.7	0.2	<0.05	10	<0.5	<0.2
REP 108043	QC	8	19	1.49	330	0.193	<1	2.94	0.025	0.70	<0.1	<0.01	7.4	0.2	<0.05	11	<0.5	<0.2
108060	Soil	19	34	1.35	377	0.209	<1	2.88	0.026	0.86	0.1	<0.01	14.1	0.3	0.08	13	<0.5	<0.2
REP 108060	QC	19	35	1.35	382	0.212	<1	2.93	0.009	0.87	0.1	<0.01	14.1	0.3	0.07	13	<0.5	<0.2
108078	Soil	9	27	0.66	316	0.044	<1	2.24	0.042	0.04	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
REP 108078	QC	9	26	0.65	319	0.043	<1	2.23	0.042	0.04	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
108088	Soil	18	38	0.37	281	0.107	<1	1.60	0.005	0.27	<0.1	0.03	4.3	0.5	<0.05	5	0.7	<0.2
REP 108088	QC	18	37	0.36	278	0.106	2	1.53	0.005	0.26	<0.1	0.04	4.1	0.5	<0.05	5	0.5	<0.2
108102	Soil	13	50	0.64	311	0.280	<1	2.00	0.005	0.93	<0.1	0.03	7.4	0.6	<0.05	8	<0.5	<0.2
REP 108102	QC	13	48	0.64	307	0.267	<1	1.98	0.005	0.93	0.1	0.02	7.3	0.7	<0.05	7	<0.5	<0.2
108119	Soil	35	53	0.88	234	0.094	<1	2.15	0.007	0.44	<0.1	0.01	6.7	0.4	<0.05	8	<0.5	<0.2
REP 108119	QC	36	57	0.92	247	0.096	<1	2.28	0.007	0.45	<0.1	0.03	7.2	0.4	<0.05	8	<0.5	<0.2
0112057	Soil	27	40	1.01	382	0.145	1	2.45	0.011	0.40	<0.1	0.10	8.6	0.2	<0.05	10	<0.5	<0.2
REP 0112057	QC	27	40	1.00	378	0.149	1	2.44	0.012	0.40	<0.1	0.08	8.4	0.2	<0.05	10	<0.5	<0.2
0112071	Soil	14	42	0.65	368	0.178	<1	1.79	0.014	0.69	<0.1	0.03	5.1	0.5	<0.05	6	<0.5	<0.2
REP 0112071	QC	14	44	0.62	376	0.181	<1	1.70	0.013	0.68	<0.1	0.03	5.1	0.5	<0.05	7	<0.5	<0.2
104038	Soil	4	16	0.65	185	0.104	<1	1.63	0.025	0.24	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
REP 104038	QC	5	16	0.66	184	0.108	<1	1.67	0.026	0.25	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
104047	Soil	17	30	0.50	230	0.090	1	1.83	0.011	0.06	0.1	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
REP 104047	QC	16	31	0.50	229	0.094	2	1.84	0.010	0.06	0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
104080	Soil	19	37	0.52	310	0.077	<1	2.15	0.016	0.07	<0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
REP 104080	QC	20	38	0.53	315	0.082	1	2.26	0.016	0.07	<0.1	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2
0113025	Soil	29	25	0.96	408	0.197	<1	2.48	0.011	0.86	0.1	0.01	10.9	0.3	<0.05	10	<0.5	<0.2
REP 0113025	QC	28	27	0.96	392	0.213	<1	2.34	0.011	0.82	0.1	0.02	10.6	0.3	<0.05	10	<0.5	<0.2
0113037	Soil	14	22	0.40	510	0.035	<1	1.98	0.011	0.10	<0.1	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
REP 0113037	QC	14	23	0.41	515	0.037	<1	1.96	0.012	0.09	<0.1	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2



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Project: Montana

Report Date: June 26, 2011

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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	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
102052	Soil	2.9	10.4	4.5	87	<0.1	14.5	15.0	707	4.94	2.3	0.5	1.2	5.2	11	<0.1	0.3	<0.1	55	0.11	0.031
REP 102052	QC	3.0	10.0	3.8	88	<0.1	14.8	14.9	753	4.83	2.4	0.5	1.2	5.0	11	<0.1	0.3	<0.1	57	0.12	0.029
102074	Soil	0.8	40.4	14.2	158	<0.1	86.2	14.7	1645	6.33	2.4	2.5	2.6	9.3	18	0.3	0.1	0.2	97	0.19	0.031
REP 102074	QC	0.9	41.0	14.9	165	<0.1	86.6	14.5	1646	6.43	2.2	2.4	2.6	9.2	17	0.3	0.1	0.2	95	0.17	0.034
102088	Soil	0.6	16.5	8.0	42	<0.1	17.1	6.0	769	1.83	1.4	1.0	3.6	21.6	11	<0.1	0.1	0.2	34	0.24	0.026
REP 102088	QC	0.7	16.9	8.3	41	<0.1	16.1	5.8	752	1.69	1.2	1.0	3.7	22.0	11	<0.1	0.2	0.1	33	0.23	0.028
Reference Materials																					
STD DS8	Standard	13.1	108.0	122.0	326	1.7	38.2	7.4	632	2.44	26.2	2.6	102.6	6.6	73	2.4	5.8	6.1	42	0.70	0.088
STD DS8	Standard	13.3	108.8	117.8	318	1.7	37.7	7.3	626	2.50	26.2	2.7	103.8	6.9	71	2.2	5.8	6.2	41	0.69	0.080
STD DS8	Standard	12.7	107.4	122.3	326	1.8	38.9	7.7	641	2.60	27.1	2.5	111.6	6.5	71	2.2	6.1	6.1	41	0.69	0.085
STD DS8	Standard	12.7	101.2	120.7	304	1.7	35.4	7.1	574	2.38	24.1	2.6	116.5	6.8	70	2.2	5.5	6.3	40	0.62	0.078
STD DS8	Standard	14.1	120.0	122.8	322	1.7	40.2	7.9	643	2.50	27.3	2.9	108.3	7.1	71	2.4	5.9	6.5	44	0.70	0.083
STD DS8	Standard	14.3	123.1	126.0	329	1.8	40.9	7.9	636	2.60	29.0	2.8	108.9	7.2	69	2.4	6.2	6.5	46	0.72	0.079
STD DS8	Standard	14.8	117.2	126.2	333	1.9	42.0	8.2	645	2.60	28.1	2.7	111.4	6.7	70	2.6	6.1	6.4	45	0.72	0.084
STD DS8	Standard	15.0	115.1	127.3	329	1.8	41.5	8.0	635	2.62	28.4	2.8	117.3	7.0	73	2.7	6.1	6.6	45	0.72	0.083
STD DS8	Standard	13.5	112.0	127.8	324	1.9	39.3	7.9	624	2.48	25.8	2.9	113.2	7.1	67	2.3	6.1	6.9	42	0.70	0.081
STD DS8	Standard	13.9	120.1	127.8	330	1.9	40.6	8.1	647	2.52	27.9	2.8	118.8	7.1	71	2.4	6.3	6.9	45	0.73	0.082
STD DS8	Standard	15.0	123.3	134.2	335	1.9	43.3	8.6	659	2.56	27.0	2.8	114.8	7.3	68	2.3	5.9	6.7	48	0.71	0.078
STD DS8	Standard	14.5	122.3	133.4	342	1.9	43.0	8.3	662	2.60	28.7	2.9	114.8	7.4	71	2.3	6.2	6.7	47	0.73	0.080
STD DS8	Standard	13.8	115.3	118.6	305	1.6	39.4	7.6	603	2.38	24.8	2.8	115.4	6.9	63	2.2	5.7	5.8	43	0.67	0.075
STD DS8	Standard	14.2	116.3	123.5	321	1.8	40.8	8.0	623	2.47	26.2	3.0	119.7	7.3	66	2.3	5.5	6.2	44	0.71	0.078
STD DS8	Standard	14.0	112.4	133.0	336	1.8	40.3	7.4	657	2.58	26.9	3.0	119.3	7.2	81	2.3	6.0	6.6	44	0.75	0.098
STD DS8	Standard	14.5	111.0	128.2	329	1.8	40.6	7.6	624	2.63	27.0	3.1	117.3	7.3	81	2.5	6.1	6.9	43	0.76	0.092
STD DS8	Standard	13.7	111.9	118.5	320	1.9	39.4	7.7	623	2.46	25.1	2.5	111.7	6.3	58	2.4	5.2	5.6	44	0.69	0.080
STD DS8	Standard	13.6	117.0	122.8	324	1.8	40.0	8.1	627	2.54	26.5	2.5	105.5	6.5	60	2.3	5.1	5.7	45	0.74	0.082
STD DS8	Standard	13.2	105.7	118.5	336	1.9	36.7	7.7	665	2.50	27.1	2.8	183.6	7.2	72	2.3	5.9	6.5	43	0.73	0.079
STD DS8	Standard	14.0	112.2	125.7	328	1.8	39.4	7.9	662	2.57	26.8	2.9	114.3	7.3	71	2.3	5.8	6.6	44	0.70	0.080
STD DS8	Standard	14.7	125.1	141.1	332	1.8	44.8	8.8	670	2.65	25.4	3.1	137.0	8.0	58	2.5	5.0	5.9	46	0.74	0.082
STD DS8	Standard	14.5	118.4	129.4	333	1.9	40.7	8.5	631	2.56	25.5	3.0	132.1	7.3	60	2.5	4.7	5.6	46	0.71	0.083

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.



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QUALITY CONTROL REPORT

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		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
102052	Soil	11	28	1.08	171	0.159	<1	2.81	0.009	0.87	<0.1	<0.01	10.2	0.4	<0.05	13	<0.5	<0.2
REP 102052	QC	10	29	1.04	166	0.175	<1	2.73	0.009	0.93	0.1	<0.01	10.7	0.4	<0.05	13	<0.5	<0.2
102074	Soil	10	84	1.38	641	0.177	<1	2.37	0.010	1.33	<0.1	0.01	8.6	0.6	<0.05	9	<0.5	<0.2
REP 102074	QC	10	82	1.31	634	0.175	<1	2.33	0.009	1.29	<0.1	<0.01	8.2	0.6	<0.05	9	0.6	<0.2
102088	Soil	41	19	0.41	158	0.092	<1	1.28	0.004	0.40	0.1	0.02	5.3	0.4	<0.05	6	0.5	<0.2
REP 102088	QC	39	19	0.42	144	0.087	<1	1.33	0.006	0.39	0.1	0.02	5.2	0.3	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	123	0.63	286	0.119	3	0.93	0.098	0.44	2.8	0.18	2.2	5.3	0.17	5	4.8	5.2
STD DS8	Standard	15	121	0.60	277	0.122	3	0.94	0.100	0.42	2.8	0.18	2.2	5.1	0.08	5	5.1	4.9
STD DS8	Standard	14	117	0.65	273	0.120	2	0.95	0.109	0.44	3.1	0.20	2.1	5.4	0.12	5	5.9	5.3
STD DS8	Standard	15	110	0.59	267	0.112	2	0.88	0.099	0.40	2.7	0.20	2.1	5.3	0.18	5	5.2	4.8
STD DS8	Standard	15	121	0.61	284	0.127	2	0.92	0.094	0.43	2.9	0.19	2.0	5.4	0.21	5	5.4	5.0
STD DS8	Standard	15	123	0.62	290	0.127	2	0.93	0.091	0.42	3.1	0.20	2.1	5.5	0.17	5	6.0	5.4
STD DS8	Standard	15	125	0.62	290	0.125	3	0.94	0.094	0.45	3.2	0.19	2.0	5.4	0.25	5	6.6	5.4
STD DS8	Standard	16	123	0.62	299	0.130	2	0.98	0.101	0.43	3.2	0.19	2.2	5.6	0.16	5	5.9	5.0
STD DS8	Standard	15	119	0.62	274	0.123	3	0.90	0.088	0.44	3.1	0.17	2.0	5.7	0.19	4	5.2	4.8
STD DS8	Standard	15	124	0.63	292	0.128	2	0.95	0.088	0.44	3.1	0.21	2.1	5.5	0.17	5	5.3	4.9
STD DS8	Standard	15	128	0.65	271	0.132	3	0.93	0.082	0.43	3.0	0.20	2.0	5.7	0.19	5	5.7	5.2
STD DS8	Standard	16	127	0.66	289	0.136	1	0.97	0.095	0.45	3.1	0.21	2.1	5.8	0.18	5	5.6	5.3
STD DS8	Standard	16	119	0.59	269	0.125	3	0.90	0.092	0.38	2.8	0.20	2.1	5.6	0.12	5	5.2	5.1
STD DS8	Standard	16	124	0.62	267	0.126	2	0.93	0.090	0.40	3.0	0.21	2.1	5.6	0.17	5	4.5	4.8
STD DS8	Standard	15	122	0.67	293	0.126	3	1.01	0.105	0.48	3.2	0.20	1.8	6.2	0.24	5	5.3	5.0
STD DS8	Standard	16	117	0.66	293	0.126	4	1.02	0.110	0.48	3.1	0.20	1.9	6.1	0.21	5	5.3	5.0
STD DS8	Standard	13	119	0.60	267	0.110	3	0.90	0.096	0.42	3.0	0.19	1.9	5.2	0.20	5	4.8	5.1
STD DS8	Standard	14	123	0.62	284	0.115	2	0.96	0.103	0.43	3.0	0.21	2.1	5.3	0.18	5	5.0	5.0
STD DS8	Standard	15	118	0.61	281	0.127	3	0.91	0.094	0.41	2.8	0.21	1.9	5.4	0.13	5	5.9	5.4
STD DS8	Standard	15	122	0.62	281	0.129	2	0.92	0.100	0.43	3.0	0.20	1.9	5.4	0.10	5	5.2	4.9
STD DS8	Standard	13	129	0.63	296	0.126	3	0.96	0.088	0.43	3.3	0.25	2.2	5.9	0.18	5	5.5	5.0
STD DS8	Standard	12	126	0.62	281	0.120	3	0.93	0.083	0.43	3.2	0.23	2.2	5.6	0.13	5	5.6	4.8



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Project: Montana

Report Date: June 26, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11000230.1

		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
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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Project: Montana

Report Date: June 26, 2011

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000230.1

		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
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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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 16, 2011
Report Date: June 28, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000231.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110612170842
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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

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			WHI
Dry at 60C	320	Dry at 60C			WHI
1DX2	319	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.
** 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: Montana
 Report Date: June 28, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000231.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	2	0.01	0.001	
0103075	Soil		0.6	30.0	10.9	65	<0.1	21.4	8.9	309	2.44	9.3	1.2	3.0	4.3	68	0.1	0.6	0.2	48	0.68	0.071
0103076	Soil		0.9	17.7	10.7	61	<0.1	13.4	8.4	545	2.45	6.9	1.2	1.7	5.6	87	0.1	0.3	0.2	45	0.62	0.067
0103077	Soil		2.0	22.1	9.9	55	<0.1	17.0	11.7	736	2.45	11.3	1.0	1.7	3.6	109	0.1	0.4	0.2	64	0.74	0.073
0103078	Soil		0.6	19.6	9.4	45	<0.1	14.9	6.7	190	1.98	7.9	1.1	1.7	3.5	47	<0.1	0.4	0.2	41	0.51	0.060
0103079	Soil		0.7	25.9	10.3	45	0.1	20.0	9.5	318	2.26	9.1	2.3	1.4	3.7	47	0.2	0.5	0.2	48	0.54	0.063
0103080	Soil		0.6	25.7	13.6	46	0.1	19.8	7.1	283	1.86	6.8	1.9	2.1	6.1	49	0.2	0.6	0.2	34	0.44	0.036
0103081	Soil		0.5	24.6	10.0	44	<0.1	16.5	7.1	239	1.88	5.3	2.3	1.0	4.4	40	<0.1	0.4	0.1	43	0.33	0.024
0103082	Soil		0.8	19.6	11.0	36	<0.1	15.5	4.3	150	1.42	4.2	2.2	2.5	5.4	82	<0.1	0.4	0.2	29	0.34	0.028
0103083	Soil		0.4	17.1	9.3	46	<0.1	14.9	5.7	141	1.87	5.7	1.5	3.6	3.8	28	<0.1	0.4	0.2	42	0.25	0.048
0103084	Soil		0.9	10.3	11.5	52	<0.1	14.6	5.9	224	2.24	5.6	0.7	1.1	4.8	13	0.1	0.4	0.3	58	0.09	0.020
0103085	Soil		0.7	26.9	11.6	78	<0.1	52.3	10.8	216	1.92	18.6	1.9	2.7	5.6	88	<0.1	0.2	0.2	38	0.66	0.074
0103086	Soil		1.0	29.6	9.4	75	0.1	25.3	9.0	402	2.51	9.7	0.9	3.2	4.7	45	0.2	0.8	0.2	54	0.60	0.082
0103087	Soil		0.4	52.4	11.2	72	0.2	88.9	15.9	707	3.18	16.9	2.2	2.8	4.7	91	0.2	0.6	0.2	76	1.11	0.111
0103088	Soil		1.0	20.3	10.6	51	<0.1	30.2	10.1	306	2.69	11.1	1.4	2.7	4.4	51	<0.1	0.6	0.2	64	0.53	0.033
0103089	Soil		3.3	25.2	15.8	78	<0.1	44.1	13.3	1312	2.15	17.1	1.7	<0.5	7.9	106	0.3	0.4	0.2	44	0.72	0.105
0103090	Soil		3.4	22.8	13.5	73	<0.1	42.8	12.5	4073	2.28	15.8	1.6	0.7	7.4	123	1.0	0.3	0.2	43	0.71	0.096
0103091	Soil		0.6	15.2	10.3	56	<0.1	11.1	3.9	242	1.94	6.8	3.4	0.8	7.7	271	<0.1	0.3	0.2	29	0.53	0.023
0103092	Soil		1.1	13.1	17.9	51	<0.1	9.9	7.1	156	1.49	5.8	2.6	<0.5	5.8	100	<0.1	0.3	0.2	30	0.55	0.052
0103093	Soil		4.3	11.5	8.7	66	<0.1	5.4	10.3	589	4.21	55.1	1.3	<0.5	6.8	53	<0.1	0.5	0.1	54	0.20	0.048
0103094	Soil		0.9	26.2	5.1	91	<0.1	7.6	8.9	439	4.10	5.9	2.0	<0.5	8.8	22	<0.1	0.2	<0.1	45	0.23	0.064
0103095	Soil		0.8	40.7	6.5	77	<0.1	13.3	9.1	396	4.02	5.2	1.9	1.8	6.7	16	<0.1	0.3	0.2	74	0.16	0.028
0103096	Soil		0.5	30.9	5.9	75	<0.1	14.7	12.5	431	3.83	4.1	1.0	0.5	3.7	29	0.1	0.3	<0.1	95	0.49	0.058
0103097	Soil		0.8	10.5	6.8	64	<0.1	9.4	10.1	508	2.82	5.1	0.9	3.8	5.5	20	<0.1	0.2	0.1	58	0.26	0.043
0103098	Soil		1.1	25.7	8.9	62	<0.1	18.1	11.5	383	3.33	7.9	1.3	2.6	5.2	27	<0.1	0.5	0.1	79	0.33	0.025
0103099	Soil		0.5	14.7	4.0	63	<0.1	8.7	8.9	551	3.28	3.3	0.8	2.3	5.2	22	<0.1	0.2	0.2	66	0.30	0.037
0103100	Soil		0.4	15.3	4.2	67	<0.1	7.7	9.6	552	3.62	2.8	0.7	0.8	5.1	16	<0.1	0.3	<0.1	67	0.26	0.040
0103101	Soil		0.3	37.2	1.4	64	<0.1	9.2	19.8	797	4.32	1.7	0.4	0.8	1.3	23	0.1	0.2	<0.1	101	0.70	0.038
0103102	Soil		0.5	19.2	2.6	58	<0.1	5.1	14.1	373	3.04	1.8	0.3	0.6	1.1	37	0.1	0.2	0.1	68	0.83	0.081
0103103	Soil		0.6	34.3	2.7	101	<0.1	8.9	16.9	585	5.60	3.1	1.0	0.9	3.3	50	<0.1	0.4	<0.1	103	0.73	0.063
0103104	Soil		0.8	26.8	5.0	58	<0.1	12.3	15.0	497	3.32	6.2	0.4	0.7	2.1	26	0.1	0.3	0.1	72	0.41	0.069

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Project: Montana
 Report Date: June 28, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000231.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0103075	Soil	16	27	0.53	407	0.034	2	1.53	0.022	0.10	<0.1	0.03	4.2	0.2	0.05	5	0.6	<0.2
0103076	Soil	19	15	0.42	530	0.009	<1	1.77	0.019	0.16	<0.1	0.03	5.2	0.3	<0.05	5	0.8	<0.2
0103077	Soil	19	28	0.34	345	0.003	<1	2.19	0.037	0.06	<0.1	0.04	5.2	0.2	<0.05	5	0.5	<0.2
0103078	Soil	14	23	0.40	283	0.026	<1	1.43	0.012	0.05	<0.1	0.03	3.1	<0.1	<0.05	4	0.8	<0.2
0103079	Soil	16	27	0.41	367	0.039	<1	1.52	0.014	0.04	<0.1	0.04	3.8	<0.1	<0.05	4	1.0	<0.2
0103080	Soil	20	24	0.31	341	0.021	<1	1.71	0.010	0.07	<0.1	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
0103081	Soil	18	26	0.37	347	0.054	<1	1.51	0.014	0.05	<0.1	0.03	3.6	<0.1	<0.05	5	0.6	<0.2
0103082	Soil	21	23	0.29	469	0.046	<1	1.26	0.017	0.05	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
0103083	Soil	15	26	0.44	229	0.053	<1	1.62	0.009	0.04	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
0103084	Soil	12	24	0.29	150	0.049	<1	2.21	0.008	0.03	<0.1	0.02	2.0	0.2	<0.05	6	<0.5	<0.2
0103085	Soil	23	46	0.83	321	0.036	<1	2.12	0.016	0.20	<0.1	0.01	3.8	0.6	<0.05	6	<0.5	<0.2
0103086	Soil	16	28	0.57	330	0.063	2	1.45	0.020	0.05	0.2	0.03	3.8	<0.1	<0.05	4	0.8	<0.2
0103087	Soil	19	100	1.23	1001	0.060	<1	2.41	0.030	0.10	<0.1	0.04	7.0	0.2	<0.05	6	0.7	<0.2
0103088	Soil	17	47	0.67	443	0.061	<1	2.25	0.017	0.06	<0.1	0.03	4.4	0.1	<0.05	6	<0.5	<0.2
0103089	Soil	25	36	0.76	505	0.044	2	1.62	0.025	0.27	<0.1	0.01	5.1	0.6	<0.05	5	<0.5	<0.2
0103090	Soil	25	31	0.71	949	0.039	2	1.69	0.025	0.21	<0.1	<0.01	4.8	0.5	<0.05	5	<0.5	<0.2
0103091	Soil	26	12	0.30	2017	0.008	<1	2.08	0.016	0.19	<0.1	0.02	3.9	0.3	<0.05	5	0.5	<0.2
0103092	Soil	20	18	0.35	482	0.012	1	1.90	0.015	0.07	<0.1	0.02	2.6	0.3	<0.05	5	0.7	<0.2
0103093	Soil	31	13	0.35	255	0.060	<1	2.00	0.006	0.47	<0.1	<0.01	5.4	0.8	<0.05	8	1.0	<0.2
0103094	Soil	43	12	0.49	187	0.077	1	1.77	0.009	0.67	<0.1	<0.01	6.1	0.2	<0.05	10	1.1	<0.2
0103095	Soil	35	24	0.74	261	0.167	<1	2.15	0.008	0.48	<0.1	<0.01	7.0	0.3	<0.05	10	0.5	<0.2
0103096	Soil	19	29	0.79	261	0.113	<1	1.99	0.028	0.25	0.1	0.01	6.8	<0.1	0.08	8	0.7	<0.2
0103097	Soil	18	21	0.60	175	0.108	<1	1.86	0.009	0.24	<0.1	0.02	4.0	0.2	<0.05	7	0.8	<0.2
0103098	Soil	17	35	0.65	288	0.104	<1	2.14	0.014	0.09	<0.1	0.02	4.7	0.1	<0.05	7	0.7	<0.2
0103099	Soil	18	17	0.79	235	0.186	<1	2.23	0.014	0.59	<0.1	0.01	5.6	0.3	<0.05	8	<0.5	<0.2
0103100	Soil	20	16	0.88	214	0.204	<1	2.23	0.011	0.72	<0.1	<0.01	5.0	0.2	<0.05	9	<0.5	<0.2
0103101	Soil	9	29	1.37	372	0.218	<1	2.65	0.044	0.58	<0.1	<0.01	9.6	0.3	<0.05	8	0.5	<0.2
0103102	Soil	5	51	0.85	229	0.119	<1	1.99	0.043	0.15	<0.1	<0.01	7.5	0.1	<0.05	6	0.6	<0.2
0103103	Soil	13	29	1.24	298	0.074	<1	2.84	0.024	0.11	<0.1	0.02	9.9	<0.1	<0.05	11	0.8	<0.2
0103104	Soil	6	25	0.71	213	0.096	<1	2.14	0.025	0.15	<0.1	<0.01	4.4	<0.1	<0.05	6	0.7	<0.2

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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0103105	Soil	1.0	30.9	6.7	50	<0.1	19.5	10.6	326	3.25	6.5	0.7	4.1	3.7	30	<0.1	0.5	0.1	84	0.54	0.062
0103106	Soil	0.9	28.3	6.6	59	<0.1	19.2	11.5	260	2.87	5.1	0.7	4.3	3.5	36	<0.1	0.4	0.1	65	0.51	0.056
0103107	Soil	0.6	21.4	5.3	46	<0.1	12.8	9.0	222	2.49	4.6	0.7	7.6	3.3	34	0.1	0.3	<0.1	55	0.47	0.070
0103108	Soil	0.5	25.9	3.6	53	<0.1	13.5	12.4	332	2.90	4.1	0.5	9.5	3.4	26	<0.1	0.2	<0.1	72	0.51	0.074
0103109	Soil	1.2	25.7	8.7	58	<0.1	22.1	10.0	340	2.49	8.5	1.1	3.1	4.1	37	0.2	0.6	0.1	55	0.49	0.067
111093	Soil	1.3	42.5	10.6	62	<0.1	27.6	9.8	208	3.42	3.6	1.7	6.8	7.0	8	<0.1	0.5	0.3	69	0.05	0.036
111094	Soil	1.5	41.5	11.5	83	0.1	31.8	10.8	334	3.11	4.6	1.7	6.5	6.2	15	<0.1	0.4	0.2	64	0.12	0.037
111095	Soil	2.5	41.5	12.2	107	0.1	36.3	10.8	343	3.60	5.3	1.8	5.5	7.2	15	<0.1	0.7	0.3	71	0.11	0.054
111096	Soil	1.4	41.9	16.4	127	0.1	36.5	10.5	382	3.46	6.0	1.9	16.6	8.6	17	<0.1	0.6	0.3	75	0.16	0.043
111097	Soil	1.6	59.5	18.5	158	0.1	47.2	13.8	460	4.48	2.6	2.1	7.6	10.4	16	<0.1	0.9	0.3	102	0.18	0.066
111098	Soil	0.9	32.9	10.8	80	<0.1	27.3	8.4	329	2.99	5.3	1.6	5.6	7.1	18	<0.1	0.5	0.2	61	0.22	0.045
111099	Soil	1.0	26.7	10.9	72	<0.1	23.5	7.4	283	2.57	5.1	1.3	4.0	6.8	21	<0.1	0.4	0.2	57	0.24	0.033
111100	Soil	1.2	27.2	11.8	78	0.1	25.0	7.6	299	2.71	5.2	1.2	3.9	7.2	18	<0.1	0.4	0.2	57	0.22	0.036
111101	Soil	1.1	20.6	205.4	723	0.2	21.3	8.3	396	3.15	4.1	1.1	5.6	11.7	11	0.3	0.8	0.2	50	0.16	0.048
111102	Soil	1.2	29.0	57.8	439	<0.1	26.0	8.3	317	3.33	4.1	1.5	2.8	13.1	9	0.4	0.4	0.3	57	0.12	0.035
111103	Soil	1.1	22.4	35.5	283	0.1	20.9	8.3	321	2.86	4.7	1.0	3.6	8.7	12	0.3	0.4	0.2	53	0.16	0.043
111104	Soil	1.3	22.8	29.2	288	<0.1	22.2	8.0	283	3.02	5.8	1.1	4.6	9.6	15	0.2	0.5	0.2	54	0.17	0.027
111105	Soil	0.7	15.2	20.8	177	<0.1	16.3	6.1	208	2.37	4.2	0.8	1.1	6.3	12	0.1	0.3	0.2	45	0.16	0.031
111106	Soil	0.8	44.9	12.8	187	<0.1	34.9	9.9	450	3.70	2.1	1.8	2.8	15.7	10	0.3	0.3	0.3	68	0.21	0.072
111107	Soil	0.7	25.2	9.2	107	<0.1	21.0	7.3	361	2.70	4.5	1.5	2.0	10.7	15	0.1	0.4	0.3	52	0.20	0.033
111108	Soil	0.9	22.7	15.7	134	<0.1	18.6	6.5	285	2.40	4.1	1.4	3.6	7.2	12	0.2	0.4	0.2	48	0.15	0.029
111109	Soil	0.8	19.7	11.7	98	<0.1	16.9	6.5	252	2.34	5.1	1.0	7.0	6.6	15	0.2	0.4	0.2	47	0.18	0.034
111110	Soil	0.9	28.4	13.8	138	<0.1	23.4	7.1	330	2.69	4.7	1.7	3.7	10.7	15	0.2	0.4	0.2	47	0.21	0.054
111111	Soil	1.0	33.9	12.2	119	<0.1	26.9	7.3	265	2.71	5.2	1.6	3.2	9.8	17	<0.1	0.5	0.2	48	0.19	0.044
111112	Soil	1.3	30.7	12.3	83	0.1	23.9	6.8	236	2.43	5.3	1.4	3.1	7.9	21	0.1	0.6	0.2	47	0.22	0.045
111113	Soil	0.7	29.1	9.9	80	0.1	19.4	7.1	257	2.29	5.1	1.8	4.0	6.8	23	<0.1	0.4	0.2	44	0.25	0.050
111114	Soil	1.5	28.0	13.1	78	<0.1	26.8	7.5	258	2.42	7.5	1.9	5.4	6.1	25	<0.1	0.5	0.2	49	0.30	0.041
111115	Soil	0.9	27.3	9.8	71	0.1	23.4	7.8	272	2.51	7.3	1.3	3.7	3.9	27	0.2	0.6	0.2	51	0.34	0.051
111116	Soil	0.2	40.8	2.8	31	0.1	5.4	20.2	793	2.94	0.8	0.3	1.7	0.5	39	<0.1	0.2	<0.1	102	0.86	0.034
0112090	Soil	1.0	36.8	12.5	80	0.1	37.3	12.5	226	3.82	5.9	1.4	4.2	6.1	19	<0.1	0.5	0.2	82	0.25	0.043

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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

WHI11000231.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0103105	Soil	12	32	0.55	260	0.092	<1	1.77	0.031	0.10	<0.1	0.01	6.8	<0.1	<0.05	6	<0.5	<0.2
0103106	Soil	11	34	0.62	299	0.094	<1	1.76	0.027	0.13	<0.1	0.01	6.1	<0.1	<0.05	5	0.5	<0.2
0103107	Soil	11	22	0.51	249	0.069	<1	1.49	0.022	0.07	0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
0103108	Soil	9	23	0.73	248	0.101	<1	1.66	0.028	0.19	<0.1	<0.01	4.8	<0.1	<0.05	6	0.5	<0.2
0103109	Soil	15	31	0.49	344	0.073	<1	1.59	0.017	0.05	0.2	0.03	3.5	<0.1	<0.05	5	0.6	<0.2
111093	Soil	19	40	0.54	221	0.133	<1	1.80	0.009	0.53	<0.1	0.07	4.8	0.4	0.09	6	0.6	<0.2
111094	Soil	18	31	0.47	311	0.099	<1	1.53	0.008	0.25	<0.1	0.05	4.8	0.2	0.06	5	0.9	<0.2
111095	Soil	19	39	0.52	255	0.140	<1	1.64	0.007	0.52	0.1	0.03	4.4	0.5	<0.05	6	0.8	<0.2
111096	Soil	21	41	0.60	333	0.164	<1	1.87	0.010	0.46	0.1	0.04	4.5	0.4	0.05	7	<0.5	<0.2
111097	Soil	24	58	0.77	404	0.256	<1	2.20	0.009	1.03	<0.1	0.02	5.7	0.6	<0.05	8	1.2	<0.2
111098	Soil	22	34	0.53	308	0.127	<1	1.64	0.011	0.26	0.1	0.03	4.5	0.2	<0.05	6	0.7	<0.2
111099	Soil	20	31	0.49	293	0.126	<1	1.63	0.011	0.22	0.1	0.02	3.7	0.2	0.05	5	<0.5	<0.2
111100	Soil	20	32	0.49	268	0.133	<1	1.78	0.010	0.30	0.1	0.02	3.6	0.2	0.07	6	<0.5	<0.2
111101	Soil	17	28	0.50	168	0.127	<1	1.78	0.006	0.40	0.1	0.21	2.5	0.4	0.06	6	1.1	<0.2
111102	Soil	37	31	0.49	186	0.142	<1	1.71	0.006	0.44	0.1	0.06	3.1	0.4	0.05	6	0.6	<0.2
111103	Soil	22	27	0.46	168	0.118	<1	1.60	0.007	0.33	0.1	0.02	2.5	0.3	0.05	6	0.6	<0.2
111104	Soil	21	31	0.51	179	0.114	<1	1.78	0.008	0.28	0.1	0.03	3.0	0.3	<0.05	6	<0.5	<0.2
111105	Soil	18	22	0.39	164	0.098	<1	1.32	0.007	0.21	0.1	0.02	2.2	0.2	<0.05	5	<0.5	<0.2
111106	Soil	41	37	0.58	216	0.215	<1	1.77	0.007	0.98	<0.1	0.04	4.1	0.7	<0.05	7	0.5	<0.2
111107	Soil	27	25	0.48	229	0.153	<1	1.60	0.007	0.52	0.1	0.03	4.1	0.4	<0.05	6	<0.5	<0.2
111108	Soil	29	25	0.40	193	0.112	<1	1.32	0.007	0.30	<0.1	0.02	3.0	0.3	<0.05	5	0.6	<0.2
111109	Soil	18	26	0.43	168	0.112	<1	1.50	0.010	0.21	0.1	0.02	2.8	0.2	<0.05	5	<0.5	<0.2
111110	Soil	30	27	0.41	233	0.119	<1	1.34	0.008	0.39	<0.1	0.04	3.5	0.3	<0.05	5	0.7	<0.2
111111	Soil	27	26	0.39	251	0.111	<1	1.53	0.007	0.35	0.1	0.05	4.1	0.3	<0.05	5	0.5	<0.2
111112	Soil	24	30	0.38	234	0.088	<1	1.26	0.009	0.17	<0.1	0.07	3.8	0.2	<0.05	4	0.6	<0.2
111113	Soil	21	25	0.42	254	0.079	<1	1.36	0.011	0.13	0.2	0.06	3.7	0.1	<0.05	4	0.6	<0.2
111114	Soil	21	36	0.46	310	0.083	<1	1.46	0.012	0.10	0.2	0.04	4.0	0.1	<0.05	5	0.6	<0.2
111115	Soil	17	29	0.46	291	0.073	<1	1.63	0.014	0.08	0.2	0.04	3.6	0.1	<0.05	5	0.5	<0.2
111116	Soil	3	8	0.82	1103	0.005	<1	2.05	0.043	0.11	<0.1	0.02	9.6	0.1	<0.05	4	<0.5	<0.2
0112090	Soil	19	47	0.91	374	0.176	<1	2.26	0.015	0.54	0.1	0.02	4.7	0.4	<0.05	7	0.6	<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	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0112091	Soil		1.1	36.4	13.6	92	0.1	31.1	12.0	265	3.64	3.6	1.2	2.8	7.2	15	<0.1	0.8	0.2	76	0.22	0.046
0112092	Soil		1.7	32.3	14.4	83	0.4	32.5	13.0	368	3.42	6.5	1.3	2.0	6.0	21	<0.1	1.0	0.2	67	0.23	0.048
0112093	Soil		2.1	63.9	10.6	134	0.2	77.0	16.1	1028	4.22	3.1	1.5	3.1	6.4	28	0.1	0.9	0.2	117	0.41	0.077
0112094	Soil		1.7	61.2	11.7	127	0.3	65.0	14.4	717	3.81	4.2	2.1	4.0	5.4	30	0.3	0.6	0.1	102	0.63	0.081
0112095	Soil		0.9	19.8	7.9	66	<0.1	22.2	10.4	624	2.70	11.3	0.8	2.5	5.0	32	0.2	0.7	0.1	50	0.56	0.096
0112096	Soil		1.5	22.9	11.0	65	0.1	22.7	11.1	359	2.54	8.2	1.3	5.2	4.2	28	0.1	1.3	0.2	50	0.34	0.051
0112097	Soil		1.1	22.8	9.0	58	<0.1	21.1	7.6	279	2.39	8.3	1.1	7.8	4.5	27	0.2	1.1	0.2	47	0.34	0.054
0112098	Soil		1.0	19.6	8.9	61	0.1	17.1	8.0	251	2.52	7.5	1.0	4.7	3.8	22	0.2	1.0	0.1	44	0.25	0.056
0112099	Soil		0.9	20.3	9.0	61	0.1	17.3	7.5	226	2.39	7.5	1.1	3.5	4.4	25	<0.1	0.9	0.2	45	0.28	0.052
0112100	Soil		1.1	21.2	10.4	69	0.1	18.6	8.2	253	2.63	8.3	1.0	4.0	4.1	23	0.2	1.1	0.3	51	0.27	0.045
0112101	Soil		0.8	19.7	8.3	60	0.1	16.9	7.2	226	2.14	6.7	1.0	5.5	3.9	21	0.1	0.9	0.2	45	0.26	0.059
0112102	Soil		0.7	20.5	8.8	58	<0.1	17.7	7.2	232	2.27	6.6	1.0	3.6	4.4	23	0.1	0.9	0.2	45	0.26	0.054
0112103	Soil		1.0	18.5	8.5	58	<0.1	17.2	7.6	233	2.31	7.6	1.0	3.8	4.0	22	<0.1	1.0	0.1	45	0.26	0.055
0112104	Soil		0.7	20.4	9.2	55	0.1	16.3	5.5	148	2.28	8.4	1.1	3.1	2.7	23	0.1	1.1	0.2	47	0.27	0.055
0112105	Soil		0.7	15.9	7.8	51	<0.1	14.0	7.0	241	2.04	6.8	1.0	3.2	2.5	23	0.1	0.8	0.1	43	0.28	0.059
0112106	Soil		0.6	15.2	7.6	50	<0.1	13.9	6.4	207	1.89	6.8	0.9	8.0	2.7	22	0.1	0.7	0.1	42	0.25	0.056
0112107	Soil		0.7	16.6	8.2	51	<0.1	14.2	6.4	182	2.00	7.5	0.9	4.5	2.6	23	<0.1	0.8	0.3	42	0.27	0.053
0112108	Soil		0.4	11.9	6.1	41	<0.1	11.6	6.6	185	1.61	4.3	0.7	3.8	2.7	20	<0.1	0.6	0.1	34	0.26	0.054
0112109	Soil		0.7	20.1	9.1	65	0.1	17.9	14.0	699	2.45	7.6	1.0	3.2	2.6	27	0.2	0.9	0.2	47	0.29	0.060
0112110	Soil		1.0	24.6	10.7	75	0.1	20.7	11.3	667	2.46	7.4	1.2	2.3	4.0	26	0.2	0.8	0.2	50	0.28	0.060
0113050	Soil		1.1	37.4	11.8	65	0.1	32.5	12.8	353	3.17	7.8	1.6	5.5	6.3	27	<0.1	0.9	0.2	61	0.39	0.037
0113051	Soil		0.9	32.2	12.2	68	<0.1	27.1	11.3	323	3.04	6.9	1.6	3.9	6.7	24	<0.1	0.9	0.2	54	0.32	0.039
0113052	Soil		1.6	44.9	13.3	103	<0.1	40.7	11.9	358	4.14	2.9	1.5	2.5	7.8	11	<0.1	0.2	0.2	65	0.25	0.056
0113053	Soil		1.1	28.1	10.8	68	<0.1	25.3	8.7	270	2.90	5.3	1.2	4.4	5.1	18	<0.1	0.4	0.3	56	0.28	0.046
0113054	Soil		0.8	34.6	9.6	70	0.1	29.3	9.7	265	3.00	5.0	1.4	2.8	5.4	21	0.1	0.5	0.2	64	0.31	0.056
0113055	Soil		0.9	36.8	8.5	70	0.1	35.5	8.7	458	2.60	6.8	1.2	3.1	4.6	24	<0.1	0.7	0.1	62	0.39	0.050
0113056	Soil		0.9	88.3	7.9	72	0.1	35.1	13.8	1437	3.26	5.6	1.4	3.7	3.6	29	0.1	0.6	0.1	92	0.52	0.026
0113057	Soil		0.6	43.4	7.5	62	<0.1	25.4	10.1	281	2.62	7.2	1.0	4.4	3.6	33	<0.1	0.7	0.2	62	0.48	0.046
0113058	Soil		1.0	38.6	8.1	61	0.1	29.5	10.5	333	2.76	7.8	0.9	2.7	3.7	30	0.1	0.7	0.1	59	0.50	0.058
0113059	Soil		0.7	35.5	8.2	56	0.1	26.1	8.6	301	2.45	7.7	2.0	2.9	4.0	30	<0.1	0.6	0.1	56	0.48	0.055

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Project: Montana
 Report Date: June 28, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0112091	Soil	21	46	0.88	325	0.204	<1	2.10	0.011	0.69	<0.1	0.03	4.1	0.5	<0.05	6	<0.5	<0.2
0112092	Soil	19	39	0.66	376	0.133	<1	2.00	0.012	0.32	0.1	0.02	3.7	0.3	<0.05	6	0.7	<0.2
0112093	Soil	22	90	1.84	1056	0.223	<1	3.59	0.017	1.24	0.2	0.02	10.0	0.8	<0.05	12	0.7	<0.2
0112094	Soil	25	73	1.33	1105	0.199	<1	2.74	0.017	0.91	0.2	0.05	8.4	0.6	<0.05	9	1.1	<0.2
0112095	Soil	15	23	0.53	296	0.075	<1	1.10	0.025	0.14	0.3	0.02	2.6	0.1	<0.05	3	<0.5	<0.2
0112096	Soil	15	34	0.48	310	0.065	1	1.63	0.013	0.06	0.2	0.09	3.7	0.1	<0.05	5	<0.5	<0.2
0112097	Soil	16	33	0.48	316	0.077	<1	1.45	0.014	0.06	0.2	0.08	3.9	0.1	<0.05	4	0.6	<0.2
0112098	Soil	15	28	0.45	239	0.061	<1	1.54	0.012	0.06	0.2	0.09	3.1	0.1	<0.05	4	0.6	<0.2
0112099	Soil	15	29	0.45	270	0.066	<1	1.50	0.013	0.05	0.2	0.09	3.5	0.1	<0.05	4	<0.5	<0.2
0112100	Soil	15	32	0.44	282	0.072	<1	1.61	0.011	0.07	0.1	0.09	3.7	0.2	<0.05	5	0.6	<0.2
0112101	Soil	14	28	0.44	239	0.065	<1	1.40	0.010	0.06	0.2	0.08	2.9	<0.1	0.11	4	<0.5	<0.2
0112102	Soil	14	29	0.45	238	0.078	1	1.48	0.012	0.10	0.2	0.07	2.7	0.1	0.07	4	<0.5	<0.2
0112103	Soil	14	28	0.45	273	0.075	<1	1.40	0.011	0.07	0.2	0.07	2.9	0.1	0.09	4	<0.5	<0.2
0112104	Soil	13	25	0.40	263	0.051	<1	1.44	0.011	0.04	0.2	0.10	2.6	<0.1	0.09	4	<0.5	<0.2
0112105	Soil	14	22	0.37	224	0.048	1	1.20	0.009	0.05	0.2	0.06	2.5	<0.1	0.07	4	<0.5	<0.2
0112106	Soil	13	22	0.35	197	0.054	<1	1.15	0.010	0.05	0.3	0.05	2.3	<0.1	0.09	4	<0.5	<0.2
0112107	Soil	12	22	0.37	214	0.051	<1	1.25	0.010	0.05	0.2	0.06	2.3	<0.1	0.06	4	0.6	<0.2
0112108	Soil	13	17	0.33	185	0.051	1	1.01	0.010	0.04	0.2	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
0112109	Soil	13	29	0.46	259	0.056	<1	1.57	0.012	0.08	0.2	0.07	3.1	0.1	<0.05	5	0.7	<0.2
0112110	Soil	15	29	0.43	262	0.077	<1	1.42	0.009	0.16	0.2	0.05	3.0	0.2	<0.05	4	0.6	<0.2
0113050	Soil	19	47	0.72	438	0.138	<1	2.26	0.016	0.33	0.1	0.05	5.1	0.3	<0.05	7	<0.5	<0.2
0113051	Soil	19	40	0.57	365	0.137	<1	1.88	0.014	0.34	0.1	0.05	4.5	0.3	<0.05	6	0.6	<0.2
0113052	Soil	22	57	1.76	312	0.242	<1	3.07	0.021	1.53	0.2	<0.01	5.1	0.6	<0.05	10	<0.5	<0.2
0113053	Soil	16	49	1.09	274	0.148	<1	2.24	0.018	0.58	0.2	<0.01	4.9	0.3	<0.05	7	0.7	<0.2
0113054	Soil	18	53	0.91	346	0.152	<1	2.23	0.012	0.48	0.2	0.03	4.7	0.3	<0.05	7	0.7	<0.2
0113055	Soil	17	63	1.04	416	0.101	<1	1.99	0.013	0.26	0.2	0.03	5.4	0.2	<0.05	6	0.8	<0.2
0113056	Soil	11	57	1.12	504	0.110	<1	2.73	0.023	0.29	0.1	0.04	9.6	0.2	<0.05	7	0.6	<0.2
0113057	Soil	13	40	0.89	433	0.086	<1	1.89	0.027	0.08	0.1	0.03	5.0	<0.1	<0.05	5	0.5	<0.2
0113058	Soil	13	39	0.73	356	0.083	2	1.84	0.025	0.10	0.2	0.04	5.1	<0.1	0.07	5	<0.5	<0.2
0113059	Soil	16	35	0.63	344	0.078	1	1.81	0.018	0.07	0.2	0.05	4.8	<0.1	<0.05	5	1.0	<0.2

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Project: Montana
 Report Date: June 28, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
0114030	Soil	0.9	6.9	13.5	49	<0.1	13.7	5.5	319	1.88	7.1	1.8	<0.5	9.3	17	<0.1	0.6	0.2	41	0.21	0.021
0114031	Soil	1.0	11.3	23.6	97	<0.1	15.4	7.9	514	3.44	22.6	9.2	0.6	34.2	16	0.2	1.1	1.0	46	0.16	0.067
0114032	Soil	1.1	15.2	13.4	58	0.1	22.0	7.3	249	2.61	12.8	1.6	2.1	9.9	18	0.1	0.7	0.3	52	0.14	0.024
0114033	Soil	0.9	24.1	14.8	64	0.1	19.1	6.8	299	2.68	12.9	6.8	5.2	19.2	25	0.1	0.8	0.5	44	0.30	0.039
0114034	Soil	1.1	15.7	13.5	59	<0.1	20.4	7.2	243	2.57	10.8	2.1	1.2	11.1	19	<0.1	0.8	0.5	53	0.19	0.019
0114035	Soil	1.2	27.0	16.0	65	<0.1	18.7	7.7	260	1.87	7.8	2.7	6.1	17.0	24	<0.1	0.6	0.4	41	0.24	0.019
0114036	Soil	1.1	29.1	20.6	70	0.1	18.0	7.4	189	1.66	4.5	3.3	6.8	20.3	21	0.1	0.5	0.4	32	0.21	0.020
0114037	Soil	1.1	26.3	14.8	67	<0.1	19.6	8.6	267	1.90	8.0	2.0	3.5	14.2	21	0.1	0.6	0.3	40	0.23	0.028
0114038	Soil	1.3	25.7	13.5	57	<0.1	19.1	7.4	218	2.20	7.1	2.6	4.5	12.3	20	<0.1	0.6	0.3	46	0.20	0.021
0114039	Soil	0.8	14.7	9.9	48	<0.1	14.1	5.3	148	1.60	5.7	1.4	2.1	7.0	14	<0.1	0.4	0.2	34	0.14	0.019
0114040	Soil	0.7	23.2	13.7	40	<0.1	16.2	3.8	134	1.40	4.3	3.9	2.9	13.9	19	<0.1	0.4	0.3	33	0.21	0.028
0114041	Soil	0.9	20.6	12.4	40	<0.1	14.6	4.7	152	1.53	4.4	3.2	4.5	11.8	23	0.1	0.4	0.3	34	0.25	0.027
0114042	Soil	4.4	54.7	6.3	72	<0.1	34.7	17.0	493	2.76	13.7	2.4	2.4	8.7	13	<0.1	0.6	0.3	46	0.05	0.025
0114043	Soil	1.1	38.4	9.7	65	0.1	33.4	12.7	454	3.20	11.0	1.5	4.7	6.1	16	0.1	0.8	0.2	64	0.10	0.017
0114044	Soil	0.9	59.0	6.0	57	<0.1	41.8	11.5	425	3.24	5.5	1.9	1.4	7.2	19	<0.1	0.4	0.3	52	0.05	0.020
0114045	Soil	0.9	70.9	7.2	53	<0.1	45.4	14.4	292	3.51	4.4	1.7	1.2	7.5	7	<0.1	0.3	0.3	54	0.04	0.017
0114046	Soil	0.8	73.0	4.9	53	<0.1	42.5	12.4	345	3.14	2.7	2.0	2.4	6.4	10	<0.1	0.3	0.2	50	0.05	0.024
0114047	Soil	0.6	43.8	11.0	78	<0.1	37.7	14.3	376	3.77	1.9	1.4	1.0	11.1	10	<0.1	0.2	0.2	45	0.08	0.015
0114048	Soil	0.3	45.2	4.9	78	<0.1	47.3	14.1	274	3.36	0.9	1.2	3.4	7.4	8	0.2	0.2	0.1	51	0.04	0.020
0114049	Soil	0.9	58.5	7.3	67	0.1	38.1	12.0	394	3.12	5.8	1.2	4.9	6.0	13	<0.1	0.5	0.2	55	0.13	0.025
0114050	Soil	0.8	55.5	6.1	62	<0.1	36.7	11.4	360	2.89	4.4	1.3	8.5	6.0	13	<0.1	0.4	0.2	47	0.13	0.026
0114051	Soil	0.8	59.6	6.1	72	0.3	39.8	15.3	897	2.94	3.3	1.4	3.2	5.1	18	0.2	0.3	0.2	41	0.11	0.025
0115017	Soil	1.1	95.1	2.7	81	<0.1	32.8	21.7	246	5.02	3.0	1.6	2.2	15.4	15	<0.1	0.2	0.2	89	0.35	0.059
0115018	Soil	0.4	32.7	1.5	93	<0.1	19.4	22.8	490	5.65	0.8	1.1	<0.5	3.3	27	<0.1	0.2	<0.1	102	0.66	0.033
0115019	Soil	0.7	30.1	6.1	73	0.1	30.0	17.1	615	5.02	1.4	1.5	2.2	4.1	46	0.1	0.2	0.1	108	0.70	0.048
0115020	Soil	1.1	26.1	12.6	55	0.1	20.4	8.8	345	2.44	7.1	1.7	15.2	5.6	59	<0.1	0.4	0.2	44	0.55	0.046
0115021	Soil	1.1	14.7	14.6	50	<0.1	10.7	4.2	164	1.31	3.6	3.1	9.1	6.8	70	<0.1	0.3	0.2	21	0.48	0.028
0113060	Soil	0.9	38.4	8.7	62	0.1	29.7	10.1	286	2.51	7.5	1.1	12.6	4.2	23	<0.1	0.5	0.1	56	0.44	0.053
0113061	Soil	0.7	38.5	8.7	59	0.1	28.3	11.8	384	2.56	7.7	1.4	3.1	3.7	25	0.1	0.8	0.1	56	0.47	0.050
0113062	Soil	0.7	31.9	8.4	58	<0.1	21.6	9.5	254	2.40	7.4	1.3	3.4	4.3	24	<0.1	0.7	0.1	53	0.41	0.054

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0114030	Soil	21	20	0.30	229	0.040	1	1.33	0.007	0.06	0.1	0.01	1.9	0.1	<0.05	5	<0.5	<0.2
0114031	Soil	96	27	0.54	231	0.076	1	2.06	0.008	0.37	0.2	<0.01	4.7	0.7	<0.05	9	0.7	<0.2
0114032	Soil	20	29	0.43	221	0.050	<1	1.86	0.007	0.10	0.2	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
0114033	Soil	42	27	0.49	190	0.070	1	1.67	0.019	0.11	0.1	0.06	4.7	0.2	<0.05	6	<0.5	<0.2
0114034	Soil	20	28	0.50	258	0.056	<1	1.78	0.010	0.06	0.1	0.02	2.8	0.2	<0.05	5	0.7	<0.2
0114035	Soil	32	24	0.33	193	0.033	2	1.31	0.007	0.17	<0.1	0.06	5.6	0.4	<0.05	6	<0.5	<0.2
0114036	Soil	30	20	0.24	161	0.026	2	1.01	0.004	0.22	<0.1	0.08	5.8	0.5	<0.05	6	<0.5	<0.2
0114037	Soil	26	23	0.29	194	0.042	1	1.01	0.008	0.13	<0.1	0.04	4.8	0.3	<0.05	6	0.6	<0.2
0114038	Soil	23	27	0.33	203	0.042	<1	1.21	0.007	0.10	<0.1	0.04	5.4	0.3	<0.05	6	0.8	<0.2
0114039	Soil	17	19	0.26	140	0.041	<1	0.94	0.005	0.07	<0.1	0.01	3.1	0.2	<0.05	4	<0.5	<0.2
0114040	Soil	24	19	0.21	186	0.036	<1	0.75	0.005	0.08	<0.1	0.04	4.6	0.3	<0.05	4	0.6	<0.2
0114041	Soil	24	21	0.26	217	0.033	2	0.98	0.007	0.07	<0.1	0.03	4.6	0.3	<0.05	5	0.5	<0.2
0114042	Soil	25	31	0.21	198	0.023	1	1.27	0.005	0.07	0.1	0.02	3.8	0.4	<0.05	4	<0.5	<0.2
0114043	Soil	18	38	0.48	272	0.067	<1	2.00	0.010	0.08	0.2	0.04	5.5	0.1	<0.05	5	0.6	<0.2
0114044	Soil	14	39	0.35	253	0.063	<1	1.33	0.005	0.19	<0.1	<0.01	5.0	0.2	<0.05	6	<0.5	<0.2
0114045	Soil	13	41	0.37	211	0.066	<1	1.53	0.004	0.17	<0.1	0.02	4.3	0.2	<0.05	6	<0.5	<0.2
0114046	Soil	17	34	0.24	233	0.054	1	1.16	0.005	0.14	<0.1	0.01	4.2	0.2	<0.05	4	<0.5	<0.2
0114047	Soil	27	40	0.72	258	0.148	<1	2.00	0.005	0.54	<0.1	0.03	5.3	0.5	<0.05	8	<0.5	<0.2
0114048	Soil	13	42	0.48	228	0.103	<1	1.32	0.007	0.55	0.1	0.05	4.8	0.6	<0.05	6	<0.5	<0.2
0114049	Soil	14	37	0.43	225	0.067	<1	1.33	0.008	0.19	0.2	0.05	4.7	0.2	<0.05	5	<0.5	<0.2
0114050	Soil	13	30	0.29	261	0.041	<1	1.15	0.005	0.13	0.1	0.01	3.2	0.2	<0.05	4	0.5	<0.2
0114051	Soil	13	29	0.23	308	0.037	1	1.00	0.006	0.19	0.1	0.07	3.6	0.2	<0.05	4	0.6	<0.2
0115017	Soil	10	89	1.14	330	0.140	<1	2.48	0.021	0.18	<0.1	0.03	6.5	0.1	<0.05	11	<0.5	0.3
0115018	Soil	14	11	2.19	244	0.125	<1	3.35	0.012	0.55	<0.1	0.02	14.0	0.3	<0.05	11	0.8	<0.2
0115019	Soil	12	53	1.34	267	0.018	1	2.68	0.009	0.20	<0.1	0.05	11.4	<0.1	<0.05	9	0.7	<0.2
0115020	Soil	19	28	0.45	433	0.023	1	1.80	0.014	0.08	<0.1	0.03	4.4	0.1	<0.05	5	<0.5	<0.2
0115021	Soil	23	14	0.31	497	0.013	1	1.27	0.013	0.11	<0.1	0.02	2.1	0.2	<0.05	3	0.6	<0.2
0113060	Soil	14	44	0.61	302	0.071	<1	1.64	0.018	0.10	0.2	0.04	4.8	0.1	<0.05	5	<0.5	<0.2
0113061	Soil	14	43	0.56	339	0.062	<1	1.63	0.018	0.07	0.2	0.06	5.0	<0.1	<0.05	5	0.9	<0.2
0113062	Soil	14	38	0.51	275	0.060	<1	1.54	0.017	0.05	0.2	0.08	4.4	<0.1	<0.05	4	<0.5	<0.2

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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

WHI11000231.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
0113063	Soil	0.8	26.8	8.4	52	<0.1	20.4	9.3	288	2.22	6.8	1.1	1.6	2.9	29	0.1	0.6	0.1	47	0.45	0.061
0113064	Soil	0.6	26.6	8.7	52	<0.1	18.8	7.8	176	2.09	6.5	1.1	4.8	3.2	22	0.2	0.6	0.1	49	0.37	0.050
0113065	Soil	0.7	26.7	8.9	51	<0.1	20.3	8.4	211	2.27	7.6	1.1	<0.5	3.5	25	<0.1	0.5	0.1	51	0.41	0.053
0113066	Soil	0.8	13.5	8.9	48	<0.1	15.2	6.3	118	2.10	7.3	0.6	1.6	3.2	19	<0.1	0.4	0.1	46	0.29	0.045
0113067	Soil	0.8	17.6	8.5	50	<0.1	17.3	7.1	144	2.09	6.6	0.7	3.4	3.1	22	0.1	0.4	0.1	43	0.33	0.054
0113068	Soil	1.4	28.0	9.8	68	0.2	24.5	12.3	388	2.66	7.3	1.9	7.3	4.5	22	0.3	0.7	0.2	57	0.33	0.067
0113069	Soil	0.9	36.0	9.3	68	0.2	31.7	10.4	433	2.49	8.9	1.8	3.1	4.1	26	0.3	0.7	0.2	47	0.43	0.068
0113070	Soil	0.8	20.2	7.8	69	<0.1	23.5	10.9	513	2.45	6.3	1.0	7.2	4.3	23	0.2	0.5	<0.1	42	0.47	0.071
0114001	Soil	1.3	27.6	7.5	37	<0.1	20.1	8.3	127	2.58	8.2	1.7	6.9	11.9	9	<0.1	0.4	0.1	52	0.04	0.030
0114002	Soil	2.3	56.4	11.6	42	0.1	19.6	10.4	224	2.56	3.5	2.4	3.2	8.7	12	<0.1	0.8	0.2	49	0.05	0.046
0114003	Soil	1.0	46.7	10.3	76	<0.1	34.6	12.7	280	3.10	5.3	2.0	4.8	7.8	11	0.1	0.7	0.2	65	0.10	0.033
0114004	Soil	1.0	55.3	8.5	70	<0.1	30.6	10.2	450	3.85	0.7	2.2	5.8	14.4	8	<0.1	0.2	0.2	72	0.07	0.030
0114005	Soil	4.0	80.8	10.0	35	<0.1	17.3	8.0	118	2.30	3.2	2.2	2.1	7.8	14	<0.1	0.6	0.3	48	0.04	0.034
0114006	Soil	1.4	34.4	10.5	51	<0.1	18.7	7.7	215	2.39	4.0	1.2	3.3	5.9	13	<0.1	0.6	0.2	53	0.12	0.027
0114007	Soil	1.1	35.2	9.7	59	0.1	22.2	8.3	260	2.49	7.0	1.2	2.7	5.4	18	0.1	0.7	0.2	51	0.22	0.044
0114008	Soil	1.7	32.4	11.6	37	0.1	14.8	6.4	165	1.61	13.4	1.1	3.5	6.2	15	<0.1	2.0	0.2	43	0.15	0.033
0114009	Soil	0.9	25.0	9.1	47	<0.1	16.6	6.1	165	2.03	6.3	1.1	4.1	5.1	17	<0.1	0.8	0.1	45	0.20	0.036
0114010	Soil	0.9	24.9	9.9	52	<0.1	17.9	8.3	242	2.18	6.6	1.1	5.4	4.5	17	<0.1	0.7	0.1	46	0.22	0.043
0114011	Soil	1.2	29.8	10.4	62	0.2	23.2	8.9	318	2.19	6.8	1.4	4.6	4.2	22	0.2	0.8	0.2	45	0.32	0.051
0114012	Soil	1.0	29.3	10.7	59	0.1	22.9	8.9	279	2.22	7.3	1.4	2.8	4.5	20	0.1	1.0	0.2	44	0.30	0.048
0114013	Soil	1.3	23.6	11.2	70	0.2	18.0	10.7	428	2.98	10.9	1.0	3.3	3.2	21	0.2	1.3	0.3	56	0.22	0.066
0114014	Soil	0.9	29.1	8.2	52	0.1	13.9	6.1	175	2.13	6.7	1.0	6.7	4.4	15	<0.1	2.1	0.2	45	0.13	0.036
0114015	Soil	0.7	26.9	7.9	49	0.1	13.1	6.0	171	2.08	6.7	0.9	3.6	4.2	14	<0.1	2.0	0.2	43	0.12	0.033
0114016	Soil	1.1	30.3	11.3	74	0.2	20.4	8.6	268	2.95	11.1	1.2	4.1	4.2	24	0.2	1.4	0.2	57	0.27	0.058
0114017	Soil	0.8	29.9	9.2	63	0.1	18.1	7.6	261	2.40	7.1	1.2	14.2	4.3	22	0.1	1.6	0.2	47	0.25	0.045
0114018	Soil	0.9	23.8	8.5	61	0.1	17.1	7.0	246	2.41	7.8	1.1	2.8	4.1	21	0.1	1.5	0.2	46	0.24	0.048
0114019	Soil	1.0	25.0	8.6	57	<0.1	17.1	7.0	241	2.36	8.1	1.2	3.5	3.9	25	<0.1	1.7	0.2	46	0.27	0.046
0114020	Soil	1.0	26.8	9.4	67	0.1	20.8	10.3	414	2.58	8.9	1.2	4.0	3.1	32	0.2	1.3	0.2	50	0.37	0.056
0114021	Soil	0.8	28.8	8.6	60	0.1	20.8	7.5	250	2.39	8.2	1.1	3.5	4.1	28	0.1	1.0	0.2	47	0.34	0.051
0114022	Soil	1.0	25.9	9.3	60	0.2	18.3	7.0	179	2.60	9.1	1.2	5.5	3.2	23	0.1	1.3	0.2	50	0.26	0.057

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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

WHI11000231.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
0113063	Soil	13	31	0.43	297	0.050	<1	1.40	0.013	0.05	0.2	0.07	3.4	<0.1	<0.05	4	0.8	<0.2
0113064	Soil	12	30	0.42	239	0.051	<1	1.37	0.012	0.04	0.2	0.06	3.4	<0.1	<0.05	4	<0.5	<0.2
0113065	Soil	13	32	0.45	277	0.055	<1	1.50	0.012	0.05	0.2	0.06	3.5	0.1	<0.05	5	<0.5	<0.2
0113066	Soil	13	26	0.38	204	0.058	<1	1.44	0.010	0.07	0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
0113067	Soil	13	26	0.40	226	0.054	<1	1.42	0.011	0.05	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
0113068	Soil	18	29	0.41	376	0.056	<1	1.36	0.011	0.11	<0.1	0.08	4.8	0.1	<0.05	5	1.1	<0.2
0113069	Soil	14	28	0.46	376	0.059	<1	1.37	0.016	0.06	0.2	0.07	3.4	<0.1	<0.05	4	0.7	<0.2
0113070	Soil	14	25	0.46	266	0.068	<1	1.10	0.015	0.13	0.3	0.04	2.9	0.1	<0.05	4	0.9	<0.2
0114001	Soil	30	27	0.21	181	0.035	<1	1.14	0.004	0.11	0.1	0.05	3.8	0.3	<0.05	4	0.5	<0.2
0114002	Soil	21	47	0.24	268	0.060	<1	0.93	0.005	0.20	<0.1	0.06	6.6	0.3	<0.05	3	1.2	<0.2
0114003	Soil	22	38	0.47	269	0.110	<1	1.52	0.013	0.29	<0.1	0.04	5.9	0.3	<0.05	5	1.2	<0.2
0114004	Soil	28	37	0.67	408	0.210	<1	2.09	0.009	0.98	<0.1	0.02	6.0	0.6	<0.05	8	1.4	<0.2
0114005	Soil	17	31	0.26	249	0.057	<1	1.05	0.004	0.18	<0.1	0.03	4.3	0.2	<0.05	4	1.5	<0.2
0114006	Soil	15	37	0.36	243	0.082	<1	1.34	0.007	0.14	<0.1	0.03	3.6	0.3	<0.05	5	<0.5	<0.2
0114007	Soil	16	32	0.39	322	0.070	<1	1.37	0.009	0.08	0.1	0.04	4.2	0.2	<0.05	4	<0.5	<0.2
0114008	Soil	14	22	0.19	231	0.034	<1	0.81	0.006	0.05	<0.1	0.11	3.9	0.1	<0.05	3	1.1	<0.2
0114009	Soil	15	26	0.31	241	0.065	<1	1.18	0.009	0.05	0.1	0.05	3.3	<0.1	<0.05	4	0.6	<0.2
0114010	Soil	15	28	0.35	255	0.057	<1	1.38	0.010	0.04	0.1	0.09	3.1	0.1	<0.05	4	0.7	<0.2
0114011	Soil	15	28	0.36	334	0.061	<1	1.36	0.012	0.05	0.1	0.12	3.4	0.1	<0.05	4	0.9	<0.2
0114012	Soil	14	28	0.35	325	0.056	<1	1.32	0.011	0.04	0.1	0.13	3.4	0.1	<0.05	4	0.8	<0.2
0114013	Soil	12	26	0.41	284	0.058	2	1.67	0.009	0.05	0.2	0.10	2.6	0.1	0.06	6	<0.5	<0.2
0114014	Soil	13	24	0.27	208	0.059	<1	1.02	0.007	0.06	0.1	0.13	4.1	0.2	<0.05	4	<0.5	<0.2
0114015	Soil	12	22	0.25	188	0.058	1	0.96	0.010	0.06	0.1	0.13	3.9	0.2	<0.05	3	<0.5	<0.2
0114016	Soil	13	31	0.43	305	0.065	<1	1.75	0.009	0.05	0.2	0.13	3.5	0.1	<0.05	6	<0.5	<0.2
0114017	Soil	14	27	0.37	281	0.069	<1	1.33	0.011	0.07	0.2	0.13	3.8	0.2	<0.05	5	<0.5	<0.2
0114018	Soil	13	26	0.38	251	0.063	<1	1.33	0.008	0.06	0.2	0.13	3.3	0.2	<0.05	4	<0.5	<0.2
0114019	Soil	14	27	0.39	298	0.065	<1	1.30	0.011	0.05	0.2	0.14	3.6	0.1	<0.05	4	<0.5	<0.2
0114020	Soil	14	28	0.44	339	0.057	1	1.52	0.011	0.05	0.2	0.10	3.2	<0.1	<0.05	5	0.7	<0.2
0114021	Soil	14	28	0.42	333	0.062	<1	1.44	0.011	0.05	0.2	0.09	3.4	<0.1	<0.05	5	<0.5	<0.2
0114022	Soil	14	29	0.40	279	0.059	<1	1.53	0.009	0.06	0.2	0.09	3.3	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
0114023	Soil	1.2	43.1	10.6	77	0.1	30.6	11.3	341	3.43	9.2	1.2	6.5	6.1	29	0.1	1.0	0.2	69	0.41	0.054
0114024	Soil	1.3	33.5	9.3	58	0.1	24.6	10.6	338	2.88	8.8	1.2	3.6	4.5	28	<0.1	1.3	0.2	61	0.37	0.042
0114025	Soil	1.3	36.8	10.1	65	0.2	27.4	13.0	581	3.14	9.4	1.3	4.1	4.5	34	0.2	1.3	0.2	61	0.44	0.048
0114026	Soil	1.1	37.2	9.5	63	<0.1	26.6	11.8	306	3.14	8.5	1.0	4.1	5.1	26	<0.1	1.2	0.2	65	0.35	0.029
0114027	Soil	1.2	28.2	17.6	58	<0.1	22.9	7.6	211	2.89	18.2	3.8	4.7	20.9	17	<0.1	1.5	0.3	53	0.16	0.018
0114028	Soil	1.1	24.9	11.6	57	<0.1	26.5	8.5	250	2.90	13.4	1.2	7.9	7.5	25	<0.1	1.0	0.2	60	0.26	0.026
0114029	Soil	1.1	10.8	21.4	57	<0.1	14.4	5.7	242	2.57	14.3	5.2	1.1	21.2	14	<0.1	1.3	0.4	38	0.14	0.025
109032	Soil	0.6	14.0	3.7	44	<0.1	8.7	10.3	270	3.69	4.7	0.6	2.3	3.9	15	<0.1	0.4	<0.1	70	0.29	0.050
109033	Soil	0.7	39.1	5.2	63	<0.1	16.8	16.1	343	4.29	5.7	0.5	2.6	3.6	43	<0.1	0.5	<0.1	108	0.54	0.052
109034	Soil	0.7	34.2	6.2	53	<0.1	15.6	10.9	281	2.68	5.4	0.7	1.4	3.3	29	<0.1	0.5	<0.1	64	0.44	0.037
109035	Soil	0.6	26.4	3.2	92	<0.1	9.4	12.9	698	4.93	3.9	0.4	0.8	2.0	24	<0.1	0.3	0.1	79	0.42	0.072
109036	Soil	0.4	57.3	2.9	40	<0.1	12.0	10.8	252	2.64	4.0	0.7	1.8	2.6	30	<0.1	0.3	<0.1	65	0.48	0.044
109037	Soil	0.4	46.7	2.2	50	<0.1	6.6	12.4	293	3.22	2.5	0.4	2.1	2.4	16	<0.1	0.2	<0.1	95	0.48	0.047
109038	Soil	1.0	21.1	8.4	53	<0.1	17.7	10.1	287	3.43	7.4	0.8	3.4	5.5	20	0.1	0.6	0.1	77	0.25	0.019
109039	Soil	0.8	16.3	5.4	40	<0.1	13.1	9.3	244	2.68	5.4	0.4	1.2	2.5	12	<0.1	0.3	<0.1	69	0.25	0.016
109040	Soil	0.8	19.4	2.7	86	<0.1	16.7	16.4	663	5.37	2.6	0.7	2.9	6.0	18	<0.1	0.3	<0.1	98	0.28	0.038
109041	Soil	0.5	13.4	1.5	65	<0.1	4.2	15.4	665	4.97	1.8	0.2	0.5	1.3	8	<0.1	0.1	<0.1	52	0.26	0.090
109042	Soil	0.3	23.2	0.6	63	<0.1	14.1	14.7	544	3.63	0.6	0.3	2.5	1.4	15	<0.1	<0.1	<0.1	95	0.52	0.068
109043	Soil	0.4	35.5	3.4	50	<0.1	30.3	12.9	292	2.86	4.4	0.4	2.1	3.5	12	<0.1	0.3	<0.1	56	0.32	0.071
109044	Soil	0.4	17.8	0.7	30	<0.1	8.7	13.7	301	2.85	<0.5	0.3	0.7	1.2	13	<0.1	0.2	<0.1	76	0.47	0.085
109045	Soil	0.6	24.5	7.0	54	<0.1	19.6	10.1	304	2.82	7.3	0.6	2.9	4.0	24	<0.1	0.5	0.1	58	0.36	0.060
109046	Soil	0.9	23.7	7.9	65	<0.1	20.0	8.8	304	2.76	7.6	0.7	3.6	4.5	21	0.1	0.7	0.1	54	0.25	0.033
109047	Soil	1.0	23.3	6.5	62	<0.1	15.2	10.6	339	3.82	6.3	0.8	2.2	3.9	15	<0.1	0.5	<0.1	75	0.19	0.025
109048	Soil	1.0	23.3	5.6	53	<0.1	11.5	9.5	257	3.16	4.6	0.6	1.2	3.6	17	<0.1	0.3	<0.1	76	0.18	0.019
109049	Soil	0.6	18.5	2.1	105	<0.1	3.5	9.6	750	4.21	0.9	1.4	0.8	7.0	12	<0.1	0.1	<0.1	51	0.22	0.050
109050	Soil	1.0	17.8	8.3	60	<0.1	13.0	9.0	357	3.39	7.1	0.6	3.8	3.8	15	<0.1	0.3	0.1	57	0.21	0.027
109051	Soil	0.7	40.0	7.6	73	<0.1	15.8	14.0	424	3.94	5.8	1.6	4.4	5.2	23	<0.1	0.5	0.1	79	0.35	0.035
109052	Soil	0.8	40.0	2.7	92	<0.1	7.6	18.8	696	4.81	1.6	0.9	0.9	3.9	34	<0.1	0.2	<0.1	57	0.47	0.104
109053	Soil	1.0	16.9	8.4	59	<0.1	15.5	11.2	354	3.40	8.7	0.7	2.6	3.3	15	<0.1	0.4	0.1	67	0.18	0.031
109054	Soil	0.6	26.3	4.5	48	<0.1	14.7	13.3	329	3.27	5.0	0.5	2.1	2.8	44	<0.1	0.3	<0.1	85	0.40	0.027

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0114023	Soil	20	52	0.87	450	0.130	<1	2.12	0.013	0.48	0.1	0.07	5.9	0.3	<0.05	8	<0.5	<0.2
0114024	Soil	15	41	0.63	388	0.098	<1	1.85	0.011	0.17	0.2	0.10	4.7	0.1	<0.05	6	0.6	<0.2
0114025	Soil	17	44	0.65	447	0.087	<1	1.88	0.012	0.18	0.1	0.13	5.0	0.2	<0.05	6	0.7	<0.2
0114026	Soil	17	56	0.72	440	0.134	<1	1.76	0.009	0.27	0.1	0.08	5.2	0.3	<0.05	7	<0.5	<0.2
0114027	Soil	37	35	0.46	217	0.056	<1	1.76	0.008	0.07	0.1	0.03	4.2	0.1	<0.05	6	0.7	<0.2
0114028	Soil	14	36	0.53	291	0.076	1	1.75	0.012	0.07	0.2	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
0114029	Soil	57	22	0.31	206	0.030	<1	1.40	0.010	0.09	0.1	<0.01	2.4	0.2	<0.05	6	0.5	<0.2
109032	Soil	11	18	0.66	158	0.158	<1	1.76	0.018	0.38	<0.1	0.01	5.5	0.2	<0.05	8	<0.5	<0.2
109033	Soil	14	30	0.78	338	0.131	<1	2.40	0.026	0.15	<0.1	0.04	9.7	<0.1	<0.05	9	<0.5	<0.2
109034	Soil	12	24	0.54	251	0.116	<1	1.65	0.027	0.13	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
109035	Soil	9	16	0.93	410	0.219	<1	2.57	0.018	0.93	<0.1	0.01	6.0	0.2	<0.05	11	<0.5	<0.2
109036	Soil	13	18	0.62	334	0.104	<1	1.86	0.030	0.11	<0.1	0.03	6.4	<0.1	<0.05	6	0.6	<0.2
109037	Soil	7	11	0.85	291	0.162	<1	1.83	0.031	0.35	<0.1	0.01	5.7	0.1	<0.05	7	<0.5	<0.2
109038	Soil	25	33	0.56	331	0.084	<1	2.08	0.015	0.09	<0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2
109039	Soil	8	23	0.59	214	0.098	1	1.75	0.020	0.13	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
109040	Soil	29	30	1.32	442	0.197	<1	2.43	0.010	0.69	<0.1	0.01	12.8	0.3	<0.05	14	0.6	<0.2
109041	Soil	6	6	1.21	457	0.325	<1	2.45	0.009	1.30	<0.1	<0.01	7.5	0.3	<0.05	10	<0.5	<0.2
109042	Soil	19	37	0.98	404	0.203	<1	1.77	0.031	0.56	<0.1	<0.01	7.3	0.2	<0.05	7	<0.5	<0.2
109043	Soil	11	59	0.83	290	0.100	<1	1.70	0.022	0.23	<0.1	<0.01	4.5	0.1	<0.05	7	<0.5	<0.2
109044	Soil	6	14	0.49	132	0.032	<1	1.24	0.027	0.02	<0.1	<0.01	5.9	<0.1	0.08	5	0.6	<0.2
109045	Soil	13	30	0.57	277	0.080	<1	1.54	0.017	0.09	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
109046	Soil	18	25	0.50	315	0.102	<1	1.54	0.014	0.08	0.2	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
109047	Soil	15	24	0.76	240	0.170	<1	2.26	0.015	0.35	<0.1	0.02	6.8	0.1	<0.05	8	<0.5	<0.2
109048	Soil	37	21	0.67	358	0.139	<1	1.84	0.013	0.22	<0.1	<0.01	4.5	0.1	<0.05	8	<0.5	<0.2
109049	Soil	32	5	0.67	314	0.297	<1	1.98	0.008	1.00	0.2	0.02	15.4	0.3	<0.05	11	0.8	<0.2
109050	Soil	8	23	0.64	221	0.113	<1	1.94	0.012	0.28	0.2	0.03	5.1	0.1	<0.05	7	0.6	<0.2
109051	Soil	25	22	0.67	357	0.081	<1	2.06	0.023	0.08	<0.1	0.02	7.2	<0.1	<0.05	8	1.0	<0.2
109052	Soil	17	9	0.93	378	0.103	<1	2.45	0.009	0.41	<0.1	0.01	7.8	0.2	<0.05	8	0.7	<0.2
109053	Soil	10	29	0.55	328	0.060	<1	2.06	0.013	0.08	0.1	0.02	3.8	<0.1	0.08	6	<0.5	<0.2
109054	Soil	10	25	0.75	378	0.063	1	2.06	0.026	0.08	<0.1	0.01	5.3	<0.1	<0.05	6	0.5	<0.2

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Project: Montana
 Report Date: June 28, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
109055	Soil	0.4	11.4	2.5	92	<0.1	3.9	11.5	563	4.31	1.5	0.8	<0.5	5.8	20	<0.1	0.1	<0.1	54	0.29	0.054
109056	Soil	0.7	105.6	3.0	50	<0.1	15.3	15.5	453	3.62	4.0	0.4	2.1	0.8	9	<0.1	0.3	<0.1	112	0.28	0.072
109057	Soil	1.1	10.8	5.7	91	<0.1	7.8	13.3	718	4.73	5.2	0.5	<0.5	2.1	15	0.1	0.3	<0.1	87	0.19	0.049
109058	Soil	0.9	11.7	8.7	91	<0.1	10.1	8.8	547	3.62	6.6	0.4	0.6	3.2	12	<0.1	0.3	<0.1	52	0.17	0.032
109059	Soil	0.7	39.5	8.5	66	0.1	29.2	10.9	463	3.36	11.0	1.4	3.9	4.9	30	<0.1	0.7	0.2	61	0.43	0.058
109060	Soil	0.6	27.6	8.1	47	<0.1	18.4	8.4	257	2.36	7.3	1.0	2.9	3.5	24	<0.1	0.5	0.1	52	0.31	0.043
109061	Soil	1.3	13.8	8.5	59	<0.1	12.1	17.7	983	3.13	7.6	0.5	2.3	3.0	14	<0.1	0.4	0.1	58	0.19	0.036
109062	Soil	1.7	33.6	7.0	76	<0.1	22.9	16.0	1004	4.41	6.6	0.7	1.9	3.2	21	<0.1	0.5	0.1	92	0.35	0.032
109063	Soil	1.5	25.3	12.2	69	<0.1	24.9	12.2	493	3.90	9.9	0.8	2.4	6.4	23	<0.1	0.7	0.2	67	0.31	0.033
109064	Soil	1.7	19.0	9.5	66	0.1	17.2	11.7	957	3.12	7.7	0.9	5.2	4.1	23	<0.1	0.5	0.2	58	0.31	0.052
109065	Soil	1.4	19.8	9.3	64	0.1	14.3	8.6	505	2.90	5.7	0.9	2.0	3.8	22	0.2	0.4	0.2	54	0.29	0.036
109066	Soil	1.0	11.1	6.6	45	<0.1	12.3	7.1	264	2.59	6.1	0.5	1.6	2.7	18	<0.1	0.4	0.1	58	0.25	0.022
109067	Soil	1.1	14.8	7.1	77	0.1	12.1	9.1	507	3.62	4.3	0.9	<0.5	4.4	24	<0.1	0.4	<0.1	53	0.36	0.052
109068	Soil	1.0	22.5	7.8	55	<0.1	18.9	10.5	312	3.22	7.7	0.6	3.7	3.8	21	<0.1	0.4	0.1	59	0.33	0.041
109069	Soil	1.1	38.8	7.6	50	<0.1	14.5	12.5	296	3.48	7.2	0.3	2.0	2.4	28	<0.1	0.4	0.1	84	0.28	0.026
109070	Soil	0.7	10.8	3.6	105	<0.1	4.4	12.8	639	5.17	1.2	0.6	<0.5	3.4	14	<0.1	0.1	<0.1	66	0.26	0.061
109071	Soil	0.9	21.5	4.2	80	<0.1	8.9	13.7	619	5.17	3.0	0.8	2.4	3.9	21	<0.1	0.4	<0.1	68	0.50	0.102
109072	Soil	2.1	24.4	5.1	67	<0.1	15.9	8.7	1587	4.05	4.1	2.6	<0.5	7.6	24	<0.1	0.5	<0.1	48	0.29	0.031
109073	Soil	1.3	28.7	10.2	64	<0.1	19.5	15.3	359	3.73	8.4	1.5	6.1	5.8	23	<0.1	0.6	0.1	71	0.31	0.031
109074	Soil	1.0	38.6	3.5	55	<0.1	14.2	17.4	549	4.09	0.7	0.8	2.0	1.2	17	<0.1	0.1	<0.1	111	0.99	0.149
109075	Soil	1.2	23.1	5.7	88	<0.1	14.3	12.6	671	4.78	2.5	1.6	<0.5	8.3	18	<0.1	0.2	<0.1	88	0.33	0.060
109076	Soil	0.8	18.8	4.5	70	<0.1	10.5	9.4	461	3.69	2.6	1.2	<0.5	5.8	18	<0.1	0.3	<0.1	69	0.40	0.070
109077	Soil	0.7	12.4	6.3	66	<0.1	10.1	8.7	342	3.14	3.1	0.9	1.1	5.7	18	<0.1	0.3	<0.1	43	0.29	0.042
109078	Soil	0.9	11.2	7.9	50	<0.1	11.8	8.3	496	2.47	8.8	1.7	22.0	3.9	53	0.2	0.3	0.1	43	0.51	0.096
109079	Soil	0.8	8.8	5.7	54	<0.1	9.7	8.9	328	3.32	4.1	0.6	2.2	3.6	25	<0.1	0.3	<0.1	47	0.22	0.026
109080	Soil	1.1	6.2	2.3	75	<0.1	4.9	10.2	419	4.79	1.9	0.9	<0.5	4.0	17	<0.1	0.2	<0.1	40	0.33	0.072
109081	Soil	0.7	10.7	4.7	78	<0.1	9.1	9.7	516	4.01	3.1	0.6	0.8	3.4	19	<0.1	0.3	<0.1	48	0.35	0.084
109082	Soil	1.1	11.3	6.6	54	<0.1	14.1	8.6	346	3.44	8.5	0.7	2.2	4.0	31	<0.1	0.5	0.2	59	0.29	0.028
109083	Soil	0.7	19.6	7.1	55	<0.1	16.3	9.7	326	3.04	7.6	0.8	2.3	4.2	32	<0.1	0.5	0.1	54	0.33	0.036
109084	Soil	0.7	7.1	2.6	105	<0.1	4.8	10.4	713	4.81	2.7	0.8	<0.5	3.1	12	<0.1	0.3	<0.1	46	0.15	0.043

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109055	Soil	9	6	0.99	406	0.211	<1	2.48	0.022	0.95	<0.1	<0.01	7.2	0.2	<0.05	9	0.6	<0.2
109056	Soil	2	18	0.58	174	0.113	<1	1.83	0.021	0.07	<0.1	<0.01	5.3	<0.1	<0.05	7	0.6	<0.2
109057	Soil	4	12	1.09	377	0.270	<1	2.61	0.015	0.85	0.1	<0.01	6.3	0.2	<0.05	11	0.5	<0.2
109058	Soil	6	20	0.71	302	0.134	<1	2.33	0.008	0.43	0.1	0.02	5.9	0.2	<0.05	9	<0.5	<0.2
109059	Soil	13	34	0.72	431	0.095	2	1.75	0.022	0.12	0.2	0.04	6.2	<0.1	<0.05	6	0.9	<0.2
109060	Soil	14	28	0.51	261	0.085	2	1.31	0.013	0.05	0.1	0.03	4.8	<0.1	<0.05	4	<0.5	0.2
109061	Soil	6	25	0.51	242	0.106	<1	1.68	0.011	0.18	0.1	0.03	3.9	0.1	<0.05	7	<0.5	<0.2
109062	Soil	8	36	0.84	315	0.119	<1	2.36	0.019	0.32	<0.1	0.02	5.3	0.2	<0.05	9	0.7	<0.2
109063	Soil	15	41	0.75	358	0.110	2	2.30	0.015	0.22	0.1	0.02	5.0	0.2	<0.05	8	0.7	<0.2
109064	Soil	15	28	0.58	317	0.091	1	1.58	0.012	0.21	0.2	0.03	3.7	0.1	<0.05	7	0.9	<0.2
109065	Soil	15	23	0.55	324	0.105	1	1.40	0.013	0.26	0.1	<0.01	3.6	0.1	<0.05	7	<0.5	<0.2
109066	Soil	9	24	0.53	190	0.088	<1	1.30	0.016	0.15	0.1	<0.01	2.7	<0.1	<0.05	5	0.9	<0.2
109067	Soil	16	21	0.63	240	0.080	<1	1.87	0.010	0.49	<0.1	0.06	3.5	0.1	<0.05	9	0.9	<0.2
109068	Soil	8	33	0.66	296	0.100	<1	1.76	0.019	0.16	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
109069	Soil	5	27	0.75	309	0.105	<1	2.24	0.022	0.21	<0.1	0.03	4.1	<0.1	<0.05	7	0.5	<0.2
109070	Soil	11	6	1.24	529	0.288	<1	2.71	0.012	1.52	0.1	0.01	7.8	0.3	<0.05	11	<0.5	<0.2
109071	Soil	13	11	1.22	457	0.155	<1	2.44	0.022	0.82	<0.1	0.02	10.7	0.2	<0.05	9	0.6	<0.2
109072	Soil	29	15	0.70	477	0.104	<1	2.58	0.009	0.58	<0.1	0.07	11.8	0.2	<0.05	10	1.2	<0.2
109073	Soil	16	30	0.66	350	0.118	<1	2.19	0.016	0.21	0.1	0.04	7.5	0.1	<0.05	8	0.7	<0.2
109074	Soil	6	20	0.76	149	0.092	<1	1.59	0.090	0.29	<0.1	0.02	8.8	<0.1	<0.05	7	0.6	<0.2
109075	Soil	23	20	1.28	339	0.234	<1	2.73	0.013	1.28	0.1	<0.01	10.7	0.5	<0.05	13	0.9	<0.2
109076	Soil	17	19	0.84	274	0.139	<1	1.92	0.022	0.67	<0.1	0.01	7.3	0.2	<0.05	8	0.7	<0.2
109077	Soil	12	17	0.65	236	0.039	<1	1.57	0.011	0.12	0.4	0.03	4.8	<0.1	<0.05	8	0.8	<0.2
109078	Soil	10	16	0.40	257	0.065	1	1.06	0.028	0.10	0.2	0.01	2.8	<0.1	<0.05	4	0.5	<0.2
109079	Soil	9	16	0.87	337	0.103	<1	1.88	0.012	0.17	<0.1	0.01	5.3	<0.1	<0.05	8	0.5	<0.2
109080	Soil	12	8	1.27	536	0.143	<1	2.38	0.010	0.34	<0.1	<0.01	11.1	<0.1	<0.05	12	0.6	<0.2
109081	Soil	8	14	0.88	419	0.199	<1	1.98	0.014	0.65	<0.1	<0.01	6.9	0.1	<0.05	8	0.8	<0.2
109082	Soil	12	25	0.69	397	0.110	<1	1.85	0.016	0.17	<0.1	0.01	4.5	0.1	<0.05	7	<0.5	<0.2
109083	Soil	11	27	0.68	426	0.092	<1	1.90	0.020	0.11	0.2	0.02	3.7	<0.1	<0.05	6	0.6	<0.2
109084	Soil	6	9	0.86	356	0.237	<1	2.35	0.015	1.12	<0.1	<0.01	5.4	0.2	<0.05	11	<0.5	<0.2

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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
109085	Soil	0.4	12.1	2.9	37	<0.1	9.4	9.0	241	2.89	2.2	0.6	1.8	3.1	30	<0.1	0.3	<0.1	39	0.32	0.050
109086	Soil	0.8	9.0	8.3	39	<0.1	10.3	6.3	224	2.49	4.7	0.6	3.7	3.1	35	<0.1	0.4	0.1	48	0.23	0.017
109087	Soil	1.0	12.6	4.3	70	<0.1	7.0	9.6	469	4.35	4.1	0.6	1.5	1.9	14	<0.1	0.4	<0.1	53	0.17	0.043
109088	Soil	0.9	35.5	9.7	60	<0.1	28.1	11.3	388	3.04	11.9	1.7	4.7	6.6	27	<0.1	0.8	0.2	57	0.31	0.059
109089	Soil	1.9	14.1	14.7	52	0.1	13.1	5.5	206	1.66	6.3	2.0	1.9	3.1	221	<0.1	0.4	0.2	29	0.56	0.051
109090	Soil	2.1	14.9	15.1	55	<0.1	13.6	5.8	225	1.81	7.6	2.0	1.6	2.4	193	<0.1	0.4	0.2	33	0.52	0.056
109091	Soil	2.2	129.3	6.6	130	<0.1	57.2	22.4	468	4.91	7.7	1.9	2.7	5.3	12	0.1	0.3	0.4	90	0.09	0.036
109092	Soil	1.0	30.4	10.2	68	<0.1	23.4	9.2	218	3.07	7.2	1.0	3.4	4.9	22	<0.1	0.4	0.2	62	0.23	0.061
109093	Soil	0.8	55.7	10.6	94	0.1	41.8	15.1	424	4.42	6.7	1.8	8.1	7.5	23	<0.1	0.4	0.3	82	0.24	0.086
109094	Soil	0.6	69.0	88.4	252	0.1	31.6	9.6	254	3.34	4.0	2.2	6.1	10.3	20	0.2	0.3	0.4	69	0.24	0.073
109095	Soil	0.6	52.1	14.0	89	<0.1	36.8	10.7	234	3.61	4.8	1.8	2.4	5.9	22	<0.1	0.3	0.3	73	0.27	0.068
109096	Soil	0.8	39.2	34.7	108	0.2	31.0	9.7	256	3.38	6.5	1.8	5.0	7.2	22	0.2	0.4	0.2	61	0.24	0.063
109097	Soil	0.9	50.5	36.5	247	<0.1	43.1	13.4	418	4.36	2.3	3.2	6.0	19.3	14	0.3	0.2	0.2	83	0.26	0.095
109098	Soil	0.4	57.6	50.8	356	0.1	48.1	12.2	476	4.13	2.9	2.0	3.2	16.7	23	0.4	0.3	0.1	88	0.40	0.108
109099	Soil	0.3	54.6	28.3	139	0.1	40.5	11.4	339	3.62	3.0	2.4	0.6	12.1	11	0.4	0.2	0.2	79	0.20	0.086
109100	Soil	0.5	57.0	15.1	160	<0.1	36.3	11.1	178	3.89	1.9	2.0	2.9	12.2	9	<0.1	0.3	0.2	72	0.09	0.011
109101	Soil	1.4	62.7	17.5	87	<0.1	50.7	15.9	496	4.28	14.2	1.0	7.0	6.7	29	<0.1	1.2	0.3	80	0.28	0.032
109102	Soil	0.2	93.0	13.7	130	<0.1	59.2	16.2	486	5.50	4.6	2.2	4.7	9.5	15	<0.1	0.1	0.3	109	0.28	0.089
109103	Soil	0.7	54.9	15.5	111	<0.1	44.8	13.9	322	4.80	4.4	1.5	2.1	4.8	16	<0.1	0.3	0.3	102	0.20	0.053
109104	Soil	0.6	71.6	18.6	158	<0.1	62.3	18.8	601	5.73	2.8	1.2	3.8	4.8	21	<0.1	0.2	0.3	110	0.27	0.108
109105	Soil	0.5	24.9	13.1	117	<0.1	57.1	15.1	290	4.81	3.0	0.7	3.5	3.6	25	<0.1	0.3	0.1	105	0.40	0.109
109106	Soil	0.7	46.9	12.3	93	<0.1	43.1	11.8	345	4.00	2.9	1.6	1.5	8.7	11	<0.1	0.3	0.2	70	0.08	0.029
109107	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.
109108	Soil	1.3	30.2	21.3	85	<0.1	24.6	5.9	152	2.12	6.2	2.3	2.2	6.2	25	<0.1	0.2	0.2	44	0.19	0.019
109109	Soil	1.4	19.1	24.2	56	<0.1	16.3	10.4	391	1.49	5.6	2.8	2.8	3.7	103	0.1	0.4	0.2	28	0.40	0.033
109110	Soil	1.6	71.0	10.9	72	<0.1	43.4	10.6	655	4.27	6.8	2.4	3.2	12.5	17	<0.1	0.5	0.2	71	0.11	0.021
109111	Soil	0.8	84.4	18.3	148	<0.1	60.0	15.9	402	6.04	2.3	1.8	1.5	5.4	15	<0.1	0.3	0.2	109	0.14	0.049
109112	Soil	0.7	91.2	10.2	113	0.1	63.6	14.1	582	5.20	4.4	2.3	10.1	8.8	23	<0.1	0.2	0.2	123	0.18	0.079
109113	Soil	1.4	73.8	13.6	89	0.1	44.3	15.1	369	4.40	8.2	2.0	3.2	6.5	23	0.2	0.5	0.2	91	0.15	0.034
109114	Soil	0.9	32.0	7.2	91	0.1	72.4	50.6	1231	6.42	1.9	3.3	5.6	8.7	19	0.1	0.2	0.2	91	0.08	0.069

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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

WHI11000231.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
109085	Soil	10	17	0.69	410	0.103	<1	1.60	0.021	0.21	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
109086	Soil	12	20	0.46	332	0.091	<1	1.46	0.013	0.14	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
109087	Soil	5	11	0.73	397	0.233	<1	2.46	0.010	0.65	<0.1	<0.01	4.4	0.2	<0.05	10	<0.5	<0.2
109088	Soil	25	37	0.55	298	0.083	1	1.64	0.012	0.06	0.2	0.05	7.2	<0.1	<0.05	5	<0.5	<0.2
109089	Soil	16	16	0.35	1129	0.022	1	1.50	0.027	0.14	<0.1	0.05	2.3	0.2	<0.05	4	<0.5	<0.2
109090	Soil	16	19	0.35	1033	0.027	2	1.49	0.026	0.14	<0.1	0.03	2.1	0.2	<0.05	4	<0.5	<0.2
109091	Soil	17	64	0.79	330	0.187	<1	2.07	0.005	1.02	<0.1	<0.01	4.6	0.6	<0.05	7	<0.5	<0.2
109092	Soil	15	36	0.58	232	0.110	<1	1.85	0.009	0.28	0.1	0.03	3.1	0.2	<0.05	6	<0.5	<0.2
109093	Soil	23	48	0.70	308	0.138	<1	2.36	0.008	0.58	0.2	0.04	4.6	0.4	<0.05	7	<0.5	0.2
109094	Soil	33	39	0.50	181	0.088	<1	1.86	0.005	0.44	0.2	0.04	3.5	0.3	<0.05	6	<0.5	<0.2
109095	Soil	19	44	0.70	276	0.160	<1	2.06	0.009	0.61	<0.1	0.04	4.3	0.4	<0.05	7	<0.5	<0.2
109096	Soil	23	38	0.48	215	0.058	<1	1.86	0.007	0.12	0.1	0.04	3.9	0.1	<0.05	6	0.5	<0.2
109097	Soil	63	47	0.83	321	0.282	<1	2.63	0.007	1.26	<0.1	0.04	4.1	0.8	<0.05	7	<0.5	<0.2
109098	Soil	45	66	0.87	273	0.207	<1	2.57	0.007	0.97	<0.1	0.05	4.2	0.6	<0.05	8	0.6	<0.2
109099	Soil	43	49	0.64	184	0.182	<1	1.73	0.005	0.73	<0.1	0.03	3.4	0.4	<0.05	6	<0.5	<0.2
109100	Soil	40	48	0.64	222	0.171	<1	1.89	0.007	0.95	<0.1	0.02	4.3	0.8	<0.05	7	<0.5	<0.2
109101	Soil	21	48	0.65	395	0.099	1	2.46	0.011	0.19	0.2	0.09	6.6	0.2	<0.05	7	<0.5	<0.2
109102	Soil	31	64	1.15	258	0.222	<1	2.95	0.008	1.27	<0.1	0.02	6.2	0.7	<0.05	9	<0.5	<0.2
109103	Soil	15	56	0.91	294	0.245	<1	2.75	0.010	0.84	<0.1	0.03	6.0	0.5	<0.05	8	<0.5	<0.2
109104	Soil	12	62	0.84	297	0.209	<1	2.43	0.012	1.16	<0.1	0.03	5.7	0.5	<0.05	9	<0.5	<0.2
109105	Soil	11	65	1.00	402	0.275	<1	2.47	0.012	1.08	<0.1	0.04	4.9	0.5	<0.05	9	<0.5	<0.2
109106	Soil	28	43	0.47	164	0.088	<1	1.52	0.009	0.46	<0.1	0.01	3.5	0.2	<0.05	6	<0.5	<0.2
109107	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.
109108	Soil	23	35	0.42	226	0.077	<1	1.41	0.005	0.45	<0.1	0.03	3.3	0.8	0.05	6	<0.5	<0.2
109109	Soil	26	24	0.37	465	0.026	2	1.41	0.013	0.15	<0.1	0.02	2.2	0.4	<0.05	4	<0.5	<0.2
109110	Soil	42	48	0.48	315	0.081	<1	1.68	0.008	0.50	<0.1	0.05	6.9	0.3	<0.05	6	<0.5	<0.2
109111	Soil	13	64	1.33	366	0.302	<1	3.29	0.011	1.27	<0.1	0.03	7.0	0.9	<0.05	10	<0.5	<0.2
109112	Soil	16	70	0.93	292	0.177	<1	2.74	0.009	0.81	<0.1	0.03	7.6	0.4	<0.05	11	0.7	<0.2
109113	Soil	21	61	0.77	341	0.164	<1	2.43	0.011	0.46	0.2	0.02	5.2	0.4	<0.05	7	<0.5	<0.2
109114	Soil	21	63	0.87	293	0.157	<1	2.18	0.007	0.91	<0.1	<0.01	5.2	0.5	<0.05	8	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 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
109115	Soil			0.9	56.4	7.6	83	<0.1	67.2	27.0	542	6.18	2.8	3.7	2.2	12.0	21	0.1	0.2	0.2	90	0.11	0.074
109116	Soil			0.5	70.3	11.9	127	<0.1	55.9	14.3	303	5.26	3.0	1.4	2.8	5.8	14	<0.1	0.3	0.2	116	0.11	0.045
109117	Soil			0.8	38.8	15.3	84	0.3	38.1	11.2	206	4.08	6.6	1.4	3.2	6.1	15	<0.1	0.4	0.3	88	0.13	0.039
109118	Soil			0.5	44.7	9.1	127	<0.1	48.5	13.4	410	5.17	1.9	1.6	3.8	11.1	17	<0.1	0.2	0.2	101	0.28	0.084
109119	Soil			1.3	102.1	20.2	193	<0.1	70.0	19.6	466	5.43	4.3	2.7	10.7	13.8	16	0.2	0.3	0.4	138	0.25	0.096
109120	Soil			1.0	50.5	7.5	99	<0.1	48.2	15.2	290	4.80	8.9	2.1	37.6	8.8	12	<0.1	0.3	0.7	97	0.14	0.037
109121	Soil			0.4	63.0	18.5	136	<0.1	26.6	7.5	524	3.00	0.8	1.2	2.7	10.7	14	0.6	0.2	0.2	30	0.28	0.078
0116014	Soil			0.5	36.3	1.8	21	<0.1	14.2	9.4	158	1.88	2.6	0.1	<0.5	0.9	5	<0.1	0.1	<0.1	53	0.36	0.083
0116015	Soil			0.3	31.3	1.8	23	<0.1	13.9	9.3	162	1.96	2.7	0.1	<0.5	0.9	8	<0.1	0.1	<0.1	57	0.34	0.069
0116016	Soil			0.4	4.2	1.8	36	<0.1	4.8	13.6	305	2.14	1.5	0.2	<0.5	1.2	16	<0.1	<0.1	<0.1	67	0.39	0.066
0116017	Soil			0.6	10.3	3.3	30	<0.1	5.5	7.9	277	1.92	5.5	0.1	<0.5	0.7	15	<0.1	0.2	<0.1	40	0.34	0.117
0116018	Soil			0.2	14.6	2.0	26	<0.1	6.9	8.2	171	1.66	2.3	0.4	0.6	1.5	47	<0.1	0.1	<0.1	43	0.57	0.050
0116019	Soil			0.2	41.1	2.6	63	<0.1	10.7	25.1	431	3.60	2.6	0.4	1.7	1.9	64	<0.1	0.2	<0.1	69	0.65	0.033
0116020	Soil			0.2	17.2	1.3	28	<0.1	7.1	10.5	215	1.87	1.7	0.3	0.9	1.3	45	<0.1	0.1	<0.1	41	0.48	0.065
0116021	Soil			0.1	9.8	1.1	25	<0.1	7.0	8.1	205	1.64	0.9	0.2	<0.5	0.6	29	<0.1	<0.1	<0.1	45	0.51	0.074
0116022	Soil			0.2	17.9	1.8	81	<0.1	5.4	19.0	696	4.97	0.8	0.4	1.3	1.6	83	<0.1	<0.1	<0.1	105	0.89	0.087
0116023	Soil			0.4	24.2	5.5	47	<0.1	12.5	10.3	141	2.60	4.6	0.9	2.8	3.1	40	0.1	0.3	<0.1	52	0.63	0.060
0116024	Soil			0.3	25.3	5.2	55	<0.1	14.9	14.1	498	3.15	4.8	0.6	0.9	2.6	36	0.1	0.3	<0.1	58	0.73	0.061
0116025	Soil			0.4	9.2	3.8	23	<0.1	5.9	4.5	106	1.37	2.1	0.7	<0.5	2.3	14	<0.1	0.1	<0.1	23	0.28	0.026
0116026	Soil			0.5	31.2	6.5	51	<0.1	14.3	15.4	542	3.77	3.6	1.0	3.7	3.6	19	0.2	0.3	0.1	77	0.86	0.042
0116027	Soil			0.6	30.5	7.3	52	<0.1	16.9	23.8	855	4.28	3.0	1.1	<0.5	3.4	22	0.1	0.2	0.1	71	0.54	0.042
0116028	Soil			0.5	10.7	6.0	31	<0.1	8.0	6.5	160	1.91	2.5	0.5	1.0	2.8	18	<0.1	0.2	<0.1	40	0.18	0.014
0116029	Soil			1.8	21.6	12.6	45	<0.1	14.1	11.3	490	2.54	9.8	2.3	1.2	4.6	28	<0.1	0.3	0.2	47	0.73	0.047
0116030	Soil			0.8	24.3	10.4	46	<0.1	16.2	8.1	275	2.22	4.3	1.7	2.7	5.1	21	<0.1	0.3	0.2	51	0.46	0.031
0116031	Soil			1.0	29.3	12.3	49	0.1	20.4	10.5	454	2.55	6.2	2.3	4.4	5.1	30	0.1	0.4	0.2	51	0.57	0.047
0116032	Soil			0.9	30.0	11.2	66	0.2	22.4	9.0	272	2.43	6.5	1.4	4.0	5.0	29	0.1	0.5	0.2	50	0.41	0.040
0116033	Soil			1.0	31.8	12.3	52	0.2	21.7	9.5	346	2.29	6.6	2.5	1.6	3.7	32	0.1	0.4	0.2	50	0.55	0.050
0116034	Soil			1.6	30.0	16.2	50	<0.1	19.2	8.8	355	2.16	4.2	2.7	2.6	9.9	34	<0.1	0.5	0.3	42	0.57	0.027
0116035	Soil			1.3	21.8	11.8	48	<0.1	19.9	8.1	241	2.52	9.0	1.2	2.7	4.4	20	<0.1	0.5	0.2	53	0.27	0.017
0116036	Soil			1.2	32.9	12.0	51	<0.1	21.4	7.7	241	2.33	6.8	3.2	0.8	7.3	28	<0.1	0.4	0.2	46	0.38	0.039

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
109115	Soil	34	58	0.72	220	0.100	<1	1.89	0.005	0.67	0.2	0.02	4.5	0.3	<0.05	8	1.3	<0.2
109116	Soil	15	68	1.12	276	0.239	<1	2.92	0.006	0.92	<0.1	<0.01	4.1	0.6	<0.05	8	<0.5	<0.2
109117	Soil	17	47	0.63	261	0.154	<1	2.38	0.009	0.46	<0.1	0.03	4.5	0.3	<0.05	7	<0.5	<0.2
109118	Soil	24	59	1.16	303	0.233	1	2.89	0.007	1.42	<0.1	<0.01	4.6	0.8	<0.05	8	<0.5	<0.2
109119	Soil	32	63	0.93	476	0.248	<1	2.70	0.009	1.25	<0.1	0.01	4.7	0.6	<0.05	8	0.8	<0.2
109120	Soil	35	59	1.03	397	0.178	<1	2.78	0.009	0.97	0.1	0.01	6.6	0.6	<0.05	8	0.9	<0.2
109121	Soil	24	17	0.13	177	0.007	<1	0.69	0.003	0.10	<0.1	0.04	3.4	<0.1	<0.05	3	0.6	<0.2
0116014	Soil	3	21	0.45	97	0.069	<1	1.06	0.023	0.14	<0.1	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
0116015	Soil	3	22	0.48	116	0.070	<1	1.10	0.023	0.14	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
0116016	Soil	3	22	1.25	285	0.121	<1	1.45	0.016	0.47	<0.1	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
0116017	Soil	3	16	0.52	136	0.070	<1	1.13	0.017	0.14	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
0116018	Soil	6	17	0.78	351	0.047	<1	1.71	0.052	0.07	<0.1	0.03	5.8	<0.1	<0.05	4	<0.5	<0.2
0116019	Soil	8	36	1.74	447	0.040	<1	2.24	0.020	0.03	<0.1	<0.01	11.0	<0.1	<0.05	7	<0.5	<0.2
0116020	Soil	5	15	0.72	296	0.038	<1	1.27	0.021	0.09	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
0116021	Soil	3	21	0.64	218	0.018	<1	1.10	0.027	0.04	<0.1	<0.01	4.8	<0.1	<0.05	3	<0.5	<0.2
0116022	Soil	7	11	1.92	547	0.045	<1	2.86	0.022	0.38	<0.1	<0.01	12.5	<0.1	<0.05	10	<0.5	<0.2
0116023	Soil	11	30	0.69	300	0.030	<1	1.77	0.016	0.04	<0.1	0.04	6.3	<0.1	<0.05	6	0.6	<0.2
0116024	Soil	10	24	0.67	270	0.021	1	1.63	0.018	0.05	<0.1	0.03	7.5	<0.1	<0.05	5	<0.5	<0.2
0116025	Soil	10	10	0.18	78	0.012	<1	0.57	0.005	0.02	<0.1	<0.01	4.4	<0.1	<0.05	2	<0.5	<0.2
0116026	Soil	15	15	0.26	183	0.016	2	1.01	0.007	0.04	<0.1	0.03	11.1	<0.1	<0.05	4	0.8	<0.2
0116027	Soil	24	20	0.28	226	0.012	1	1.04	0.007	0.03	<0.1	0.03	12.4	<0.1	<0.05	4	0.8	<0.2
0116028	Soil	10	14	0.22	95	0.025	<1	0.80	0.005	0.02	<0.1	<0.01	3.7	0.1	<0.05	3	<0.5	<0.2
0116029	Soil	16	21	0.36	247	0.018	1	1.33	0.007	0.04	<0.1	0.03	4.9	0.2	<0.05	5	<0.5	<0.2
0116030	Soil	14	22	0.29	194	0.022	1	1.03	0.008	0.04	<0.1	0.04	6.6	0.1	<0.05	5	0.8	<0.2
0116031	Soil	16	26	0.35	280	0.026	1	1.34	0.010	0.05	<0.1	0.06	5.9	<0.1	<0.05	5	0.6	<0.2
0116032	Soil	14	29	0.35	222	0.038	2	1.07	0.011	0.07	<0.1	0.06	6.3	0.1	<0.05	5	0.7	<0.2
0116033	Soil	14	27	0.39	298	0.029	<1	1.45	0.011	0.05	<0.1	0.05	5.6	0.1	<0.05	5	0.7	<0.2
0116034	Soil	18	21	0.39	262	0.012	<1	1.58	0.009	0.08	<0.1	0.04	7.3	0.1	<0.05	6	0.6	<0.2
0116035	Soil	13	30	0.46	281	0.046	1	1.76	0.010	0.06	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
0116036	Soil	16	27	0.43	268	0.034	1	1.49	0.009	0.07	<0.1	0.05	5.6	0.1	<0.05	5	0.7	<0.2

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Project: Montana
 Report Date: June 28, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	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
0116037	Soil	1.1	25.9	10.8	50	<0.1	15.9	5.9	139	1.78	5.7	2.4	3.3	5.9	35	0.2	0.3	0.3	36	0.26	0.030
0116038	Soil	1.4	22.3	12.3	58	0.1	16.6	6.4	263	2.17	8.6	2.1	0.9	8.0	27	<0.1	0.4	0.3	37	0.38	0.048
0116039	Soil	1.1	33.8	15.7	50	0.2	22.1	9.5	332	2.12	7.6	3.4	3.0	8.2	37	0.2	0.5	0.3	43	0.52	0.043
0116040	Soil	1.3	32.8	15.9	52	0.2	22.6	9.8	331	2.05	7.5	3.5	2.0	8.5	38	0.1	0.5	0.3	43	0.50	0.041
0116041	Soil	0.9	25.7	10.4	46	<0.1	14.7	4.9	119	1.65	6.7	2.4	1.3	7.5	22	0.1	0.3	0.2	35	0.23	0.030
0116042	Soil	0.9	26.7	9.6	43	<0.1	15.9	4.6	106	1.59	4.5	2.4	5.2	8.1	28	<0.1	0.3	0.2	35	0.25	0.033
0116043	Soil	0.9	36.3	16.8	63	1.4	24.3	5.4	241	2.46	11.6	5.1	6.7	4.5	85	0.4	0.3	0.4	45	0.63	0.108
0116044	Soil	3.4	41.2	38.3	92	0.4	24.5	14.4	1962	3.54	8.2	5.4	2.9	24.2	25	0.3	0.9	0.7	38	0.21	0.043
0116045	Soil	0.5	45.3	12.7	76	<0.1	35.7	13.4	640	4.36	2.9	1.7	11.3	13.6	16	<0.1	0.4	0.2	82	0.27	0.028
100060	Soil	1.0	36.3	8.7	89	<0.1	13.6	5.5	260	1.91	1.4	2.5	1.9	17.6	3	<0.1	0.3	0.3	35	0.02	0.029
100061	Soil	1.1	30.6	8.0	47	<0.1	12.7	5.1	242	1.92	5.1	2.5	6.5	8.3	9	<0.1	1.3	0.2	41	0.05	0.021
100062	Soil	1.3	33.9	8.6	34	<0.1	10.4	5.9	201	1.78	8.2	2.6	4.6	7.7	8	<0.1	3.1	0.3	41	0.04	0.019
100063	Soil	1.0	27.8	9.6	44	0.1	15.8	8.1	213	2.20	5.5	1.4	6.6	6.7	9	<0.1	0.8	0.3	47	0.06	0.024
100064	Soil	1.1	32.7	9.2	42	<0.1	15.8	6.7	238	1.90	5.3	1.7	6.5	7.1	11	<0.1	1.0	0.2	42	0.08	0.025
100065	Soil	1.2	39.3	10.1	46	0.1	17.8	9.2	372	2.14	6.4	1.9	5.9	7.1	12	<0.1	0.9	0.3	47	0.09	0.029
100066	Soil	1.4	38.1	11.1	63	0.2	20.4	6.4	169	2.31	4.6	1.5	3.8	1.5	15	0.1	0.8	0.3	51	0.12	0.046
100067	Soil	1.1	29.4	10.0	61	0.1	19.1	6.1	138	2.27	5.1	1.5	3.0	5.4	14	<0.1	0.6	0.3	49	0.12	0.034
100068	Soil	1.0	29.6	9.4	61	<0.1	20.6	9.6	226	2.75	6.4	1.5	4.0	6.2	17	<0.1	0.6	0.2	57	0.14	0.019
100069	Soil	0.9	37.5	9.5	69	<0.1	27.5	10.5	226	3.28	5.0	1.3	6.9	6.0	10	<0.1	0.5	0.2	65	0.10	0.037
100070	Soil	1.1	25.4	9.1	64	<0.1	22.6	7.9	174	2.51	4.9	1.2	5.3	5.5	14	<0.1	0.5	0.2	52	0.13	0.026
100071	Soil	1.1	23.8	10.2	63	0.1	21.4	8.0	222	2.70	6.4	1.1	2.2	5.4	17	<0.1	0.5	0.2	57	0.19	0.033
100072	Soil	1.3	36.1	10.2	79	<0.1	35.3	9.9	242	3.03	5.8	1.2	6.5	6.1	17	<0.1	0.6	0.2	64	0.20	0.044
100073	Soil	1.0	25.8	8.7	62	0.1	23.6	7.6	200	2.59	6.2	1.1	4.8	5.0	20	<0.1	0.5	0.2	54	0.24	0.037
100074	Soil	1.0	25.1	8.7	66	<0.1	22.9	7.7	213	2.70	6.7	1.1	2.4	4.6	18	<0.1	0.5	0.2	54	0.19	0.043
100075	Soil	1.0	28.7	9.7	65	<0.1	23.9	8.4	257	2.64	6.4	1.3	2.0	4.4	25	<0.1	0.6	0.2	54	0.28	0.049
100076	Soil	0.7	22.5	8.2	63	<0.1	19.8	6.7	221	2.32	5.8	1.1	2.3	4.5	19	<0.1	0.5	0.1	49	0.22	0.056
100077	Soil	1.4	23.4	11.2	74	0.1	22.3	9.3	352	3.11	8.8	1.1	2.6	4.3	20	<0.1	0.6	0.2	63	0.23	0.070
100078	Soil	1.0	22.8	8.4	64	<0.1	20.9	8.1	239	2.59	7.5	0.9	2.8	4.2	21	<0.1	0.6	0.2	51	0.26	0.062
100079	Soil	1.1	26.0	9.1	78	<0.1	22.8	8.5	213	2.68	6.9	1.0	3.3	4.9	17	<0.1	0.5	0.2	56	0.23	0.060
100080	Soil	1.1	27.2	11.0	82	<0.1	24.9	10.4	250	3.01	8.9	1.1	6.4	5.6	19	<0.1	0.6	0.2	61	0.26	0.064

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
0116037	Soil	15	21	0.21	216	0.016	1	0.81	0.005	0.06	<0.1	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2
0116038	Soil	20	21	0.32	247	0.007	1	1.28	0.014	0.16	<0.1	0.02	4.2	0.1	<0.05	4	<0.5	<0.2
0116039	Soil	20	25	0.32	301	0.015	3	1.39	0.008	0.11	<0.1	0.06	5.6	0.2	<0.05	6	0.9	<0.2
0116040	Soil	20	25	0.32	283	0.017	2	1.34	0.008	0.11	<0.1	0.06	5.6	0.2	<0.05	6	0.7	<0.2
0116041	Soil	17	22	0.21	186	0.027	2	0.87	0.005	0.07	<0.1	0.03	4.9	0.2	<0.05	5	<0.5	<0.2
0116042	Soil	16	21	0.20	193	0.024	<1	0.77	0.005	0.06	<0.1	0.04	5.4	0.2	<0.05	5	<0.5	<0.2
0116043	Soil	51	31	0.26	553	0.007	3	1.95	0.007	0.12	<0.1	0.23	6.2	0.5	<0.05	9	1.8	<0.2
0116044	Soil	43	21	0.20	190	0.007	2	0.87	0.004	0.15	<0.1	0.16	5.8	0.4	<0.05	5	1.0	<0.2
0116045	Soil	28	58	0.73	264	0.052	1	2.11	0.005	0.28	<0.1	0.05	10.8	0.3	<0.05	9	0.6	<0.2
100060	Soil	36	17	0.17	151	0.073	<1	0.80	0.002	0.33	<0.1	0.03	3.1	0.3	<0.05	4	1.2	<0.2
100061	Soil	20	21	0.25	175	0.035	2	0.97	0.006	0.07	<0.1	0.05	3.9	0.1	0.13	3	1.0	<0.2
100062	Soil	18	19	0.17	153	0.021	2	0.80	0.002	0.03	<0.1	0.07	4.9	<0.1	0.12	3	1.0	<0.2
100063	Soil	16	25	0.31	171	0.034	1	1.21	0.006	0.05	<0.1	0.04	3.0	0.1	0.10	4	0.7	<0.2
100064	Soil	16	21	0.26	167	0.037	2	1.00	0.005	0.05	<0.1	0.04	3.4	0.1	0.13	3	0.6	<0.2
100065	Soil	18	24	0.32	216	0.041	3	1.15	0.006	0.05	0.1	0.07	4.5	0.1	0.11	4	0.8	0.2
100066	Soil	15	27	0.30	223	0.044	2	1.27	0.006	0.14	<0.1	0.03	2.7	0.1	0.13	5	0.6	<0.2
100067	Soil	19	26	0.37	187	0.062	2	1.26	0.005	0.13	<0.1	0.03	3.2	0.2	0.13	4	0.9	<0.2
100068	Soil	17	31	0.46	229	0.083	2	1.61	0.007	0.10	<0.1	0.04	4.6	0.1	0.07	5	0.8	<0.2
100069	Soil	15	40	0.59	212	0.133	<1	1.85	0.008	0.39	0.1	0.01	4.1	0.3	<0.05	5	1.0	<0.2
100070	Soil	17	31	0.46	186	0.100	<1	1.43	0.007	0.17	0.1	0.02	3.1	0.2	<0.05	5	0.6	<0.2
100071	Soil	15	33	0.46	200	0.093	2	1.63	0.008	0.11	<0.1	0.01	3.2	0.1	<0.05	5	0.6	<0.2
100072	Soil	16	48	0.52	239	0.109	2	1.45	0.008	0.25	0.1	0.03	4.7	0.2	<0.05	5	0.8	<0.2
100073	Soil	15	36	0.47	212	0.091	<1	1.41	0.007	0.12	0.1	0.02	3.3	0.1	<0.05	4	0.5	<0.2
100074	Soil	15	36	0.46	197	0.089	1	1.50	0.008	0.10	0.1	0.03	3.3	0.1	<0.05	4	<0.5	<0.2
100075	Soil	17	32	0.47	258	0.087	2	1.43	0.008	0.10	0.1	0.03	3.7	0.1	<0.05	5	0.6	<0.2
100076	Soil	17	29	0.43	238	0.078	2	1.21	0.009	0.09	0.1	0.02	3.1	<0.1	<0.05	4	0.8	<0.2
100077	Soil	15	31	0.41	223	0.076	1	1.43	0.008	0.11	0.2	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
100078	Soil	15	27	0.41	220	0.067	1	1.18	0.009	0.08	0.1	0.03	2.7	<0.1	<0.05	4	0.8	<0.2
100079	Soil	16	32	0.46	237	0.110	1	1.32	0.007	0.26	0.2	0.01	3.3	0.2	<0.05	4	<0.5	<0.2
100080	Soil	16	34	0.51	258	0.109	1	1.46	0.008	0.18	0.1	<0.01	3.4	0.1	<0.05	5	0.6	<0.2

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.



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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

WHI11000231.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
100081	Soil	1.5	20.2	15.2	76	0.1	25.7	9.8	358	3.11	14.1	1.0	3.7	7.0	14	0.1	0.7	0.2	73	0.12	0.033
100082	Soil	1.3	22.9	15.8	56	0.2	26.5	10.3	468	3.08	11.6	1.5	1.6	9.2	21	<0.1	0.7	0.3	75	0.17	0.019
100083	Soil	1.0	14.0	25.0	36	<0.1	9.4	3.9	260	1.64	10.4	5.5	2.3	20.2	10	<0.1	0.9	0.9	27	0.10	0.016
100084	Soil	1.3	15.6	14.6	53	0.2	18.1	9.0	379	2.75	9.1	1.3	1.3	7.2	15	<0.1	0.6	0.4	66	0.15	0.030
100085	Soil	1.2	39.6	18.4	64	<0.1	25.5	10.4	272	3.03	15.6	4.4	4.7	19.9	21	<0.1	1.0	0.5	63	0.20	0.016
100086	Soil	1.1	18.7	14.4	45	<0.1	15.5	7.1	230	2.25	9.9	2.3	2.3	14.1	15	<0.1	0.6	0.3	50	0.15	0.013
100087	Soil	1.0	31.1	18.2	56	0.2	21.2	9.3	345	3.00	13.4	2.5	3.3	10.8	18	<0.1	1.0	0.4	61	0.16	0.016
100088	Soil	0.7	18.1	37.5	62	<0.1	6.7	2.9	98	1.50	9.5	5.8	2.8	32.0	7	<0.1	1.9	0.4	19	0.06	0.013
100089	Soil	1.1	4.5	19.6	40	<0.1	4.5	2.1	242	1.42	7.5	6.0	1.7	37.0	4	0.1	1.1	0.3	11	0.03	0.016
100090	Soil	1.1	4.8	18.4	42	<0.1	5.2	2.2	426	1.32	8.0	5.8	4.1	31.0	6	0.4	1.2	0.3	13	0.05	0.018
100091	Soil	1.2	13.2	12.6	47	0.1	16.6	6.4	226	2.49	11.5	1.0	<0.5	6.1	15	<0.1	0.4	0.2	58	0.15	0.018
100092	Soil	1.2	37.2	20.9	63	0.2	26.5	9.4	285	3.09	12.6	4.5	2.8	15.0	21	<0.1	0.8	0.3	67	0.19	0.016
100093	Soil	0.9	18.5	27.2	51	<0.1	20.5	7.2	185	2.37	10.6	3.0	2.1	22.9	13	<0.1	0.7	0.2	46	0.10	0.011
100094	Soil	1.0	12.6	21.4	40	<0.1	12.8	5.0	157	1.93	9.8	1.9	0.8	14.2	11	<0.1	0.9	0.3	38	0.09	0.013
100095	Soil	1.1	10.0	15.3	63	0.1	8.7	2.8	617	1.72	18.9	1.6	<0.5	9.8	18	0.1	0.6	0.5	33	0.39	0.039
100096	Soil	1.1	21.5	13.0	52	<0.1	25.5	8.2	280	2.59	8.0	1.3	2.4	10.2	12	0.1	0.5	0.2	54	0.16	0.015
100097	Soil	1.7	31.4	12.3	66	<0.1	173.7	35.9	757	4.56	23.6	1.6	1.1	11.3	27	<0.1	0.5	0.1	88	0.61	0.026
100098	Soil	0.6	26.8	6.2	54	<0.1	45.3	17.3	371	3.66	7.3	0.6	1.6	3.4	28	<0.1	0.2	<0.1	113	0.68	0.139
100099	Soil	1.3	42.4	10.4	101	0.2	48.6	15.2	551	4.01	41.1	0.7	2.7	3.8	24	0.2	0.5	0.3	90	0.39	0.089
100100	Soil	0.6	51.6	6.4	57	<0.1	41.5	13.7	357	3.54	72.2	0.8	11.7	5.1	25	0.1	0.4	0.9	88	0.54	0.067



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Project: Montana
 Report Date: June 28, 2011

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CERTIFICATE OF ANALYSIS

WHI11000231.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
100081	Soil	12	38	0.53	276	0.065	2	2.19	0.008	0.07	0.1	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2
100082	Soil	15	40	0.53	339	0.068	1	2.31	0.009	0.05	<0.1	<0.01	3.5	0.1	<0.05	7	<0.5	<0.2
100083	Soil	45	14	0.23	117	0.037	<1	0.87	0.005	0.05	<0.1	0.04	1.8	0.2	<0.05	4	0.5	<0.2
100084	Soil	12	29	0.38	235	0.052	<1	1.78	0.007	0.04	0.1	0.01	2.4	0.1	<0.05	6	<0.5	<0.2
100085	Soil	31	39	0.52	321	0.065	<1	2.19	0.010	0.06	0.1	0.08	6.9	0.1	<0.05	6	<0.5	<0.2
100086	Soil	19	30	0.42	183	0.057	2	1.66	0.008	0.04	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
100087	Soil	24	35	0.53	237	0.064	2	1.75	0.010	0.06	0.1	0.04	4.8	<0.1	<0.05	5	0.6	<0.2
100088	Soil	52	11	0.12	96	0.011	2	0.80	0.003	0.04	<0.1	0.05	1.7	<0.1	0.05	2	<0.5	<0.2
100089	Soil	15	5	0.04	106	0.002	4	0.68	0.002	0.04	<0.1	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
100090	Soil	19	7	0.06	131	0.004	3	0.69	0.002	0.04	<0.1	0.02	1.0	0.1	<0.05	2	<0.5	<0.2
100091	Soil	12	28	0.46	320	0.044	<1	1.64	0.006	0.04	0.1	0.02	2.6	0.2	<0.05	5	<0.5	<0.2
100092	Soil	34	37	0.49	353	0.061	<1	2.15	0.010	0.05	0.1	0.03	5.4	0.1	<0.05	6	0.6	<0.2
100093	Soil	20	27	0.40	184	0.037	3	1.81	0.006	0.05	<0.1	<0.01	2.3	0.1	<0.05	4	<0.5	<0.2
100094	Soil	16	19	0.34	152	0.019	3	1.35	0.005	0.05	0.2	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
100095	Soil	7	14	0.15	125	0.022	<1	0.84	0.004	0.08	0.1	<0.01	1.0	<0.1	<0.05	3	0.6	<0.2
100096	Soil	22	31	0.41	195	0.040	1	1.47	0.010	0.07	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
100097	Soil	14	243	1.94	601	0.161	3	3.24	0.010	0.24	0.1	0.02	8.4	0.4	<0.05	10	1.4	<0.2
100098	Soil	8	121	2.08	491	0.112	1	2.91	0.019	0.41	0.2	<0.01	6.9	0.1	<0.05	8	<0.5	<0.2
100099	Soil	9	67	1.19	528	0.079	1	2.68	0.011	0.43	0.1	<0.01	5.0	0.2	<0.05	8	<0.5	<0.2
100100	Soil	15	107	1.64	361	0.126	1	2.42	0.028	0.19	0.2	0.02	5.6	0.1	<0.05	7	<0.5	<0.2



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Project: Montana

Report Date: June 28, 2011

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QUALITY CONTROL REPORT

WHI11000231.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
0103078	Soil	0.6	19.6	9.4	45	<0.1	14.9	6.7	190	1.98	7.9	1.1	1.7	3.5	47	<0.1	0.4	0.2	41	0.51	0.060
REP 0103078	QC	0.6	20.1	9.8	48	<0.1	16.3	7.0	199	2.17	8.5	1.1	3.2	3.7	49	0.1	0.4	0.2	46	0.53	0.064
0103095	Soil	0.8	40.7	6.5	77	<0.1	13.3	9.1	396	4.02	5.2	1.9	1.8	6.7	16	<0.1	0.3	0.2	74	0.16	0.028
REP 0103095	QC	0.7	37.8	6.4	73	<0.1	12.4	8.6	389	3.94	4.8	1.8	1.0	6.5	15	<0.1	0.3	0.2	72	0.15	0.027
111100	Soil	1.2	27.2	11.8	78	0.1	25.0	7.6	299	2.71	5.2	1.2	3.9	7.2	18	<0.1	0.4	0.2	57	0.22	0.036
REP 111100	QC	1.2	27.2	12.5	81	0.1	26.4	7.7	313	2.85	5.3	1.3	3.5	7.5	19	<0.1	0.4	0.2	60	0.22	0.034
0112093	Soil	2.1	63.9	10.6	134	0.2	77.0	16.1	1028	4.22	3.1	1.5	3.1	6.4	28	0.1	0.9	0.2	117	0.41	0.077
REP 0112093	QC	2.2	63.4	10.9	129	0.2	74.1	16.1	1055	4.22	3.3	1.5	2.6	6.4	27	0.1	0.9	0.2	117	0.39	0.077
0112101	Soil	0.8	19.7	8.3	60	0.1	16.9	7.2	226	2.14	6.7	1.0	5.5	3.9	21	0.1	0.9	0.2	45	0.26	0.059
REP 0112101	QC	0.9	19.7	8.4	57	<0.1	16.1	7.4	227	2.16	6.4	1.0	4.4	3.9	22	0.1	0.9	0.2	43	0.25	0.060
0113058	Soil	1.0	38.6	8.1	61	0.1	29.5	10.5	333	2.76	7.8	0.9	2.7	3.7	30	0.1	0.7	0.1	59	0.50	0.058
REP 0113058	QC	1.0	39.8	8.5	63	0.1	30.2	10.7	324	2.58	8.0	1.0	4.3	3.8	33	0.1	0.7	0.1	61	0.53	0.058
0113062	Soil	0.7	31.9	8.4	58	<0.1	21.6	9.5	254	2.40	7.4	1.3	3.4	4.3	24	<0.1	0.7	0.1	53	0.41	0.054
REP 0113062	QC	0.7	31.1	8.8	54	<0.1	21.3	9.5	255	2.42	8.2	1.3	7.7	4.2	24	<0.1	0.7	0.1	54	0.42	0.054
0114007	Soil	1.1	35.2	9.7	59	0.1	22.2	8.3	260	2.49	7.0	1.2	2.7	5.4	18	0.1	0.7	0.2	51	0.22	0.044
REP 0114007	QC	1.1	35.5	9.8	61	0.1	21.8	8.4	259	2.52	6.7	1.2	3.4	5.3	18	<0.1	0.7	0.2	50	0.21	0.043
0114013	Soil	1.3	23.6	11.2	70	0.2	18.0	10.7	428	2.98	10.9	1.0	3.3	3.2	21	0.2	1.3	0.3	56	0.22	0.066
REP 0114013	QC	1.4	23.5	11.2	68	0.2	18.6	10.8	425	2.95	10.6	1.0	4.2	3.2	21	0.2	1.3	0.2	54	0.22	0.065
109042	Soil	0.3	23.2	0.6	63	<0.1	14.1	14.7	544	3.63	0.6	0.3	2.5	1.4	15	<0.1	<0.1	<0.1	95	0.52	0.068
REP 109042	QC	0.3	23.0	0.6	63	<0.1	14.4	14.9	545	3.74	0.7	0.4	1.1	1.4	15	<0.1	<0.1	<0.1	97	0.53	0.067
109061	Soil	1.3	13.8	8.5	59	<0.1	12.1	17.7	983	3.13	7.6	0.5	2.3	3.0	14	<0.1	0.4	0.1	58	0.19	0.036
REP 109061	QC	1.4	14.6	9.2	61	<0.1	13.2	18.4	1014	3.22	7.6	0.6	0.7	2.9	14	<0.1	0.4	0.1	60	0.21	0.039
109083	Soil	0.7	19.6	7.1	55	<0.1	16.3	9.7	326	3.04	7.6	0.8	2.3	4.2	32	<0.1	0.5	0.1	54	0.33	0.036
REP 109083	QC	0.7	19.1	6.8	54	<0.1	16.2	9.7	322	2.98	7.3	0.7	1.4	4.1	32	<0.1	0.5	0.1	55	0.32	0.036
109091	Soil	2.2	129.3	6.6	130	<0.1	57.2	22.4	468	4.91	7.7	1.9	2.7	5.3	12	0.1	0.3	0.4	90	0.09	0.036
REP 109091	QC	2.4	124.3	6.7	129	<0.1	56.5	21.8	455	4.84	7.6	1.8	2.3	5.4	12	<0.1	0.3	0.4	91	0.09	0.036
109108	Soil	1.3	30.2	21.3	85	<0.1	24.6	5.9	152	2.12	6.2	2.3	2.2	6.2	25	<0.1	0.2	0.2	44	0.19	0.019
REP 109108	QC	1.2	30.1	20.3	86	<0.1	25.8	6.1	156	2.08	5.8	2.4	2.7	6.6	26	<0.1	0.2	0.2	43	0.19	0.021

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Project: Montana

Report Date: June 28, 2011

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QUALITY CONTROL REPORT

WHI11000231.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
0103078	Soil	14	23	0.40	283	0.026	<1	1.43	0.012	0.05	<0.1	0.03	3.1	<0.1	<0.05	4	0.8	<0.2
REP 0103078	QC	15	25	0.43	293	0.036	<1	1.61	0.014	0.05	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
0103095	Soil	35	24	0.74	261	0.167	<1	2.15	0.008	0.48	<0.1	<0.01	7.0	0.3	<0.05	10	0.5	<0.2
REP 0103095	QC	34	23	0.72	255	0.162	<1	2.11	0.008	0.48	<0.1	<0.01	7.2	0.3	<0.05	9	0.6	<0.2
111100	Soil	20	32	0.49	268	0.133	<1	1.78	0.010	0.30	0.1	0.02	3.6	0.2	0.07	6	<0.5	<0.2
REP 111100	QC	20	36	0.49	255	0.135	<1	1.61	0.011	0.27	0.1	0.02	3.8	0.3	0.06	6	<0.5	<0.2
0112093	Soil	22	90	1.84	1056	0.223	<1	3.59	0.017	1.24	0.2	0.02	10.0	0.8	<0.05	12	0.7	<0.2
REP 0112093	QC	22	92	1.82	1031	0.216	<1	3.61	0.017	1.17	0.1	0.02	9.8	0.8	<0.05	12	0.8	<0.2
0112101	Soil	14	28	0.44	239	0.065	<1	1.40	0.010	0.06	0.2	0.08	2.9	<0.1	0.11	4	<0.5	<0.2
REP 0112101	QC	14	25	0.44	236	0.065	2	1.42	0.013	0.07	0.2	0.06	2.8	<0.1	0.09	4	<0.5	<0.2
0113058	Soil	13	39	0.73	356	0.083	2	1.84	0.025	0.10	0.2	0.04	5.1	<0.1	0.07	5	<0.5	<0.2
REP 0113058	QC	14	40	0.79	350	0.083	2	1.94	0.028	0.10	0.2	0.04	5.1	<0.1	<0.05	5	0.5	<0.2
0113062	Soil	14	38	0.51	275	0.060	<1	1.54	0.017	0.05	0.2	0.08	4.4	<0.1	<0.05	4	<0.5	<0.2
REP 0113062	QC	14	38	0.50	281	0.063	3	1.55	0.016	0.05	0.2	0.08	4.5	<0.1	<0.05	4	0.6	<0.2
0114007	Soil	16	32	0.39	322	0.070	<1	1.37	0.009	0.08	0.1	0.04	4.2	0.2	<0.05	4	<0.5	<0.2
REP 0114007	QC	15	31	0.40	323	0.066	<1	1.37	0.010	0.07	0.1	0.03	3.9	0.1	<0.05	4	0.7	<0.2
0114013	Soil	12	26	0.41	284	0.058	2	1.67	0.009	0.05	0.2	0.10	2.6	0.1	0.06	6	<0.5	<0.2
REP 0114013	QC	12	26	0.41	286	0.060	1	1.70	0.009	0.05	0.2	0.12	2.8	0.1	<0.05	5	<0.5	<0.2
109042	Soil	19	37	0.98	404	0.203	<1	1.77	0.031	0.56	<0.1	<0.01	7.3	0.2	<0.05	7	<0.5	<0.2
REP 109042	QC	19	37	1.00	404	0.203	<1	1.78	0.032	0.57	<0.1	<0.01	7.6	0.2	<0.05	7	<0.5	<0.2
109061	Soil	6	25	0.51	242	0.106	<1	1.68	0.011	0.18	0.1	0.03	3.9	0.1	<0.05	7	<0.5	<0.2
REP 109061	QC	7	26	0.54	263	0.114	<1	1.81	0.012	0.18	0.1	0.03	4.2	0.2	<0.05	7	<0.5	<0.2
109083	Soil	11	27	0.68	426	0.092	<1	1.90	0.020	0.11	0.2	0.02	3.7	<0.1	<0.05	6	0.6	<0.2
REP 109083	QC	11	27	0.66	421	0.094	<1	1.87	0.021	0.12	<0.1	<0.01	4.0	<0.1	<0.05	6	0.6	<0.2
109091	Soil	17	64	0.79	330	0.187	<1	2.07	0.005	1.02	<0.1	<0.01	4.6	0.6	<0.05	7	<0.5	<0.2
REP 109091	QC	17	63	0.78	324	0.187	<1	2.04	0.006	1.02	0.1	0.01	4.7	0.7	<0.05	7	<0.5	0.2
109108	Soil	23	35	0.42	226	0.077	<1	1.41	0.005	0.45	<0.1	0.03	3.3	0.8	0.05	6	<0.5	<0.2
REP 109108	QC	24	33	0.42	227	0.092	<1	1.45	0.006	0.48	<0.1	0.05	3.5	0.7	0.05	6	<0.5	<0.2

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QUALITY CONTROL REPORT

WHI11000231.1

		1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
		0.1	0.1	0.1	1	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
0116024	Soil	0.3	25.3	5.2	55	<0.1	14.9	14.1	498	3.15	4.8	0.6	0.9	2.6	36	0.1	0.3	<0.1	58	0.73	0.061
REP 0116024	QC	0.5	25.0	5.1	54	<0.1	15.5	14.0	497	3.16	5.0	0.6	2.4	2.6	35	0.2	0.3	<0.1	58	0.78	0.060
0116043	Soil	0.9	36.3	16.8	63	1.4	24.3	5.4	241	2.46	11.6	5.1	6.7	4.5	85	0.4	0.3	0.4	45	0.63	0.108
REP 0116043	QC	1.0	36.1	16.8	61	1.4	24.9	5.4	238	2.46	11.2	4.8	7.6	4.7	87	0.3	0.3	0.4	44	0.61	0.112
100068	Soil	1.0	29.6	9.4	61	<0.1	20.6	9.6	226	2.75	6.4	1.5	4.0	6.2	17	<0.1	0.6	0.2	57	0.14	0.019
REP 100068	QC	0.9	29.2	9.5	60	<0.1	20.5	10.1	222	2.73	6.7	1.5	4.6	6.1	17	<0.1	0.7	0.2	56	0.14	0.018
100089	Soil	1.1	4.5	19.6	40	<0.1	4.5	2.1	242	1.42	7.5	6.0	1.7	37.0	4	0.1	1.1	0.3	11	0.03	0.016
REP 100089	QC	1.1	4.6	19.6	41	<0.1	4.7	2.2	252	1.48	8.2	6.1	1.6	37.3	4	<0.1	1.1	0.4	12	0.03	0.016
100092	Soil	1.2	37.2	20.9	63	0.2	26.5	9.4	285	3.09	12.6	4.5	2.8	15.0	21	<0.1	0.8	0.3	67	0.19	0.016
REP 100092	QC	1.3	35.9	20.6	59	0.2	26.7	9.0	277	2.95	11.8	4.4	2.3	14.4	21	<0.1	0.8	0.2	66	0.18	0.016
Reference Materials																					
STD DS8	Standard	13.3	110.9	122.2	308	1.7	36.9	7.5	592	2.34	26.2	2.7	124.3	6.7	66	2.4	5.7	6.1	42	0.66	0.081
STD DS8	Standard	13.3	122.3	123.4	338	1.7	41.4	8.4	680	2.65	27.9	2.7	98.2	6.9	73	2.4	5.6	6.0	47	0.72	0.078
STD DS8	Standard	15.1	120.8	132.3	346	1.8	41.8	8.1	677	2.69	28.6	2.9	112.9	7.1	74	2.7	6.5	7.2	47	0.74	0.087
STD DS8	Standard	14.8	121.8	135.9	334	1.9	41.5	8.4	670	2.71	28.2	2.8	111.7	7.1	75	2.4	6.2	6.9	47	0.74	0.090
STD DS8	Standard	13.7	111.9	118.5	320	1.9	39.4	7.7	623	2.46	25.1	2.5	111.7	6.3	58	2.4	5.2	5.6	44	0.69	0.080
STD DS8	Standard	13.6	117.0	122.8	324	1.8	40.0	8.1	627	2.54	26.5	2.5	105.5	6.5	60	2.3	5.1	5.7	45	0.74	0.082
STD DS8	Standard	13.4	108.1	121.6	314	1.7	36.9	7.5	601	2.41	27.2	2.7	103.8	6.9	71	2.4	5.7	6.2	42	0.70	0.081
STD DS8	Standard	14.4	102.6	115.8	324	1.8	37.7	7.4	629	2.54	27.0	2.7	117.0	7.3	72	2.5	5.8	6.3	42	0.71	0.080
STD DS8	Standard	12.9	104.2	119.3	317	1.7	38.3	7.1	602	2.45	26.3	2.8	98.8	6.6	77	2.2	5.8	6.3	41	0.67	0.081
STD DS8	Standard	12.3	103.6	108.7	310	1.7	36.1	6.9	603	2.31	25.4	2.6	100.8	6.5	74	2.0	5.5	5.9	40	0.69	0.077
STD DS8	Standard	13.5	111.0	122.3	306	1.7	39.3	7.7	590	2.41	24.9	2.7	105.5	6.5	56	2.3	4.7	5.8	41	0.66	0.077
STD DS8	Standard	13.7	112.1	122.2	308	1.7	37.7	7.9	599	2.40	24.9	2.7	111.2	6.7	57	2.2	4.7	5.7	42	0.66	0.076
STD DS8	Standard	13.0	112.6	118.1	314	1.7	37.8	7.5	619	2.48	25.7	2.6	110.7	6.4	57	2.2	4.9	5.4	42	0.69	0.083
STD DS8	Standard	13.0	110.4	117.3	307	1.6	36.7	7.7	588	2.35	25.2	2.6	104.4	6.7	57	2.0	4.7	5.6	42	0.67	0.081
STD DS8	Standard	13.4	118.4	122.8	345	1.8	42.0	8.0	646	2.71	30.0	2.6	113.0	6.2	70	2.4	6.2	6.3	44	0.71	0.085
STD DS8	Standard	14.3	124.8	129.8	363	1.9	44.3	8.5	685	2.83	31.7	2.8	119.4	6.6	73	2.6	6.5	6.7	47	0.75	0.089
STD DS8	Standard	13.3	116.8	129.5	336	1.9	39.3	8.0	626	2.56	27.8	2.9	130.9	7.0	68	2.4	5.9	7.0	44	0.70	0.084
STD DS8	Standard	13.2	115.6	127.6	324	1.9	41.0	7.9	627	2.45	27.0	2.8	120.6	6.7	65	2.2	5.6	6.5	44	0.67	0.079

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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
0116024	Soil	10	24	0.67	270	0.021	1	1.63	0.018	0.05	<0.1	0.03	7.5	<0.1	<0.05	5	<0.5	<0.2
REP 0116024	QC	10	24	0.66	273	0.022	2	1.60	0.019	0.05	<0.1	0.03	7.5	<0.1	<0.05	5	0.7	<0.2
0116043	Soil	51	31	0.26	553	0.007	3	1.95	0.007	0.12	<0.1	0.23	6.2	0.5	<0.05	9	1.8	<0.2
REP 0116043	QC	51	31	0.27	556	0.008	2	2.02	0.007	0.12	<0.1	0.24	6.0	0.4	<0.05	9	1.6	<0.2
100068	Soil	17	31	0.46	229	0.083	2	1.61	0.007	0.10	<0.1	0.04	4.6	0.1	0.07	5	0.8	<0.2
REP 100068	QC	17	31	0.46	233	0.083	2	1.59	0.007	0.09	<0.1	0.03	4.7	0.1	<0.05	5	0.6	<0.2
100089	Soil	15	5	0.04	106	0.002	4	0.68	0.002	0.04	<0.1	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
REP 100089	QC	15	5	0.05	105	0.003	4	0.72	<0.001	0.04	<0.1	0.02	1.0	0.2	<0.05	2	<0.5	<0.2
100092	Soil	34	37	0.49	353	0.061	<1	2.15	0.010	0.05	0.1	0.03	5.4	0.1	<0.05	6	0.6	<0.2
REP 100092	QC	34	36	0.49	347	0.056	<1	2.10	0.009	0.05	<0.1	0.03	5.1	<0.1	<0.05	6	0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	119	0.59	291	0.122	2	0.93	0.099	0.40	2.9	0.20	2.1	5.3	0.13	5	5.1	4.7
STD DS8	Standard	16	129	0.63	284	0.133	2	0.99	0.094	0.43	3.0	0.18	2.2	5.6	0.20	5	5.8	5.2
STD DS8	Standard	15	127	0.62	300	0.129	3	0.99	0.099	0.46	3.0	0.23	2.1	5.7	0.16	5	4.6	5.5
STD DS8	Standard	14	130	0.64	301	0.124	3	1.00	0.097	0.47	3.1	0.21	2.1	5.7	0.17	5	4.5	5.4
STD DS8	Standard	13	119	0.60	267	0.110	3	0.90	0.096	0.42	3.0	0.19	1.9	5.2	0.20	5	4.8	5.1
STD DS8	Standard	14	123	0.62	284	0.115	2	0.96	0.103	0.43	3.0	0.21	2.1	5.3	0.18	5	5.0	5.0
STD DS8	Standard	15	115	0.61	285	0.120	2	0.91	0.093	0.43	3.0	0.20	2.0	5.4	0.16	5	6.0	4.6
STD DS8	Standard	16	122	0.64	273	0.121	2	0.94	0.107	0.42	2.8	0.20	2.1	5.4	0.12	5	5.3	4.9
STD DS8	Standard	14	111	0.61	273	0.113	3	0.92	0.101	0.42	3.0	0.19	1.9	5.1	0.16	5	4.5	4.8
STD DS8	Standard	14	112	0.60	265	0.119	2	0.93	0.103	0.40	2.9	0.20	2.0	5.0	0.14	5	4.7	4.6
STD DS8	Standard	13	118	0.60	262	0.106	2	0.89	0.087	0.40	2.9	0.21	1.9	5.1	0.15	5	5.2	4.8
STD DS8	Standard	15	120	0.58	273	0.112	2	0.90	0.094	0.38	2.9	0.19	1.9	5.3	0.12	5	5.7	4.6
STD DS8	Standard	14	116	0.60	279	0.109	2	0.91	0.090	0.41	2.8	0.19	2.2	5.1	0.15	5	5.5	4.6
STD DS8	Standard	14	114	0.60	267	0.112	3	0.93	0.100	0.41	2.7	0.20	2.1	4.9	0.14	5	5.7	5.0
STD DS8	Standard	14	124	0.64	278	0.123	3	0.96	0.092	0.47	3.1	0.20	1.9	5.6	0.20	5	5.9	4.9
STD DS8	Standard	14	132	0.67	293	0.128	3	1.00	0.097	0.47	3.4	0.22	2.1	5.8	0.22	5	6.0	5.1
STD DS8	Standard	14	120	0.64	279	0.120	4	0.91	0.089	0.45	2.9	0.20	1.9	5.4	0.31	5	5.5	5.7
STD DS8	Standard	14	121	0.62	262	0.119	2	0.89	0.085	0.42	2.9	0.21	1.9	5.3	0.20	5	6.0	5.0



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Report Date: June 28, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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	11.6	104.4	124.3	310	1.8	36.3	7.1	576	2.31	27.5	2.5	120.5	6.0	55	2.3	5.1	6.3	39	0.62	0.091
STD DS8	Standard	12.0	106.6	123.2	315	1.9	37.4	7.3	592	2.38	27.9	2.6	124.3	6.1	57	2.4	5.2	6.4	41	0.65	0.092
STD DS8	Standard	14.7	124.0	129.0	352	1.8	41.8	8.3	648	2.62	28.8	2.8	103.0	6.8	63	2.6	5.7	5.7	42	0.72	0.092
STD DS8	Standard	14.1	115.9	128.2	344	1.8	39.2	8.1	668	2.68	32.1	2.9	109.2	7.2	72	2.8	5.9	6.4	43	0.73	0.095
STD DS8	Standard	14.1	118.4	124.1	331	1.8	40.2	7.5	618	2.45	25.2	2.8	108.9	6.9	67	2.3	5.6	6.3	46	0.67	0.078
STD DS8	Standard	13.7	123.0	121.2	333	1.8	42.5	8.5	616	2.47	26.7	2.8	114.0	7.0	65	2.5	5.7	6.4	46	0.63	0.076
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	0.03	<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: Montana

Report Date: June 28, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000231.1

		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
STD DS8	Standard	12	110	0.60	247	0.098	3	0.85	0.077	0.41	3.0	0.19	2.0	5.5	0.23	4	5.2	4.6
STD DS8	Standard	13	115	0.62	270	0.103	3	0.88	0.080	0.42	3.0	0.21	2.0	5.9	0.23	4	5.3	4.6
STD DS8	Standard	12	126	0.65	309	0.116	3	0.98	0.100	0.44	3.0	0.21	2.0	5.2	0.20	5	5.5	5.2
STD DS8	Standard	13	123	0.67	322	0.115	2	0.98	0.105	0.46	3.1	0.19	2.0	5.8	0.17	5	6.0	6.2
STD DS8	Standard	15	123	0.63	279	0.133	2	0.96	0.090	0.42	3.1	0.21	2.6	5.5	0.17	5	5.5	4.4
STD DS8	Standard	15	124	0.62	277	0.127	2	0.93	0.085	0.42	3.2	0.18	2.3	5.5	0.16	5	5.3	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 16, 2011
Report Date: July 02, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000232.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110612170842
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.

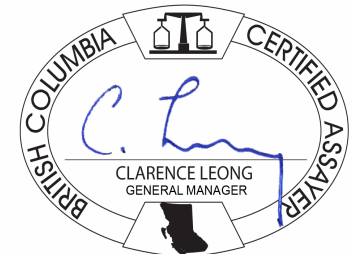
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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. ** 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: Montana
 Report Date: July 02, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000232.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
100101	Soil	1.2	45.8	9.2	70	0.3	39.9	9.0	227	2.62	10.5	7.2	4.2	7.2	18	<0.1	0.6	0.2	57	0.23	0.045
100102	Soil	2.5	105.9	13.5	158	0.3	45.9	10.8	338	5.33	4.0	1.9	0.9	6.9	39	0.2	0.2	0.3	121	0.14	0.067
100103	Soil	4.0	113.5	12.2	94	0.2	26.7	5.1	159	3.60	4.0	2.5	2.1	9.5	13	0.2	0.4	0.3	96	0.12	0.065
100104	Soil	6.0	86.4	19.3	257	0.3	85.8	15.5	505	3.62	18.3	2.1	2.2	6.8	24	1.0	1.3	0.3	88	0.06	0.079
100105	Soil	6.3	109.1	12.1	348	0.3	121.6	52.6	874	5.10	80.1	3.0	6.9	5.3	22	1.2	1.0	0.4	93	0.15	0.096
100106	Soil	3.2	70.3	13.4	168	0.2	59.5	12.9	326	3.68	18.2	4.1	5.1	4.3	14	0.3	0.6	0.3	68	0.06	0.041
100107	Soil	7.9	69.8	18.5	95	0.7	35.5	4.2	204	3.36	13.9	1.9	0.7	6.1	24	0.5	0.3	0.4	90	0.15	0.082
100108	Soil	2.8	65.9	14.2	127	0.3	30.2	7.1	164	3.67	9.5	1.7	1.9	9.3	15	0.2	0.1	0.3	89	0.13	0.052
100109	Soil	0.8	21.6	16.2	65	<0.1	19.8	8.3	248	3.22	7.1	2.8	2.5	35.8	17	<0.1	0.6	0.3	49	0.19	0.033
100110	Soil	1.1	20.6	15.8	59	<0.1	20.0	9.7	340	2.83	6.0	2.0	<0.5	20.2	21	<0.1	0.4	0.2	48	0.27	0.042
100111	Soil	1.5	28.9	12.6	64	0.1	28.4	9.3	326	2.54	9.6	1.4	<0.5	7.1	28	0.1	0.8	0.2	49	0.36	0.057
100055	Soil	0.6	16.5	7.3	59	<0.1	18.3	7.7	293	1.93	5.7	0.8	8.1	3.5	28	0.2	0.3	0.1	40	0.45	0.075
100056	Soil	0.6	21.8	8.2	68	<0.1	22.2	10.9	515	2.50	7.5	1.0	<0.5	4.0	28	0.2	0.5	0.2	46	0.46	0.074
100057	Soil	1.3	48.6	15.3	78	<0.1	23.8	8.5	126	2.85	2.2	1.6	1.8	10.2	9	<0.1	0.3	0.3	63	0.04	0.035
100058	Soil	1.2	39.2	10.8	53	<0.1	20.4	8.3	213	2.65	5.5	1.8	3.9	7.1	10	<0.1	0.4	0.2	59	0.07	0.020
100059	Soil	0.9	77.6	12.6	141	<0.1	45.9	12.3	973	4.36	0.6	3.5	2.4	21.6	10	<0.1	0.2	0.3	78	0.11	0.033
0103110	Soil	0.7	23.0	7.3	53	0.1	19.4	8.7	253	2.13	6.9	0.9	0.9	2.2	29	0.1	0.5	0.2	45	0.37	0.068
0103111	Soil	1.2	22.4	7.7	56	<0.1	18.0	10.2	261	2.50	7.3	0.7	1.7	3.0	41	0.1	0.4	0.1	56	0.37	0.059
0103112	Soil	1.2	29.7	9.3	54	<0.1	31.3	10.3	245	2.76	8.4	1.0	2.1	4.1	21	<0.1	0.5	0.2	56	0.28	0.023
107077	Soil	1.2	16.1	12.9	47	<0.1	19.8	7.0	230	2.50	7.7	0.8	0.6	6.5	20	<0.1	0.5	0.2	54	0.17	0.017
107078	Soil	1.2	25.8	13.7	44	<0.1	23.6	6.4	252	2.16	7.2	1.6	1.0	7.5	28	<0.1	0.7	0.2	43	0.27	0.020
107079	Soil	0.4	7.8	8.2	18	<0.1	6.6	2.7	102	0.94	2.8	0.7	<0.5	4.4	16	<0.1	0.2	0.1	23	0.19	0.018
107080	Soil	1.1	18.6	10.2	37	<0.1	19.6	6.3	209	2.01	6.5	0.8	<0.5	4.8	23	<0.1	0.4	0.2	42	0.27	0.029
107081	Soil	0.5	13.1	10.2	27	<0.1	10.7	4.6	232	1.25	3.5	0.9	3.0	4.8	22	<0.1	0.4	0.3	30	0.20	0.017
107082	Soil	0.6	7.5	8.0	24	<0.1	8.3	3.0	182	1.05	3.4	0.8	1.3	4.3	18	<0.1	0.3	0.1	27	0.14	0.007
107083	Soil	0.7	13.6	9.0	30	<0.1	12.2	2.8	179	1.20	4.1	1.1	<0.5	8.6	20	<0.1	0.3	0.3	23	0.21	0.013
107084	Soil	1.1	28.0	10.7	44	<0.1	23.3	8.1	261	2.45	10.2	1.1	6.1	7.0	27	<0.1	0.6	0.3	53	0.22	0.010
107085	Soil	0.9	12.6	10.7	39	<0.1	13.1	5.2	211	2.34	6.5	0.6	0.6	4.4	18	<0.1	0.5	0.2	58	0.14	0.011
107086	Soil	0.4	6.1	7.8	24	<0.1	7.1	1.9	170	0.88	2.8	2.4	<0.5	9.2	26	<0.1	0.2	<0.1	14	0.19	0.013
107087	Soil	0.8	6.5	8.3	31	<0.1	8.6	2.6	329	1.07	8.0	2.5	<0.5	10.5	30	<0.1	0.3	0.1	21	0.24	0.022

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.



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Project: Montana
 Report Date: July 02, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000232.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
100101	Soil	21	36	0.68	361	0.094	2	1.51	0.010	0.24	0.1	0.03	4.3	0.2	0.07	5	<0.5	<0.2
100102	Soil	25	149	2.28	1464	0.382	2	3.74	0.026	2.14	<0.1	<0.01	8.2	0.8	0.22	14	0.7	<0.2
100103	Soil	52	55	1.28	343	0.177	2	2.37	0.008	0.85	<0.1	<0.01	3.7	0.8	0.19	7	3.3	<0.2
100104	Soil	23	39	0.28	194	0.016	2	0.88	0.003	0.10	<0.1	0.12	3.2	0.4	0.12	3	1.4	<0.2
100105	Soil	17	50	0.39	434	0.044	2	1.15	0.004	0.13	<0.1	0.19	6.4	0.3	<0.05	4	3.3	<0.2
100106	Soil	12	28	0.11	216	0.007	2	0.53	0.002	0.05	<0.1	0.57	6.5	0.4	<0.05	2	1.8	<0.2
100107	Soil	25	58	0.93	393	0.089	<1	1.66	0.022	0.79	<0.1	0.03	2.0	0.5	0.44	6	3.8	<0.2
100108	Soil	32	55	1.17	459	0.186	1	2.27	0.022	1.03	<0.1	<0.01	3.5	0.7	0.13	7	1.0	<0.2
100109	Soil	97	29	0.56	189	0.126	<1	1.92	0.008	0.43	0.2	0.02	5.0	0.4	<0.05	8	<0.5	<0.2
100110	Soil	45	30	0.52	271	0.138	1	1.71	0.011	0.42	0.2	0.02	4.7	0.4	<0.05	8	<0.5	<0.2
100111	Soil	23	35	0.49	345	0.079	2	1.46	0.013	0.09	0.2	0.04	3.9	0.1	<0.05	5	<0.5	<0.2
100055	Soil	12	22	0.46	199	0.067	1	1.04	0.015	0.08	0.2	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
100056	Soil	15	27	0.52	265	0.082	2	1.22	0.015	0.14	0.2	0.04	3.0	0.1	0.06	4	<0.5	<0.2
100057	Soil	22	34	0.43	256	0.159	1	1.43	0.004	0.50	<0.1	0.03	3.9	0.4	<0.05	5	<0.5	<0.2
100058	Soil	18	33	0.41	187	0.081	1	1.54	0.008	0.14	<0.1	0.07	5.1	0.2	<0.05	5	<0.5	<0.2
100059	Soil	56	43	0.73	413	0.290	1	2.23	0.006	0.93	<0.1	0.04	5.4	1.0	<0.05	8	<0.5	<0.2
0103110	Soil	13	23	0.45	271	0.056	2	1.29	0.013	0.04	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
0103111	Soil	11	29	0.54	296	0.063	1	1.59	0.014	0.06	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
0103112	Soil	13	34	0.43	200	0.061	1	1.29	0.008	0.11	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
107077	Soil	15	31	0.42	247	0.056	<1	1.88	0.009	0.05	<0.1	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
107078	Soil	19	34	0.41	275	0.066	2	1.42	0.013	0.08	0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
107079	Soil	13	11	0.23	150	0.038	<1	0.68	0.012	0.04	<0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
107080	Soil	14	30	0.44	283	0.064	1	1.31	0.012	0.05	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
107081	Soil	14	17	0.30	196	0.058	<1	0.94	0.012	0.05	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
107082	Soil	14	13	0.22	183	0.040	<1	0.90	0.010	0.03	<0.1	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
107083	Soil	19	14	0.25	204	0.038	1	1.04	0.009	0.06	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
107084	Soil	20	36	0.47	359	0.072	<1	1.66	0.012	0.05	0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
107085	Soil	14	28	0.39	310	0.072	<1	1.68	0.015	0.04	0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
107086	Soil	20	10	0.23	165	0.023	<1	0.95	0.009	0.06	0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
107087	Soil	23	12	0.30	180	0.031	<1	1.09	0.010	0.06	0.2	0.01	2.0	0.3	<0.05	3	<0.5	<0.2

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
107088	Soil	0.8	9.4	10.8	50	<0.1	15.6	5.7	266	2.16	5.7	0.5	<0.5	3.0	33	0.1	0.4	0.2	56	0.22	0.021
107089	Soil	0.9	14.5	15.1	41	<0.1	21.6	4.7	259	1.46	2.7	1.7	<0.5	6.3	69	<0.1	0.3	<0.1	37	0.29	0.041
107090	Soil	0.8	10.3	10.4	50	<0.1	14.8	5.7	265	2.15	5.2	0.4	<0.5	2.4	31	0.1	0.4	0.1	56	0.22	0.020
107091	Soil	0.9	22.3	12.1	47	<0.1	23.6	8.5	210	2.63	11.6	0.6	<0.5	4.9	34	<0.1	0.5	0.2	61	0.23	0.017
107092	Soil	1.2	16.2	13.7	50	<0.1	22.3	7.0	229	2.53	8.6	0.6	0.8	4.2	45	0.1	0.6	0.2	61	0.28	0.017
107093	Soil	0.7	12.6	11.7	40	<0.1	19.4	5.0	259	1.62	2.8	1.7	<0.5	6.0	71	<0.1	0.2	0.1	29	0.44	0.030
108120	Soil	0.4	29.5	11.7	81	<0.1	27.7	11.1	499	3.45	2.7	1.2	9.2	15.3	17	<0.1	0.5	0.3	46	0.35	0.021
108121	Soil	0.8	28.8	14.9	70	<0.1	25.9	11.0	457	3.52	3.0	1.4	2.7	13.7	17	<0.1	0.5	0.3	45	0.28	0.022
108122	Soil	0.5	27.8	11.0	85	<0.1	26.6	15.6	411	3.77	0.8	1.0	7.5	9.9	13	<0.1	0.3	0.2	45	0.23	0.012
108123	Soil	0.8	44.7	12.9	61	<0.1	24.3	10.0	336	3.51	3.2	1.4	6.1	10.1	19	<0.1	0.6	0.3	48	0.28	0.031
108124	Soil	0.8	31.0	14.3	63	<0.1	26.4	9.9	500	3.34	5.5	1.3	3.9	11.0	20	<0.1	0.5	0.3	48	0.24	0.021
108125	Soil	0.4	25.3	13.8	73	<0.1	28.2	11.9	739	3.47	2.5	1.7	5.3	16.9	19	<0.1	0.3	0.3	46	0.28	0.039
108126	Soil	0.7	37.9	14.6	70	<0.1	25.6	8.6	508	4.18	2.4	1.9	10.3	12.5	14	<0.1	0.4	0.3	48	0.17	0.024
108127	Soil	0.5	32.5	22.3	73	<0.1	25.4	9.7	505	4.41	2.3	2.0	6.5	13.4	14	<0.1	0.3	0.3	45	0.18	0.039
108128	Soil	0.3	26.9	14.7	71	<0.1	21.8	10.1	365	2.97	5.0	1.4	11.3	15.8	12	<0.1	0.4	0.4	49	0.13	0.026
108129	Soil	0.3	24.0	16.6	76	<0.1	23.3	10.5	772	3.83	3.6	0.8	10.4	15.4	7	<0.1	0.4	0.4	81	0.08	0.020
108130	Soil	0.3	29.8	16.9	77	0.4	29.4	16.2	680	3.68	2.2	1.4	8.4	14.3	18	<0.1	0.2	0.3	89	0.60	0.052
108131	Soil	0.7	29.8	17.7	70	<0.1	27.7	11.9	463	3.13	1.4	1.2	6.9	11.7	11	0.1	0.3	0.4	37	0.23	0.033
108132	Soil	0.5	29.4	20.8	80	0.2	26.4	12.2	522	3.02	25.7	1.3	10.2	16.4	11	0.2	0.5	0.4	45	0.35	0.046
108133	Soil	0.8	28.4	19.5	71	0.1	27.7	11.7	530	3.24	26.0	1.4	8.0	14.4	11	<0.1	0.5	0.4	50	0.28	0.052
108134	Soil	<0.1	26.1	18.4	65	<0.1	24.8	15.0	903	3.50	1.3	0.8	6.3	9.8	10	<0.1	0.1	0.3	51	0.26	0.021
108135	Soil	1.1	37.4	12.3	109	0.1	42.4	12.6	179	3.52	2.8	1.1	5.1	7.3	11	<0.1	0.1	0.2	61	0.23	0.060
108136	Soil	2.1	73.9	15.0	180	<0.1	71.9	19.7	315	4.77	15.5	1.1	7.2	7.3	21	<0.1	0.3	0.3	86	0.17	0.071
108137	Soil	2.1	69.4	19.9	146	<0.1	39.6	15.5	435	4.40	3.9	1.2	4.0	11.1	11	<0.1	0.2	0.4	99	0.29	0.089
108138	Soil	0.9	32.9	23.1	94	<0.1	48.8	18.9	535	4.40	6.3	1.3	3.3	26.1	16	<0.1	0.2	0.6	82	0.28	0.032
108139	Soil	0.7	51.0	18.3	114	<0.1	43.6	17.5	267	3.83	5.3	2.5	5.4	18.7	10	<0.1	0.2	0.4	27	0.23	0.066
108140	Soil	0.8	45.0	19.3	103	<0.1	39.0	16.9	303	3.96	5.9	2.6	5.6	21.0	10	<0.1	0.2	0.3	31	0.25	0.064
108141	Soil	1.9	44.9	18.3	173	0.1	62.2	28.1	712	3.37	8.8	2.3	3.0	17.6	14	0.3	0.2	0.3	32	0.29	0.047
108143	Soil	3.9	38.2	13.5	115	0.3	30.9	5.1	166	3.63	7.9	1.8	2.3	9.9	13	0.4	0.4	0.4	81	0.16	0.051
108144	Soil	0.4	4.5	1.2	56	0.1	4.3	0.7	153	0.20	5.4	0.3	1.9	<0.1	281	1.2	0.1	<0.1	15	32.83	0.032

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 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
107088	Soil	11	27	0.37	331	0.042	<1	1.68	0.007	0.04	0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
107089	Soil	22	37	0.48	141	0.074	1	1.17	0.026	0.04	0.3	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
107090	Soil	10	27	0.37	316	0.045	<1	1.66	0.009	0.04	0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
107091	Soil	15	38	0.53	362	0.058	<1	2.09	0.009	0.05	0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
107092	Soil	12	38	0.49	366	0.057	2	2.04	0.009	0.06	0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
107093	Soil	17	30	0.49	160	0.028	<1	1.38	0.013	0.02	0.1	<0.01	2.5	<0.1	0.09	4	<0.5	<0.2
108120	Soil	20	47	0.77	225	0.086	<1	1.85	0.006	0.58	<0.1	0.01	6.5	0.4	<0.05	8	<0.5	<0.2
108121	Soil	31	46	0.65	283	0.052	<1	1.63	0.008	0.25	<0.1	0.01	7.7	0.2	<0.05	8	<0.5	<0.2
108122	Soil	27	44	0.70	230	0.057	<1	1.47	0.006	0.39	<0.1	<0.01	8.9	0.2	<0.05	9	<0.5	<0.2
108123	Soil	23	40	0.55	185	0.024	<1	1.41	0.005	0.19	<0.1	0.02	7.1	0.2	<0.05	6	<0.5	<0.2
108124	Soil	26	40	0.58	272	0.059	<1	1.54	0.007	0.21	<0.1	0.02	6.6	0.2	<0.05	7	<0.5	<0.2
108125	Soil	33	54	0.70	251	0.095	<1	1.62	0.006	0.57	<0.1	0.01	7.2	0.4	<0.05	8	<0.5	<0.2
108126	Soil	26	40	0.52	219	0.048	<1	1.31	0.004	0.29	<0.1	0.03	7.7	0.3	<0.05	8	0.5	<0.2
108127	Soil	24	40	0.58	205	0.060	<1	1.39	0.004	0.32	<0.1	0.03	7.8	0.3	<0.05	8	0.6	<0.2
108128	Soil	29	32	0.48	182	0.052	<1	1.12	0.004	0.26	<0.1	0.02	6.8	0.2	<0.05	8	<0.5	<0.2
108129	Soil	29	33	0.27	161	0.034	<1	0.66	0.004	0.20	<0.1	0.04	9.1	0.1	<0.05	6	<0.5	<0.2
108130	Soil	30	53	0.51	179	0.024	<1	1.41	0.006	0.35	<0.1	0.06	8.7	0.3	<0.05	7	<0.5	<0.2
108131	Soil	20	47	0.48	151	0.048	<1	1.26	0.005	0.39	<0.1	0.02	7.0	0.3	<0.05	8	0.6	<0.2
108132	Soil	33	42	0.62	200	0.062	<1	1.39	0.005	0.40	<0.1	0.03	7.3	0.3	<0.05	8	<0.5	<0.2
108133	Soil	30	40	0.53	188	0.049	<1	1.36	0.003	0.31	<0.1	0.02	8.1	0.3	<0.05	9	<0.5	<0.2
108134	Soil	20	36	0.94	147	0.048	<1	2.09	0.009	0.32	<0.1	0.01	5.8	0.3	<0.05	8	<0.5	<0.2
108135	Soil	22	41	0.75	168	0.114	<1	1.71	0.012	0.51	<0.1	<0.01	3.1	0.5	<0.05	6	0.8	<0.2
108136	Soil	14	54	0.84	216	0.098	<1	2.29	0.007	0.53	<0.1	<0.01	3.7	0.5	<0.05	8	0.7	<0.2
108137	Soil	30	46	1.08	447	0.214	<1	2.47	0.017	1.19	0.1	0.02	6.4	0.6	<0.05	10	1.3	<0.2
108138	Soil	109	223	1.97	559	0.201	<1	3.54	0.013	1.46	0.1	<0.01	10.5	0.8	<0.05	12	<0.5	<0.2
108139	Soil	68	31	0.95	184	0.131	<1	2.27	0.010	0.80	<0.1	<0.01	3.2	0.6	<0.05	8	<0.5	<0.2
108140	Soil	63	34	1.04	204	0.148	<1	2.32	0.011	0.94	<0.1	<0.01	3.7	0.6	<0.05	8	<0.5	<0.2
108141	Soil	70	32	0.85	225	0.135	<1	2.04	0.010	0.85	<0.1	<0.01	2.8	0.6	<0.05	7	<0.5	<0.2
108143	Soil	20	40	0.46	461	0.082	<1	1.24	0.002	0.50	<0.1	<0.01	3.4	0.5	0.11	5	2.0	0.2
108144	Soil	1	4	0.26	193	0.003	<1	0.12	0.002	<0.01	<0.1	<0.01	0.3	<0.1	0.12	<1	<0.5	0.3

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
108145	Soil	16.4	68.1	15.4	1471	3.6	129.2	6.3	843	3.52	18.8	4.0	19.9	3.0	110	7.5	4.8	0.2	993	10.53	0.408
108146	Soil	4.8	110.7	13.1	215	0.2	82.9	7.1	80	2.41	6.7	3.3	0.6	6.4	23	1.9	0.6	0.3	277	0.33	0.116
108147	Soil	0.9	53.0	17.4	131	<0.1	33.6	10.7	265	3.42	5.5	1.5	3.3	8.7	15	0.1	1.3	0.2	63	0.11	0.027
108148	Soil	0.7	22.3	18.6	236	<0.1	46.1	16.6	634	5.33	4.3	1.7	2.8	10.1	8	0.2	0.3	0.5	84	0.05	0.044
108149	Soil	0.7	31.4	17.0	197	<0.1	48.1	15.9	514	4.95	2.7	1.8	1.2	9.7	12	0.1	0.2	0.4	83	0.07	0.029
108150	Soil	0.9	38.1	14.1	107	<0.1	33.8	11.5	422	3.78	10.1	1.3	3.2	8.5	22	<0.1	0.7	0.2	61	0.19	0.025
108151	Soil	1.0	66.3	19.4	129	<0.1	33.0	12.8	499	4.01	6.1	1.7	2.8	9.1	7	<0.1	0.3	0.3	69	0.05	0.039
108152	Soil	1.2	29.8	14.5	101	<0.1	25.5	9.3	326	3.59	8.1	1.7	2.0	11.2	13	<0.1	0.6	0.2	60	0.09	0.022
108153	Soil	0.7	39.3	12.7	155	<0.1	35.0	10.3	436	4.04	2.4	1.9	2.4	8.5	10	0.1	0.3	0.2	57	0.06	0.035
108154	Soil	0.8	31.7	15.0	104	<0.1	22.7	6.8	292	3.05	3.2	1.6	3.3	8.7	10	0.1	0.4	0.1	44	0.05	0.021
108155	Soil	0.9	46.7	13.7	124	<0.1	33.9	10.9	257	3.96	4.2	1.2	3.7	8.3	9	0.1	0.3	0.4	88	0.06	0.024
108156	Soil	1.3	62.3	15.1	133	<0.1	40.4	15.3	279	4.44	8.1	1.8	5.7	8.3	13	0.1	0.5	0.4	81	0.10	0.039
108157	Soil	1.4	36.8	18.0	121	0.2	29.7	9.5	400	4.08	13.3	0.9	4.4	6.7	29	<0.1	0.4	0.4	84	0.07	0.025
108158	Soil	2.0	34.7	15.9	117	0.4	34.3	11.1	217	4.04	12.1	0.9	3.3	5.6	15	0.1	0.7	0.4	77	0.09	0.052
108159	Soil	1.3	40.6	20.3	150	<0.1	37.0	12.1	431	4.26	3.0	2.9	8.0	18.5	25	0.1	<0.1	0.4	91	0.18	0.058
108160	Soil	1.2	35.7	13.7	90	0.1	28.4	10.5	325	3.29	7.0	1.9	10.6	7.7	17	<0.1	0.4	0.3	55	0.19	0.052
108161	Soil	0.7	39.4	16.3	134	<0.1	29.6	9.1	393	3.43	4.8	2.0	5.1	16.5	12	0.1	0.2	0.3	57	0.11	0.038
108162	Soil	1.4	37.6	14.8	79	0.2	31.0	11.7	306	3.52	12.7	1.3	7.6	8.0	13	0.2	0.7	0.3	67	0.11	0.040
108163	Soil	1.1	38.6	20.2	118	<0.1	30.8	10.0	370	3.47	5.3	2.4	4.0	19.9	11	<0.1	0.1	0.3	51	0.12	0.043
108164	Soil	1.8	63.2	20.6	159	0.1	47.1	11.9	410	4.51	9.4	2.6	8.6	10.9	12	0.2	0.1	0.5	71	0.29	0.138
108165	Soil	1.8	68.2	19.5	164	<0.1	49.0	12.9	394	4.62	10.6	2.6	7.6	9.9	12	0.1	0.2	0.5	74	0.27	0.133
108166	Soil	1.2	43.5	13.0	115	<0.1	31.1	10.3	403	3.75	9.6	2.3	4.1	15.2	10	<0.1	0.3	0.3	61	0.10	0.049
108167	Soil	1.3	59.0	14.4	141	<0.1	41.5	12.9	405	4.37	5.8	2.0	5.4	16.8	12	<0.1	0.2	0.3	88	0.09	0.039
108168	Soil	0.7	25.9	14.9	96	<0.1	22.4	5.5	332	2.95	3.3	2.2	4.3	18.3	14	<0.1	0.2	0.2	37	0.12	0.021
108169	Soil	0.7	35.3	16.5	131	<0.1	30.5	10.3	477	3.73	4.5	1.8	4.4	18.2	12	<0.1	<0.1	0.2	52	0.24	0.089
108170	Soil	1.6	41.5	14.7	126	0.1	36.0	10.4	403	4.05	6.6	1.3	3.2	13.3	7	<0.1	0.2	0.7	62	0.07	0.043
108171	Soil	1.4	52.9	13.7	117	<0.1	35.7	10.5	309	3.54	22.6	1.4	2.3	9.9	12	0.1	0.3	0.4	86	0.18	0.071
108172	Soil	1.7	59.6	19.5	166	<0.1	46.8	12.4	253	4.41	13.3	2.4	8.3	11.6	14	<0.1	0.2	0.4	80	0.27	0.094
108173	Soil	2.1	40.5	19.9	90	0.3	27.6	9.1	506	3.35	8.7	2.6	11.2	4.7	14	0.1	0.7	0.3	65	0.15	0.079
108174	Soil	1.7	56.3	17.9	148	<0.1	48.1	14.1	335	4.84	10.0	2.1	6.8	10.6	20	<0.1	0.4	0.4	90	0.21	0.067

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Project: Montana
 Report Date: July 02, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
108145	Soil	12	78	0.94	490	0.036	5	1.31	0.019	0.14	0.4	0.41	3.1	0.7	0.19	5	15.4	0.3
108146	Soil	19	36	0.25	451	0.016	<1	0.85	0.002	0.11	0.2	0.03	3.3	0.2	<0.05	3	2.3	<0.2
108147	Soil	23	37	0.55	373	0.165	<1	1.70	0.007	0.53	<0.1	0.06	5.0	0.5	<0.05	6	0.6	<0.2
108148	Soil	23	49	0.65	501	0.255	<1	2.13	0.008	1.07	<0.1	0.04	6.2	1.0	<0.05	9	0.6	<0.2
108149	Soil	25	48	0.82	472	0.289	<1	2.41	0.007	1.30	<0.1	0.01	4.7	1.0	<0.05	9	1.0	<0.2
108150	Soil	21	35	0.53	477	0.117	<1	1.64	0.009	0.28	0.1	0.04	5.0	0.2	<0.05	6	0.6	<0.2
108151	Soil	22	39	0.59	298	0.210	<1	1.91	0.007	0.79	<0.1	0.02	5.1	0.7	<0.05	6	<0.5	<0.2
108152	Soil	30	36	0.60	271	0.162	<1	2.27	0.012	0.51	<0.1	<0.01	5.0	0.5	<0.05	7	<0.5	<0.2
108153	Soil	26	32	0.62	347	0.221	<1	1.86	0.008	1.08	<0.1	<0.01	4.2	0.7	<0.05	7	0.6	<0.2
108154	Soil	23	26	0.48	270	0.163	<1	1.68	0.004	0.68	<0.1	0.01	3.2	0.5	<0.05	5	<0.5	<0.2
108155	Soil	17	49	0.76	359	0.261	<1	2.55	0.008	0.94	<0.1	0.01	6.3	0.7	0.09	10	<0.5	<0.2
108156	Soil	23	47	0.74	345	0.231	<1	2.33	0.009	0.62	0.1	0.04	6.2	0.6	0.07	7	1.2	<0.2
108157	Soil	18	48	0.72	376	0.233	<1	2.68	0.008	0.77	<0.1	0.03	4.7	0.6	<0.05	9	<0.5	<0.2
108158	Soil	18	41	0.59	231	0.101	<1	2.24	0.010	0.29	0.2	0.02	3.0	0.3	<0.05	7	<0.5	<0.2
108159	Soil	49	56	0.91	500	0.298	<1	2.45	0.015	1.33	<0.1	0.01	4.9	0.8	<0.05	8	0.9	<0.2
108160	Soil	21	33	0.56	289	0.113	<1	1.71	0.007	0.32	0.1	0.04	4.6	0.3	<0.05	6	0.7	<0.2
108161	Soil	43	34	0.65	373	0.208	<1	1.89	0.006	0.92	<0.1	0.02	4.5	0.7	<0.05	7	<0.5	<0.2
108162	Soil	25	39	0.57	304	0.096	<1	2.27	0.007	0.23	0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
108163	Soil	45	30	0.57	299	0.172	<1	1.86	0.007	0.87	<0.1	0.01	3.6	0.6	<0.05	7	<0.5	<0.2
108164	Soil	25	43	0.72	374	0.202	<1	1.94	0.008	1.12	<0.1	0.02	4.7	0.6	<0.05	7	0.9	<0.2
108165	Soil	26	43	0.75	384	0.219	<1	2.07	0.009	1.14	<0.1	0.03	4.9	0.6	<0.05	7	0.9	<0.2
108166	Soil	48	35	0.57	392	0.189	<1	2.03	0.006	0.85	0.1	0.02	5.5	0.6	<0.05	8	0.6	<0.2
108167	Soil	43	53	0.83	376	0.282	<1	2.78	0.008	1.20	<0.1	0.01	5.4	0.8	<0.05	10	0.9	<0.2
108168	Soil	49	25	0.59	201	0.107	<1	1.94	0.006	0.63	<0.1	0.02	3.8	0.5	<0.05	7	0.5	<0.2
108169	Soil	51	32	0.67	427	0.239	<1	2.04	0.008	1.09	<0.1	0.01	2.6	0.7	<0.05	7	0.6	<0.2
108170	Soil	31	36	0.66	275	0.236	<1	2.26	0.006	1.06	<0.1	0.02	3.3	0.8	<0.05	8	0.8	<0.2
108171	Soil	26	45	0.57	252	0.159	<1	2.25	0.006	0.67	<0.1	0.01	4.7	0.5	<0.05	8	1.0	<0.2
108172	Soil	35	48	0.81	392	0.208	<1	2.25	0.010	1.16	<0.1	0.03	5.6	0.7	<0.05	8	0.7	<0.2
108173	Soil	36	33	0.38	246	0.079	<1	1.55	0.006	0.32	<0.1	0.06	3.3	0.3	<0.05	7	<0.5	<0.2
108174	Soil	30	52	0.77	327	0.181	<1	2.24	0.008	0.87	0.1	0.03	6.8	0.7	<0.05	8	1.0	<0.2

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 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
108175	Soil			1.9	45.9	19.4	136	<0.1	39.7	17.8	971	4.56	10.1	1.7	4.1	10.3	9	<0.1	0.7	0.4	81	0.13	0.097
108176	Soil			1.1	29.6	11.5	74	<0.1	23.1	7.8	285	2.93	6.7	1.3	7.8	6.0	15	<0.1	0.7	0.2	57	0.16	0.033
108177	Soil			1.4	25.3	12.6	72	0.1	21.7	7.8	319	2.91	8.2	1.2	7.0	7.0	16	0.1	0.8	0.2	55	0.16	0.047
108178	Soil			1.4	29.1	12.3	75	<0.1	22.6	7.7	369	2.83	8.4	1.4	8.0	6.4	22	<0.1	0.7	0.2	53	0.25	0.051
108179	Soil			1.0	27.7	10.4	65	0.1	21.3	7.3	291	2.60	7.8	1.3	5.3	5.8	24	<0.1	0.7	0.2	48	0.29	0.055
108180	Soil			1.0	21.3	9.5	63	0.1	19.7	8.3	369	2.37	8.8	0.9	6.5	4.3	31	0.2	0.7	0.2	49	0.42	0.061
107094	Soil			0.7	16.2	7.2	45	<0.1	12.7	7.7	454	1.90	6.7	0.7	1.1	3.0	26	0.2	0.5	0.1	35	0.45	0.068
115022	Soil			2.0	29.5	11.6	46	0.1	29.1	11.0	158	2.93	8.8	0.7	2.1	2.5	14	0.1	0.6	0.2	61	0.09	0.042
115023	Soil			1.0	49.3	11.4	105	<0.1	36.6	10.9	147	3.57	2.9	1.7	11.5	8.9	9	<0.1	0.7	0.3	73	0.04	0.034
115024	Soil			1.9	54.5	10.8	75	0.1	23.0	11.8	486	2.59	1.7	2.2	2.3	7.7	13	<0.1	0.4	0.3	52	0.03	0.032
115025	Soil			1.6	36.5	9.0	44	<0.1	18.0	10.3	420	2.44	6.1	1.6	1.1	5.2	13	<0.1	0.4	0.2	53	0.10	0.030
115026	Soil			1.0	38.4	40.4	55	<0.1	22.4	9.4	219	2.36	6.6	1.3	3.6	6.8	11	<0.1	0.7	0.2	47	0.08	0.019
115027	Soil			1.3	30.5	11.8	42	0.4	17.5	8.0	345	2.15	6.2	1.1	1.0	1.3	22	0.4	0.8	0.2	46	0.18	0.077
115028	Soil			1.0	26.5	11.0	55	0.1	18.2	6.4	252	2.16	10.7	0.9	2.8	3.6	16	<0.1	2.4	0.2	46	0.15	0.037
115029	Soil			1.0	28.6	10.9	61	0.1	19.5	7.1	247	2.44	9.2	1.2	2.4	3.9	19	0.1	1.9	0.2	46	0.19	0.043
115030	Soil			1.1	26.5	10.0	53	0.1	16.2	6.4	223	2.20	8.6	1.0	5.6	3.9	18	0.1	1.8	0.2	43	0.20	0.047
115031	Soil			0.9	26.2	9.6	61	<0.1	19.5	7.4	221	2.41	8.8	1.0	3.5	3.3	22	<0.1	1.1	0.2	47	0.25	0.055
115032	Soil			1.1	29.7	10.6	52	0.1	14.7	5.8	193	2.16	10.1	1.2	3.2	3.6	18	0.2	2.7	0.2	45	0.18	0.049
115033	Soil			1.1	24.1	9.9	60	0.1	17.6	6.6	226	2.31	8.9	1.0	3.4	3.6	22	0.2	1.4	0.2	47	0.24	0.051
115034	Soil			1.3	28.7	11.3	45	0.1	13.8	5.5	193	2.20	9.1	0.9	3.5	3.1	22	0.2	5.5	0.2	43	0.18	0.046
115035	Soil			1.0	30.9	9.8	59	0.2	19.2	10.1	303	2.49	9.2	1.2	3.4	1.6	24	0.2	1.7	0.2	49	0.23	0.060
115036	Soil			1.3	28.1	12.7	61	0.2	19.0	8.6	260	2.71	10.1	1.0	5.6	3.9	21	<0.1	2.0	0.3	55	0.20	0.051
115037	Soil			0.9	27.0	9.0	57	0.1	17.9	6.8	193	2.41	8.4	1.1	5.5	4.6	22	0.1	2.2	0.2	43	0.22	0.049
115038	Soil			1.1	26.2	10.3	60	0.2	18.7	7.4	203	2.49	9.1	0.9	2.8	3.4	24	0.1	1.4	0.2	51	0.24	0.051
115039	Soil			0.9	24.5	8.5	62	<0.1	18.1	7.7	229	2.28	7.4	0.9	5.1	3.8	22	0.1	1.2	0.2	44	0.24	0.052
115040	Soil			1.1	31.4	8.6	59	<0.1	21.5	7.7	227	2.30	7.6	1.0	2.1	4.3	24	<0.1	1.1	0.2	45	0.24	0.050
115041	Soil			1.1	29.9	10.1	80	<0.1	23.7	10.2	355	2.80	7.7	0.8	5.5	4.9	19	0.2	1.4	0.2	52	0.20	0.059
115042	Soil			0.7	23.0	8.3	56	0.1	17.5	7.6	213	2.33	7.4	0.9	3.2	3.6	20	<0.1	0.9	0.1	47	0.22	0.053
115043	Soil			0.9	27.3	9.9	73	<0.1	20.8	8.0	220	2.63	7.2	1.0	4.0	4.9	16	<0.1	0.8	0.2	51	0.21	0.065
115044	Soil			1.2	35.1	12.6	99	0.1	28.9	10.5	251	3.28	7.8	1.3	5.4	6.4	19	0.1	0.9	0.2	60	0.27	0.086

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
108175	Soil	26	45	0.60	227	0.167	<1	2.50	0.007	0.58	0.1	0.02	3.9	0.5	<0.05	8	0.5	<0.2
108176	Soil	20	30	0.44	284	0.126	<1	1.54	0.008	0.24	0.1	0.03	3.5	0.2	<0.05	6	<0.5	<0.2
108177	Soil	19	30	0.40	241	0.114	<1	1.64	0.008	0.17	0.2	0.03	3.6	0.2	<0.05	6	<0.5	<0.2
108178	Soil	21	29	0.43	306	0.097	<1	1.53	0.009	0.15	0.2	0.05	4.1	0.1	<0.05	5	<0.5	<0.2
108179	Soil	18	27	0.45	310	0.089	<1	1.46	0.016	0.13	0.2	0.05	3.6	0.1	<0.05	5	<0.5	<0.2
108180	Soil	15	25	0.46	332	0.061	1	1.30	0.016	0.07	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
107094	Soil	10	15	0.32	181	0.041	<1	0.85	0.018	0.05	0.1	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
115022	Soil	15	32	0.30	261	0.055	<1	1.67	0.005	0.11	0.1	0.02	2.3	0.2	<0.05	6	<0.5	<0.2
115023	Soil	21	43	0.59	335	0.188	<1	1.70	0.008	0.70	<0.1	0.02	5.6	0.7	<0.05	7	<0.5	<0.2
115024	Soil	23	32	0.34	247	0.088	<1	1.31	0.007	0.34	<0.1	0.03	5.8	0.4	<0.05	5	0.7	<0.2
115025	Soil	14	29	0.27	255	0.045	1	1.25	0.004	0.06	0.1	0.05	4.4	<0.1	<0.05	4	0.5	<0.2
115026	Soil	18	29	0.27	211	0.050	<1	1.26	0.005	0.05	<0.1	0.10	5.5	<0.1	<0.05	4	<0.5	<0.2
115027	Soil	12	23	0.23	306	0.058	2	1.73	0.010	0.04	0.1	0.07	2.6	0.2	<0.05	6	<0.5	<0.2
115028	Soil	13	26	0.35	177	0.055	1	1.22	0.008	0.05	0.2	0.18	3.1	0.2	<0.05	4	0.7	<0.2
115029	Soil	14	30	0.40	208	0.058	1	1.35	0.009	0.06	0.1	0.22	4.0	0.1	<0.05	5	0.9	<0.2
115030	Soil	13	27	0.34	247	0.056	1	1.13	0.009	0.05	0.2	0.16	3.7	<0.1	0.07	4	0.6	<0.2
115031	Soil	15	28	0.40	268	0.057	<1	1.43	0.011	0.04	0.2	0.08	3.4	<0.1	0.05	5	0.6	<0.2
115032	Soil	14	25	0.31	293	0.051	1	1.22	0.007	0.05	0.1	0.11	3.7	0.4	<0.05	4	0.5	<0.2
115033	Soil	14	28	0.38	281	0.056	1	1.39	0.010	0.04	0.2	0.09	3.2	0.1	<0.05	5	<0.5	<0.2
115034	Soil	12	24	0.27	809	0.045	<1	1.04	0.008	0.04	0.2	0.09	2.9	0.2	<0.05	4	0.7	<0.2
115035	Soil	14	27	0.35	568	0.045	<1	1.54	0.011	0.05	0.2	0.11	3.7	0.1	0.06	5	<0.5	<0.2
115036	Soil	14	31	0.41	494	0.061	<1	1.71	0.008	0.07	0.2	0.10	3.6	0.2	<0.05	6	<0.5	<0.2
115037	Soil	16	28	0.40	462	0.073	<1	1.32	0.010	0.10	0.2	0.14	3.6	0.2	<0.05	5	<0.5	<0.2
115038	Soil	14	30	0.39	378	0.052	<1	1.47	0.009	0.04	0.2	0.08	3.4	0.1	<0.05	5	<0.5	<0.2
115039	Soil	15	29	0.36	309	0.057	<1	1.21	0.009	0.04	0.2	0.08	3.8	0.1	<0.05	4	<0.5	<0.2
115040	Soil	16	30	0.37	308	0.058	<1	1.17	0.009	0.06	0.2	0.06	3.9	<0.1	<0.05	4	0.5	<0.2
115041	Soil	15	31	0.36	248	0.069	1	1.15	0.007	0.13	0.2	0.03	3.0	0.1	<0.05	5	<0.5	<0.2
115042	Soil	15	27	0.37	261	0.057	<1	1.24	0.008	0.07	0.2	0.03	3.0	<0.1	<0.05	4	0.6	<0.2
115043	Soil	17	28	0.40	241	0.083	<1	1.29	0.007	0.17	0.1	0.01	2.9	0.1	<0.05	5	0.7	<0.2
115044	Soil	21	37	0.53	310	0.106	<1	1.68	0.008	0.34	0.2	0.03	3.6	0.2	<0.05	6	<0.5	<0.2

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
115045	Soil	1.2	40.4	10.5	143	<0.1	38.4	13.1	282	3.93	8.3	1.3	2.9	7.6	15	0.1	0.4	0.2	76	0.30	0.123
115046	Soil	1.0	25.9	10.7	102	<0.1	27.3	10.0	208	3.47	7.7	0.9	1.6	5.6	14	<0.1	0.6	0.3	64	0.22	0.075
115047	Soil	1.3	29.9	11.6	99	0.1	28.4	9.7	247	3.28	7.9	1.2	1.7	5.6	18	0.1	0.6	0.3	64	0.22	0.068
115048	Soil	1.3	33.8	12.5	94	0.1	26.3	9.2	254	3.11	8.2	1.4	4.5	5.9	18	0.1	0.6	0.2	59	0.27	0.096
115049	Soil	1.0	34.7	10.9	95	0.1	25.9	9.6	232	3.12	8.1	1.6	4.2	6.7	18	0.1	0.6	0.2	60	0.24	0.080
120001	Soil	2.3	70.3	19.7	200	<0.1	51.6	15.4	267	5.65	19.4	3.4	11.7	9.2	11	0.2	0.2	0.4	86	0.07	0.090
120002	Soil	0.8	18.1	7.6	112	<0.1	24.2	7.0	284	3.54	5.3	2.4	2.5	14.6	13	<0.1	0.3	0.2	31	0.03	0.036
120003	Soil	0.9	29.0	9.1	145	<0.1	33.2	9.7	447	4.37	3.9	1.1	0.6	4.1	6	0.3	0.2	0.1	71	0.02	0.055
120004	Soil	1.3	47.8	12.2	103	<0.1	36.4	12.6	406	3.47	10.7	1.1	5.7	5.8	23	<0.1	1.2	0.2	71	0.14	0.032
120005	Soil	1.4	45.9	15.8	53	<0.1	15.0	8.8	192	2.28	7.7	2.0	1.5	10.2	18	<0.1	3.4	0.2	50	0.05	0.023
120006	Soil	1.0	28.9	12.7	58	<0.1	12.4	13.2	345	2.01	6.9	1.8	3.2	13.5	11	<0.1	2.9	0.2	35	0.02	0.021
120007	Soil	0.9	32.8	11.9	59	<0.1	23.4	9.8	246	2.78	9.8	1.3	2.0	5.9	17	<0.1	0.8	0.2	59	0.14	0.015
120008	Soil	0.7	45.4	14.8	125	<0.1	34.8	15.5	404	3.72	3.7	1.8	2.9	9.8	12	0.1	0.8	0.2	86	0.04	0.024
120009	Soil	0.9	40.9	14.8	123	<0.1	33.7	10.8	282	3.49	6.7	1.6	1.2	7.8	13	<0.1	0.5	0.2	88	0.07	0.021
120010	Soil	1.4	39.5	14.3	89	0.2	32.4	11.0	267	3.34	9.0	1.6	9.0	8.0	10	<0.1	0.8	0.2	71	0.06	0.023
120011	Soil	1.0	49.3	15.0	135	0.1	40.1	14.6	273	3.95	5.9	2.1	2.3	8.4	11	<0.1	0.5	0.2	81	0.05	0.027
120012	Soil	1.2	39.2	14.0	92	<0.1	34.5	12.5	363	3.58	10.7	1.6	3.3	7.2	20	<0.1	0.7	0.2	73	0.16	0.021
120013	Soil	1.2	32.5	13.3	75	0.2	24.7	8.4	185	3.04	7.7	1.1	1.3	5.2	12	<0.1	0.8	0.2	71	0.09	0.025
120014	Soil	0.9	57.2	15.7	148	<0.1	37.3	13.7	370	4.26	3.1	1.6	2.7	6.4	13	<0.1	0.4	0.3	95	0.06	0.038
120015	Soil	1.0	36.2	11.9	81	0.1	31.8	10.6	314	3.16	10.5	1.4	5.2	6.0	18	<0.1	0.7	0.2	68	0.15	0.022
120016	Soil	0.8	26.4	13.3	172	<0.1	53.9	13.2	209	4.16	1.9	1.3	2.6	4.4	7	0.1	0.3	0.3	98	0.06	0.041
120017	Soil	1.5	31.9	15.0	96	0.2	27.5	10.5	298	3.41	5.7	1.4	9.8	7.8	9	0.2	0.5	0.3	68	0.06	0.032
120018	Soil	1.1	21.7	13.4	78	0.3	20.3	6.9	183	2.77	6.1	1.0	6.9	6.1	11	0.2	0.6	0.3	64	0.08	0.030
120019	Soil	0.8	40.7	11.7	114	0.2	32.9	8.5	242	3.61	4.3	2.0	9.0	12.9	6	<0.1	0.4	0.2	50	0.05	0.018
120020	Soil	1.5	43.4	15.1	128	0.2	29.1	12.2	264	3.42	6.4	2.1	6.5	9.7	8	0.2	1.7	0.3	70	0.05	0.047
120021	Soil	0.9	36.9	10.8	72	0.2	29.4	9.6	202	2.97	6.3	4.1	7.1	7.6	12	<0.1	0.7	0.2	62	0.10	0.023
120022	Soil	1.3	46.9	13.2	91	0.1	36.0	10.8	182	3.87	6.1	1.4	2.4	6.5	10	<0.1	1.3	0.2	94	0.07	0.029
120023	Soil	1.2	44.5	14.0	101	0.2	38.1	12.1	205	3.93	6.3	1.1	1.7	5.5	14	<0.1	1.2	0.2	97	0.10	0.045
120024	Soil	1.5	67.2	13.1	119	<0.1	45.9	13.9	253	4.83	4.0	1.9	11.4	6.1	11	<0.1	1.1	0.3	134	0.07	0.046
120025	Soil	1.8	35.3	11.9	78	0.2	33.5	14.5	344	3.47	7.3	0.8	<0.5	4.5	12	<0.1	0.7	0.3	83	0.11	0.039

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 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
115045	Soil	24	46	0.71	329	0.203	<1	2.03	0.008	0.84	0.1	0.01	3.7	0.6	<0.05	7	0.7	<0.2
115046	Soil	19	35	0.56	255	0.141	<1	1.72	0.006	0.36	0.1	0.01	3.1	0.4	<0.05	6	<0.5	<0.2
115047	Soil	22	37	0.51	281	0.121	<1	1.74	0.008	0.32	0.1	0.04	3.4	0.3	<0.05	7	<0.5	<0.2
115048	Soil	23	34	0.47	275	0.114	<1	1.54	0.007	0.34	0.1	0.03	3.2	0.3	<0.05	6	0.6	<0.2
115049	Soil	23	36	0.54	257	0.135	<1	1.65	0.010	0.36	0.1	0.04	3.5	0.3	<0.05	6	0.7	<0.2
120001	Soil	19	47	0.70	383	0.262	<1	2.12	0.009	1.16	<0.1	0.02	5.2	0.8	<0.05	8	4.2	<0.2
120002	Soil	30	17	0.23	127	0.051	<1	1.31	0.006	0.32	<0.1	0.03	4.7	0.6	<0.05	7	0.8	<0.2
120003	Soil	10	34	0.43	372	0.216	<1	1.80	0.006	0.85	<0.1	<0.01	5.8	0.6	<0.05	8	<0.5	<0.2
120004	Soil	19	40	0.59	385	0.130	<1	1.92	0.009	0.21	0.1	0.11	5.9	0.4	<0.05	6	<0.5	<0.2
120005	Soil	25	24	0.25	214	0.076	<1	1.09	0.004	0.15	<0.1	0.07	4.1	0.4	<0.05	5	0.9	<0.2
120006	Soil	29	17	0.21	166	0.066	<1	0.94	0.002	0.17	<0.1	0.23	3.7	0.5	<0.05	4	0.7	<0.2
120007	Soil	20	36	0.47	294	0.075	<1	1.74	0.009	0.08	0.1	0.05	4.7	0.1	<0.05	5	0.5	<0.2
120008	Soil	26	50	0.59	386	0.240	<1	1.94	0.005	0.85	<0.1	0.04	6.6	0.6	<0.05	8	<0.5	<0.2
120009	Soil	23	48	0.56	351	0.233	<1	1.99	0.007	0.60	<0.1	0.02	5.4	0.5	<0.05	7	0.6	<0.2
120010	Soil	19	42	0.48	252	0.117	<1	2.13	0.006	0.21	0.1	0.05	5.2	0.3	<0.05	6	<0.5	<0.2
120011	Soil	23	49	0.65	309	0.231	<1	2.20	0.009	0.62	<0.1	0.03	5.8	0.6	<0.05	7	<0.5	<0.2
120012	Soil	25	43	0.62	401	0.146	<1	2.05	0.010	0.22	0.1	0.05	5.9	0.2	<0.05	7	<0.5	<0.2
120013	Soil	17	38	0.45	251	0.123	<1	1.73	0.006	0.20	0.1	0.03	3.3	0.2	<0.05	6	<0.5	<0.2
120014	Soil	17	53	0.82	448	0.309	<1	2.33	0.010	0.93	<0.1	0.02	5.9	0.6	<0.05	9	1.3	<0.2
120015	Soil	18	42	0.55	336	0.136	1	1.68	0.010	0.19	0.1	0.04	5.3	0.2	<0.05	6	<0.5	<0.2
120016	Soil	12	60	0.84	534	0.328	2	2.33	0.012	1.19	<0.1	0.02	6.2	0.7	<0.05	8	<0.5	<0.2
120017	Soil	21	40	0.52	207	0.147	2	2.07	0.005	0.45	<0.1	0.03	3.8	0.4	<0.05	6	0.6	<0.2
120018	Soil	19	35	0.49	205	0.131	2	1.65	0.006	0.32	0.1	0.02	3.0	0.3	<0.05	6	<0.5	<0.2
120019	Soil	25	29	0.49	136	0.135	2	1.81	0.006	0.53	<0.1	0.04	4.8	0.5	<0.05	6	0.9	<0.2
120020	Soil	25	41	0.48	208	0.176	3	1.65	0.006	0.57	<0.1	0.12	5.2	0.5	<0.05	5	0.7	<0.2
120021	Soil	25	36	0.49	246	0.121	1	1.85	0.007	0.25	0.1	0.05	5.7	0.3	<0.05	6	0.8	<0.2
120022	Soil	19	53	0.65	231	0.211	1	2.05	0.007	0.57	<0.1	0.05	5.6	0.5	<0.05	7	0.7	<0.2
120023	Soil	17	56	0.70	287	0.215	2	2.29	0.009	0.56	<0.1	0.04	4.5	0.5	<0.05	7	0.8	<0.2
120024	Soil	18	77	0.92	248	0.367	1	2.66	0.009	0.99	0.1	0.06	7.9	0.7	<0.05	10	1.2	<0.2
120025	Soil	14	46	0.60	211	0.186	1	2.01	0.008	0.42	0.1	<0.01	4.0	0.3	<0.05	7	1.3	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
120026	Soil	1.4	26.2	10.5	68	0.2	29.0	13.1	399	3.40	8.7	0.7	0.9	4.0	14	<0.1	0.7	0.2	85	0.13	0.036
120027	Soil	1.3	29.0	12.4	58	0.2	30.9	11.6	293	3.18	9.1	1.1	<0.5	5.8	17	0.1	0.8	0.2	73	0.14	0.022
120028	Soil	1.2	39.5	11.3	79	<0.1	39.0	17.1	425	4.36	6.1	1.4	12.1	9.2	15	<0.1	0.8	0.3	82	0.16	0.031
120029	Soil	1.2	35.4	13.8	111	<0.1	37.2	16.9	320	4.09	6.0	1.1	3.7	8.2	15	<0.1	0.7	0.2	75	0.16	0.018
120030	Soil	1.1	40.2	14.8	75	<0.1	32.0	11.7	266	3.22	8.9	1.1	9.1	6.5	20	<0.1	1.1	0.2	66	0.23	0.018
120031	Soil	1.5	38.9	13.0	82	<0.1	35.2	14.5	280	3.96	6.5	1.0	5.2	7.4	17	0.1	0.8	0.2	78	0.19	0.024
120032	Soil	1.4	40.5	12.3	74	<0.1	31.9	11.4	316	3.36	8.9	0.8	6.8	6.0	23	<0.1	1.1	0.2	66	0.29	0.038
120033	Soil	1.1	36.3	11.8	76	0.1	29.7	10.8	333	3.33	8.3	1.1	4.7	5.7	25	0.1	1.5	0.2	66	0.33	0.035
120034	Soil	1.4	40.5	12.9	76	0.1	33.2	12.2	331	3.60	9.0	1.3	5.4	6.5	21	0.1	1.7	0.2	72	0.29	0.033
120035	Soil	1.2	33.2	9.5	72	0.1	31.0	11.5	494	2.58	11.8	0.6	1.9	4.9	59	0.5	0.9	0.2	48	1.84	0.079
120036	Soil	0.8	35.6	9.0	68	0.1	29.4	10.0	424	2.53	10.3	0.6	2.4	4.1	41	0.3	0.7	0.1	50	1.01	0.081
120037	Soil	0.9	30.3	9.7	70	0.1	27.5	10.6	402	2.49	10.2	0.5	4.8	4.3	34	0.2	0.7	0.2	52	0.65	0.079
120038	Soil	1.2	34.6	10.7	72	0.1	29.9	12.0	445	2.79	11.6	0.6	<0.5	4.3	48	0.3	1.0	0.2	59	0.97	0.066
120039	Soil	1.3	21.5	9.3	58	0.1	22.4	10.6	288	2.64	7.1	1.0	2.7	5.2	20	0.1	0.4	0.1	53	0.29	0.057
120040	Soil	1.3	31.2	9.1	64	0.1	30.0	12.1	305	3.09	6.4	1.2	3.3	4.9	24	0.1	0.4	0.3	66	0.32	0.054
120041	Soil	1.3	34.5	10.6	66	0.1	32.9	13.5	325	3.28	7.3	1.2	1.4	3.8	27	0.2	0.5	0.2	67	0.36	0.057
120042	Soil	1.6	33.6	7.4	75	0.2	27.2	13.9	468	4.31	4.9	0.7	6.2	4.0	22	<0.1	0.3	0.1	90	0.22	0.052
118001	Soil	1.3	62.4	18.3	133	<0.1	52.0	22.4	510	7.69	5.3	2.3	1.9	17.5	9	0.2	0.3	0.4	70	0.16	0.168
118002	Soil	0.7	44.3	12.0	92	<0.1	48.0	16.6	554	6.15	3.7	1.7	4.8	21.8	9	<0.1	0.3	0.3	77	0.10	0.017
118003	Soil	0.8	49.1	11.9	94	<0.1	47.3	22.0	351	5.48	4.9	1.0	0.6	8.3	10	<0.1	0.3	0.3	70	0.12	0.026
118004	Soil	1.1	41.8	13.1	92	<0.1	48.2	20.6	372	5.21	6.9	1.0	<0.5	8.1	11	<0.1	0.4	0.2	75	0.10	0.029
118005	Soil	1.7	50.3	14.3	79	<0.1	43.7	15.5	435	4.56	6.4	1.8	5.0	8.6	17	<0.1	0.6	0.2	75	0.21	0.023
118006	Soil	1.4	51.9	14.0	81	0.1	44.8	15.9	360	4.86	8.9	1.4	6.5	9.7	18	0.1	0.7	0.3	78	0.20	0.026
118007	Soil	1.6	35.7	11.3	61	<0.1	35.0	14.5	369	3.45	7.1	2.0	3.1	7.1	22	<0.1	0.7	0.2	71	0.24	0.025
118008	Soil	1.8	43.5	12.4	67	0.2	32.8	10.6	322	3.33	9.2	1.8	5.7	9.2	20	<0.1	1.1	0.2	60	0.23	0.028
118009	Soil	1.4	49.8	12.6	65	0.5	38.2	13.1	391	3.44	8.2	1.9	6.1	4.0	30	0.2	0.8	0.3	66	0.31	0.042
118010	Soil	2.0	63.4	17.1	103	0.4	41.0	15.5	622	4.28	20.4	2.4	9.7	2.1	37	0.4	0.9	0.4	78	0.31	0.085
118011	Soil	1.4	33.6	12.6	67	0.2	26.0	10.8	442	3.13	10.6	1.4	3.8	4.8	25	0.1	0.7	0.3	63	0.27	0.046
118012	Soil	0.9	24.5	10.1	56	<0.1	22.5	8.5	318	2.55	5.6	1.4	4.4	6.8	16	<0.1	0.4	0.2	40	0.19	0.034
118013	Soil	1.4	29.7	11.8	72	0.2	26.9	11.0	370	3.55	6.8	1.5	5.1	8.9	16	<0.1	0.4	0.3	53	0.18	0.039

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

WHI11000232.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
120026	Soil	13	46	0.63	237	0.150	2	2.12	0.008	0.31	<0.1	0.01	3.6	0.2	<0.05	7	<0.5	<0.2
120027	Soil	18	46	0.59	269	0.122	4	2.06	0.011	0.14	0.1	0.03	5.0	0.3	<0.05	7	<0.5	<0.2
120028	Soil	23	62	0.94	328	0.292	<1	2.45	0.011	0.80	0.1	0.06	6.8	0.6	<0.05	9	0.8	<0.2
120029	Soil	24	62	0.94	277	0.270	1	2.65	0.010	0.80	0.2	0.01	6.8	0.6	<0.05	10	0.6	<0.2
120030	Soil	20	49	0.64	268	0.148	2	1.89	0.013	0.23	0.1	0.05	7.0	0.2	<0.05	6	<0.5	<0.2
120031	Soil	21	61	0.87	285	0.254	2	2.51	0.010	0.72	0.2	0.04	6.0	0.5	<0.05	10	0.5	<0.2
120032	Soil	20	50	0.70	354	0.157	1	2.01	0.014	0.32	0.2	0.04	5.1	0.2	<0.05	6	<0.5	<0.2
120033	Soil	20	49	0.68	314	0.166	2	1.94	0.013	0.34	0.1	0.05	5.2	0.3	<0.05	7	0.6	<0.2
120034	Soil	20	51	0.78	389	0.180	1	2.09	0.012	0.47	0.2	0.09	6.0	0.4	<0.05	7	<0.5	<0.2
120035	Soil	15	30	0.86	335	0.075	3	1.20	0.024	0.12	0.2	0.03	3.2	<0.1	<0.05	4	1.3	<0.2
120036	Soil	15	30	0.66	361	0.071	2	1.26	0.025	0.10	0.2	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
120037	Soil	15	30	0.62	311	0.077	4	1.41	0.026	0.08	0.2	0.04	3.4	<0.1	<0.05	4	0.9	<0.2
120038	Soil	16	33	0.67	437	0.078	3	1.62	0.029	0.09	0.2	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
120039	Soil	19	45	0.68	294	0.108	2	1.63	0.013	0.16	0.3	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
120040	Soil	19	66	0.97	533	0.145	1	2.19	0.012	0.30	0.2	0.04	5.7	0.3	<0.05	7	0.8	<0.2
120041	Soil	19	67	0.90	520	0.122	2	2.43	0.012	0.26	0.2	0.03	5.4	0.2	<0.05	7	0.6	<0.2
120042	Soil	14	105	1.56	549	0.236	2	2.63	0.022	0.90	<0.1	0.03	8.8	0.3	0.18	9	<0.5	<0.2
118001	Soil	52	69	1.43	251	0.328	<1	4.08	0.012	1.41	0.4	0.02	6.1	1.0	<0.05	13	<0.5	<0.2
118002	Soil	46	77	1.43	321	0.415	2	4.25	0.014	1.99	0.4	0.02	8.6	1.2	<0.05	14	1.0	<0.2
118003	Soil	20	64	1.25	353	0.363	2	3.45	0.015	1.69	0.1	<0.01	6.1	0.9	<0.05	11	<0.5	<0.2
118004	Soil	21	62	1.16	242	0.316	1	3.50	0.010	1.16	0.1	0.01	5.4	0.7	<0.05	12	<0.5	<0.2
118005	Soil	27	74	1.22	362	0.229	<1	2.87	0.011	0.87	0.1	0.05	7.3	0.6	<0.05	9	1.0	<0.2
118006	Soil	31	80	1.15	327	0.209	1	3.10	0.008	0.66	<0.1	0.03	6.7	0.5	<0.05	9	<0.5	<0.2
118007	Soil	24	56	0.71	356	0.165	1	2.04	0.012	0.28	0.1	0.04	5.3	0.2	<0.05	6	<0.5	<0.2
118008	Soil	27	54	0.57	322	0.123	2	1.75	0.010	0.33	0.1	0.13	6.3	0.5	<0.05	6	0.7	<0.2
118009	Soil	19	53	0.59	541	0.104	1	2.18	0.011	0.19	0.2	0.07	5.4	0.2	<0.05	7	0.5	<0.2
118010	Soil	22	47	0.43	498	0.048	1	2.76	0.011	0.14	0.2	0.15	5.8	0.2	<0.05	8	0.7	<0.2
118011	Soil	17	37	0.43	316	0.061	1	1.77	0.010	0.08	0.2	0.08	4.3	0.1	<0.05	6	<0.5	<0.2
118012	Soil	23	28	0.40	212	0.084	<1	1.24	0.008	0.16	0.1	0.04	3.3	0.1	<0.05	4	<0.5	<0.2
118013	Soil	26	39	0.52	222	0.105	<1	1.92	0.009	0.23	0.1	0.06	3.9	0.2	<0.05	6	0.6	<0.2

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

WHI11000232.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
118014	Soil	0.8	67.3	7.4	56	<0.1	34.9	10.9	264	3.66	3.3	1.3	2.3	11.1	15	<0.1	0.2	0.3	38	0.19	0.024
118015	Soil	0.8	52.3	6.6	57	<0.1	38.1	11.1	227	3.45	2.3	1.3	2.8	12.3	14	<0.1	0.2	0.3	35	0.19	0.024
118016	Soil	1.6	56.0	15.8	108	<0.1	52.1	21.5	1088	5.22	3.0	1.7	1.4	15.2	14	<0.1	0.2	0.5	47	0.23	0.042
118017	Soil	2.0	65.2	9.8	81	<0.1	46.0	14.9	520	3.97	7.3	2.0	3.2	7.1	14	0.1	0.3	0.2	71	0.32	0.106
118018	Soil	1.9	47.9	9.8	81	<0.1	37.3	16.3	391	3.68	12.5	1.2	8.9	6.1	13	0.2	0.4	0.2	59	0.15	0.032
118019	Soil	2.0	54.3	8.6	80	0.1	41.6	13.6	341	3.58	10.0	1.9	7.0	7.5	15	0.1	0.4	0.2	62	0.24	0.032
118020	Soil	1.7	29.4	10.8	63	<0.1	30.1	13.0	365	3.34	12.1	1.2	6.0	5.8	19	<0.1	0.6	0.2	68	0.23	0.020
118021	Soil	1.7	29.0	9.3	82	0.1	37.6	11.3	356	3.09	9.9	0.7	6.3	3.5	24	0.2	0.4	0.2	83	0.46	0.085
118022	Soil	1.0	37.3	9.4	70	0.1	33.5	11.7	455	2.66	10.9	0.8	6.4	3.0	44	0.2	0.9	0.2	52	0.74	0.086
118023	Soil	0.8	34.9	10.1	73	0.1	28.4	10.2	355	2.74	10.6	0.7	5.4	3.5	38	0.2	0.9	0.2	54	0.65	0.075
118024	Soil	1.2	29.8	10.1	69	0.1	26.3	12.5	404	2.84	12.1	1.1	5.0	3.3	32	0.1	0.8	0.2	57	0.39	0.067
118025	Soil	1.2	25.3	9.2	56	0.1	20.4	10.2	284	2.88	11.4	1.0	4.8	2.2	23	0.2	0.7	0.2	56	0.29	0.066
118026	Soil	1.1	32.4	9.6	65	0.1	24.4	11.6	380	2.81	12.1	1.2	8.4	4.1	27	0.2	0.8	0.2	57	0.34	0.062
118027	Soil	1.3	37.2	10.1	68	0.2	29.5	11.2	266	2.97	12.9	1.3	9.1	4.8	25	0.1	0.8	0.2	55	0.31	0.060
118028	Soil	1.9	60.5	16.8	128	<0.1	60.8	24.0	650	4.71	10.4	2.0	4.2	15.3	13	<0.1	0.6	0.6	46	0.16	0.044
118029	Soil	2.4	47.4	14.4	57	<0.1	23.3	7.3	231	3.08	11.5	2.0	15.5	11.7	13	<0.1	0.7	0.2	38	0.12	0.034
118030	Soil	1.2	28.2	13.3	83	0.1	31.0	11.7	354	3.33	8.3	1.7	6.0	10.7	15	<0.1	0.7	0.2	40	0.18	0.037
118031	Soil	0.9	20.4	13.0	59	<0.1	28.2	12.2	348	3.19	11.6	1.3	3.6	9.0	14	<0.1	0.4	0.2	49	0.14	0.021
118032	Soil	0.6	25.5	17.6	63	<0.1	58.1	17.4	648	4.07	10.6	1.2	2.5	14.2	21	<0.1	0.3	0.2	69	0.28	0.040
118033	Soil	1.2	50.3	13.5	96	<0.1	38.5	15.8	440	4.30	16.0	1.6	4.7	13.0	21	<0.1	1.3	0.2	44	0.13	0.033
118034	Soil	2.7	59.8	11.1	69	0.3	28.0	9.0	250	3.43	12.8	1.9	15.5	8.5	20	<0.1	0.8	0.2	59	0.15	0.039
118035	Soil	1.1	55.8	11.1	75	0.2	36.7	12.6	411	3.30	13.7	1.5	10.4	5.2	23	0.1	0.7	0.2	67	0.22	0.034
118036	Soil	1.4	41.3	11.2	56	0.2	27.4	10.0	308	2.90	12.2	1.0	7.4	3.0	16	<0.1	0.7	0.2	58	0.16	0.038
118037	Soil	1.3	35.8	10.1	57	0.3	28.1	10.2	304	3.07	20.7	1.2	9.1	4.7	26	<0.1	1.1	0.2	60	0.33	0.051
118038	Soil	0.9	73.2	9.9	152	<0.1	76.2	20.1	679	5.19	7.0	2.2	7.9	9.8	11	0.2	0.5	0.2	44	0.34	0.037
118039	Soil	1.6	80.9	19.6	105	0.1	43.4	14.5	423	5.02	6.2	2.6	4.9	14.9	12	0.1	0.4	0.4	56	0.12	0.066
118040	Soil	2.4	73.1	21.9	120	0.1	50.3	18.9	537	4.45	6.3	2.4	5.8	14.4	13	0.2	0.3	0.3	53	0.15	0.069
118041	Soil	0.8	73.1	11.6	86	<0.1	60.3	21.3	615	5.40	4.8	2.9	7.0	16.4	8	<0.1	0.6	0.5	75	0.07	0.029
118042	Soil	0.8	86.5	20.4	109	0.2	34.1	10.3	571	4.53	5.4	2.0	4.9	18.3	15	1.0	0.3	0.3	62	0.62	0.071
117001	Soil	1.7	37.3	11.5	51	<0.1	22.5	4.6	115	2.30	5.4	1.3	4.4	8.1	43	<0.1	0.5	0.2	65	0.12	0.047

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 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

WHI11000232.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
118014	Soil	35	40	1.01	204	0.182	<1	2.23	0.008	0.85	<0.1	<0.01	4.1	0.5	<0.05	8	0.8	<0.2
118015	Soil	39	39	0.98	197	0.171	<1	2.17	0.009	0.87	<0.1	<0.01	4.3	0.5	<0.05	7	<0.5	<0.2
118016	Soil	49	45	1.08	339	0.270	<1	2.76	0.010	1.51	<0.1	<0.01	5.4	0.7	<0.05	9	<0.5	<0.2
118017	Soil	28	61	0.78	325	0.142	<1	1.90	0.007	0.59	<0.1	<0.01	5.5	0.3	<0.05	6	<0.5	<0.2
118018	Soil	18	44	0.58	192	0.091	<1	1.89	0.007	0.21	0.1	<0.01	2.9	0.2	<0.05	6	<0.5	<0.2
118019	Soil	30	48	0.72	319	0.127	<1	1.91	0.010	0.32	0.1	<0.01	4.9	0.3	<0.05	6	<0.5	<0.2
118020	Soil	17	44	0.60	300	0.093	<1	1.98	0.013	0.12	0.1	<0.01	4.4	0.1	<0.05	6	<0.5	<0.2
118021	Soil	15	59	0.75	380	0.107	<1	1.67	0.016	0.09	0.2	0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
118022	Soil	15	29	0.55	483	0.066	2	1.42	0.022	0.06	0.2	0.03	3.5	<0.1	<0.05	4	0.8	<0.2
118023	Soil	15	30	0.55	429	0.077	<1	1.48	0.025	0.07	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
118024	Soil	18	32	0.49	350	0.065	<1	1.72	0.013	0.06	0.2	0.13	3.6	0.1	<0.05	5	<0.5	<0.2
118025	Soil	16	28	0.42	245	0.057	<1	1.63	0.012	0.05	0.2	0.13	3.0	<0.1	<0.05	5	<0.5	<0.2
118026	Soil	18	32	0.47	283	0.071	<1	1.64	0.014	0.06	0.2	0.20	3.6	0.1	<0.05	5	<0.5	<0.2
118027	Soil	21	33	0.49	278	0.080	<1	1.70	0.012	0.09	0.2	0.24	3.6	0.1	<0.05	6	<0.5	<0.2
118028	Soil	49	38	0.75	218	0.113	<1	1.93	0.005	0.51	0.1	0.13	4.3	0.4	<0.05	7	<0.5	0.3
118029	Soil	40	32	0.48	163	0.071	<1	1.44	0.005	0.34	<0.1	0.21	3.8	0.3	<0.05	6	<0.5	<0.2
118030	Soil	34	31	0.63	196	0.157	<1	1.88	0.006	0.57	<0.1	0.42	3.5	0.5	<0.05	6	<0.5	<0.2
118031	Soil	24	40	0.60	192	0.115	<1	1.87	0.007	0.30	0.1	0.03	3.7	0.2	<0.05	7	<0.5	<0.2
118032	Soil	54	106	1.34	238	0.160	<1	2.94	0.008	0.82	0.1	0.02	6.9	0.5	<0.05	10	<0.5	<0.2
118033	Soil	37	38	0.54	224	0.087	<1	2.04	0.006	0.40	0.1	0.30	3.8	0.5	<0.05	7	0.5	<0.2
118034	Soil	29	39	0.56	293	0.102	<1	1.66	0.008	0.35	0.1	0.12	4.7	0.4	<0.05	5	0.5	<0.2
118035	Soil	21	38	0.54	391	0.076	<1	2.00	0.013	0.07	0.2	0.12	6.2	0.1	<0.05	6	<0.5	<0.2
118036	Soil	19	32	0.46	256	0.057	<1	1.61	0.008	0.06	0.1	0.17	3.7	0.1	<0.05	5	<0.5	<0.2
118037	Soil	18	36	0.52	382	0.063	<1	1.62	0.012	0.07	0.2	0.45	4.9	0.2	<0.05	5	<0.5	<0.2
118038	Soil	33	37	0.66	157	0.100	<1	2.02	0.005	0.30	0.3	0.20	5.1	1.3	<0.05	7	<0.5	<0.2
118039	Soil	59	42	0.81	175	0.120	<1	2.30	0.005	0.78	0.2	0.05	3.9	0.6	<0.05	8	0.8	<0.2
118040	Soil	55	42	0.90	175	0.118	<1	2.25	0.006	0.82	0.2	0.04	3.6	0.6	<0.05	8	0.7	<0.2
118041	Soil	46	56	1.05	156	0.150	<1	2.68	0.005	0.73	0.4	0.48	8.5	1.8	<0.05	9	<0.5	<0.2
118042	Soil	52	48	0.73	244	0.144	<1	2.08	0.006	0.64	0.3	0.11	4.1	1.9	<0.05	9	<0.5	<0.2
117001	Soil	19	37	0.22	585	0.034	<1	0.82	0.005	0.06	<0.1	0.03	4.2	0.1	<0.05	4	<0.5	<0.2

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

WHI11000232.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
117002	Soil	1.4	40.9	8.8	76	0.2	27.8	7.9	270	2.38	9.0	1.3	3.2	4.0	17	0.5	0.9	0.2	63	0.15	0.052
117003	Soil	1.5	46.6	7.5	104	0.2	64.9	14.3	383	3.55	7.6	1.2	3.8	4.0	23	0.2	0.5	0.2	100	0.35	0.085
117004	Soil	1.8	44.2	9.0	93	0.2	62.5	14.7	463	3.41	8.7	1.1	4.9	3.7	21	0.2	0.7	0.2	69	0.43	0.127
117005	Soil	1.5	38.4	7.1	106	0.2	61.9	15.4	351	3.41	8.3	0.9	4.0	3.1	20	0.3	0.7	0.2	66	0.34	0.099
117006	Soil	1.2	45.0	7.0	108	0.1	69.3	12.7	286	2.98	5.8	1.2	4.4	3.8	22	0.5	0.8	0.1	60	0.37	0.110
117007	Soil	1.4	39.9	11.3	80	0.1	35.5	8.3	189	2.21	6.5	1.3	1.6	4.9	37	0.2	0.8	0.2	56	0.24	0.062
117008	Soil	1.4	31.9	10.1	74	<0.1	32.9	10.1	259	2.56	7.5	1.0	8.0	4.6	22	0.2	0.7	0.2	56	0.21	0.055
117009	Soil	1.6	42.3	12.8	80	<0.1	32.7	7.6	329	2.43	4.8	1.3	3.2	6.5	34	<0.1	0.5	0.2	52	0.13	0.055
117010	Soil	0.9	37.1	7.9	64	<0.1	24.8	8.2	273	2.54	5.4	1.3	4.5	5.8	24	<0.1	0.5	0.2	61	0.09	0.025
117011	Soil	0.9	58.8	10.0	125	<0.1	36.6	8.8	136	3.26	6.0	2.0	1.2	6.5	34	<0.1	0.7	0.2	78	0.02	0.034
117012	Soil	0.6	25.4	8.2	154	<0.1	28.6	9.8	375	2.87	4.6	1.2	2.6	11.8	12	<0.1	0.4	0.2	49	0.03	0.011
117013	Soil	1.4	34.9	11.3	87	<0.1	28.3	10.7	270	2.67	10.9	1.2	3.4	5.4	16	<0.1	1.3	0.2	55	0.11	0.012
117014	Soil	1.5	29.1	12.9	71	0.2	26.5	8.6	252	2.90	9.6	1.0	3.0	4.7	17	0.2	0.7	0.2	64	0.13	0.019
117015	Soil	1.2	20.5	10.7	51	0.2	18.3	7.0	177	2.39	9.5	0.6	2.7	3.7	14	0.1	0.6	0.2	64	0.12	0.014
117016	Soil	1.1	33.0	9.5	82	<0.1	30.0	10.6	266	2.72	9.5	1.1	1.4	5.7	16	<0.1	0.7	0.2	55	0.12	0.015
117017	Soil	1.2	32.5	13.0	181	0.1	34.2	12.3	348	3.91	8.6	1.2	20.0	9.8	20	0.1	1.0	0.3	52	0.04	0.027
117018	Soil	0.8	34.6	12.3	164	0.1	32.4	12.2	601	3.82	7.0	1.4	3.8	8.8	13	0.2	0.7	0.2	51	0.13	0.034
117019	Soil	2.8	52.7	13.2	188	0.3	70.9	10.2	518	3.92	12.9	1.2	0.8	6.4	11	0.3	4.4	0.2	126	0.05	0.048
117020	Soil	1.7	55.6	16.8	139	<0.1	63.0	13.3	458	3.33	5.7	1.2	5.2	5.1	32	0.4	1.1	0.2	79	0.11	0.045
117021	Soil	2.4	56.6	11.2	140	<0.1	56.0	7.5	326	3.61	6.5	1.1	1.8	5.3	12	0.3	0.4	0.2	128	0.13	0.048
117022	Soil	2.2	40.2	11.3	109	0.2	61.4	10.0	317	3.29	8.9	0.8	3.8	4.2	17	0.2	0.7	0.2	114	0.16	0.030
117023	Soil	1.6	40.7	12.9	95	0.2	46.6	12.9	330	3.55	8.4	2.0	3.7	8.8	20	0.1	1.0	0.2	79	0.15	0.022
117024	Soil	1.8	59.9	9.1	92	<0.1	67.7	15.5	355	4.61	5.1	1.0	4.0	3.6	16	0.1	0.5	0.2	99	0.20	0.067
117025	Soil	0.8	26.3	5.9	53	0.3	2124	127.6	1363	6.26	76.0	0.3	32.8	1.7	98	0.2	0.9	0.6	26	1.18	0.012
117026	Soil	1.5	43.3	11.7	83	0.2	826.4	52.7	668	4.84	15.9	0.8	8.1	4.6	39	<0.1	0.9	0.4	68	0.63	0.040
117027	Soil	1.1	45.5	11.6	65	0.2	125.6	15.2	423	2.98	7.8	1.8	3.2	4.7	41	<0.1	0.8	0.2	66	0.62	0.050
117028	Soil	1.0	36.8	11.7	60	0.2	58.2	10.6	224	2.07	3.4	1.5	3.0	6.9	23	0.2	0.4	0.2	59	0.33	0.024
117029	Soil	1.7	40.9	11.6	75	0.1	52.6	12.5	375	3.16	9.4	0.9	3.4	5.5	27	0.2	0.8	0.2	68	0.41	0.036
117030	Soil	1.1	34.6	10.6	56	0.1	48.8	11.5	302	2.41	6.5	1.6	5.4	5.7	29	0.2	0.6	0.2	56	0.38	0.045
117031	Soil	1.2	36.3	11.0	59	0.1	32.6	9.8	236	2.42	5.2	1.5	2.9	6.0	26	0.1	0.5	0.2	54	0.33	0.034

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CERTIFICATE OF ANALYSIS

WHI11000232.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
117002	Soil	15	35	0.36	305	0.064	2	1.10	0.007	0.08	0.1	0.06	4.2	0.1	<0.05	4	<0.5	<0.2
117003	Soil	16	100	1.19	890	0.173	1	2.03	0.010	0.55	0.1	0.03	5.1	0.3	<0.05	7	<0.5	<0.2
117004	Soil	16	73	0.70	489	0.092	<1	1.62	0.012	0.18	0.1	0.06	4.4	0.2	<0.05	6	<0.5	<0.2
117005	Soil	15	70	0.69	377	0.087	<1	1.63	0.012	0.11	0.1	0.07	3.6	0.1	<0.05	5	<0.5	<0.2
117006	Soil	15	70	0.71	420	0.095	<1	1.39	0.010	0.20	0.1	0.05	4.5	0.2	<0.05	5	<0.5	<0.2
117007	Soil	16	43	0.47	386	0.068	<1	1.29	0.007	0.05	<0.1	0.06	4.2	0.3	<0.05	4	<0.5	<0.2
117008	Soil	14	45	0.48	263	0.065	1	1.43	0.008	0.04	0.1	0.06	3.4	0.2	<0.05	5	<0.5	<0.2
117009	Soil	14	32	0.26	573	0.049	<1	1.00	0.005	0.08	<0.1	0.03	3.9	0.3	<0.05	4	<0.5	<0.2
117010	Soil	15	36	0.38	356	0.060	<1	1.35	0.006	0.10	0.1	0.03	3.3	0.2	<0.05	4	<0.5	<0.2
117011	Soil	18	55	0.25	553	0.073	1	1.20	0.004	0.23	0.2	0.05	4.5	0.3	<0.05	6	<0.5	<0.2
117012	Soil	19	39	0.41	217	0.150	1	1.54	0.006	0.43	0.1	0.02	4.9	0.4	<0.05	9	<0.5	<0.2
117013	Soil	17	36	0.44	261	0.080	<1	1.53	0.011	0.07	0.1	0.09	5.4	<0.1	<0.05	5	<0.5	<0.2
117014	Soil	15	37	0.43	331	0.057	<1	1.94	0.009	0.04	0.1	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
117015	Soil	12	31	0.32	226	0.065	<1	1.59	0.011	0.04	0.1	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
117016	Soil	16	34	0.50	339	0.076	<1	1.74	0.008	0.08	0.1	0.02	3.5	0.3	<0.05	4	<0.5	<0.2
117017	Soil	26	47	0.62	289	0.163	<1	1.83	0.004	0.49	<0.1	0.02	3.5	1.2	<0.05	7	<0.5	<0.2
117018	Soil	19	45	0.80	452	0.233	1	2.10	0.006	0.67	0.1	0.03	3.8	0.6	<0.05	8	<0.5	<0.2
117019	Soil	15	94	0.92	926	0.175	2	2.00	0.006	0.52	0.1	0.02	5.1	1.3	<0.05	7	1.1	<0.2
117020	Soil	13	67	0.49	3696	0.095	1	1.34	0.006	0.27	0.1	0.02	4.9	0.4	<0.05	5	<0.5	<0.2
117021	Soil	17	88	1.20	1031	0.205	<1	1.90	0.006	0.64	<0.1	0.01	4.6	0.4	<0.05	7	1.3	<0.2
117022	Soil	11	111	1.01	1479	0.166	<1	1.98	0.006	0.38	0.1	0.01	4.6	0.3	<0.05	7	1.0	<0.2
117023	Soil	28	72	0.80	1634	0.165	<1	2.16	0.012	0.37	0.1	0.02	5.7	0.4	<0.05	7	<0.5	<0.2
117024	Soil	9	64	0.85	613	0.202	<1	2.01	0.008	0.94	0.1	<0.01	5.4	0.5	<0.05	7	<0.5	<0.2
117025	Soil	4	164	10.15	347	0.030	10	0.88	0.004	0.08	0.4	0.06	5.8	0.2	0.06	2	0.6	<0.2
117026	Soil	12	189	1.66	488	0.093	3	1.54	0.010	0.22	0.1	0.07	6.9	0.3	<0.05	5	0.8	<0.2
117027	Soil	15	57	0.67	634	0.087	2	1.54	0.015	0.15	<0.1	0.05	5.8	0.2	<0.05	5	0.7	<0.2
117028	Soil	18	28	0.31	297	0.031	<1	0.83	0.005	0.07	<0.1	0.06	9.1	<0.1	<0.05	4	<0.5	<0.2
117029	Soil	16	40	0.53	811	0.076	6	1.55	0.015	0.09	<0.1	0.03	5.5	0.2	<0.05	5	<0.5	<0.2
117030	Soil	16	35	0.41	559	0.064	1	1.32	0.010	0.09	<0.1	0.03	5.9	0.1	<0.05	5	<0.5	<0.2
117031	Soil	16	29	0.32	409	0.048	1	1.08	0.008	0.07	<0.1	0.06	6.7	0.1	<0.05	5	<0.5	<0.2



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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
117032	Soil		0.8	22.1	9.6	55	<0.1	28.0	10.8	288	2.16	4.3	1.2	2.7	5.5	22	<0.1	0.4	0.2	52	0.27	0.035
117033	Soil		1.4	33.6	8.3	72	0.1	36.4	18.6	581	4.74	3.9	0.9	4.2	3.8	24	<0.1	0.3	0.1	101	0.66	0.044
117034	Soil		1.3	32.9	9.8	74	<0.1	35.5	12.4	516	3.72	7.9	1.0	2.8	5.1	23	<0.1	0.6	0.1	81	0.34	0.022
117035	Soil		2.0	67.4	11.1	117	<0.1	44.2	13.5	873	3.30	6.6	0.8	1.5	4.2	49	0.2	0.6	0.2	84	0.19	0.032
117036	Soil		0.7	30.1	12.3	82	<0.1	32.5	12.6	502	3.96	3.2	1.2	3.0	9.4	20	<0.1	0.5	0.2	64	0.29	0.036
119001	Soil		1.0	21.4	13.2	60	<0.1	23.4	10.1	264	3.15	8.6	1.7	1.9	8.4	14	<0.1	0.6	0.3	54	0.14	0.015
119002	Soil		1.3	35.9	14.9	70	<0.1	29.0	11.9	405	3.72	12.4	7.8	5.3	18.3	21	<0.1	0.8	0.4	59	0.21	0.013
119003	Soil		1.1	48.7	17.7	90	<0.1	57.0	19.0	484	4.63	8.0	3.0	3.1	28.5	16	<0.1	0.5	0.4	46	0.16	0.014
119004	Soil		1.3	37.7	13.2	55	<0.1	27.0	9.4	319	2.75	13.9	1.7	4.3	7.6	20	<0.1	0.9	0.3	51	0.19	0.020
119005	Soil		1.3	52.1	14.4	87	<0.1	40.4	16.3	371	4.07	13.2	3.2	3.6	18.5	11	<0.1	0.9	0.4	39	0.09	0.016
119006	Soil		1.4	28.0	11.7	44	<0.1	20.0	7.7	252	2.42	9.5	1.9	2.3	7.0	16	<0.1	0.7	0.3	46	0.14	0.016
119007	Soil		1.5	29.2	14.4	44	<0.1	20.7	9.5	400	2.32	16.2	4.8	2.9	9.6	13	<0.1	0.9	0.6	38	0.10	0.034
119008	Soil		1.5	37.9	23.2	81	<0.1	32.1	9.5	368	2.97	38.3	6.5	9.2	16.1	17	0.2	1.3	0.7	42	0.18	0.032
119009	Soil		0.8	12.3	18.6	35	<0.1	8.8	3.3	169	1.29	11.1	6.2	1.7	22.7	12	<0.1	1.0	0.3	22	0.14	0.018
119010	Soil		1.0	6.4	17.0	28	<0.1	5.7	2.6	167	1.13	10.0	3.6	1.7	15.0	8	0.1	0.6	0.3	22	0.06	0.017
119011	Soil		1.3	18.4	24.6	51	<0.1	17.5	7.8	173	2.37	13.7	3.7	1.2	26.1	8	0.1	0.9	0.3	48	0.05	0.012
119012	Soil		2.0	16.5	26.6	51	0.1	20.8	6.0	188	2.79	15.0	2.0	10.3	11.3	16	<0.1	0.8	0.3	58	0.16	0.023
119013	Soil		0.9	29.4	17.2	48	<0.1	18.4	6.1	193	2.66	12.0	5.1	2.9	13.6	20	<0.1	0.8	0.2	48	0.19	0.017
119014	Soil		0.6	12.8	15.7	34	<0.1	10.3	3.1	98	1.44	6.3	3.3	2.4	13.1	15	<0.1	0.6	0.2	28	0.17	0.024
119015	Soil		0.7	33.4	33.7	117	<0.1	29.5	12.0	580	3.89	4.8	2.4	4.0	20.4	18	0.1	0.6	0.5	51	0.17	0.010
119016	Soil		1.0	34.5	37.6	84	<0.1	26.8	9.6	347	3.19	8.2	3.5	2.6	13.6	21	0.2	0.6	0.7	52	0.25	0.021
119017	Soil		1.1	23.1	15.3	56	<0.1	17.8	7.6	241	2.71	9.1	3.3	3.5	9.5	17	<0.1	0.6	0.3	46	0.20	0.026
119018	Soil		0.7	48.6	38.6	116	<0.1	40.8	12.0	379	4.29	16.3	4.8	6.4	23.7	22	0.7	0.4	1.0	43	0.32	0.068
119019	Soil		1.0	28.6	57.5	105	<0.1	24.4	13.6	413	4.16	14.2	1.8	25.2	13.2	19	0.2	0.8	2.3	51	0.25	0.046
119020	Soil		0.5	28.3	19.3	74	<0.1	32.8	9.2	316	3.54	6.6	3.3	4.3	16.2	26	0.1	0.4	1.0	43	0.41	0.080
119021	Soil		0.7	25.0	56.2	127	<0.1	23.5	10.5	248	3.13	9.2	1.7	2.8	9.5	23	0.2	0.5	0.4	44	0.29	0.061
119022	Soil		0.5	39.9	36.9	121	0.1	31.9	13.4	458	3.24	8.6	0.9	3.8	12.2	37	0.2	0.5	0.4	44	0.55	0.074
119023	Soil		0.4	41.1	23.0	79	0.2	36.1	13.0	399	3.47	10.2	2.0	3.9	10.7	73	0.1	0.6	0.8	40	1.22	0.073
119024	Soil		0.2	40.5	6.5	85	<0.1	42.5	18.5	261	4.58	3.2	1.5	1.0	22.7	37	0.1	0.2	0.3	37	0.64	0.098
119025	Soil		0.7	22.2	13.5	75	<0.1	26.7	12.5	393	3.66	8.9	1.3	2.2	19.4	33	<0.1	0.4	0.2	45	0.54	0.075

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Project: Montana
 Report Date: July 02, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
117032	Soil	15	30	0.34	393	0.058	1	1.11	0.008	0.07	<0.1	0.02	4.9	0.1	<0.05	4	<0.5	<0.2
117033	Soil	12	69	1.04	388	0.026	1	2.29	0.007	0.29	<0.1	0.02	11.3	0.1	<0.05	7	<0.5	<0.2
117034	Soil	14	48	0.69	481	0.098	<1	1.89	0.012	0.19	<0.1	0.02	7.0	0.1	<0.05	6	<0.5	<0.2
117035	Soil	8	62	0.56	709	0.127	1	1.66	0.006	0.39	0.1	0.03	5.4	0.3	<0.05	8	<0.5	<0.2
117036	Soil	21	49	0.74	570	0.195	<1	1.90	0.009	0.73	0.1	0.01	7.0	0.5	<0.05	8	<0.5	<0.2
119001	Soil	20	38	0.60	313	0.102	1	1.94	0.010	0.24	0.3	0.02	3.0	0.2	<0.05	6	0.6	<0.2
119002	Soil	42	52	0.68	294	0.098	<1	2.08	0.009	0.25	0.2	0.03	7.7	0.4	<0.05	8	<0.5	<0.2
119003	Soil	80	56	0.89	233	0.183	1	2.17	0.006	0.91	<0.1	0.03	6.2	0.7	<0.05	9	<0.5	<0.2
119004	Soil	23	32	0.39	330	0.060	<1	1.58	0.009	0.06	0.2	0.05	5.2	0.1	<0.05	4	<0.5	<0.2
119005	Soil	44	25	0.14	163	0.014	1	0.76	0.003	0.06	0.1	0.07	5.9	0.3	<0.05	3	<0.5	<0.2
119006	Soil	21	28	0.30	233	0.040	<1	1.29	0.008	0.04	0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
119007	Soil	19	22	0.14	127	0.035	1	0.68	0.005	0.05	<0.1	0.05	3.9	0.2	<0.05	2	<0.5	<0.2
119008	Soil	27	44	0.26	238	0.026	1	1.19	0.005	0.09	0.1	0.08	5.9	0.2	<0.05	4	<0.5	<0.2
119009	Soil	32	14	0.18	135	0.030	<1	0.67	0.004	0.05	<0.1	0.07	2.0	<0.1	<0.05	2	<0.5	<0.2
119010	Soil	27	9	0.11	108	0.020	1	0.62	0.003	0.03	0.1	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2
119011	Soil	17	34	0.33	106	0.037	1	1.73	0.005	0.08	0.1	0.03	4.1	0.2	<0.05	4	<0.5	<0.2
119012	Soil	20	32	0.35	226	0.032	2	1.81	0.007	0.06	0.1	0.03	2.6	0.1	<0.05	6	<0.5	<0.2
119013	Soil	34	30	0.41	386	0.047	1	1.61	0.009	0.05	0.1	0.06	4.7	<0.1	<0.05	5	0.7	<0.2
119014	Soil	23	17	0.27	156	0.039	<1	0.87	0.006	0.03	0.2	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
119015	Soil	44	49	0.88	417	0.179	1	2.57	0.014	1.08	0.1	0.04	5.3	1.0	<0.05	10	<0.5	<0.2
119016	Soil	38	38	0.58	390	0.115	<1	2.01	0.011	0.38	0.2	0.04	4.8	0.3	<0.05	6	<0.5	<0.2
119017	Soil	25	30	0.42	260	0.062	<1	1.62	0.014	0.12	0.1	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
119018	Soil	55	39	0.71	267	0.069	1	2.08	0.008	0.59	<0.1	0.03	6.2	0.5	<0.05	6	<0.5	<0.2
119019	Soil	30	38	0.60	178	0.052	<1	2.12	0.007	0.20	0.1	0.02	3.1	0.2	<0.05	8	<0.5	<0.2
119020	Soil	40	49	0.64	215	0.043	<1	1.72	0.008	0.27	<0.1	0.02	3.6	0.3	<0.05	8	<0.5	<0.2
119021	Soil	32	35	0.64	226	0.082	<1	1.78	0.010	0.23	0.1	0.02	3.1	0.2	<0.05	6	<0.5	<0.2
119022	Soil	37	34	0.75	203	0.104	<1	1.72	0.014	0.45	0.1	0.04	4.0	0.4	<0.05	6	<0.5	<0.2
119023	Soil	43	35	0.96	238	0.072	1	2.06	0.011	0.27	0.1	0.05	4.0	0.4	<0.05	6	0.6	<0.2
119024	Soil	89	33	1.12	189	0.178	<1	2.53	0.007	1.06	<0.1	0.01	3.3	0.7	<0.05	8	<0.5	<0.2
119025	Soil	45	35	0.78	204	0.102	2	1.95	0.010	0.34	0.1	0.02	3.8	0.3	<0.05	7	0.6	<0.2

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 Report Date: July 02, 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	
			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	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	2	0.01	0.001	
119026	Soil		1.1	25.0	14.2	74	<0.1	24.5	9.3	250	3.44	8.2	2.9	3.0	26.8	27	0.1	0.5	0.3	45	0.41	0.054
119027	Soil		0.6	11.2	19.2	89	<0.1	12.1	6.9	687	3.36	5.8	3.5	2.2	39.2	19	<0.1	0.4	0.3	30	0.30	0.068
119028	Soil		0.7	10.5	15.0	98	<0.1	13.6	8.8	480	3.81	4.5	3.3	1.4	39.5	24	<0.1	0.3	0.2	41	0.37	0.078
119029	Soil		0.7	16.9	12.6	62	<0.1	16.6	7.8	188	2.82	7.0	1.4	3.6	11.8	26	<0.1	0.4	0.2	44	0.35	0.058
119030	Soil		0.6	8.1	13.2	70	<0.1	12.1	8.4	462	3.57	4.5	4.5	1.9	33.8	17	<0.1	0.2	<0.1	38	0.28	0.086
119031	Soil		0.9	20.6	12.7	60	<0.1	16.7	7.2	235	2.80	6.5	3.8	3.7	19.3	26	<0.1	0.4	0.2	41	0.40	0.072
119032	Soil		0.7	17.7	9.6	60	<0.1	15.8	7.2	227	2.44	5.7	2.1	2.3	12.6	25	<0.1	0.4	0.2	39	0.35	0.060
119033	Soil		0.6	65.1	11.9	45	<0.1	51.2	12.7	356	2.33	1.9	1.4	1.6	11.1	21	<0.1	0.2	<0.1	39	0.45	0.047
119034	Soil		1.1	47.0	10.9	68	<0.1	78.3	14.9	405	3.77	4.1	1.7	4.8	8.6	41	0.1	0.4	0.2	62	0.72	0.069
119035	Soil		0.5	33.5	10.2	65	<0.1	36.5	12.3	341	2.98	4.9	3.4	4.4	10.0	39	<0.1	0.4	0.2	52	0.57	0.073
119036	Soil		1.1	8.4	16.5	38	<0.1	10.0	4.0	214	1.24	7.9	3.1	1.9	29.6	18	<0.1	0.6	0.5	25	0.21	0.050
119037	Soil		1.3	16.7	13.9	73	<0.1	15.0	5.1	177	2.18	9.3	3.1	7.6	20.3	12	<0.1	0.6	0.7	41	0.10	0.018
119038	Soil		1.5	10.3	15.0	70	<0.1	5.8	2.3	120	1.49	7.6	5.5	<0.5	4.4	4	0.2	0.3	0.6	23	0.04	0.058
119039	Soil		0.5	6.0	10.9	40	<0.1	4.0	1.5	79	0.72	3.4	8.2	1.7	47.6	4	<0.1	0.3	1.1	8	0.03	0.012
119040	Soil		0.5	6.2	11.9	44	<0.1	4.5	1.5	81	0.75	3.4	8.9	2.1	50.4	5	<0.1	0.3	1.2	8	0.04	0.014
119041	Soil		1.7	6.5	19.9	69	<0.1	9.9	5.3	478	2.72	5.0	4.9	<0.5	29.3	8	<0.1	0.5	0.2	21	0.10	0.074
119042	Soil		1.3	22.6	14.9	79	0.1	21.5	9.0	424	2.60	10.0	2.4	3.4	9.9	23	0.3	0.8	0.2	39	0.33	0.077
119043	Soil		1.3	23.9	13.8	55	<0.1	23.4	9.2	245	2.68	10.8	2.4	2.7	10.9	25	<0.1	0.6	0.3	55	0.32	0.040
119044	Soil		1.2	21.1	14.4	50	<0.1	18.0	7.4	241	2.34	8.6	2.4	2.4	13.9	23	<0.1	0.5	0.3	45	0.31	0.041
119045	Soil		1.7	25.8	12.2	61	<0.1	28.2	8.8	326	2.44	8.2	2.0	3.4	8.8	30	<0.1	0.5	0.2	50	0.40	0.055
110041	Soil		1.2	52.3	11.9	78	<0.1	38.7	15.2	720	3.64	14.5	2.5	9.3	6.4	23	<0.1	0.6	0.3	68	0.28	0.063
110042	Soil		3.5	132.9	13.4	222	<0.1	108.9	20.8	706	5.64	8.3	1.8	5.8	6.8	26	0.6	0.7	0.3	192	0.53	0.136
110043	Soil		1.9	43.4	19.6	177	<0.1	49.9	14.9	463	3.95	4.0	1.7	7.4	12.9	16	0.1	0.4	0.4	73	0.47	0.095
110044	Soil		1.0	33.4	13.3	95	<0.1	32.4	10.4	319	3.20	6.3	1.4	2.8	8.1	19	<0.1	0.5	0.2	67	0.22	0.034
110045	Soil		1.7	52.9	22.3	163	<0.1	49.7	14.9	488	4.55	5.2	1.9	3.2	16.8	20	0.1	0.5	0.3	78	0.28	0.078
110046	Soil		1.5	39.0	21.1	132	<0.1	47.0	14.4	300	4.00	3.5	1.5	4.2	9.6	11	<0.1	0.3	0.3	72	0.26	0.064
110047	Soil		1.6	36.2	15.5	106	<0.1	36.2	10.8	307	3.51	5.6	2.0	3.1	9.3	13	<0.1	0.2	0.2	73	0.22	0.052
110048	Soil		1.7	38.8	14.4	81	<0.1	38.3	11.3	361	3.41	9.4	1.4	3.1	6.4	26	<0.1	0.7	0.2	71	0.34	0.053
110049	Soil		1.0	36.3	12.3	63	0.1	34.1	11.0	436	2.86	11.1	0.8	3.4	4.5	31	0.1	0.8	0.2	65	0.33	0.046
110050	Soil		1.5	47.8	13.0	67	<0.1	40.8	14.3	495	3.36	12.4	1.1	4.3	6.7	37	<0.1	0.7	0.3	76	0.36	0.028

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
119026	Soil	72	37	0.59	216	0.099	1	1.82	0.010	0.30	0.2	0.03	6.8	0.3	<0.05	8	<0.5	<0.2
119027	Soil	73	19	0.52	219	0.090	1	1.43	0.010	0.58	0.1	0.02	5.9	0.5	<0.05	9	<0.5	<0.2
119028	Soil	75	34	0.81	234	0.137	<1	2.00	0.019	1.00	0.1	0.03	5.1	0.8	<0.05	10	<0.5	<0.2
119029	Soil	33	28	0.57	203	0.086	<1	1.68	0.013	0.18	0.1	0.03	3.2	0.2	<0.05	6	<0.5	<0.2
119030	Soil	86	25	0.67	197	0.127	<1	1.62	0.006	0.82	0.1	0.01	5.8	0.7	<0.05	9	<0.5	<0.2
119031	Soil	46	29	0.52	183	0.073	<1	1.57	0.015	0.27	0.2	0.04	5.6	0.3	<0.05	7	<0.5	<0.2
119032	Soil	33	28	0.53	208	0.075	<1	1.45	0.009	0.17	0.2	0.03	3.4	0.2	<0.05	5	<0.5	<0.2
119033	Soil	25	71	0.87	277	0.065	<1	1.27	0.015	0.20	<0.1	<0.01	5.3	0.2	<0.05	4	<0.5	<0.2
119034	Soil	25	96	1.00	288	0.025	<1	1.75	0.010	0.18	<0.1	0.02	8.1	0.2	<0.05	6	<0.5	<0.2
119035	Soil	29	61	0.75	236	0.056	<1	1.66	0.011	0.14	0.1	0.03	5.3	0.2	<0.05	6	<0.5	<0.2
119036	Soil	37	16	0.18	138	0.015	1	0.78	0.003	0.06	0.1	0.06	2.8	<0.1	0.05	3	<0.5	<0.2
119037	Soil	23	26	0.32	131	0.044	1	1.34	0.005	0.05	0.2	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
119038	Soil	56	12	0.03	73	0.003	<1	0.61	0.002	0.03	0.2	0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
119039	Soil	29	7	0.06	58	0.012	<1	0.47	0.002	0.05	<0.1	0.01	2.2	0.2	<0.05	2	<0.5	<0.2
119040	Soil	30	8	0.06	62	0.013	<1	0.50	0.003	0.05	0.2	0.01	2.1	0.2	<0.05	2	<0.5	<0.2
119041	Soil	74	14	0.16	95	0.031	<1	1.06	0.004	0.19	<0.1	0.02	2.7	0.3	<0.05	6	<0.5	<0.2
119042	Soil	28	23	0.44	300	0.048	2	1.19	0.012	0.06	0.1	0.04	2.9	0.1	<0.05	4	<0.5	<0.2
119043	Soil	24	39	0.48	324	0.070	<1	1.77	0.010	0.06	0.2	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
119044	Soil	29	29	0.41	280	0.069	<1	1.44	0.009	0.09	0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
119045	Soil	23	37	0.47	302	0.083	1	1.53	0.015	0.08	0.2	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
110041	Soil	25	40	0.84	434	0.145	2	2.25	0.009	0.35	0.2	0.11	6.2	0.2	<0.05	7	0.7	<0.2
110042	Soil	28	148	1.47	505	0.154	<1	2.50	0.007	0.62	0.2	0.07	12.0	0.4	<0.05	13	2.2	<0.2
110043	Soil	41	43	0.59	257	0.062	<1	1.94	0.007	0.38	<0.1	0.02	4.4	0.2	<0.05	7	0.7	<0.2
110044	Soil	27	41	0.57	291	0.112	<1	1.84	0.009	0.28	0.1	0.03	4.3	0.2	<0.05	6	<0.5	<0.2
110045	Soil	54	46	0.47	260	0.021	<1	1.57	0.006	0.16	<0.1	0.03	4.7	0.1	<0.05	5	0.7	<0.2
110046	Soil	25	50	0.64	310	0.153	1	1.80	0.010	0.80	<0.1	0.02	5.4	0.4	<0.05	6	<0.5	<0.2
110047	Soil	32	42	0.56	287	0.149	<1	1.80	0.006	0.61	<0.1	<0.01	4.7	0.4	<0.05	6	<0.5	<0.2
110048	Soil	21	48	0.57	349	0.122	2	1.91	0.013	0.23	0.1	0.05	5.5	0.2	<0.05	6	<0.5	<0.2
110049	Soil	18	38	0.50	428	0.085	1	1.81	0.014	0.06	0.2	0.07	4.6	<0.1	<0.05	5	<0.5	<0.2
110050	Soil	21	50	0.55	436	0.116	1	2.34	0.009	0.09	0.2	0.14	7.2	0.1	<0.05	7	<0.5	<0.2

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.



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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
110051	Soil	1.0	39.7	12.1	63	<0.1	30.0	11.6	379	3.05	11.1	1.2	5.9	6.5	28	<0.1	0.7	0.2	70	0.31	0.053
110052	Soil	1.2	41.3	11.9	84	0.1	36.6	11.5	359	3.32	10.5	1.2	2.8	5.8	25	0.2	0.8	0.3	76	0.24	0.039
110053	Soil	1.3	37.9	12.2	59	<0.1	31.2	10.5	348	3.28	9.5	1.4	4.2	7.1	22	<0.1	0.6	0.2	68	0.21	0.025
110054	Soil	1.4	49.0	13.0	70	<0.1	34.7	12.0	361	3.21	10.2	1.6	5.1	7.1	29	<0.1	0.9	0.2	76	0.29	0.035
110055	Soil	1.4	40.2	12.2	60	0.1	31.1	11.1	207	3.13	9.1	1.0	4.6	6.7	16	<0.1	0.8	0.2	80	0.14	0.023
110056	Soil	1.2	39.9	11.4	54	0.2	31.1	11.2	230	2.90	8.8	1.2	5.9	6.4	18	<0.1	0.7	0.2	71	0.16	0.017
110057	Soil	1.4	50.4	12.0	60	0.1	36.7	12.5	247	3.03	7.9	1.2	8.5	6.6	12	<0.1	1.1	0.2	67	0.10	0.022
110058	Soil	1.2	46.9	11.8	59	<0.1	45.4	10.4	492	4.92	8.2	2.4	6.8	11.2	12	<0.1	0.6	0.5	81	0.11	0.032
110059	Soil	0.7	86.3	7.2	70	<0.1	51.0	22.9	326	4.82	2.3	1.6	5.8	10.6	23	<0.1	0.2	0.3	129	0.45	0.091
110060	Soil	1.1	32.5	13.1	62	<0.1	36.3	14.4	251	3.42	9.2	0.9	3.7	8.2	17	<0.1	0.6	0.2	64	0.17	0.019
110061	Soil	0.8	58.1	18.5	87	<0.1	47.4	18.6	408	5.07	7.8	1.6	4.4	14.2	17	<0.1	0.4	0.4	73	0.17	0.021
110062	Soil	0.8	27.2	65.2	70	0.2	27.8	12.1	260	3.60	26.2	1.2	7.8	8.7	16	<0.1	0.6	0.4	60	0.15	0.026
110063	Soil	0.9	29.4	14.6	61	<0.1	24.8	10.8	323	3.60	10.8	1.5	2.8	8.9	19	<0.1	0.5	0.2	64	0.17	0.025
110064	Soil	1.9	31.2	20.7	130	<0.1	46.9	26.6	417	4.02	7.8	1.4	5.6	9.1	14	0.1	0.5	0.2	54	0.12	0.039
110065	Soil	1.2	21.8	16.2	90	<0.1	30.3	15.3	269	3.86	11.3	1.0	1.8	7.2	12	0.2	0.5	0.2	62	0.10	0.034
110066	Soil	0.9	32.9	11.8	76	<0.1	34.0	13.1	409	3.89	5.3	1.6	1.7	10.3	14	<0.1	0.3	0.2	61	0.19	0.030
110067	Soil	0.7	74.4	5.5	44	<0.1	87.9	15.7	566	2.73	3.9	0.8	3.1	2.6	21	<0.1	0.2	0.1	51	0.30	0.014
110068	Soil	0.9	69.8	6.1	54	<0.1	82.7	19.4	554	3.87	4.5	0.5	3.2	2.0	18	<0.1	0.4	0.1	109	0.26	0.015
110069	Soil	0.6	37.7	5.0	70	<0.1	52.0	19.6	579	4.04	2.3	0.5	1.7	3.4	14	<0.1	0.2	<0.1	98	0.27	0.033
110070	Soil	1.4	31.9	11.3	63	<0.1	32.5	11.1	278	3.22	6.2	1.1	3.7	4.6	18	<0.1	0.4	0.2	73	0.26	0.023



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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
110051	Soil	20	41	0.55	339	0.112	2	1.90	0.014	0.18	0.2	0.08	5.1	0.2	<0.05	6	<0.5	<0.2
110052	Soil	23	44	0.53	338	0.119	<1	1.83	0.012	0.21	0.2	0.05	4.7	0.2	<0.05	6	0.6	<0.2
110053	Soil	23	38	0.49	338	0.163	<1	2.07	0.010	0.33	0.1	0.04	5.6	0.2	<0.05	7	<0.5	<0.2
110054	Soil	21	47	0.57	428	0.125	2	1.83	0.015	0.18	0.1	0.08	5.7	0.2	<0.05	6	<0.5	<0.2
110055	Soil	21	46	0.52	239	0.127	1	2.15	0.008	0.13	0.1	0.03	4.4	0.2	<0.05	6	<0.5	<0.2
110056	Soil	20	42	0.52	294	0.096	1	2.13	0.009	0.08	0.1	0.06	4.6	0.2	<0.05	6	<0.5	<0.2
110057	Soil	19	40	0.49	238	0.099	<1	1.89	0.010	0.17	0.1	0.03	4.2	0.2	<0.05	6	<0.5	<0.2
110058	Soil	29	64	1.17	416	0.208	<1	2.79	0.006	0.95	0.2	0.04	9.7	0.5	<0.05	10	1.0	<0.2
110059	Soil	28	153	1.34	318	0.399	<1	3.75	0.012	1.33	0.2	0.01	11.6	0.6	<0.05	12	<0.5	<0.2
110060	Soil	19	45	0.62	250	0.124	2	2.51	0.010	0.25	0.1	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
110061	Soil	42	63	1.10	261	0.293	<1	3.24	0.009	1.03	0.2	0.02	7.7	0.7	<0.05	10	<0.5	<0.2
110062	Soil	28	42	0.60	246	0.111	1	2.28	0.010	0.24	0.1	0.02	3.8	0.2	0.07	7	<0.5	<0.2
110063	Soil	26	47	0.68	282	0.155	<1	2.29	0.011	0.34	<0.1	0.02	4.2	0.3	<0.05	6	<0.5	<0.2
110064	Soil	34	51	0.59	205	0.137	<1	2.43	0.005	0.41	<0.1	0.02	3.5	0.4	<0.05	8	<0.5	<0.2
110065	Soil	24	43	0.58	180	0.112	2	2.52	0.006	0.22	0.1	0.02	3.0	0.2	<0.05	6	<0.5	<0.2
110066	Soil	33	50	0.86	318	0.189	<1	2.41	0.013	0.62	0.1	0.02	5.2	0.4	<0.05	8	0.6	<0.2
110067	Soil	8	177	1.14	267	0.039	<1	1.68	0.015	0.21	<0.1	<0.01	6.6	0.1	<0.05	4	<0.5	<0.2
110068	Soil	6	229	1.45	352	0.054	<1	2.14	0.011	0.08	<0.1	<0.01	11.1	0.1	<0.05	6	<0.5	<0.2
110069	Soil	12	249	1.97	678	0.221	<1	2.69	0.014	0.85	<0.1	<0.01	8.5	0.3	<0.05	9	<0.5	<0.2
110070	Soil	14	84	1.07	348	0.133	1	2.24	0.012	0.25	0.1	0.02	6.1	0.1	0.05	7	<0.5	<0.2



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Project: Montana
Report Date: July 02, 2011

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QUALITY CONTROL REPORT

WHI11000232.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
100101	Soil	1.2	45.8	9.2	70	0.3	39.9	9.0	227	2.62	10.5	7.2	4.2	7.2	18	<0.1	0.6	0.2	57	0.23	0.045
REP 100101	QC	1.1	48.5	9.5	73	0.3	43.9	9.4	234	2.80	10.9	7.5	6.1	7.5	19	<0.1	0.6	0.3	61	0.25	0.047
0103112	Soil	1.2	29.7	9.3	54	<0.1	31.3	10.3	245	2.76	8.4	1.0	2.1	4.1	21	<0.1	0.5	0.2	56	0.28	0.023
REP 0103112	QC	1.3	30.9	9.6	54	0.1	31.8	10.3	247	2.82	8.7	1.1	2.0	4.4	22	<0.1	0.5	0.2	60	0.30	0.025
108129	Soil	0.3	24.0	16.6	76	<0.1	23.3	10.5	772	3.83	3.6	0.8	10.4	15.4	7	<0.1	0.4	0.4	81	0.08	0.020
REP 108129	QC	0.3	24.1	16.2	76	<0.1	22.4	10.6	752	3.82	3.6	0.8	11.2	13.9	7	0.1	0.4	0.4	82	0.08	0.018
108136	Soil	2.1	73.9	15.0	180	<0.1	71.9	19.7	315	4.77	15.5	1.1	7.2	7.3	21	<0.1	0.3	0.3	86	0.17	0.071
REP 108136	QC	2.0	75.6	15.4	183	<0.1	71.2	19.6	308	4.56	15.2	1.2	5.3	7.3	20	<0.1	0.3	0.4	87	0.16	0.075
108162	Soil	1.4	37.6	14.8	79	0.2	31.0	11.7	306	3.52	12.7	1.3	7.6	8.0	13	0.2	0.7	0.3	67	0.11	0.040
REP 108162	QC	1.4	37.6	15.5	79	0.2	31.0	11.5	311	3.54	12.2	1.4	8.4	7.9	13	0.1	0.7	0.3	67	0.11	0.040
108175	Soil	1.9	45.9	19.4	136	<0.1	39.7	17.8	971	4.56	10.1	1.7	4.1	10.3	9	<0.1	0.7	0.4	81	0.13	0.097
REP 108175	QC	1.8	44.8	19.0	136	<0.1	39.9	18.7	999	4.87	10.2	1.7	4.9	9.6	9	0.1	0.7	0.4	83	0.13	0.098
115026	Soil	1.0	38.4	40.4	55	<0.1	22.4	9.4	219	2.36	6.6	1.3	3.6	6.8	11	<0.1	0.7	0.2	47	0.08	0.019
REP 115026	QC	0.9	41.0	42.4	57	<0.1	23.2	9.6	237	2.47	7.2	1.5	1.5	7.4	12	<0.1	0.8	0.3	49	0.09	0.021
115045	Soil	1.2	40.4	10.5	143	<0.1	38.4	13.1	282	3.93	8.3	1.3	2.9	7.6	15	0.1	0.4	0.2	76	0.30	0.123
REP 115045	QC	1.2	40.6	10.9	143	<0.1	38.8	13.3	287	4.11	8.5	1.3	2.5	7.9	15	0.1	0.4	0.3	77	0.28	0.117
120004	Soil	1.3	47.8	12.2	103	<0.1	36.4	12.6	406	3.47	10.7	1.1	5.7	5.8	23	<0.1	1.2	0.2	71	0.14	0.032
REP 120004	QC	1.2	49.7	12.2	104	<0.1	37.7	12.9	413	3.55	10.7	1.2	3.5	5.9	21	<0.1	1.3	0.2	75	0.14	0.031
120024	Soil	1.5	67.2	13.1	119	<0.1	45.9	13.9	253	4.83	4.0	1.9	11.4	6.1	11	<0.1	1.1	0.3	134	0.07	0.046
REP 120024	QC	1.5	63.8	12.8	119	0.1	49.8	14.0	253	4.81	3.7	1.9	9.5	5.7	11	<0.1	1.0	0.3	135	0.07	0.047
118004	Soil	1.1	41.8	13.1	92	<0.1	48.2	20.6	372	5.21	6.9	1.0	<0.5	8.1	11	<0.1	0.4	0.2	75	0.10	0.029
REP 118004	QC	1.1	43.2	12.2	89	<0.1	48.5	20.6	359	5.10	6.3	1.0	2.1	7.3	10	0.1	0.4	0.2	75	0.10	0.030
118020	Soil	1.7	29.4	10.8	63	<0.1	30.1	13.0	365	3.34	12.1	1.2	6.0	5.8	19	<0.1	0.6	0.2	68	0.23	0.020
REP 118020	QC	1.5	30.3	10.7	65	<0.1	30.9	12.9	366	3.32	12.6	1.2	5.8	5.7	19	0.1	0.6	0.3	66	0.23	0.023
118041	Soil	0.8	73.1	11.6	86	<0.1	60.3	21.3	615	5.40	4.8	2.9	7.0	16.4	8	<0.1	0.6	0.5	75	0.07	0.029
REP 118041	QC	0.7	72.6	11.3	88	<0.1	63.2	21.9	630	5.53	4.6	3.0	6.4	16.4	8	<0.1	0.6	0.4	75	0.06	0.030
117009	Soil	1.6	42.3	12.8	80	<0.1	32.7	7.6	329	2.43	4.8	1.3	3.2	6.5	34	<0.1	0.5	0.2	52	0.13	0.055
REP 117009	QC	1.5	43.2	13.3	78	<0.1	33.7	7.5	326	2.48	4.7	1.3	1.9	6.7	33	<0.1	0.6	0.2	53	0.13	0.059

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QUALITY CONTROL REPORT

WHI11000232.1

Method	Analyte	Unit	MDL	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
Pulp Duplicates																				
100101	Soil			21	36	0.68	361	0.094	2	1.51	0.010	0.24	0.1	0.03	4.3	0.2	0.07	5	<0.5	<0.2
REP 100101	QC			23	37	0.70	371	0.102	2	1.59	0.012	0.25	0.1	0.04	4.4	0.2	0.05	5	<0.5	<0.2
0103112	Soil			13	34	0.43	200	0.061	1	1.29	0.008	0.11	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
REP 0103112	QC			13	35	0.44	211	0.068	2	1.38	0.008	0.12	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
108129	Soil			29	33	0.27	161	0.034	<1	0.66	0.004	0.20	<0.1	0.04	9.1	0.1	<0.05	6	<0.5	<0.2
REP 108129	QC			28	32	0.27	159	0.034	<1	0.66	0.003	0.20	<0.1	0.04	9.3	0.1	<0.05	6	0.5	<0.2
108136	Soil			14	54	0.84	216	0.098	<1	2.29	0.007	0.53	<0.1	<0.01	3.7	0.5	<0.05	8	0.7	<0.2
REP 108136	QC			14	52	0.86	211	0.099	<1	2.24	0.007	0.51	<0.1	<0.01	3.6	0.5	<0.05	8	1.0	<0.2
108162	Soil			25	39	0.57	304	0.096	<1	2.27	0.007	0.23	0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
REP 108162	QC			25	39	0.56	309	0.096	<1	2.29	0.011	0.22	0.1	0.04	3.5	0.2	<0.05	6	<0.5	<0.2
108175	Soil			26	45	0.60	227	0.167	<1	2.50	0.007	0.58	0.1	0.02	3.9	0.5	<0.05	8	0.5	<0.2
REP 108175	QC			26	44	0.61	228	0.164	<1	2.47	0.007	0.58	0.1	0.02	3.6	0.5	<0.05	8	0.6	<0.2
115026	Soil			18	29	0.27	211	0.050	<1	1.26	0.005	0.05	<0.1	0.10	5.5	<0.1	<0.05	4	<0.5	<0.2
REP 115026	QC			19	30	0.28	225	0.052	<1	1.32	0.004	0.06	<0.1	0.11	6.1	0.2	<0.05	4	<0.5	<0.2
115045	Soil			24	46	0.71	329	0.203	<1	2.03	0.008	0.84	0.1	0.01	3.7	0.6	<0.05	7	0.7	<0.2
REP 115045	QC			23	46	0.73	334	0.208	<1	2.02	0.008	0.85	<0.1	0.02	3.8	0.6	<0.05	7	0.7	<0.2
120004	Soil			19	40	0.59	385	0.130	<1	1.92	0.009	0.21	0.1	0.11	5.9	0.4	<0.05	6	<0.5	<0.2
REP 120004	QC			20	42	0.61	393	0.132	<1	2.05	0.008	0.22	0.1	0.10	6.5	0.3	<0.05	7	0.6	<0.2
120024	Soil			18	77	0.92	248	0.367	1	2.66	0.009	0.99	0.1	0.06	7.9	0.7	<0.05	10	1.2	<0.2
REP 120024	QC			17	79	0.90	247	0.354	<1	2.60	0.009	0.97	0.1	0.08	8.2	0.7	<0.05	10	1.3	<0.2
118004	Soil			21	62	1.16	242	0.316	1	3.50	0.010	1.16	0.1	0.01	5.4	0.7	<0.05	12	<0.5	<0.2
REP 118004	QC			19	62	1.16	237	0.313	1	3.42	0.009	1.16	0.2	0.01	5.6	0.6	<0.05	11	<0.5	<0.2
118020	Soil			17	44	0.60	300	0.093	<1	1.98	0.013	0.12	0.1	<0.01	4.4	0.1	<0.05	6	<0.5	<0.2
REP 118020	QC			17	43	0.60	300	0.087	1	2.02	0.008	0.12	0.1	0.01	4.4	0.1	<0.05	6	<0.5	<0.2
118041	Soil			46	56	1.05	156	0.150	<1	2.68	0.005	0.73	0.4	0.48	8.5	1.8	<0.05	9	<0.5	<0.2
REP 118041	QC			45	56	1.02	154	0.153	<1	2.69	0.005	0.73	0.3	0.45	8.6	1.8	<0.05	9	<0.5	<0.2
117009	Soil			14	32	0.26	573	0.049	<1	1.00	0.005	0.08	<0.1	0.03	3.9	0.3	<0.05	4	<0.5	<0.2
REP 117009	QC			14	33	0.27	573	0.049	1	1.04	0.005	0.08	<0.1	0.02	3.9	0.2	<0.05	4	<0.5	<0.2

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.



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Project: Montana
 Report Date: July 02, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000232.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 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
117020	Soil	1.7	55.6	16.8	139	<0.1	63.0	13.3	458	3.33	5.7	1.2	5.2	5.1	32	0.4	1.1	0.2	79	0.11	0.045
REP 117020	QC	1.8	55.7	17.3	141	<0.1	62.9	13.3	465	3.37	6.0	1.2	6.7	5.2	32	0.3	1.1	0.2	82	0.11	0.046
119006	Soil	1.4	28.0	11.7	44	<0.1	20.0	7.7	252	2.42	9.5	1.9	2.3	7.0	16	<0.1	0.7	0.3	46	0.14	0.016
REP 119006	QC	1.5	28.1	11.5	45	<0.1	19.3	8.0	256	2.45	10.0	1.9	2.3	7.1	16	<0.1	0.8	0.2	46	0.13	0.016
119034	Soil	1.1	47.0	10.9	68	<0.1	78.3	14.9	405	3.77	4.1	1.7	4.8	8.6	41	0.1	0.4	0.2	62	0.72	0.069
REP 119034	QC	1.3	48.7	12.0	70	<0.1	79.3	14.8	417	3.79	4.1	1.8	2.8	8.6	40	<0.1	0.4	0.2	62	0.70	0.069
110046	Soil	1.5	39.0	21.1	132	<0.1	47.0	14.4	300	4.00	3.5	1.5	4.2	9.6	11	<0.1	0.3	0.3	72	0.26	0.064
REP 110046	QC	1.6	38.8	21.2	132	<0.1	46.7	14.9	303	4.02	3.7	1.5	2.6	9.8	12	<0.1	0.3	0.3	75	0.25	0.064
110059	Soil	0.7	86.3	7.2	70	<0.1	51.0	22.9	326	4.82	2.3	1.6	5.8	10.6	23	<0.1	0.2	0.3	129	0.45	0.091
REP 110059	QC	0.8	85.2	7.1	73	<0.1	53.2	24.0	338	5.01	2.2	1.6	4.8	10.3	23	<0.1	0.2	0.4	135	0.46	0.095
110067	Soil	0.7	74.4	5.5	44	<0.1	87.9	15.7	566	2.73	3.9	0.8	3.1	2.6	21	<0.1	0.2	0.1	51	0.30	0.014
REP 110067	QC	0.6	76.6	4.9	45	<0.1	90.2	15.5	555	2.75	4.2	0.8	0.6	2.6	20	<0.1	0.2	0.1	50	0.30	0.014
Reference Materials																					
STD DS8	Standard	13.4	116.7	128.7	325	1.8	39.8	7.9	633	2.46	26.8	2.8	113.2	7.0	68	2.3	5.8	7.0	43	0.69	0.081
STD DS8	Standard	14.0	119.6	127.4	337	1.8	40.4	8.1	641	2.54	27.8	2.8	108.5	6.8	69	2.1	5.9	6.7	46	0.70	0.082
STD DS8	Standard	13.7	111.9	118.5	320	1.9	39.4	7.7	623	2.46	25.1	2.5	111.7	6.3	58	2.4	5.2	5.6	44	0.69	0.080
STD DS8	Standard	13.6	117.0	122.8	324	1.8	40.0	8.1	627	2.54	26.5	2.5	105.5	6.5	60	2.3	5.1	5.7	45	0.74	0.082
STD DS8	Standard	14.0	118.0	120.9	332	1.9	39.3	7.9	659	2.57	28.8	2.7	134.2	6.4	70	2.4	6.1	6.1	45	0.71	0.081
STD DS8	Standard	14.7	122.7	125.3	355	2.0	41.8	8.1	671	2.59	30.0	2.6	108.6	6.7	73	2.3	6.4	6.3	46	0.73	0.084
STD DS8	Standard	12.8	113.4	114.4	332	1.8	37.3	7.5	634	2.55	28.6	2.4	114.7	5.9	68	2.5	6.0	6.5	41	0.69	0.084
STD DS8	Standard	13.8	118.1	114.5	333	1.8	39.8	8.1	654	2.55	29.1	2.4	120.4	6.0	70	2.5	6.0	6.0	44	0.69	0.083
STD DS8	Standard	11.7	108.3	116.0	313	1.7	36.9	7.2	610	2.43	27.4	2.5	109.9	5.7	62	2.7	5.8	6.5	38	0.65	0.077
STD DS8	Standard	12.3	111.8	121.9	325	1.8	37.8	7.2	599	2.43	28.2	2.6	112.5	6.4	63	2.6	5.5	7.1	41	0.67	0.078
STD DS8	Standard	12.3	110.0	126.2	324	1.9	39.0	7.8	597	2.43	27.2	2.6	116.8	6.0	64	2.3	6.0	7.1	40	0.64	0.085
STD DS8	Standard	12.8	112.6	129.4	327	2.0	39.0	7.8	610	2.52	28.1	2.6	120.3	6.4	66	2.4	6.0	7.2	42	0.66	0.085
STD DS8	Standard	13.0	107.8	124.8	302	1.7	40.9	7.5	591	2.37	25.2	2.8	106.1	6.7	67	2.3	5.8	7.0	41	0.63	0.074
STD DS8	Standard	14.8	122.1	126.8	334	1.9	43.9	8.6	659	2.69	27.5	2.9	108.4	6.9	75	2.4	6.1	7.0	46	0.72	0.086
STD DS8	Standard	13.5	118.3	132.4	331	1.9	40.0	8.0	614	2.47	26.8	2.9	133.1	6.8	68	2.4	6.0	6.9	44	0.65	0.083
STD DS8	Standard	13.3	116.3	125.5	323	1.9	39.9	7.8	608	2.42	26.3	2.8	121.9	6.4	67	2.3	5.8	6.6	44	0.64	0.080



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Project: Montana
 Report Date: July 02, 2011

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QUALITY CONTROL REPORT

WHI11000232.1

		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
117020	Soil	13	67	0.49	3696	0.095	1	1.34	0.006	0.27	0.1	0.02	4.9	0.4	<0.05	5	<0.5	<0.2
REP 117020	QC	13	68	0.48	3774	0.093	1	1.37	0.006	0.26	0.1	0.01	4.9	0.4	<0.05	6	0.7	<0.2
119006	Soil	21	28	0.30	233	0.040	<1	1.29	0.008	0.04	0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
REP 119006	QC	21	27	0.29	228	0.041	<1	1.28	0.009	0.05	0.2	0.05	3.8	<0.1	<0.05	4	<0.5	<0.2
119034	Soil	25	96	1.00	288	0.025	<1	1.75	0.010	0.18	<0.1	0.02	8.1	0.2	<0.05	6	<0.5	<0.2
REP 119034	QC	25	97	1.01	284	0.023	<1	1.73	0.011	0.19	<0.1	0.02	8.2	0.1	<0.05	6	<0.5	<0.2
110046	Soil	25	50	0.64	310	0.153	1	1.80	0.010	0.80	<0.1	0.02	5.4	0.4	<0.05	6	<0.5	<0.2
REP 110046	QC	25	52	0.65	307	0.152	2	1.81	0.010	0.79	<0.1	0.02	5.2	0.4	<0.05	6	<0.5	<0.2
110059	Soil	28	153	1.34	318	0.399	<1	3.75	0.012	1.33	0.2	0.01	11.6	0.6	<0.05	12	<0.5	<0.2
REP 110059	QC	27	159	1.37	320	0.404	<1	3.78	0.013	1.37	0.1	0.01	12.0	0.6	<0.05	13	<0.5	<0.2
110067	Soil	8	177	1.14	267	0.039	<1	1.68	0.015	0.21	<0.1	<0.01	6.6	0.1	<0.05	4	<0.5	<0.2
REP 110067	QC	8	175	1.11	260	0.037	<1	1.65	0.014	0.20	<0.1	<0.01	6.5	0.2	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	118	0.60	283	0.128	3	0.93	0.089	0.42	3.1	0.23	2.0	5.6	0.16	5	4.7	5.0
STD DS8	Standard	14	120	0.62	279	0.127	3	0.93	0.087	0.43	3.1	0.20	2.1	5.4	0.17	5	6.1	5.3
STD DS8	Standard	13	119	0.60	267	0.110	3	0.90	0.096	0.42	3.0	0.19	1.9	5.2	0.20	5	4.8	5.1
STD DS8	Standard	14	123	0.62	284	0.115	2	0.96	0.103	0.43	3.0	0.21	2.1	5.3	0.18	5	5.0	5.0
STD DS8	Standard	15	125	0.64	289	0.128	2	0.92	0.109	0.44	3.0	0.19	2.1	5.3	0.12	5	6.3	5.5
STD DS8	Standard	16	125	0.64	303	0.129	2	0.93	0.098	0.45	3.1	0.21	2.1	5.7	0.13	5	5.0	6.3
STD DS8	Standard	14	116	0.61	279	0.114	3	0.88	0.090	0.42	3.2	0.20	1.9	5.5	0.19	5	5.8	5.5
STD DS8	Standard	14	121	0.60	287	0.123	2	0.91	0.093	0.41	3.0	0.21	2.0	5.4	0.19	5	5.8	5.2
STD DS8	Standard	13	110	0.60	260	0.104	3	0.86	0.082	0.40	2.9	0.19	2.0	5.6	0.13	5	5.7	5.1
STD DS8	Standard	14	110	0.61	273	0.107	3	0.92	0.086	0.40	3.1	0.18	2.0	5.8	0.11	5	5.1	5.0
STD DS8	Standard	11	113	0.60	266	0.103	2	0.90	0.094	0.42	3.1	0.22	1.7	5.3	0.11	4	5.3	4.9
STD DS8	Standard	12	114	0.61	271	0.105	3	0.91	0.102	0.41	3.1	0.20	2.0	5.6	0.09	5	5.6	5.0
STD DS8	Standard	13	117	0.60	265	0.111	2	0.88	0.081	0.40	2.9	0.21	1.7	5.1	0.12	4	4.5	4.7
STD DS8	Standard	14	128	0.65	291	0.127	3	1.00	0.096	0.45	2.6	0.19	2.3	5.3	0.20	5	5.2	5.3
STD DS8	Standard	14	122	0.62	282	0.122	4	0.91	0.093	0.43	3.1	0.23	2.0	5.5	0.16	5	5.9	5.4
STD DS8	Standard	15	120	0.61	282	0.123	3	0.88	0.084	0.41	3.2	0.22	1.9	5.6	0.13	4	6.0	4.7



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Project: Montana
 Report Date: July 02, 2011

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QUALITY CONTROL REPORT

WHI11000232.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 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
STD DS8	Standard	14.2	119.1	127.4	329	1.9	39.8	8.1	646	2.53	27.6	2.9	108.2	7.5	72	2.3	6.3	7.0	45	0.72	0.083
STD DS8	Standard	14.3	116.3	126.9	331	1.9	41.2	7.9	651	2.51	27.1	3.2	114.4	7.5	72	2.3	6.1	6.8	47	0.74	0.084
STD DS8	Standard	13.1	113.4	122.2	319	1.8	37.2	7.4	615	2.49	28.2	2.7	111.7	6.9	71	2.5	6.3	7.2	41	0.68	0.087
STD DS8	Standard	13.6	113.4	129.3	317	1.8	42.6	8.3	631	2.53	26.7	2.8	133.4	7.2	69	2.3	6.0	6.6	45	0.73	0.080
STD DS8	Standard	14.3	114.4	130.1	328	1.9	40.8	7.7	652	2.52	27.6	2.8	124.8	7.0	69	2.3	5.9	6.5	44	0.73	0.083
STD DS8	Standard	13.2	108.4	132.4	321	1.8	39.2	7.5	652	2.55	26.8	2.9	103.9	7.2	74	2.2	5.7	6.9	40	0.70	0.087
STD DS8	Standard	13.3	105.1	133.7	325	1.9	40.5	7.7	678	2.68	27.1	2.8	107.9	7.1	73	2.4	5.9	7.0	41	0.72	0.082
STD DS8	Standard	12.3	107.8	121.5	301	1.6	36.8	7.4	590	2.35	25.1	2.6	95.7	6.5	65	2.3	5.3	6.1	40	0.63	0.075
STD DS8	Standard	13.5	108.1	121.0	308	1.8	38.2	7.8	608	2.43	26.2	2.7	115.5	6.7	68	2.0	5.5	6.3	42	0.71	0.077
STD DS8	Standard	11.7	106.6	122.3	291	1.7	36.8	6.9	556	2.26	23.9	2.5	108.9	6.2	54	2.0	4.6	6.1	39	0.62	0.075
STD DS8	Standard	12.6	106.7	118.1	296	1.6	37.5	7.2	561	2.25	24.5	2.4	100.7	6.0	55	2.0	4.9	5.9	39	0.59	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	0.03	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Montana
 Report Date: July 02, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000232.1

		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
STD DS8	Standard	17	126	0.65	308	0.136	3	0.96	0.094	0.45	3.2	0.22	2.1	5.5	0.20	5	5.3	5.5
STD DS8	Standard	17	129	0.64	297	0.139	3	0.95	0.096	0.47	3.3	0.21	2.1	5.5	0.17	5	5.2	4.7
STD DS8	Standard	15	111	0.64	296	0.112	2	0.94	0.100	0.43	3.1	0.21	2.1	5.8	0.19	5	5.7	5.1
STD DS8	Standard	17	126	0.64	287	0.131	3	0.95	0.084	0.43	2.9	0.21	2.3	5.7	<0.05	5	4.6	4.9
STD DS8	Standard	16	128	0.65	284	0.128	3	0.97	0.088	0.43	3.1	0.24	2.1	5.8	0.13	5	3.8	4.8
STD DS8	Standard	15	117	0.64	280	0.125	3	0.95	0.101	0.44	3.2	0.20	2.0	5.8	0.14	5	5.1	5.4
STD DS8	Standard	15	126	0.62	268	0.127	3	0.98	0.099	0.44	3.0	0.19	2.2	5.7	0.16	5	5.1	5.2
STD DS8	Standard	14	113	0.59	261	0.114	4	0.89	0.079	0.38	2.8	0.22	1.8	5.1	0.13	4	4.3	4.1
STD DS8	Standard	14	118	0.61	272	0.118	4	0.94	0.080	0.40	2.9	0.18	2.4	5.4	0.12	5	5.5	4.7
STD DS8	Standard	11	110	0.56	242	0.098	2	0.80	0.071	0.36	2.6	0.18	1.6	4.9	0.11	4	4.5	4.7
STD DS8	Standard	11	112	0.55	244	0.097	2	0.80	0.072	0.37	2.7	0.18	1.7	5.0	0.12	4	5.8	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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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 16, 2011
Report Date: June 24, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000233.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110612170842
P.O. Number
Number of Samples: 15

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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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. ** 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: Montana
 Report Date: June 24, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000233.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	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
0103060	Soil	0.5	67.7	3.4	96	<0.1	7.4	10.5	711	4.37	2.1	0.8	<0.5	3.1	15	<0.1	0.4	<0.1	69	0.31	0.060
0103061	Soil	0.8	23.9	3.1	72	<0.1	7.2	15.7	659	4.24	0.8	0.7	<0.5	2.3	32	<0.1	0.2	<0.1	84	0.62	0.055
0103062	Soil	0.4	14.0	2.3	52	<0.1	8.2	17.5	520	3.40	<0.5	0.3	<0.5	2.9	63	<0.1	<0.1	<0.1	92	0.53	0.039
0103063	Soil	1.4	11.8	20.6	55	<0.1	13.2	5.4	854	1.33	6.8	2.6	<0.5	5.8	467	0.1	0.4	0.2	19	0.81	0.035
0103064	Soil	1.0	16.7	26.9	42	<0.1	11.5	4.0	254	1.18	3.8	3.1	1.2	6.4	92	0.1	0.2	0.3	17	0.51	0.030
0103065	Soil	0.6	18.5	25.2	44	<0.1	10.0	4.4	260	1.12	3.7	3.2	1.5	7.2	94	0.1	0.2	0.3	15	0.53	0.027
0103066	Soil	1.3	18.9	24.2	50	<0.1	11.7	4.4	197	1.83	8.6	2.2	4.7	3.9	77	<0.1	0.3	0.2	30	0.49	0.032
0103067	Soil	0.9	20.1	11.8	45	<0.1	13.0	4.7	104	2.06	7.3	1.9	5.1	2.8	47	0.1	0.4	0.1	40	0.42	0.062
0103068	Soil	0.5	18.3	12.6	54	<0.1	16.3	7.3	543	1.87	6.1	1.0	0.6	4.7	58	0.2	0.4	0.2	34	1.28	0.056
0103069	Soil	2.1	20.1	11.5	55	<0.1	15.5	7.2	402	2.80	9.2	1.3	1.4	3.0	45	0.1	0.4	0.2	56	0.42	0.047
0103070	Soil	1.2	21.4	9.8	50	<0.1	15.8	4.9	304	2.39	7.1	1.7	1.2	3.5	85	<0.1	0.5	0.2	41	0.56	0.080
0103071	Soil	2.6	17.1	13.7	95	<0.1	19.3	10.7	1352	3.20	11.9	1.5	1.6	4.5	192	0.3	0.5	0.1	69	0.65	0.089
0103072	Soil	2.2	19.7	11.2	48	<0.1	18.1	8.5	708	2.46	9.5	1.7	2.7	2.6	57	0.1	0.4	0.2	55	0.49	0.047
0103073	Soil	2.4	13.7	11.3	54	<0.1	13.7	5.2	258	2.63	10.4	1.0	2.2	3.7	58	<0.1	0.4	0.2	53	0.31	0.024
0103074	Soil	3.6	20.4	12.7	62	<0.1	14.7	7.8	622	3.46	14.3	1.3	4.6	3.7	60	0.1	0.5	0.2	65	0.41	0.035



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Project: Montana
 Report Date: June 24, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11000233.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
0103060	Soil	8	16	0.88	365	0.109	<1	2.11	0.012	0.63	<0.1	0.10	8.1	0.1	<0.05	10	0.5	<0.2
0103061	Soil	14	16	0.91	331	0.079	<1	2.22	0.027	0.36	<0.1	0.07	9.8	<0.1	<0.05	8	<0.5	<0.2
0103062	Soil	21	34	1.33	435	0.095	<1	2.41	0.018	0.25	<0.1	<0.01	7.4	<0.1	<0.05	7	<0.5	<0.2
0103063	Soil	18	9	0.44	4639	0.017	2	1.99	0.038	0.25	<0.1	0.01	2.0	0.3	<0.05	4	<0.5	<0.2
0103064	Soil	15	13	0.29	589	0.007	1	1.44	0.017	0.11	<0.1	0.01	1.6	0.2	<0.05	3	<0.5	<0.2
0103065	Soil	15	10	0.28	570	0.006	<1	1.36	0.019	0.10	<0.1	<0.01	1.6	0.2	<0.05	3	<0.5	<0.2
0103066	Soil	13	16	0.34	456	0.009	<1	2.01	0.015	0.09	<0.1	<0.01	2.4	0.1	<0.05	5	<0.5	<0.2
0103067	Soil	14	24	0.38	319	0.032	1	1.69	0.012	0.06	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
0103068	Soil	15	19	0.48	404	0.035	2	1.50	0.023	0.10	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
0103069	Soil	18	22	0.37	323	0.025	<1	2.18	0.012	0.08	<0.1	0.02	3.8	0.2	<0.05	6	<0.5	<0.2
0103070	Soil	17	25	0.43	560	0.024	1	1.83	0.020	0.08	<0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
0103071	Soil	21	18	0.31	1010	0.005	<1	1.55	0.028	0.09	<0.1	0.03	5.2	0.4	<0.05	4	0.7	<0.2
0103072	Soil	17	24	0.39	375	0.017	<1	2.33	0.014	0.07	<0.1	0.04	4.6	0.2	<0.05	6	0.5	<0.2
0103073	Soil	13	32	0.38	336	0.017	<1	2.43	0.011	0.09	<0.1	0.01	3.4	0.2	<0.05	5	<0.5	<0.2
0103074	Soil	16	21	0.37	359	0.011	<1	2.43	0.013	0.09	<0.1	0.02	4.6	0.3	<0.05	7	<0.5	<0.2



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Project: Montana

Report Date: June 24, 2011

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

WHI11000233.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Reference Materials																					
STD DS8	Standard	13.7	111.9	118.5	320	1.9	39.4	7.7	623	2.46	25.1	2.5	111.7	6.3	58	2.4	5.2	5.6	44	0.69	0.080
STD DS8	Standard	13.6	117.0	122.8	324	1.8	40.0	8.1	627	2.54	26.5	2.5	105.5	6.5	60	2.3	5.1	5.7	45	0.74	0.082
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



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Project: Montana

Report Date: June 24, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000233.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																		
STD DS8	Standard	13	119	0.60	267	0.110	3	0.90	0.096	0.42	3.0	0.19	1.9	5.2	0.20	5	4.8	5.1
STD DS8	Standard	14	123	0.62	284	0.115	2	0.96	0.103	0.43	3.0	0.21	2.1	5.3	0.18	5	5.0	5.0
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



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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: June 22, 2011
Report Date: July 02, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11000295.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110617095400
P.O. Number
Number of Samples: 33

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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	33	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	33	Dry at 60C			WHI
1DX2	33	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. ** 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: Montana
 Report Date: July 02, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000295.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
105064	Soil	0.3	17.0	9.1	236	<0.1	17.6	5.3	365	2.37	1.3	1.9	2.4	15.7	11	<0.1	<0.1	0.2	34	0.17	0.028
105065	Soil	1.3	73.7	22.1	144	0.1	47.6	9.3	153	3.76	3.4	2.3	7.8	15.8	9	<0.1	0.3	0.4	73	0.09	0.033
105066	Soil	2.0	40.9	12.3	38	<0.1	15.4	5.1	68	2.31	14.3	1.8	2.7	11.9	4	<0.1	0.4	0.2	50	0.02	0.036
105067	Soil	1.4	77.9	13.3	96	<0.1	30.5	9.2	206	3.25	2.1	1.7	<0.5	7.4	11	<0.1	0.1	0.2	80	0.04	0.047
105068	Soil	2.0	79.6	13.5	129	<0.1	35.1	10.2	287	4.14	2.3	1.9	2.2	7.4	7	<0.1	0.1	0.3	97	0.05	0.047
105069	Soil	1.7	48.0	11.6	39	<0.1	13.1	6.4	98	2.27	7.3	2.1	<0.5	10.9	7	<0.1	0.4	0.2	51	0.02	0.033
105070	Soil	2.7	55.3	12.2	41	0.2	18.4	9.0	164	2.54	15.4	1.6	2.7	8.7	11	<0.1	0.7	0.3	58	0.05	0.024
105071	Soil	1.7	54.7	14.2	64	<0.1	31.5	15.0	425	3.37	13.3	1.0	5.7	6.4	22	<0.1	0.8	0.3	71	0.18	0.018
105072	Soil	2.0	51.1	11.9	39	<0.1	18.7	8.4	142	2.73	8.1	1.2	1.4	6.2	11	<0.1	0.6	0.2	59	0.08	0.022
105073	Soil	2.1	55.0	12.6	75	<0.1	38.7	15.5	511	3.43	13.0	0.8	5.3	5.1	23	0.2	0.8	0.2	72	0.24	0.023
105074	Soil	2.2	62.6	13.9	63	<0.1	33.4	14.4	367	3.47	10.9	1.1	4.4	5.6	24	<0.1	0.9	0.2	70	0.18	0.025
105075	Soil	1.8	60.3	15.3	73	<0.1	29.0	9.5	121	3.84	1.7	2.0	4.0	9.0	7	<0.1	0.3	0.4	78	0.01	0.057
105076	Soil	1.3	49.7	12.2	64	<0.1	33.2	12.0	298	3.25	12.6	0.7	4.8	5.6	23	<0.1	0.8	0.2	69	0.24	0.015
105077	Soil	1.6	67.5	6.3	88	<0.1	58.0	20.6	622	7.21	7.3	1.3	6.6	5.0	17	0.2	0.5	0.1	103	0.19	0.036
105078	Soil	2.8	47.4	11.9	61	<0.1	30.3	15.2	434	3.14	12.2	1.3	5.2	5.9	22	<0.1	0.8	0.2	64	0.16	0.027
105079	Soil	1.8	46.4	12.6	80	<0.1	33.2	12.2	353	2.75	6.6	1.8	5.9	7.2	18	0.1	0.5	0.1	66	0.11	0.031
105080	Soil	1.9	35.5	14.0	76	0.1	28.8	11.4	203	3.16	7.7	1.1	0.7	6.7	10	0.2	0.6	0.2	73	0.05	0.046
105081	Soil	1.1	31.7	10.5	50	0.1	23.4	10.1	285	2.55	7.8	1.1	3.7	5.0	14	<0.1	0.5	0.2	57	0.12	0.019
105082	Soil	2.2	51.2	14.3	99	<0.1	29.0	7.1	115	3.12	4.0	1.9	1.2	7.7	14	<0.1	0.3	0.2	66	0.04	0.057
105083	Soil	0.9	17.1	6.3	38	<0.1	9.1	3.5	154	1.71	3.5	1.0	1.4	6.3	7	<0.1	0.3	0.2	21	0.05	0.016
105084	Soil	0.5	17.7	4.8	83	<0.1	6.8	4.0	477	2.97	2.1	1.0	0.8	8.1	6	<0.1	0.2	0.1	19	0.05	0.018
105085	Soil	1.1	36.0	18.0	85	0.1	26.5	8.0	627	3.01	11.4	0.9	3.4	6.6	10	0.3	0.6	0.2	56	0.09	0.032
105086	Soil	1.6	29.0	13.3	80	0.4	26.9	10.3	711	2.53	7.5	1.1	1.1	5.7	18	0.2	0.5	0.2	58	0.16	0.052
105087	Soil	1.1	42.0	9.6	71	0.1	37.6	9.8	314	3.13	14.5	0.9	6.0	6.0	17	<0.1	0.7	0.2	60	0.18	0.024
105088	Soil	1.0	69.7	16.3	108	0.4	48.8	8.4	250	3.74	5.7	2.3	3.4	12.6	14	<0.1	0.4	0.2	86	0.18	0.028
105089	Soil	1.1	44.3	8.9	102	0.2	31.7	6.3	409	2.66	3.5	0.8	2.2	4.0	14	<0.1	0.2	0.2	55	0.15	0.037
105090	Soil	0.7	49.4	5.9	76	<0.1	80.6	17.3	289	4.00	3.3	0.9	2.4	4.8	44	<0.1	0.2	0.1	102	0.75	0.135
105091	Soil	1.6	43.7	23.0	134	<0.1	39.3	9.7	430	4.02	7.3	1.3	2.8	8.4	13	<0.1	0.2	0.3	61	0.29	0.059
105092	Soil	0.5	35.9	9.7	99	<0.1	29.1	14.0	432	4.08	3.9	1.3	1.3	7.2	16	<0.1	0.2	0.2	82	0.29	0.058
105093	Soil	0.5	335.6	2.8	67	<0.1	12.9	19.0	417	5.37	1.5	0.7	2.1	2.3	14	0.1	0.1	<0.1	147	0.30	0.064

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
105064	Soil	32	16	0.45	145	0.155	<1	1.48	0.003	0.68	<0.1	0.01	3.5	0.5	<0.05	6	0.8	<0.2
105065	Soil	43	41	0.43	216	0.111	<1	1.70	0.006	0.64	<0.1	0.28	3.5	0.4	<0.05	6	0.9	<0.2
105066	Soil	33	32	0.22	124	0.056	<1	1.13	0.004	0.29	<0.1	0.05	3.1	0.3	<0.05	4	0.7	<0.2
105067	Soil	22	45	0.64	391	0.166	<1	1.72	0.009	0.77	<0.1	0.02	4.8	0.6	<0.05	6	0.6	<0.2
105068	Soil	17	58	0.68	330	0.207	<1	2.09	0.006	0.79	<0.1	0.01	7.1	0.7	<0.05	8	1.0	<0.2
105069	Soil	25	30	0.22	155	0.057	<1	1.22	0.003	0.20	<0.1	0.04	3.4	0.3	<0.05	4	0.9	<0.2
105070	Soil	21	33	0.24	205	0.041	<1	1.47	0.004	0.09	<0.1	0.02	4.3	0.2	<0.05	4	1.1	<0.2
105071	Soil	18	41	0.51	394	0.068	<1	1.98	0.009	0.07	0.1	0.06	6.4	0.1	<0.05	5	0.6	<0.2
105072	Soil	14	31	0.27	210	0.039	<1	1.46	0.004	0.03	<0.1	0.03	3.9	0.1	<0.05	4	0.9	<0.2
105073	Soil	16	43	0.57	392	0.079	1	1.87	0.011	0.07	0.2	0.04	6.0	0.1	<0.05	6	0.8	<0.2
105074	Soil	17	41	0.50	407	0.080	<1	1.78	0.010	0.06	0.1	0.05	5.8	0.1	<0.05	5	0.6	<0.2
105075	Soil	23	41	0.43	342	0.141	<1	1.52	0.005	0.58	<0.1	0.04	6.3	0.6	<0.05	6	1.1	<0.2
105076	Soil	18	41	0.57	412	0.075	<1	2.05	0.011	0.06	0.2	0.08	6.1	<0.1	<0.05	5	0.5	<0.2
105077	Soil	15	94	0.78	382	0.087	<1	1.69	0.005	0.25	<0.1	0.05	10.8	0.5	<0.05	6	0.9	<0.2
105078	Soil	19	35	0.45	595	0.064	<1	1.67	0.010	0.06	0.2	0.05	5.6	0.1	<0.05	5	0.7	<0.2
105079	Soil	18	39	0.46	619	0.088	<1	1.57	0.007	0.21	<0.1	0.04	5.2	0.3	<0.05	5	0.6	<0.2
105080	Soil	16	38	0.43	298	0.086	<1	1.89	0.004	0.22	<0.1	0.02	2.9	0.3	<0.05	5	1.0	<0.2
105081	Soil	19	33	0.43	299	0.062	<1	1.66	0.006	0.06	0.1	0.03	4.5	0.1	<0.05	5	0.6	<0.2
105082	Soil	20	39	0.45	561	0.111	<1	1.56	0.005	0.37	<0.1	0.02	4.2	0.4	<0.05	5	0.9	<0.2
105083	Soil	16	14	0.21	139	0.046	<1	0.94	0.003	0.14	<0.1	0.03	2.9	0.3	<0.05	4	<0.5	<0.2
105084	Soil	21	12	0.53	219	0.147	<1	1.55	0.004	0.60	0.1	0.01	7.8	0.5	<0.05	8	<0.5	<0.2
105085	Soil	17	64	0.39	222	0.063	<1	1.61	0.004	0.18	<0.1	0.02	5.9	0.2	<0.05	5	<0.5	<0.2
105086	Soil	23	32	0.30	381	0.080	<1	1.23	0.006	0.26	<0.1	0.02	2.3	0.2	<0.05	4	<0.5	<0.2
105087	Soil	18	40	0.57	258	0.080	<1	1.76	0.008	0.10	0.1	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
105088	Soil	41	61	0.77	367	0.219	<1	2.19	0.006	0.84	<0.1	0.06	7.3	0.5	<0.05	7	1.2	<0.2
105089	Soil	12	32	1.11	695	0.111	<1	1.93	0.009	0.48	<0.1	0.02	3.4	0.2	<0.05	6	0.5	<0.2
105090	Soil	27	135	2.88	1175	0.142	<1	3.65	0.026	0.66	<0.1	0.03	7.9	0.3	<0.05	10	0.6	<0.2
105091	Soil	27	74	1.67	459	0.155	<1	2.85	0.017	1.07	<0.1	<0.01	6.6	0.5	<0.05	9	1.0	<0.2
105092	Soil	32	66	1.76	548	0.209	<1	2.92	0.015	1.24	<0.1	<0.01	10.8	0.4	<0.05	10	0.5	<0.2
105093	Soil	11	26	2.19	389	0.149	<1	2.81	0.009	0.99	<0.1	<0.01	17.3	0.2	<0.05	10	<0.5	0.2

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Project: Montana
 Report Date: July 02, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
105094	Soil	0.4	42.1	5.8	82	<0.1	20.3	18.3	444	4.59	1.2	0.5	4.4	6.0	35	<0.1	0.1	<0.1	126	0.44	0.039
105095	Soil	0.3	45.8	2.0	24	<0.1	36.4	10.6	170	1.72	2.0	0.8	2.2	4.5	20	<0.1	0.1	<0.1	37	0.34	0.033
105096	Soil	0.4	78.0	3.3	22	<0.1	27.2	15.9	173	2.11	3.0	0.2	1.5	1.3	81	<0.1	0.3	<0.1	72	0.50	0.017



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CERTIFICATE OF ANALYSIS

WHI11000295.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
105094	Soil	42	32	2.76	615	0.218	<1	3.55	0.017	1.23	<0.1	0.02	14.7	0.4	<0.05	10	<0.5	<0.2
105095	Soil	17	74	0.77	362	0.090	<1	1.86	0.032	0.29	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
105096	Soil	4	25	0.86	650	0.019	<1	2.61	0.027	0.05	<0.1	0.01	5.0	<0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11000295.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
105078	Soil	2.8	47.4	11.9	61	<0.1	30.3	15.2	434	3.14	12.2	1.3	5.2	5.9	22	<0.1	0.8	0.2	64	0.16	0.027
REP 105078	QC	2.6	45.9	11.6	60	<0.1	30.3	14.6	431	3.07	12.0	1.4	4.0	5.7	21	<0.1	0.7	0.2	64	0.16	0.026
105093	Soil	0.5	335.6	2.8	67	<0.1	12.9	19.0	417	5.37	1.5	0.7	2.1	2.3	14	0.1	0.1	<0.1	147	0.30	0.064
REP 105093	QC	0.6	331.8	2.8	62	<0.1	13.0	19.7	411	5.31	1.4	0.7	3.3	2.4	15	0.1	0.2	<0.1	146	0.29	0.065
Reference Materials																					
STD DS8	Standard	13.1	110.2	121.5	307	1.7	38.1	7.6	610	2.38	25.8	2.7	98.2	6.5	65	2.1	5.7	6.1	42	0.65	0.079
STD DS8	Standard	12.6	112.6	119.4	310	1.7	36.9	7.4	591	2.32	25.2	2.5	107.1	6.2	65	2.4	5.6	6.0	41	0.63	0.078
STD DS8	Standard	12.8	117.6	124.3	328	1.8	40.3	8.1	629	2.51	26.6	2.6	126.1	6.4	61	2.4	5.6	6.6	44	0.68	0.081
STD DS8	Standard	13.5	119.6	124.2	330	1.8	41.9	8.2	617	2.46	27.0	2.6	113.6	6.6	62	2.4	5.4	6.5	44	0.68	0.083
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



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QUALITY CONTROL REPORT

WHI11000295.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
105078	Soil	19	35	0.45	595	0.064	<1	1.67	0.010	0.06	0.2	0.05	5.6	0.1	<0.05	5	0.7	<0.2
REP 105078	QC	19	35	0.46	581	0.066	<1	1.70	0.009	0.07	0.1	0.06	5.3	0.1	<0.05	5	1.0	<0.2
105093	Soil	11	26	2.19	389	0.149	<1	2.81	0.009	0.99	<0.1	<0.01	17.3	0.2	<0.05	10	<0.5	0.2
REP 105093	QC	11	25	2.12	387	0.146	2	2.76	0.009	0.98	<0.1	<0.01	17.2	0.3	<0.05	10	0.6	<0.2
Reference Materials																		
STD DS8	Standard	14	120	0.61	269	0.116	2	0.88	0.096	0.43	3.0	0.20	1.9	5.3	0.12	5	4.7	4.2
STD DS8	Standard	14	116	0.60	261	0.114	2	0.88	0.090	0.42	2.8	0.21	1.9	5.1	0.14	5	4.9	4.0
STD DS8	Standard	13	121	0.62	265	0.108	2	0.91	0.083	0.42	2.9	0.21	2.0	5.5	0.14	5	5.6	4.9
STD DS8	Standard	13	121	0.62	271	0.111	2	0.91	0.083	0.42	3.0	0.19	1.9	5.3	0.13	5	6.1	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5 Canada

Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: August 23, 2011
Report Date: September 19, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11001141.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110813123135
P.O. Number
Number of Samples: 243

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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001141.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
132046	Soil	0.8	19.0	6.2	39	<0.1	11.3	9.1	551	2.78	5.2	0.6	1.2	2.9	26	<0.1	0.4	0.2	61	0.27	0.031
132047	Soil	0.6	19.7	5.9	47	<0.1	14.9	11.7	340	3.74	4.5	0.7	0.6	2.8	23	<0.1	0.4	0.1	74	0.33	0.026
132048	Soil	0.6	11.6	5.8	52	<0.1	11.0	7.9	360	3.64	5.9	0.6	2.7	2.6	17	<0.1	0.5	0.2	54	0.17	0.034
132049	Soil	0.4	36.5	4.9	63	<0.1	14.1	15.4	509	3.62	4.7	1.2	2.0	4.0	35	<0.1	0.5	0.1	80	0.55	0.086
132050	Soil	0.3	5.7	2.9	49	<0.1	4.0	11.7	1111	3.14	0.9	1.4	1.2	7.1	22	<0.1	0.3	0.1	20	0.41	0.078
132051	Soil	0.5	16.5	6.8	50	0.1	13.2	5.5	178	2.15	4.7	1.0	3.6	1.2	30	0.2	0.4	0.2	34	0.42	0.071
132052	Soil	0.8	15.9	9.9	58	<0.1	7.9	6.6	280	3.49	3.2	2.3	2.5	5.6	18	<0.1	0.3	0.2	65	0.27	0.022
132053	Soil	0.3	11.5	4.4	65	<0.1	4.2	6.6	441	3.37	1.7	1.8	<0.5	5.9	8	<0.1	0.2	0.1	42	0.08	0.020
132054	Soil	0.4	10.3	5.8	61	<0.1	3.3	6.3	353	2.72	1.1	1.2	1.2	6.8	8	<0.1	0.1	0.1	29	0.08	0.014
132055	Soil	0.6	13.5	19.2	63	<0.1	8.4	9.8	54	0.73	3.2	2.1	1.9	7.4	33	<0.1	0.2	0.3	22	0.33	0.005
132056	Soil	0.2	10.2	15.9	16	<0.1	4.8	3.8	44	1.51	1.1	2.1	1.0	6.9	64	<0.1	0.1	0.2	28	0.61	0.011
132057	Soil	1.4	22.8	17.0	45	<0.1	15.0	5.1	243	1.69	7.9	3.7	1.2	3.4	104	<0.1	0.4	0.2	28	0.49	0.038
132058	Soil	1.0	7.4	18.4	40	<0.1	5.8	3.1	835	1.13	2.5	1.5	1.8	2.4	319	0.2	0.2	0.2	16	0.50	0.017
132059	Soil	0.7	23.4	14.4	42	<0.1	16.4	4.6	186	1.95	6.6	2.3	2.3	4.4	150	<0.1	0.7	0.2	41	0.60	0.067
132060	Soil	2.0	50.5	14.7	58	<0.1	93.7	11.2	809	2.74	14.1	3.9	2.4	5.5	97	<0.1	0.5	0.3	57	0.73	0.100
132061	Soil	1.7	12.2	18.9	39	<0.1	9.9	4.9	453	1.92	9.1	1.2	2.4	3.0	80	0.1	0.3	0.2	39	0.38	0.017
132062	Soil	1.0	13.8	14.3	42	<0.1	11.1	4.6	197	2.22	6.6	2.2	2.6	5.4	79	<0.1	0.3	0.2	38	0.36	0.011
132063	Soil	1.9	14.9	16.0	45	<0.1	12.4	4.6	185	2.21	8.6	1.2	1.3	3.4	59	<0.1	0.4	0.2	43	0.34	0.023
132064	Soil	2.0	23.1	14.4	58	<0.1	15.2	7.1	410	2.45	13.3	1.8	1.1	3.4	98	0.2	0.4	0.2	41	0.49	0.050
132065	Soil	1.1	20.6	14.8	41	<0.1	14.2	5.4	399	1.65	8.1	2.9	1.3	5.3	112	0.1	0.4	0.3	29	0.57	0.074
132066	Soil	1.4	19.9	9.8	41	0.1	16.4	6.2	240	2.11	7.3	3.8	2.1	1.5	55	0.1	0.3	0.1	41	0.49	0.067
132067	Soil	0.6	22.3	10.5	47	0.1	14.5	4.8	136	2.06	4.2	3.5	1.4	1.6	50	0.3	0.4	0.2	36	0.44	0.066
132068	Soil	0.4	10.8	18.0	32	<0.1	7.7	9.1	67	1.14	1.3	1.7	2.1	4.2	48	<0.1	0.1	0.2	20	0.42	0.019
132069	Soil	0.7	26.4	20.7	60	<0.1	15.3	8.1	117	2.15	7.8	1.4	5.3	8.2	19	<0.1	0.4	0.2	54	0.18	0.011
132070	Soil	0.7	13.5	7.2	43	<0.1	10.8	8.8	388	3.45	5.0	0.9	<0.5	4.2	22	<0.1	0.4	<0.1	66	0.30	0.012
132071	Soil	1.0	15.6	10.2	62	<0.1	16.9	9.0	306	2.89	8.0	0.6	1.7	4.4	17	<0.1	0.4	0.1	65	0.18	0.016
132072	Soil	0.8	29.0	5.7	48	<0.1	11.5	8.4	424	3.62	6.8	0.4	0.9	2.3	16	<0.1	0.3	<0.1	63	0.26	0.023
132073	Soil	0.8	21.7	6.7	110	<0.1	14.2	9.3	804	4.04	7.2	0.7	1.2	3.7	17	<0.1	0.5	<0.1	52	0.25	0.041
132074	Soil	0.4	14.4	6.5	57	<0.1	8.5	11.6	467	3.64	2.9	1.4	1.1	4.8	15	<0.1	0.2	<0.1	64	0.23	0.028
132075	Soil	0.8	8.5	8.1	56	<0.1	8.3	9.1	363	3.23	3.8	0.9	1.7	4.3	16	<0.1	0.3	<0.1	53	0.24	0.026

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 Report Date: September 19, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
132046	Soil	11	21	0.47	300	0.082	<1	1.58	0.016	0.13	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
132047	Soil	10	29	0.65	262	0.123	<1	2.07	0.020	0.21	<0.1	0.01	6.1	<0.1	<0.05	7	<0.5	<0.2
132048	Soil	11	18	0.60	341	0.122	<1	2.18	0.012	0.32	<0.1	0.02	4.0	0.1	0.06	7	<0.5	<0.2
132049	Soil	14	24	0.84	327	0.061	<1	1.85	0.025	0.08	<0.1	0.02	6.9	<0.1	<0.05	7	<0.5	<0.2
132050	Soil	32	5	0.62	222	0.020	<1	1.87	0.007	0.21	<0.1	0.01	6.0	<0.1	<0.05	8	0.6	<0.2
132051	Soil	19	19	0.40	194	0.036	<1	1.47	0.013	0.09	0.1	0.06	3.9	<0.1	<0.05	5	0.7	<0.2
132052	Soil	22	15	0.33	159	0.038	<1	1.73	0.006	0.21	<0.1	0.04	9.0	0.2	<0.05	8	0.6	<0.2
132053	Soil	28	7	0.55	169	0.102	<1	1.86	0.007	0.58	<0.1	0.01	10.5	0.2	<0.05	9	0.7	<0.2
132054	Soil	35	6	0.32	97	0.067	2	1.52	0.006	0.49	<0.1	0.01	7.6	0.3	<0.05	8	0.5	<0.2
132055	Soil	21	13	0.21	121	0.004	1	1.30	0.006	0.04	<0.1	0.05	3.1	0.3	<0.05	3	<0.5	<0.2
132056	Soil	24	9	0.24	115	0.003	1	1.70	0.007	0.06	<0.1	0.06	3.9	0.2	<0.05	4	<0.5	<0.2
132057	Soil	17	15	0.36	568	0.009	3	1.77	0.022	0.13	<0.1	0.03	2.9	0.3	<0.05	4	0.8	<0.2
132058	Soil	14	8	0.32	2289	0.019	<1	2.04	0.042	0.18	<0.1	0.01	1.7	0.3	<0.05	4	<0.5	<0.2
132059	Soil	17	22	0.36	799	0.014	2	1.81	0.027	0.11	<0.1	0.03	4.9	0.2	<0.05	4	0.7	<0.2
132060	Soil	19	89	0.72	489	0.035	4	2.46	0.018	0.19	<0.1	0.05	6.9	0.5	<0.05	7	0.7	<0.2
132061	Soil	14	19	0.38	339	0.030	<1	2.05	0.011	0.09	<0.1	0.01	2.3	0.2	<0.05	5	<0.5	<0.2
132062	Soil	15	22	0.42	432	0.031	<1	2.18	0.014	0.09	<0.1	0.01	4.1	0.2	<0.05	5	<0.5	<0.2
132063	Soil	14	21	0.39	331	0.037	<1	2.30	0.010	0.08	<0.1	<0.01	2.7	0.1	<0.05	6	<0.5	<0.2
132064	Soil	16	17	0.33	593	0.010	<1	2.35	0.018	0.11	<0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
132065	Soil	22	18	0.35	711	0.021	2	1.46	0.021	0.16	<0.1	0.03	3.4	0.4	<0.05	4	0.6	<0.2
132066	Soil	17	23	0.37	329	0.034	<1	1.67	0.016	0.05	<0.1	0.04	3.0	0.1	<0.05	5	0.6	<0.2
132067	Soil	18	23	0.36	288	0.024	1	1.71	0.012	0.06	<0.1	0.07	3.7	0.1	<0.05	5	0.7	<0.2
132068	Soil	19	10	0.25	124	0.004	<1	1.51	0.008	0.06	<0.1	0.04	2.1	0.2	<0.05	4	<0.5	<0.2
132069	Soil	32	29	0.38	125	0.028	<1	2.29	0.006	0.05	<0.1	0.03	4.9	0.1	<0.05	7	<0.5	<0.2
132070	Soil	21	20	0.40	167	0.033	<1	2.14	0.008	0.12	<0.1	0.01	8.8	<0.1	<0.05	7	0.8	<0.2
132071	Soil	13	35	0.57	225	0.089	<1	2.40	0.007	0.09	<0.1	0.02	3.6	0.1	<0.05	7	<0.5	<0.2
132072	Soil	7	22	0.63	177	0.128	<1	2.37	0.008	0.34	<0.1	<0.01	5.5	0.1	<0.05	8	<0.5	<0.2
132073	Soil	11	26	0.66	201	0.150	<1	2.31	0.009	0.49	0.1	0.02	8.3	0.2	<0.05	8	<0.5	<0.2
132074	Soil	18	18	0.52	165	0.079	1	1.97	0.008	0.23	<0.1	0.02	8.7	0.2	<0.05	8	0.6	<0.2
132075	Soil	14	18	0.61	161	0.090	1	1.90	0.009	0.19	<0.1	0.02	6.8	0.1	<0.05	8	0.6	<0.2

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Project: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
132076	Soil	0.9	9.1	8.0	41	<0.1	6.6	7.6	237	2.39	4.6	1.0	1.5	4.2	14	<0.1	0.3	<0.1	42	0.17	0.030
132077	Soil	0.8	11.9	6.9	46	<0.1	13.2	7.5	242	3.00	6.1	0.8	1.1	3.7	20	<0.1	0.4	<0.1	51	0.21	0.019
132078	Soil	0.7	8.1	6.2	46	<0.1	8.7	7.8	319	3.17	3.8	0.8	1.6	3.2	21	<0.1	0.4	<0.1	48	0.26	0.035
132079	Soil	0.5	28.7	23.4	80	<0.1	23.0	8.5	215	2.92	7.9	2.9	4.3	9.8	22	<0.1	0.4	0.4	44	0.31	0.060
132080	Soil	0.5	23.9	22.3	186	0.1	29.5	13.8	510	3.65	8.7	1.7	2.5	10.6	19	0.2	0.2	0.5	49	0.29	0.064
132081	Soil	0.6	31.9	20.6	104	<0.1	30.6	12.0	322	3.43	9.0	2.9	2.7	14.4	22	<0.1	0.5	0.3	51	0.33	0.036
132082	Soil	0.6	26.9	24.1	94	<0.1	25.5	11.5	248	3.70	9.0	2.0	5.3	16.6	19	<0.1	0.7	0.5	50	0.28	0.048
132083	Soil	1.2	37.3	11.1	55	<0.1	24.8	10.3	259	3.48	11.5	1.9	12.1	7.1	20	<0.1	0.7	0.4	65	0.26	0.024
132084	Soil	0.8	24.2	12.5	52	<0.1	20.4	10.0	254	3.06	9.2	1.4	4.6	9.5	17	<0.1	0.5	0.3	56	0.23	0.021
132085	Soil	1.0	26.8	11.9	50	<0.1	21.0	9.5	245	2.67	10.3	1.9	5.5	8.0	18	<0.1	0.6	0.3	52	0.19	0.017
132086	Soil	0.8	50.8	17.8	104	<0.1	44.4	22.2	446	5.60	4.1	6.7	1.6	32.1	12	<0.1	0.2	0.4	47	0.24	0.069
132087	Soil	1.0	25.6	12.6	67	<0.1	26.5	12.8	245	3.56	6.9	1.6	4.7	10.5	13	<0.1	0.5	0.3	58	0.13	0.024
132088	Soil	0.5	29.2	14.8	82	<0.1	27.9	13.7	305	3.66	4.6	1.6	1.2	15.5	10	<0.1	0.2	0.3	44	0.19	0.054
132089	Soil	0.4	29.0	11.6	79	<0.1	29.5	13.8	207	3.34	3.6	1.8	1.4	16.8	14	<0.1	0.2	0.3	43	0.30	0.060
132090	Soil	0.5	40.8	16.1	86	<0.1	32.1	15.4	274	3.45	2.9	2.1	1.8	22.9	13	<0.1	0.2	0.3	42	0.34	0.079
132091	Soil	0.7	20.6	11.5	65	<0.1	22.6	11.9	306	3.20	6.2	1.2	1.4	8.4	18	<0.1	0.3	0.2	55	0.25	0.040
132092	Soil	0.7	23.8	11.2	70	<0.1	23.6	11.7	306	3.20	8.8	2.5	2.5	11.9	17	<0.1	0.4	0.3	55	0.35	0.057
132093	Soil	0.7	24.7	9.6	63	<0.1	23.5	10.5	239	2.73	9.5	1.1	11.4	7.7	22	<0.1	0.5	0.2	58	0.38	0.080
132094	Soil	0.7	32.6	11.7	73	0.1	28.4	12.1	327	3.13	11.4	1.7	3.8	8.7	29	0.2	0.4	0.3	58	0.43	0.055
132095	Soil	1.0	29.0	9.7	72	0.1	25.2	12.1	343	2.85	15.4	1.3	4.3	5.4	35	0.2	0.5	0.3	61	0.59	0.059
132096	Soil	1.2	34.8	8.6	75	0.1	24.4	8.1	232	2.51	12.8	1.5	3.6	5.0	30	0.2	0.5	0.2	60	0.44	0.068
132097	Soil	1.4	42.1	9.6	98	0.2	39.3	12.8	300	3.19	25.1	1.7	4.2	6.4	32	0.2	0.5	0.3	72	0.43	0.054
132098	Soil	3.7	72.0	12.0	223	0.2	77.5	19.2	476	4.86	28.0	2.8	6.2	10.3	31	0.4	0.5	0.3	107	0.46	0.124
132099	Soil	2.5	58.5	11.3	103	0.2	33.3	10.7	225	3.49	33.3	1.5	2.2	6.6	31	0.1	0.3	0.3	80	0.36	0.056
132100	Soil	0.6	26.6	9.8	72	<0.1	27.9	16.1	351	3.69	12.3	1.0	1.7	11.5	22	<0.1	0.2	0.7	76	0.38	0.074
132101	Soil	0.8	33.2	13.1	69	<0.1	24.3	12.2	257	3.43	9.3	2.7	3.4	14.7	18	<0.1	0.4	0.3	55	0.20	0.021
132102	Soil	0.6	30.3	13.2	83	<0.1	34.3	16.0	221	3.68	4.6	1.5	0.7	14.7	12	<0.1	0.2	0.3	48	0.23	0.053
132103	Soil	0.8	43.1	13.2	82	<0.1	35.1	18.3	275	4.29	5.1	1.5	1.9	21.2	11	<0.1	0.3	0.4	52	0.14	0.035
132104	Soil	0.6	32.6	18.8	76	<0.1	37.9	21.3	459	5.48	3.0	2.2	<0.5	18.6	5	<0.1	0.2	0.4	54	0.09	0.035
132105	Soil	1.2	32.6	14.5	33	<0.1	13.9	9.7	368	2.46	13.6	2.0	2.1	9.2	13	<0.1	0.8	0.2	38	0.09	0.029

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 Report Date: September 19, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
132076	Soil	14	13	0.28	153	0.053	<1	1.23	0.006	0.10	<0.1	0.02	4.6	<0.1	<0.05	5	0.6	<0.2
132077	Soil	13	24	0.52	212	0.088	<1	1.94	0.012	0.09	<0.1	0.02	3.8	<0.1	<0.05	6	0.6	<0.2
132078	Soil	13	19	0.60	233	0.140	<1	1.83	0.015	0.25	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
132079	Soil	36	34	0.58	223	0.078	<1	1.87	0.009	0.21	0.1	0.01	4.0	0.2	<0.05	6	0.8	<0.2
132080	Soil	43	60	0.94	209	0.141	<1	2.54	0.010	0.54	<0.1	<0.01	3.6	0.5	<0.05	8	<0.5	<0.2
132081	Soil	52	52	0.92	266	0.141	<1	2.50	0.013	0.52	0.2	0.03	5.5	0.4	<0.05	7	0.7	<0.2
132082	Soil	65	49	0.80	168	0.094	2	2.16	0.012	0.42	<0.1	<0.01	3.4	0.4	<0.05	9	<0.5	<0.2
132083	Soil	15	43	0.48	259	0.059	2	2.17	0.013	0.07	<0.1	0.03	5.6	0.2	<0.05	6	<0.5	<0.2
132084	Soil	23	34	0.53	241	0.091	2	1.81	0.010	0.15	0.1	<0.01	3.9	0.2	<0.05	6	<0.5	<0.2
132085	Soil	25	33	0.45	275	0.069	1	1.72	0.010	0.07	0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
132086	Soil	46	41	0.92	269	0.253	<1	2.55	0.009	1.25	<0.1	<0.01	5.5	0.9	0.06	9	<0.5	<0.2
132087	Soil	26	37	0.63	236	0.122	2	2.23	0.009	0.36	0.1	0.02	3.6	0.4	<0.05	7	<0.5	<0.2
132088	Soil	53	37	0.80	273	0.158	1	2.00	0.009	0.79	<0.1	<0.01	4.0	0.6	<0.05	8	<0.5	<0.2
132089	Soil	71	34	0.84	195	0.147	1	2.01	0.010	0.67	0.1	0.01	3.7	0.5	0.06	8	<0.5	<0.2
132090	Soil	69	34	0.85	196	0.138	<1	2.02	0.010	0.80	<0.1	<0.01	3.8	0.5	<0.05	8	<0.5	<0.2
132091	Soil	23	37	0.69	240	0.120	1	2.08	0.011	0.31	0.1	<0.01	3.5	0.3	<0.05	8	<0.5	<0.2
132092	Soil	39	38	0.65	260	0.116	1	1.92	0.013	0.39	0.1	<0.01	4.7	0.3	<0.05	7	<0.5	<0.2
132093	Soil	23	38	0.62	260	0.103	<1	1.52	0.018	0.24	0.3	0.02	3.8	0.2	<0.05	5	<0.5	<0.2
132094	Soil	34	43	0.71	321	0.115	<1	2.12	0.016	0.34	0.1	0.03	4.6	0.3	<0.05	7	<0.5	<0.2
132095	Soil	18	53	0.77	355	0.099	1	2.00	0.020	0.23	0.2	0.02	4.3	0.2	0.07	7	<0.5	<0.2
132096	Soil	20	38	0.59	308	0.092	1	1.54	0.019	0.14	0.2	0.02	3.5	0.1	<0.05	5	0.6	<0.2
132097	Soil	22	68	0.90	457	0.123	<1	2.27	0.019	0.26	0.1	0.03	4.8	0.3	<0.05	8	0.6	<0.2
132098	Soil	42	77	1.26	551	0.166	<1	2.53	0.014	0.80	0.1	0.02	6.9	0.6	<0.05	11	1.4	<0.2
132099	Soil	18	64	1.10	371	0.131	<1	2.26	0.018	0.48	<0.1	<0.01	4.1	0.5	<0.05	8	1.1	<0.2
132100	Soil	38	60	1.15	342	0.154	<1	2.53	0.017	0.54	0.1	0.01	5.1	0.4	<0.05	8	<0.5	<0.2
132101	Soil	77	37	0.65	233	0.115	<1	2.01	0.011	0.27	0.1	0.01	5.4	0.3	<0.05	7	<0.5	<0.2
132102	Soil	47	38	0.95	244	0.130	<1	2.25	0.010	0.58	<0.1	<0.01	3.8	0.5	<0.05	8	<0.5	<0.2
132103	Soil	47	39	0.90	330	0.168	<1	2.49	0.009	0.78	<0.1	0.01	4.0	0.6	<0.05	9	<0.5	<0.2
132104	Soil	25	48	1.10	420	0.296	<1	3.04	0.010	1.23	<0.1	<0.01	5.4	0.9	<0.05	11	<0.5	<0.2
132105	Soil	27	19	0.19	130	0.052	<1	1.01	0.006	0.08	<0.1	0.02	2.9	0.4	<0.05	4	<0.5	<0.2

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Project: Montana
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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
132106	Soil	1.3	34.3	11.3	57	<0.1	26.4	28.7	708	3.27	13.5	1.3	1.6	5.7	15	<0.1	0.5	0.2	64	0.18	0.041
132107	Soil	1.4	27.6	14.5	50	0.1	18.3	8.8	436	2.51	14.8	2.6	3.2	7.1	19	0.1	0.7	0.5	52	0.15	0.039
132108	Soil	0.7	20.0	15.0	75	<0.1	29.1	14.3	408	3.78	7.2	1.1	2.8	9.4	13	0.2	0.3	0.4	58	0.20	0.069
132109	Soil	0.8	17.4	14.3	55	<0.1	18.1	9.0	228	2.90	9.6	1.4	5.1	9.6	20	<0.1	0.3	0.4	55	0.24	0.034
132110	Soil	0.3	34.7	22.8	88	<0.1	27.7	9.7	401	3.78	11.2	3.4	3.4	20.5	20	0.2	0.4	0.8	35	0.27	0.056
132111	Soil	0.3	57.2	26.2	184	<0.1	41.9	14.9	462	4.62	16.4	3.4	3.4	22.2	17	1.8	0.3	0.5	42	0.26	0.078
124322	Soil	2.4	139.6	7.8	152	0.4	55.7	37.4	1589	6.44	49.8	2.7	5.7	4.5	23	0.4	3.6	0.4	69	0.13	0.130
124323	Soil	1.2	42.6	15.1	173	0.2	29.2	10.8	548	3.39	10.2	2.0	7.8	7.4	22	0.3	0.7	0.2	70	0.22	0.088
124324	Soil	1.6	51.6	9.8	109	0.2	49.8	11.3	327	3.58	11.7	1.4	5.9	5.2	25	0.1	1.1	0.2	78	0.21	0.036
124325	Soil	2.0	56.3	12.8	140	0.2	76.4	13.2	315	4.10	11.5	1.3	3.5	4.8	16	0.2	0.7	0.2	89	0.12	0.049
124326	Soil	1.7	61.8	11.7	92	0.5	61.0	14.6	375	3.52	15.8	1.3	8.8	5.8	44	0.2	1.0	0.2	82	1.49	0.041
124327	Soil	1.8	66.5	13.5	115	0.3	66.7	15.6	467	3.94	13.0	1.5	8.9	5.4	29	0.2	0.8	0.2	93	0.48	0.047
124328	Soil	2.1	42.9	10.4	98	0.2	46.8	11.8	285	3.18	11.7	1.5	3.3	5.3	23	0.2	1.1	0.2	81	0.38	0.022
124329	Soil	1.9	42.1	10.3	100	0.3	44.5	11.3	393	2.97	11.4	1.2	5.9	5.0	22	0.3	1.2	0.2	71	0.37	0.028
124330	Soil	1.4	39.8	11.7	120	0.9	49.5	15.2	1657	3.08	5.3	0.7	2.1	2.3	58	1.2	0.4	0.2	71	1.25	0.128
124331	Soil	2.5	45.3	14.2	129	0.2	70.4	14.3	447	3.67	11.7	1.5	6.0	4.9	18	0.5	0.6	0.2	76	0.26	0.053
124332	Soil	1.7	46.4	10.1	91	0.5	50.2	14.3	967	3.11	10.7	2.6	5.5	3.8	33	0.4	0.8	0.2	70	0.52	0.047
124333	Soil	0.8	28.8	8.8	71	0.1	26.6	10.6	466	2.54	9.9	1.0	6.1	3.7	45	0.2	0.7	0.2	51	0.72	0.071
124334	Soil	0.8	25.5	8.1	65	0.1	22.5	8.7	378	2.12	6.4	0.8	3.2	2.6	33	0.4	0.6	0.2	44	0.58	0.072
124335	Soil	1.1	26.5	8.9	75	0.1	24.1	10.0	350	2.45	8.7	0.8	2.4	2.9	34	0.3	0.8	0.2	50	0.62	0.069
124336	Soil	1.2	25.5	8.9	73	0.1	25.4	10.6	353	2.52	8.3	0.9	5.0	2.9	35	0.3	0.8	0.2	52	0.63	0.066
124337	Soil	1.1	31.2	9.9	77	0.1	27.2	11.0	402	2.67	10.7	0.7	2.0	3.3	39	0.4	0.9	0.2	53	0.89	0.070
124338	Soil	1.3	29.9	9.9	82	0.1	26.9	10.6	418	2.57	10.6	1.1	2.7	3.0	43	0.4	0.8	0.2	51	0.91	0.067
124339	Soil	1.3	33.4	10.0	77	0.2	28.8	10.7	451	2.68	10.8	0.8	2.5	3.5	49	0.4	1.0	0.2	54	1.31	0.069
124340	Soil	1.2	32.5	10.1	78	0.2	29.9	10.9	456	2.71	10.6	0.7	1.6	3.3	49	0.4	1.0	0.2	53	1.22	0.067
124341	Soil	1.1	23.4	8.5	68	0.1	22.6	10.2	528	2.48	8.8	0.9	3.8	3.3	36	0.1	0.7	0.2	47	0.66	0.072
124342	Soil	1.0	26.6	9.3	70	0.1	25.7	10.2	477	2.48	9.4	1.1	1.9	3.7	39	0.4	0.7	0.2	48	0.70	0.077
124343	Soil	0.8	34.1	9.2	72	0.1	28.2	10.6	394	2.42	9.0	1.2	2.9	3.6	40	0.3	0.7	0.2	52	0.66	0.065
124344	Soil	0.9	26.0	9.2	70	0.1	25.1	10.2	457	2.46	9.9	0.6	2.7	4.0	49	0.3	0.7	0.2	49	1.57	0.077
124345	Soil	1.1	19.2	8.4	67	0.1	20.9	9.1	304	2.45	8.8	1.0	4.5	3.1	30	0.3	0.6	0.2	49	0.49	0.070

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
132106	Soil	13	43	0.51	223	0.063	1	2.00	0.013	0.07	<0.1	0.02	4.8	0.2	<0.05	6	<0.5	<0.2
132107	Soil	22	27	0.28	239	0.048	1	1.72	0.010	0.08	0.1	0.04	3.6	0.2	<0.05	6	<0.5	<0.2
132108	Soil	15	74	0.99	161	0.132	<1	2.51	0.010	0.57	0.1	<0.01	4.2	0.5	<0.05	9	<0.5	<0.2
132109	Soil	27	32	0.58	171	0.087	<1	1.81	0.011	0.13	0.1	0.02	3.2	0.2	<0.05	7	<0.5	<0.2
132110	Soil	58	34	0.59	193	0.084	<1	1.89	0.010	0.53	<0.1	<0.01	5.2	0.4	<0.05	8	<0.5	<0.2
132111	Soil	63	36	0.86	264	0.129	<1	2.36	0.010	1.00	<0.1	<0.01	5.6	0.8	<0.05	9	<0.5	<0.2
124322	Soil	16	38	0.28	420	0.047	<1	1.16	0.007	0.07	0.1	0.18	5.3	0.7	<0.05	4	1.0	<0.2
124323	Soil	24	50	0.60	597	0.129	<1	1.73	0.010	0.34	0.1	0.06	5.7	0.4	<0.05	7	<0.5	<0.2
124324	Soil	17	62	0.75	1060	0.140	<1	1.85	0.016	0.39	0.1	0.04	5.9	0.4	<0.05	7	0.6	<0.2
124325	Soil	13	78	0.74	743	0.174	<1	1.77	0.010	0.66	0.1	0.02	5.1	0.6	<0.05	7	0.8	<0.2
124326	Soil	24	55	0.71	798	0.105	2	1.86	0.019	0.20	0.2	0.10	6.4	0.2	0.05	6	1.0	<0.2
124327	Soil	20	62	0.78	521	0.168	1	1.95	0.019	0.52	0.2	0.04	6.8	0.4	<0.05	7	0.8	<0.2
124328	Soil	14	43	0.52	738	0.082	1	1.47	0.010	0.23	0.2	0.04	4.3	0.2	<0.05	5	1.1	<0.2
124329	Soil	14	43	0.57	785	0.090	2	1.48	0.013	0.30	0.2	0.07	3.7	0.3	<0.05	5	1.0	<0.2
124330	Soil	10	53	0.65	1595	0.117	4	1.89	0.019	0.54	0.1	0.02	3.4	0.2	<0.05	6	0.6	<0.2
124331	Soil	16	50	0.33	346	0.048	1	1.01	0.009	0.16	0.1	0.03	4.0	0.1	<0.05	4	0.7	<0.2
124332	Soil	14	43	0.56	695	0.081	1	1.48	0.013	0.22	0.2	0.05	3.6	0.1	<0.05	5	0.7	<0.2
124333	Soil	13	25	0.52	346	0.049	2	1.14	0.021	0.06	0.3	0.03	2.7	<0.1	<0.05	4	0.6	<0.2
124334	Soil	12	24	0.46	318	0.045	1	1.17	0.017	0.06	0.2	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
124335	Soil	12	27	0.57	307	0.049	2	1.31	0.020	0.08	0.2	0.04	2.6	<0.1	<0.05	4	0.7	<0.2
124336	Soil	12	28	0.54	322	0.046	2	1.38	0.017	0.07	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
124337	Soil	13	28	0.60	357	0.050	2	1.32	0.021	0.08	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
124338	Soil	13	28	0.63	368	0.055	2	1.35	0.027	0.09	0.2	0.04	2.9	<0.1	<0.05	4	0.6	<0.2
124339	Soil	14	29	0.66	394	0.062	2	1.42	0.027	0.11	0.2	0.03	3.1	<0.1	<0.05	4	0.6	<0.2
124340	Soil	14	29	0.65	401	0.058	3	1.35	0.027	0.10	0.2	0.04	2.9	<0.1	<0.05	4	0.5	<0.2
124341	Soil	13	26	0.50	340	0.049	1	1.32	0.023	0.06	0.2	0.03	2.6	<0.1	<0.05	4	0.5	<0.2
124342	Soil	14	26	0.52	376	0.053	1	1.32	0.026	0.07	0.3	0.04	2.7	<0.1	<0.05	4	0.5	<0.2
124343	Soil	14	26	0.55	409	0.055	2	1.33	0.027	0.06	0.2	0.03	2.9	<0.1	<0.05	4	0.6	<0.2
124344	Soil	13	24	0.84	393	0.063	2	1.20	0.029	0.09	0.2	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
124345	Soil	12	25	0.48	333	0.048	1	1.37	0.018	0.07	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2

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Project: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
124346	Soil	1.1	24.8	9.3	65	0.1	23.0	10.6	312	2.71	10.1	1.0	1.9	3.8	31	0.2	0.7	0.2	54	0.53	0.067
124347	Soil	0.8	22.7	9.0	68	0.1	22.6	9.8	303	2.50	8.1	1.0	2.1	3.2	34	0.2	0.7	0.2	53	0.57	0.070
124348	Soil	0.9	22.6	9.0	68	0.1	24.0	11.2	371	2.58	8.8	1.0	3.2	4.2	29	0.3	0.7	0.2	50	0.46	0.075
124349	Soil	0.9	28.1	8.0	65	0.1	26.0	9.8	371	2.50	9.8	0.7	2.5	4.0	33	0.3	0.7	0.2	51	0.64	0.077
124350	Soil	0.8	24.5	7.8	64	0.1	23.0	9.9	250	2.29	7.3	0.5	4.3	3.5	30	0.2	0.6	0.1	49	0.57	0.070
124351	Soil	2.0	29.4	9.0	128	0.4	45.2	18.9	1961	2.78	7.2	<0.1	3.3	3.2	20	1.3	0.5	0.1	65	0.45	0.076
124352	Soil	3.5	63.7	11.2	243	0.3	147.5	20.8	1384	3.84	19.4	1.0	7.3	3.0	23	1.8	3.1	0.2	81	0.35	0.058
124353	Soil	2.4	46.9	11.0	168	0.3	73.8	26.3	1700	3.52	12.6	1.5	8.9	4.1	22	1.3	1.4	0.2	71	0.20	0.093
124354	Soil	1.8	30.6	9.0	133	0.2	45.6	14.6	701	3.31	10.6	1.2	2.7	4.1	20	0.5	0.7	0.2	80	0.19	0.043
124355	Soil	1.9	35.3	8.5	133	0.4	40.9	12.5	472	3.45	9.7	2.0	10.4	5.3	21	0.2	0.8	0.2	86	0.21	0.038
124356	Soil	2.1	26.3	7.4	96	0.5	30.4	9.8	491	2.88	8.7	0.9	6.2	3.7	15	0.2	0.6	0.1	64	0.15	0.044
124358	Soil	2.8	37.8	10.4	159	0.7	46.5	19.9	1364	4.39	11.7	1.6	6.5	4.0	18	0.3	0.7	0.2	77	0.18	0.099
124359	Soil	0.7	19.2	8.9	69	<0.1	22.1	11.1	251	2.92	4.5	3.4	5.0	11.8	13	<0.1	0.2	0.2	36	0.23	0.048
124360	Soil	0.7	21.6	8.5	67	<0.1	25.8	13.1	314	3.49	3.6	2.7	1.5	11.5	14	<0.1	0.2	0.2	42	0.28	0.039
124361	Soil	0.8	17.7	8.4	58	<0.1	20.0	10.0	221	2.87	4.6	2.9	2.6	8.1	12	<0.1	0.2	0.2	40	0.22	0.048
124362	Soil	0.7	22.1	9.7	63	0.2	23.3	10.5	247	2.97	6.0	2.1	179.6	10.2	18	<0.1	0.3	0.2	45	0.31	0.045
124363	Soil	0.8	20.7	8.6	55	<0.1	21.5	9.8	298	2.51	7.5	1.2	2.1	5.9	22	<0.1	0.5	0.2	45	0.31	0.051
124364	Soil	1.0	21.4	9.2	69	0.1	22.6	10.6	323	2.55	8.2	1.1	1.9	4.0	30	0.2	0.6	0.2	48	0.46	0.064
124365	Soil	0.4	17.0	9.3	68	<0.1	21.3	10.5	258	2.63	3.7	1.5	4.0	8.3	19	<0.1	0.3	0.4	44	0.36	0.063
124366	Soil	0.5	13.0	7.8	59	<0.1	18.2	10.3	338	2.83	4.9	1.2	6.0	8.0	15	<0.1	0.2	0.2	38	0.28	0.071
124367	Soil	2.4	56.5	15.5	129	0.2	47.4	13.4	308	3.54	14.0	1.7	5.5	5.4	20	0.5	0.5	0.3	99	0.40	0.122
124368	Soil	1.8	84.3	8.7	142	0.3	88.5	17.5	489	4.98	11.4	2.2	4.4	4.5	34	0.4	0.5	0.2	143	0.68	0.176
124369	Soil	1.9	41.8	10.3	99	0.2	40.0	13.4	480	3.06	8.8	1.6	2.3	4.6	30	0.4	0.4	0.2	76	0.56	0.115
124370	Soil	1.2	36.7	8.5	73	0.1	39.6	12.0	327	2.98	8.2	1.4	2.2	3.6	32	0.2	0.5	0.2	70	0.54	0.094
124371	Soil	1.4	33.8	10.4	80	<0.1	39.0	14.7	411	3.16	9.7	0.8	2.6	4.0	26	0.2	0.5	0.2	76	0.42	0.083
124372	Soil	1.3	41.1	8.3	80	<0.1	44.6	14.5	328	3.46	9.1	1.2	2.5	4.0	26	0.1	0.5	0.2	82	0.50	0.104
124373	Soil	1.3	96.4	6.4	196	<0.1	104.9	19.2	489	5.02	3.8	1.7	2.8	5.9	57	0.4	0.2	0.2	181	0.93	0.224
124374	Soil	1.5	32.3	8.8	87	0.1	42.6	10.1	348	2.84	13.8	1.1	4.1	4.8	24	0.2	0.4	0.2	71	0.42	0.061
124375	Soil	1.6	42.8	9.4	93	0.4	44.5	12.8	337	2.83	6.0	2.8	11.4	4.6	34	0.5	0.3	0.2	75	0.69	0.091
124376	Soil	1.9	43.5	9.2	68	0.1	33.4	12.6	348	2.88	5.5	3.6	3.2	6.5	20	0.1	0.3	0.2	54	0.34	0.044

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
124346	Soil	13	28	0.57	319	0.055	1	1.50	0.021	0.06	0.2	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
124347	Soil	13	27	0.53	341	0.052	2	1.47	0.021	0.06	0.2	0.04	2.9	<0.1	<0.05	4	0.7	<0.2
124348	Soil	16	25	0.51	332	0.058	2	1.37	0.021	0.08	0.2	0.05	2.7	<0.1	<0.05	4	0.6	<0.2
124349	Soil	14	26	0.57	312	0.064	2	1.26	0.026	0.08	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
124350	Soil	13	26	0.53	295	0.060	1	1.27	0.025	0.06	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
124351	Soil	15	36	0.51	376	0.069	1	1.25	0.010	0.18	0.2	0.07	3.2	0.2	<0.05	4	0.9	<0.2
124352	Soil	12	39	0.23	579	0.025	1	1.22	0.006	0.09	0.5	0.09	4.4	0.1	<0.05	4	1.0	<0.2
124353	Soil	15	52	0.34	612	0.062	<1	1.02	0.006	0.19	0.1	0.05	3.1	0.4	<0.05	4	1.1	<0.2
124354	Soil	12	52	0.62	414	0.083	1	1.79	0.009	0.13	0.2	0.02	3.6	0.1	<0.05	5	0.6	<0.2
124355	Soil	19	59	0.68	478	0.088	<1	1.85	0.008	0.10	0.2	0.10	4.9	0.2	<0.05	6	0.8	<0.2
124356	Soil	12	33	0.40	294	0.060	<1	1.13	0.006	0.08	0.1	0.04	2.3	0.2	<0.05	4	0.6	<0.2
124358	Soil	14	43	0.42	522	0.071	<1	1.49	0.007	0.22	0.1	0.07	4.0	0.6	<0.05	6	0.7	<0.2
124359	Soil	31	29	0.59	149	0.124	<1	1.81	0.013	0.51	<0.1	0.02	2.6	0.4	<0.05	6	<0.5	<0.2
124360	Soil	32	34	0.71	209	0.168	<1	2.01	0.010	0.60	0.1	0.02	3.1	0.4	<0.05	6	<0.5	<0.2
124361	Soil	26	28	0.53	154	0.113	<1	1.77	0.009	0.39	0.2	0.03	2.4	0.3	<0.05	6	<0.5	<0.2
124362	Soil	30	31	0.58	220	0.110	<1	1.76	0.011	0.32	0.1	0.03	3.0	0.2	<0.05	6	<0.5	<0.2
124363	Soil	19	27	0.50	278	0.072	<1	1.51	0.012	0.10	0.1	0.03	2.9	0.1	<0.05	4	<0.5	<0.2
124364	Soil	15	26	0.54	326	0.056	<1	1.55	0.022	0.07	0.2	0.04	2.6	<0.1	<0.05	4	0.6	<0.2
124365	Soil	30	34	0.62	182	0.128	1	1.70	0.013	0.43	0.2	0.03	3.4	0.3	0.12	6	<0.5	<0.2
124366	Soil	28	29	0.56	158	0.120	<1	1.63	0.011	0.44	0.2	0.02	3.1	0.3	0.07	6	<0.5	<0.2
124367	Soil	23	65	0.84	508	0.093	<1	1.75	0.013	0.37	0.2	0.02	4.8	0.2	0.06	7	1.7	<0.2
124368	Soil	26	99	1.28	1177	0.161	<1	3.04	0.016	0.64	0.3	0.04	8.5	0.2	<0.05	11	0.7	<0.2
124369	Soil	24	54	0.82	452	0.105	<1	1.81	0.014	0.30	0.2	0.03	4.5	0.2	<0.05	7	0.6	<0.2
124370	Soil	18	60	0.76	421	0.104	<1	1.80	0.017	0.08	0.2	0.02	4.5	<0.1	<0.05	6	0.5	<0.2
124371	Soil	15	63	0.73	335	0.102	<1	1.88	0.016	0.08	0.2	<0.01	4.0	<0.1	<0.05	7	<0.5	<0.2
124372	Soil	19	73	0.90	382	0.108	<1	1.97	0.018	0.07	0.1	<0.01	5.1	<0.1	<0.05	7	<0.5	<0.2
124373	Soil	26	145	2.02	1043	0.163	<1	3.20	0.015	1.02	<0.1	<0.01	11.0	0.5	<0.05	13	0.8	<0.2
124374	Soil	18	56	0.65	376	0.072	<1	1.71	0.012	0.07	0.1	0.02	4.0	<0.1	<0.05	7	<0.5	<0.2
124375	Soil	22	58	0.65	942	0.080	<1	1.66	0.012	0.16	0.2	0.05	4.9	0.1	0.09	7	1.2	<0.2
124376	Soil	31	40	0.64	364	0.100	<1	1.83	0.011	0.29	0.1	0.03	4.5	0.2	<0.05	6	1.0	<0.2

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 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
		ppm	ppm	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	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
124377	Soil	3.0	78.9	7.3	97	0.2	50.1	14.5	273	3.44	16.3	2.6	4.0	6.2	14	0.3	0.4	0.3	53	0.24	0.056		
124378	Soil	2.1	67.0	9.2	103	<0.1	43.9	17.3	361	3.92	15.8	1.7	4.7	7.4	17	0.2	0.7	0.3	67	0.20	0.031		
124379	Soil	1.6	42.7	9.3	105	0.2	48.3	12.8	427	3.14	11.6	1.6	3.6	5.1	32	0.3	0.4	0.2	77	0.58	0.100		
124380	Soil	1.6	47.7	7.9	135	0.2	51.2	15.4	541	3.42	7.8	1.1	2.8	4.5	28	0.3	0.4	0.2	96	0.53	0.105		
124381	Soil	1.5	80.1	8.9	183	<0.1	112.5	18.7	658	4.64	12.3	1.3	2.1	6.5	18	0.3	0.3	0.2	174	0.42	0.126		
124382	Soil	0.4	15.8	7.5	62	<0.1	19.2	10.1	224	2.41	3.2	1.5	1.4	7.3	15	0.1	0.2	0.1	36	0.27	0.068		
124383	Soil	0.9	16.1	9.0	66	<0.1	19.3	8.7	168	2.76	7.0	1.9	4.1	6.6	19	0.1	0.3	0.2	51	0.31	0.067		
124384	Soil	1.0	42.7	15.2	100	0.2	32.6	15.4	715	3.80	12.5	2.4	3.9	14.2	17	0.2	0.3	0.4	55	0.28	0.050		
124385	Soil	1.4	39.3	15.9	75	0.3	25.9	12.8	487	3.45	5.7	2.4	3.6	8.5	19	0.2	0.3	0.3	45	0.26	0.068		
124386	Soil	1.5	31.7	14.0	79	<0.1	27.3	13.9	416	3.51	8.0	1.4	3.7	7.3	13	0.1	0.3	0.3	51	0.17	0.052		
124387	Soil	1.4	33.2	15.1	80	0.1	27.0	13.5	367	3.53	5.9	1.5	2.9	8.5	13	0.1	0.3	0.3	53	0.15	0.047		
124388	Soil	1.5	38.8	35.9	95	0.3	26.3	12.5	416	3.72	9.8	1.9	3.5	8.1	18	0.2	0.3	0.3	55	0.19	0.057		
124389	Soil	1.0	35.9	19.7	102	<0.1	33.3	17.1	609	4.41	5.9	1.4	2.3	15.8	14	<0.1	0.2	0.4	50	0.23	0.054		
124390	Soil	1.8	46.0	19.3	86	0.5	29.7	13.6	389	3.70	8.0	2.4	9.9	10.4	12	0.1	0.3	0.4	45	0.16	0.059		
124391	Soil	1.6	58.7	16.5	81	0.4	37.0	16.3	591	3.49	8.2	4.0	9.4	15.6	24	0.2	0.3	0.4	50	0.49	0.064		
124392	Soil	1.8	61.5	17.7	95	0.2	37.5	16.4	453	3.95	6.9	2.8	3.3	13.0	16	0.1	0.2	0.4	54	0.21	0.062		
101871	Soil	1.5	46.4	18.6	136	<0.1	47.8	15.8	341	4.24	10.0	1.7	17.5	13.3	16	0.2	0.4	0.3	85	0.53	0.105		
101872	Soil	0.8	56.1	13.8	108	0.2	65.6	18.6	875	3.83	8.6	1.0	5.8	7.9	16	0.2	0.4	0.2	88	0.75	0.091		
101873	Soil	1.1	32.6	11.5	89	0.2	31.0	10.4	260	3.41	10.5	0.7	3.0	5.5	13	<0.1	0.6	0.2	66	0.21	0.039		
101874	Soil	0.7	48.4	21.3	116	<0.1	43.3	13.9	415	3.92	7.1	1.7	4.8	13.2	21	<0.1	0.4	0.2	78	0.49	0.083		
101875	Soil	1.3	44.7	12.5	87	0.2	32.7	10.0	442	3.08	26.4	1.0	6.2	5.9	16	<0.1	1.8	0.2	67	0.32	0.055		
101876	Soil	0.9	44.9	11.4	76	0.4	34.8	12.1	680	2.78	10.5	1.2	3.5	4.3	24	0.6	0.8	0.2	62	1.02	0.058		
101877	Soil	0.9	57.9	16.7	137	0.1	61.9	17.2	710	3.78	13.8	1.5	3.4	9.3	10	0.4	0.7	0.2	81	1.04	0.123		
101878	Soil	0.7	54.8	20.7	183	<0.1	39.6	11.1	567	4.47	5.7	1.2	3.7	10.6	20	0.1	0.3	0.2	99	0.54	0.100		
101879	Soil	0.6	55.8	17.8	133	0.2	50.3	14.0	610	3.35	5.1	1.3	8.2	11.1	18	0.4	0.3	0.2	70	0.92	0.052		
101880	Soil	0.7	58.4	19.2	85	0.3	47.1	13.2	497	2.54	11.6	2.0	6.8	5.5	29	1.4	1.3	0.5	50	1.14	0.066		
101881	Soil	0.5	76.2	16.6	122	0.1	72.6	17.6	818	3.24	4.4	1.4	3.9	8.5	21	0.5	0.2	0.2	101	1.07	0.093		
101882	Soil	1.0	57.1	14.2	81	0.1	60.0	13.1	514	2.90	15.2	1.7	5.4	6.3	26	0.3	0.7	0.3	65	0.77	0.054		
101883	Soil	0.9	57.5	17.7	79	0.2	40.0	13.2	316	2.81	16.0	2.3	5.9	5.2	29	0.9	0.9	0.4	54	0.79	0.062		
101884	Soil	0.7	40.0	19.7	95	0.2	19.2	8.7	188	2.45	7.2	1.8	4.4	5.7	22	0.3	0.4	0.3	50	0.39	0.048		

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Report Date: September 19, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
124377	Soil	32	38	0.50	252	0.069	<1	1.51	0.008	0.29	0.2	0.01	4.0	0.4	<0.05	6	0.7	<0.2
124378	Soil	22	48	0.65	314	0.090	<1	2.14	0.011	0.18	0.2	0.02	5.5	0.2	<0.05	6	0.6	<0.2
124379	Soil	26	68	0.77	425	0.070	<1	1.98	0.014	0.11	0.2	0.04	5.2	0.1	0.06	8	0.6	<0.2
124380	Soil	22	69	1.07	590	0.115	<1	2.04	0.019	0.32	0.1	0.01	5.2	0.2	<0.05	8	0.6	<0.2
124381	Soil	33	163	1.89	1156	0.194	<1	3.16	0.014	0.63	0.1	<0.01	9.7	0.6	<0.05	13	0.5	<0.2
124382	Soil	27	23	0.51	168	0.105	<1	1.49	0.011	0.32	0.2	0.01	3.0	0.3	0.06	5	<0.5	<0.2
124383	Soil	29	30	0.52	177	0.101	<1	1.59	0.013	0.24	0.2	0.03	3.2	0.2	0.10	6	<0.5	<0.2
124384	Soil	58	47	0.82	228	0.117	<1	2.52	0.010	0.42	0.2	0.02	5.3	0.3	<0.05	10	<0.5	<0.2
124385	Soil	40	37	0.66	168	0.115	<1	1.84	0.011	0.46	0.2	0.03	4.0	0.3	0.08	8	<0.5	<0.2
124386	Soil	25	34	0.62	139	0.110	<1	1.86	0.009	0.34	0.2	<0.01	3.2	0.2	0.07	7	<0.5	<0.2
124387	Soil	27	37	0.72	147	0.131	<1	2.20	0.009	0.47	0.1	0.01	3.6	0.4	0.06	8	<0.5	<0.2
124388	Soil	45	37	0.66	204	0.123	<1	2.12	0.011	0.43	0.1	0.03	3.7	0.4	0.11	9	<0.5	<0.2
124389	Soil	46	46	1.04	205	0.170	<1	2.75	0.010	0.89	<0.1	<0.01	4.9	0.6	0.07	10	<0.5	<0.2
124390	Soil	52	35	0.71	180	0.107	<1	2.15	0.009	0.39	0.1	0.11	4.2	0.3	0.12	8	<0.5	<0.2
124391	Soil	111	37	0.70	220	0.103	<1	2.01	0.013	0.32	0.1	0.16	5.1	0.3	0.10	8	0.7	<0.2
124392	Soil	54	41	0.95	203	0.146	<1	2.38	0.010	0.58	0.1	0.05	4.4	0.4	0.09	9	<0.5	<0.2
101871	Soil	47	63	0.97	381	0.125	<1	2.54	0.010	0.63	0.1	0.09	5.8	1.1	0.06	9	0.7	<0.2
101872	Soil	32	91	1.53	631	0.154	<1	2.91	0.016	0.79	0.1	0.17	8.2	0.6	0.09	10	<0.5	<0.2
101873	Soil	19	36	0.72	262	0.107	<1	2.29	0.008	0.32	0.1	0.35	4.2	0.5	0.08	7	<0.5	<0.2
101874	Soil	51	62	1.09	432	0.133	<1	2.67	0.009	0.58	0.1	0.16	6.6	0.6	0.13	9	<0.5	<0.2
101875	Soil	21	42	1.02	378	0.115	<1	2.11	0.008	0.36	0.1	1.47	4.3	1.1	0.11	7	0.8	<0.2
101876	Soil	24	38	0.53	354	0.077	1	2.03	0.015	0.07	0.2	0.39	5.5	0.2	0.11	6	0.7	<0.2
101877	Soil	36	80	1.25	285	0.056	<1	2.64	0.008	0.41	<0.1	0.36	7.6	1.0	0.06	10	0.6	<0.2
101878	Soil	38	65	1.42	416	0.226	<1	3.52	0.011	1.11	<0.1	0.14	10.0	1.0	<0.05	13	0.6	<0.2
101879	Soil	35	107	1.66	446	0.173	1	2.78	0.014	0.71	0.1	0.06	11.5	0.5	<0.05	9	0.6	<0.2
101880	Soil	32	33	0.51	439	0.073	3	1.71	0.012	0.11	0.2	0.30	6.3	0.3	0.07	5	0.9	<0.2
101881	Soil	24	133	1.70	644	0.167	1	2.47	0.011	0.68	<0.1	0.06	9.7	1.1	<0.05	9	<0.5	<0.2
101882	Soil	23	72	0.81	377	0.098	1	1.95	0.011	0.19	0.2	0.09	6.0	0.9	<0.05	6	0.7	<0.2
101883	Soil	30	31	0.49	439	0.058	1	1.63	0.011	0.06	0.2	0.13	5.9	0.9	<0.05	5	0.7	<0.2
101884	Soil	24	37	0.60	395	0.098	<1	1.71	0.010	0.16	0.1	0.10	5.3	0.2	<0.05	6	<0.5	<0.2

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Project: Montana
 Report Date: September 19, 2011

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
101885	Soil	0.5	20.8	14.6	75	<0.1	13.1	7.6	267	2.09	5.8	1.0	4.9	5.1	18	0.1	0.3	0.2	38	0.25	0.048
101886	Soil	0.7	31.4	18.2	86	0.2	18.4	7.3	179	2.67	7.1	1.6	4.1	4.1	26	0.3	0.4	0.2	46	0.21	0.049
101887	Soil	1.3	49.8	22.0	106	0.2	21.9	10.6	302	2.90	11.5	1.7	3.1	5.8	33	0.4	0.5	0.3	59	0.27	0.050
101888	Soil	1.2	34.1	15.1	89	0.1	20.8	9.6	276	2.69	9.2	1.5	7.3	6.8	29	0.2	0.5	0.2	57	0.28	0.048
101889	Soil	0.7	29.1	16.7	92	0.2	19.0	13.8	442	2.65	8.7	1.4	3.8	4.8	33	0.3	0.5	0.3	50	0.37	0.063
101890	Soil	0.9	28.2	12.0	65	0.1	19.4	9.3	366	2.31	12.3	1.3	1.5	3.3	46	0.4	0.8	0.2	49	0.55	0.075
101891	Soil	1.4	31.5	12.3	72	0.1	24.3	10.8	323	2.54	14.6	2.5	21.9	4.8	58	0.5	1.1	0.2	45	0.67	0.076
101892	Soil	0.8	39.9	12.0	79	0.1	25.5	10.7	375	2.53	13.0	0.8	8.3	5.3	44	0.4	1.0	0.2	51	0.57	0.085
101893	Soil	1.1	43.9	13.5	71	0.1	22.1	9.1	242	2.57	15.3	1.7	4.5	5.8	31	0.2	1.2	0.3	49	0.26	0.062
101894	Soil	1.1	41.2	12.7	61	0.1	20.2	8.1	191	2.43	16.3	1.3	11.8	3.8	28	0.3	1.0	0.3	46	0.23	0.063
101895	Soil	1.4	56.9	15.9	72	0.2	27.2	9.4	243	2.77	15.8	1.8	4.9	6.2	35	0.3	1.1	0.3	54	0.30	0.059
101896	Soil	1.1	46.6	13.1	57	0.1	21.2	8.2	167	2.43	14.0	1.9	6.0	4.9	29	0.2	0.9	0.3	46	0.24	0.054
101897	Soil	1.3	55.0	12.1	57	0.1	23.1	8.0	183	2.50	13.4	1.7	5.5	7.9	21	0.2	1.0	0.3	45	0.17	0.042
101898	Soil	1.8	71.5	13.8	62	0.4	34.1	12.3	204	3.53	21.5	2.7	10.7	10.1	19	0.1	1.6	0.4	58	0.18	0.069
101899	Soil	1.4	53.3	17.2	50	<0.1	23.3	9.0	220	2.50	49.4	2.0	6.7	8.8	17	<0.1	2.4	0.3	38	0.13	0.031
101900	Soil	1.3	40.9	13.0	57	0.1	22.1	8.5	187	2.58	20.8	1.3	7.8	6.9	21	0.1	1.4	0.3	45	0.16	0.042
101901	Soil	1.3	111.1	11.5	121	0.2	56.1	17.8	320	4.11	56.1	3.6	5.7	13.9	17	0.2	5.4	0.5	38	0.11	0.068
101902	Soil	1.1	47.5	15.3	69	<0.1	33.2	12.8	277	3.21	18.5	1.6	4.8	7.8	17	0.1	2.1	0.3	49	0.12	0.029
101903	Soil	2.2	83.6	15.4	75	0.1	37.5	22.3	365	3.17	20.9	1.7	6.5	7.5	7	0.2	1.5	0.3	50	0.04	0.044
101904	Soil	0.9	41.1	13.7	60	<0.1	27.1	11.9	250	2.93	12.1	1.4	3.4	6.2	15	0.1	0.7	0.3	48	0.11	0.032
101905	Soil	0.9	27.8	15.9	64	0.1	22.2	10.2	445	2.66	15.3	1.1	3.8	6.1	31	0.1	0.6	0.2	54	0.48	0.041
100520	Soil	0.8	44.8	25.1	100	0.3	15.5	6.2	170	2.51	8.6	1.4	3.8	4.0	22	0.2	0.5	0.4	46	0.18	0.049
100521	Soil	1.1	54.6	36.6	126	0.7	16.5	9.0	340	3.14	11.8	1.3	15.4	5.7	20	0.4	0.6	0.5	65	0.20	0.063
100522	Soil	0.8	35.9	19.2	101	0.2	16.3	8.7	295	2.74	7.1	1.2	2.0	7.5	16	0.2	0.4	0.3	55	0.18	0.059
100523	Soil	0.6	30.7	20.5	77	0.3	13.6	5.1	125	1.99	7.2	1.1	3.4	2.2	21	0.2	0.4	0.4	38	0.17	0.048
100524	Soil	0.8	40.3	23.0	91	0.3	17.1	7.2	159	2.28	7.6	1.5	4.1	3.5	24	0.3	0.4	0.5	46	0.20	0.052
100525	Soil	0.7	34.0	15.1	75	0.3	18.0	7.0	171	2.04	5.7	1.8	10.6	3.3	27	0.4	0.4	0.2	39	0.25	0.056
100526	Soil	0.9	26.8	15.3	76	0.2	14.9	6.8	168	2.47	8.8	1.3	3.1	3.8	21	0.2	0.4	0.2	46	0.18	0.049
100527	Soil	1.0	30.4	24.5	84	0.1	15.1	6.9	191	2.53	8.1	1.5	3.3	6.0	22	0.2	0.4	0.3	44	0.19	0.054
100528	Soil	1.1	30.2	15.8	71	0.1	15.5	8.2	293	2.50	7.9	1.4	3.0	5.7	18	0.2	0.3	0.2	47	0.17	0.052

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
101885	Soil	18	27	0.47	256	0.084	<1	1.17	0.009	0.16	0.2	0.04	3.6	0.2	<0.05	4	<0.5	<0.2
101886	Soil	20	36	0.57	313	0.091	2	1.81	0.011	0.13	0.1	0.07	4.6	0.2	<0.05	6	<0.5	<0.2
101887	Soil	21	45	0.89	349	0.101	<1	1.98	0.012	0.12	0.2	0.03	6.1	0.1	<0.05	6	0.7	<0.2
101888	Soil	19	49	0.72	268	0.107	<1	1.57	0.013	0.15	0.1	0.03	4.5	0.1	<0.05	5	<0.5	<0.2
101889	Soil	21	33	0.61	370	0.088	1	1.61	0.014	0.13	0.1	0.07	4.6	0.2	<0.05	5	<0.5	<0.2
101890	Soil	15	25	0.43	407	0.056	1	1.25	0.015	0.04	0.3	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
101891	Soil	15	25	0.53	400	0.076	2	1.15	0.028	0.05	0.3	0.04	3.8	<0.1	<0.05	3	0.8	<0.2
101892	Soil	16	28	0.60	376	0.094	2	1.26	0.031	0.07	0.2	0.04	4.2	<0.1	<0.05	4	0.5	<0.2
101893	Soil	20	28	0.45	359	0.078	<1	1.52	0.012	0.06	0.2	0.27	4.4	0.1	<0.05	5	<0.5	<0.2
101894	Soil	18	26	0.39	311	0.071	2	1.39	0.011	0.06	0.2	0.24	3.6	0.1	<0.05	4	0.7	<0.2
101895	Soil	23	32	0.49	380	0.099	<1	1.75	0.013	0.08	0.1	0.25	4.9	0.1	<0.05	5	0.6	<0.2
101896	Soil	21	28	0.44	306	0.085	<1	1.62	0.010	0.07	0.2	0.31	4.2	0.2	<0.05	5	<0.5	<0.2
101897	Soil	24	29	0.41	239	0.091	<1	1.42	0.008	0.14	0.1	0.29	3.8	0.2	<0.05	4	<0.5	<0.2
101898	Soil	32	42	0.68	257	0.140	<1	2.05	0.009	0.44	0.1	1.25	5.6	0.5	<0.05	6	0.7	<0.2
101899	Soil	25	27	0.40	237	0.067	<1	1.28	0.007	0.11	0.1	0.87	3.8	0.3	<0.05	4	0.6	<0.2
101900	Soil	20	27	0.46	230	0.073	<1	1.42	0.008	0.10	0.1	0.40	3.3	0.3	<0.05	4	<0.5	<0.2
101901	Soil	41	28	0.35	197	0.051	<1	1.07	0.005	0.26	0.2	0.73	4.3	1.0	0.07	4	1.1	<0.2
101902	Soil	19	29	0.48	216	0.093	<1	1.72	0.007	0.13	0.1	0.38	3.6	0.7	<0.05	5	0.7	<0.2
101903	Soil	23	33	0.46	134	0.130	<1	1.59	0.006	0.36	<0.1	0.24	3.2	0.7	<0.05	5	<0.5	<0.2
101904	Soil	17	32	0.44	264	0.071	<1	1.80	0.009	0.08	0.2	0.07	3.8	0.1	<0.05	5	<0.5	<0.2
101905	Soil	17	31	0.55	403	0.071	<1	1.63	0.015	0.04	0.1	0.07	4.8	0.1	<0.05	5	<0.5	<0.2
100520	Soil	19	29	0.48	299	0.086	<1	1.57	0.010	0.10	0.1	0.06	4.0	0.1	<0.05	6	<0.5	<0.2
100521	Soil	19	29	0.59	348	0.116	<1	1.64	0.010	0.21	0.1	0.07	4.4	0.2	<0.05	6	<0.5	<0.2
100522	Soil	21	29	0.61	287	0.138	<1	1.60	0.010	0.36	<0.1	0.03	4.1	0.3	<0.05	5	<0.5	<0.2
100523	Soil	16	25	0.39	251	0.070	<1	1.37	0.010	0.09	0.1	0.06	3.3	0.1	<0.05	5	<0.5	<0.2
100524	Soil	19	30	0.49	313	0.087	<1	1.65	0.012	0.11	0.1	0.05	4.2	0.1	<0.05	5	<0.5	<0.2
100525	Soil	24	27	0.40	311	0.069	<1	1.49	0.011	0.10	0.2	0.06	4.1	0.1	<0.05	5	<0.5	<0.2
100526	Soil	18	26	0.42	226	0.069	<1	1.42	0.010	0.08	0.1	0.04	3.2	0.1	<0.05	5	<0.5	<0.2
100527	Soil	22	29	0.47	233	0.089	<1	1.59	0.010	0.13	0.2	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
100528	Soil	23	28	0.45	214	0.084	<1	1.39	0.010	0.15	0.2	0.04	3.5	0.1	<0.05	5	<0.5	<0.2

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Project: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
100529	Soil	0.8	18.3	9.3	58	0.2	15.1	5.5	149	2.32	5.3	0.2	8.0	2.6	14	0.1	0.3	0.2	48	0.19	0.043
100530	Soil	0.9	21.4	8.5	72	0.1	20.7	9.5	264	2.62	4.2	0.2	2.8	4.8	13	0.1	0.3	0.1	47	0.19	0.047
100531	Soil	0.7	33.0	8.9	93	0.1	24.1	9.3	272	3.07	3.3	0.2	3.2	7.1	15	0.1	0.2	0.1	60	0.23	0.054
100532	Soil	0.7	19.5	9.7	56	0.2	15.7	5.6	137	2.25	4.8	0.1	3.3	2.7	17	0.1	0.3	0.2	41	0.21	0.048
100533	Soil	1.1	26.1	11.6	65	0.2	19.3	7.9	215	2.48	7.4	0.1	1.8	4.0	20	0.2	0.4	0.2	47	0.26	0.061
100534	Soil	0.9	23.3	8.8	52	0.2	14.6	5.5	144	2.26	6.7	<0.1	3.9	2.5	14	<0.1	0.3	0.1	46	0.19	0.041
100535	Soil	0.9	22.0	10.3	58	0.2	18.7	6.3	159	2.39	6.2	0.2	3.9	3.0	20	0.2	0.3	0.2	44	0.28	0.056
100536	Soil	0.9	34.2	9.2	71	0.1	23.3	7.1	211	2.72	6.0	0.1	1.3	6.0	20	<0.1	0.4	0.2	49	0.28	0.047
100537	Soil	1.4	33.4	13.7	82	0.2	23.6	9.1	243	3.15	7.8	0.3	2.4	4.4	23	0.2	0.4	0.2	59	0.29	0.047
100538	Soil	1.1	29.4	10.8	73	0.2	19.3	9.5	274	2.63	6.8	0.2	1.4	3.6	20	0.2	0.4	0.2	48	0.26	0.047
100539	Soil	0.8	17.8	8.6	49	0.1	12.3	5.1	145	1.84	4.3	0.2	4.1	2.8	13	0.1	0.2	0.1	39	0.19	0.044
100540	Soil	0.7	18.2	9.3	53	0.2	13.5	5.3	151	1.99	4.6	<0.1	5.1	2.6	14	0.1	0.2	0.2	43	0.20	0.042
100541	Soil	0.5	15.1	8.6	52	0.2	13.4	5.0	121	1.84	3.9	0.1	1.4	1.9	15	0.1	0.2	0.1	34	0.20	0.048
100542	Soil	1.0	16.7	9.3	61	0.1	16.6	6.6	210	2.39	5.7	0.5	3.2	3.6	14	0.1	0.3	0.1	50	0.20	0.050
100543	Soil	1.0	21.4	9.8	68	<0.1	22.1	9.2	262	2.82	5.6	1.6	1.8	5.4	13	0.1	0.3	0.1	55	0.22	0.068
100544	Soil	0.7	18.6	8.6	48	0.1	14.1	4.7	107	1.97	4.2	1.0	1.0	1.1	14	0.2	0.2	0.1	40	0.17	0.041
100545	Soil	0.7	16.1	8.5	54	0.1	13.1	4.9	126	2.12	4.6	0.9	3.4	2.5	14	0.1	0.2	0.1	38	0.17	0.047
100546	Soil	0.6	18.3	10.8	65	0.1	14.4	5.5	123	2.07	4.8	1.1	3.0	2.9	15	0.2	0.2	0.2	39	0.20	0.050
100547	Soil	0.8	18.4	9.6	66	0.1	15.4	7.5	194	2.35	5.4	1.2	5.6	3.3	15	0.1	0.2	0.2	46	0.20	0.045
100548	Soil	0.6	15.1	8.6	65	0.1	15.2	5.6	144	2.11	4.1	0.9	2.0	2.5	15	0.2	0.2	0.1	42	0.20	0.050
100549	Soil	0.8	19.1	12.3	65	0.2	15.0	6.3	162	2.19	5.6	1.0	1.7	3.0	14	0.2	0.2	0.2	45	0.20	0.046
100550	Soil	0.5	19.1	12.8	66	0.3	13.9	4.8	115	1.80	3.6	1.0	2.0	1.9	15	0.1	0.2	0.2	34	0.19	0.044
100551	Soil	0.6	18.9	14.3	68	0.3	14.1	5.5	140	2.03	4.4	0.9	1.9	2.0	13	0.1	0.2	0.2	42	0.17	0.041
100552	Soil	0.9	31.5	14.0	101	0.2	23.6	8.7	278	2.89	3.4	1.4	1.3	7.8	16	0.2	0.2	0.2	52	0.27	0.070
100553	Soil	0.7	29.8	20.1	82	0.5	15.9	5.7	152	2.19	4.2	1.1	3.8	2.5	16	0.2	0.3	0.3	41	0.21	0.046
100554	Soil	0.7	16.4	8.2	60	0.2	12.9	4.9	131	2.01	4.8	0.9	2.0	2.2	12	0.1	0.2	0.2	41	0.15	0.043
100555	Soil	0.7	17.0	7.9	58	0.1	13.8	5.2	146	2.21	4.3	1.1	1.7	3.3	13	0.1	0.2	0.2	44	0.17	0.046
106632	Soil	0.5	22.0	12.3	63	<0.1	21.4	9.2	351	2.97	30.0	1.9	12.5	16.4	10	<0.1	0.5	0.3	49	0.15	0.022
106633	Soil	0.3	22.7	8.9	57	<0.1	21.4	10.5	410	3.20	1.1	1.5	3.2	12.8	12	<0.1	0.3	0.2	34	0.29	0.020
106634	Soil	0.3	23.5	14.2	63	<0.1	22.5	11.4	580	3.67	2.7	2.2	8.6	12.9	11	<0.1	0.4	0.3	53	0.28	0.056

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 Report Date: September 19, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
100529	Soil	14	32	0.50	159	0.072	<1	1.68	0.008	0.13	0.2	0.05	2.9	0.1	<0.05	6	<0.5	<0.2
100530	Soil	19	37	0.58	219	0.073	1	1.66	0.009	0.24	0.1	0.03	3.2	0.2	<0.05	6	<0.5	<0.2
100531	Soil	28	50	0.81	302	0.137	<1	2.01	0.009	0.63	0.2	0.03	4.6	0.3	<0.05	7	0.5	<0.2
100532	Soil	15	33	0.47	190	0.070	<1	1.67	0.008	0.10	0.2	0.05	3.0	0.1	<0.05	6	0.5	<0.2
100533	Soil	17	33	0.50	237	0.072	<1	1.75	0.011	0.07	0.2	0.04	3.3	0.1	<0.05	5	0.7	<0.2
100534	Soil	16	31	0.45	159	0.068	<1	1.59	0.009	0.09	0.2	0.05	2.8	0.1	<0.05	5	0.5	<0.2
100535	Soil	18	31	0.50	209	0.057	<1	1.56	0.010	0.09	0.2	0.05	2.8	0.1	<0.05	5	0.5	<0.2
100536	Soil	21	35	0.65	244	0.077	<1	1.64	0.009	0.18	0.1	0.04	3.9	0.1	<0.05	5	0.7	<0.2
100537	Soil	18	46	0.79	264	0.073	<1	2.21	0.010	0.13	<0.1	0.04	4.1	0.1	<0.05	7	0.6	<0.2
100538	Soil	16	33	0.62	237	0.061	<1	1.75	0.009	0.08	0.1	0.03	3.2	<0.1	<0.05	5	0.6	<0.2
100539	Soil	15	27	0.41	134	0.066	<1	1.45	0.009	0.11	0.2	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
100540	Soil	15	30	0.45	142	0.072	<1	1.54	0.009	0.11	0.2	0.05	2.6	<0.1	<0.05	5	<0.5	<0.2
100541	Soil	14	27	0.42	165	0.059	<1	1.62	0.010	0.09	0.2	0.03	2.5	0.1	<0.05	5	0.6	<0.2
100542	Soil	17	32	0.51	193	0.072	<1	1.62	0.010	0.14	0.2	0.03	2.6	0.1	<0.05	5	<0.5	<0.2
100543	Soil	22	36	0.57	254	0.066	<1	1.72	0.008	0.20	<0.1	0.03	2.6	0.1	<0.05	6	<0.5	<0.2
100544	Soil	14	26	0.38	154	0.053	<1	1.41	0.009	0.08	0.2	0.04	2.0	0.1	<0.05	5	<0.5	<0.2
100545	Soil	16	25	0.40	159	0.061	<1	1.42	0.009	0.12	0.1	0.04	2.4	0.1	<0.05	5	0.5	<0.2
100546	Soil	18	26	0.40	160	0.059	1	1.44	0.009	0.12	0.1	0.04	2.4	0.1	<0.05	5	<0.5	<0.2
100547	Soil	17	29	0.47	173	0.063	<1	1.61	0.008	0.11	0.1	0.04	2.5	0.1	<0.05	5	<0.5	<0.2
100548	Soil	15	28	0.49	172	0.060	<1	1.53	0.009	0.13	0.1	0.05	2.5	0.1	<0.05	6	<0.5	<0.2
100549	Soil	16	28	0.45	150	0.063	<1	1.48	0.008	0.12	0.1	0.03	2.4	<0.1	<0.05	5	0.6	<0.2
100550	Soil	14	25	0.38	180	0.054	<1	1.32	0.008	0.09	<0.1	0.05	2.4	0.1	<0.05	5	<0.5	<0.2
100551	Soil	15	29	0.45	164	0.059	<1	1.61	0.008	0.09	0.1	0.04	2.4	0.1	<0.05	5	<0.5	<0.2
100552	Soil	39	40	0.67	229	0.077	<1	1.78	0.008	0.38	0.1	0.02	3.6	0.2	<0.05	6	0.5	<0.2
100553	Soil	16	34	0.55	246	0.065	<1	1.76	0.009	0.13	0.1	0.07	3.2	0.1	<0.05	6	<0.5	<0.2
100554	Soil	14	27	0.44	158	0.062	<1	1.58	0.008	0.11	0.1	0.03	2.4	0.2	<0.05	5	<0.5	<0.2
100555	Soil	17	30	0.49	172	0.068	<1	1.67	0.008	0.17	0.2	0.06	2.8	0.2	<0.05	5	<0.5	<0.2
106632	Soil	27	34	0.57	186	0.061	<1	1.39	0.004	0.34	<0.1	0.03	6.4	0.3	<0.05	7	<0.5	<0.2
106633	Soil	21	34	0.76	219	0.093	<1	1.86	0.007	0.38	<0.1	0.03	5.1	0.4	<0.05	8	<0.5	<0.2
106634	Soil	26	44	0.66	185	0.071	<1	1.64	0.008	0.49	<0.1	0.03	5.8	0.3	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
106635	Soil	0.3	24.6	15.0	64	<0.1	21.4	9.8	288	3.46	1.7	1.7	7.4	13.3	12	<0.1	0.3	0.2	38	0.18	0.037
106636	Soil	0.3	20.7	9.1	63	<0.1	20.9	9.4	386	3.48	0.9	1.1	13.1	9.5	10	<0.1	0.3	0.2	42	0.17	0.025
106637	Soil	0.3	27.1	10.3	56	<0.1	16.8	8.6	354	2.67	2.3	1.2	15.3	11.6	11	<0.1	0.4	0.3	34	0.16	0.014
106638	Soil	0.3	18.8	11.4	59	<0.1	21.1	10.4	360	3.84	1.8	1.7	11.7	15.0	13	<0.1	0.4	0.2	44	0.23	0.035
106639	Soil	0.4	22.1	12.1	64	<0.1	24.1	13.0	758	3.73	0.8	1.4	5.8	14.0	16	<0.1	0.3	0.3	39	0.28	0.042
106640	Soil	0.7	26.0	11.3	55	<0.1	24.8	11.4	466	3.47	1.1	1.4	6.5	11.3	13	<0.1	0.3	0.3	46	0.24	0.028
106641	Soil	0.3	22.3	15.3	72	<0.1	23.4	12.3	575	3.88	1.1	1.5	5.9	14.8	15	<0.1	0.3	0.3	43	0.21	0.027
106642	Soil	0.1	23.0	13.8	70	<0.1	22.4	11.6	349	2.63	0.7	1.2	5.8	8.2	12	<0.1	0.3	0.2	44	0.29	0.014
106643	Soil	0.7	32.9	12.7	69	<0.1	27.0	11.9	280	2.94	8.2	1.5	6.7	8.1	19	<0.1	0.9	0.3	76	0.26	0.011
106644	Soil	0.4	34.8	16.9	64	<0.1	29.3	11.6	461	3.43	1.4	1.3	10.8	12.2	18	<0.1	0.3	0.3	57	0.27	0.019
106645	Soil	0.4	33.2	14.7	74	0.1	30.7	15.2	749	3.72	4.9	1.1	5.4	15.0	17	<0.1	0.4	0.3	56	0.36	0.045
106646	Soil	0.2	59.2	32.6	153	<0.1	31.3	11.5	505	3.97	2.6	0.7	6.8	2.3	11	<0.1	0.2	0.4	90	0.25	0.067
106647	Soil	1.2	26.4	18.4	62	0.2	18.5	14.1	1193	3.35	5.9	2.4	3.0	13.5	16	0.2	0.7	0.4	49	0.28	0.030
106648	Soil	1.0	31.1	15.9	56	0.1	22.1	9.7	362	2.05	11.4	2.6	3.3	5.8	32	0.4	0.4	0.4	44	0.39	0.031
106649	Soil	1.0	31.3	11.4	50	<0.1	19.2	6.9	215	2.26	6.8	2.4	2.6	6.1	31	0.1	0.5	0.3	41	0.29	0.030
106650	Soil	2.6	43.8	29.2	70	0.9	23.9	9.1	670	2.91	7.2	4.3	5.3	11.0	153	0.4	0.9	0.9	36	0.46	0.150
106651	Soil	3.2	22.0	25.7	76	0.2	16.1	7.7	767	5.13	8.8	5.3	2.3	12.1	42	0.1	0.8	0.6	25	0.41	0.063
106652	Soil	0.3	33.8	13.3	81	<0.1	30.2	12.9	533	4.09	0.8	1.4	7.5	12.8	12	<0.1	0.2	0.3	61	0.21	0.045
106653	Soil	0.2	26.6	13.5	86	<0.1	32.7	13.7	438	3.81	0.6	1.0	5.3	12.9	13	<0.1	0.2	0.3	59	0.24	0.017
106654	Soil	0.2	22.3	14.2	62	<0.1	24.1	11.1	446	2.93	1.2	1.2	3.8	14.8	18	0.1	0.3	0.3	40	0.33	0.030
106655	Soil	0.3	29.3	11.7	55	<0.1	16.6	9.0	514	2.72	1.7	1.5	4.2	21.9	19	<0.1	0.3	0.2	30	0.29	0.020
106656	Soil	0.6	29.6	14.0	70	<0.1	25.8	14.0	524	4.61	0.8	2.1	5.7	13.9	16	<0.1	0.3	0.3	47	0.22	0.023
106657	Soil	0.3	22.6	13.6	84	<0.1	31.4	16.1	1035	3.60	1.1	1.2	2.8	12.9	15	<0.1	0.3	0.2	42	0.21	0.031
106658	Soil	0.5	36.7	14.8	76	<0.1	30.8	14.5	615	4.52	2.3	1.8	5.4	10.7	19	<0.1	0.6	0.3	64	0.34	0.051
106659	Soil	0.3	18.5	17.6	60	<0.1	25.4	12.3	870	3.58	1.5	1.5	5.1	20.3	20	<0.1	0.5	0.8	42	0.32	0.058
106660	Soil	0.5	43.4	16.9	71	<0.1	25.7	9.6	413	4.14	2.4	1.7	511.7	14.6	15	<0.1	0.4	0.3	49	0.18	0.020
106661	Soil	0.3	42.7	17.8	91	<0.1	33.9	12.4	532	4.21	2.2	2.2	7.6	14.6	16	<0.1	0.4	0.4	85	0.21	0.057
106662	Soil	<0.1	20.7	9.7	73	0.1	20.7	10.2	392	3.01	<0.5	1.5	7.3	12.5	11	<0.1	0.2	0.3	223	0.15	0.027
106663	Soil	0.2	28.1	12.3	70	<0.1	24.4	10.5	299	3.13	5.8	2.0	10.3	17.1	11	<0.1	0.3	0.4	47	0.14	0.023
106664	Soil	0.4	23.2	13.0	65	0.4	21.1	11.1	430	2.82	9.8	1.4	6.7	8.9	17	0.1	0.9	0.3	82	0.44	0.029

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Project: Montana
 Report Date: September 19, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
106635	Soil	23	43	0.49	168	0.044	<1	1.32	0.004	0.22	<0.1	0.03	5.6	0.2	<0.05	7	<0.5	<0.2
106636	Soil	21	35	0.53	180	0.048	<1	1.37	0.005	0.31	<0.1	0.02	6.3	0.3	<0.05	7	<0.5	<0.2
106637	Soil	19	30	0.56	209	0.066	<1	1.36	0.005	0.39	<0.1	0.04	5.6	0.3	<0.05	6	<0.5	<0.2
106638	Soil	26	38	0.51	170	0.043	<1	1.51	0.005	0.31	<0.1	0.04	6.9	0.3	<0.05	7	<0.5	<0.2
106639	Soil	28	46	0.69	224	0.051	<1	1.72	0.005	0.41	<0.1	0.02	6.0	0.3	<0.05	7	<0.5	<0.2
106640	Soil	25	51	0.63	198	0.053	<1	1.70	0.006	0.32	<0.1	0.03	5.9	0.3	<0.05	7	<0.5	<0.2
106641	Soil	20	40	0.73	206	0.087	<1	1.50	0.007	0.47	<0.1	0.02	7.9	0.4	<0.05	7	<0.5	<0.2
106642	Soil	25	43	0.72	189	0.050	<1	1.66	0.006	0.46	<0.1	0.02	4.6	0.3	<0.05	7	<0.5	<0.2
106643	Soil	28	47	0.68	225	0.061	<1	1.57	0.008	0.18	<0.1	0.05	6.2	0.2	<0.05	7	<0.5	<0.2
106644	Soil	31	91	0.89	305	0.054	<1	1.70	0.007	0.25	<0.1	0.03	7.6	0.2	<0.05	8	<0.5	<0.2
106645	Soil	27	60	0.86	326	0.073	<1	1.82	0.007	0.49	<0.1	0.04	7.1	0.3	<0.05	8	<0.5	<0.2
106646	Soil	8	57	1.16	465	0.309	<1	2.34	0.013	1.32	<0.1	0.02	10.1	0.6	<0.05	12	<0.5	<0.2
106647	Soil	31	27	0.30	230	0.045	4	1.06	0.006	0.25	<0.1	0.06	6.3	0.3	0.05	6	0.5	<0.2
106648	Soil	17	25	0.24	232	0.023	<1	0.82	0.005	0.08	<0.1	0.07	6.6	0.3	<0.05	6	<0.5	<0.2
106649	Soil	17	25	0.31	239	0.032	<1	0.97	0.006	0.06	<0.1	0.05	5.9	0.1	<0.05	5	<0.5	<0.2
106650	Soil	51	25	0.20	615	0.013	2	1.03	0.004	0.08	<0.1	0.18	5.7	0.3	<0.05	6	<0.5	<0.2
106651	Soil	35	15	0.47	186	0.011	2	1.05	0.009	0.15	<0.1	0.06	3.9	0.2	<0.05	3	0.6	<0.2
106652	Soil	25	47	0.83	285	0.127	<1	1.60	0.006	0.53	<0.1	0.02	8.5	0.4	<0.05	8	<0.5	<0.2
106653	Soil	27	44	0.78	269	0.125	<1	1.62	0.006	0.55	<0.1	0.02	9.0	0.4	<0.05	8	<0.5	<0.2
106654	Soil	29	35	0.73	214	0.069	<1	1.62	0.005	0.36	<0.1	0.02	6.0	0.3	<0.05	7	<0.5	<0.2
106655	Soil	34	27	0.61	218	0.050	<1	1.47	0.006	0.39	<0.1	<0.01	7.3	0.3	<0.05	7	<0.5	<0.2
106656	Soil	24	41	0.73	243	0.068	<1	1.64	0.006	0.42	<0.1	0.03	8.4	0.3	<0.05	8	<0.5	<0.2
106657	Soil	28	40	0.77	244	0.095	<1	1.58	0.006	0.50	<0.1	0.03	7.4	0.4	<0.05	8	<0.5	<0.2
106658	Soil	31	48	0.79	354	0.134	1	1.91	0.007	0.53	<0.1	0.03	8.1	0.5	<0.05	9	<0.5	<0.2
106659	Soil	29	38	0.72	237	0.062	<1	1.60	0.006	0.40	<0.1	0.02	5.9	0.3	<0.05	7	<0.5	<0.2
106660	Soil	27	38	0.62	263	0.073	<1	1.44	0.005	0.37	<0.1	0.03	7.7	0.3	<0.05	7	<0.5	<0.2
106661	Soil	27	58	0.78	239	0.089	<1	1.71	0.006	0.44	<0.1	0.03	9.2	0.4	<0.05	9	<0.5	<0.2
106662	Soil	29	33	0.46	148	0.056	<1	1.02	0.004	0.36	<0.1	0.03	6.7	0.2	<0.05	8	<0.5	<0.2
106663	Soil	30	35	0.50	167	0.061	<1	1.18	0.003	0.26	<0.1	0.03	7.9	0.2	<0.05	8	<0.5	<0.2
106664	Soil	29	31	0.35	170	0.040	<1	0.89	0.006	0.20	<0.1	0.05	6.2	0.2	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
106665	Soil	1.0	36.1	13.0	78	0.2	30.2	12.5	375	3.01	11.2	0.8	2.6	5.7	28	0.3	0.9	0.3	65	0.47	0.062
106666	Soil	0.4	34.4	20.0	70	0.1	26.8	13.0	306	3.45	4.2	2.3	6.6	12.6	20	<0.1	0.5	0.4	57	0.57	0.033
106667	Soil	0.9	33.4	11.1	70	0.2	29.0	11.1	465	2.74	12.4	2.6	2.5	4.1	43	0.4	0.9	0.2	49	0.82	0.063



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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
106665	Soil	18	36	0.62	313	0.064	<1	1.52	0.019	0.11	0.2	0.03	4.4	0.1	<0.05	5	<0.5	<0.2
106666	Soil	26	50	0.61	190	0.068	<1	1.56	0.006	0.34	<0.1	0.03	8.8	0.3	<0.05	8	<0.5	<0.2
106667	Soil	15	28	0.55	431	0.050	<1	1.34	0.018	0.06	0.2	0.05	3.6	<0.1	<0.05	4	0.7	<0.2



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QUALITY CONTROL REPORT

WHI11001141.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
132063	Soil	1.9	14.9	16.0	45	<0.1	12.4	4.6	185	2.21	8.6	1.2	1.3	3.4	59	<0.1	0.4	0.2	43	0.34	0.023
REP 132063	QC	1.6	14.8	15.6	45	<0.1	12.2	4.3	188	2.21	8.1	1.2	6.4	3.4	58	0.1	0.3	0.2	44	0.33	0.024
132075	Soil	0.8	8.5	8.1	56	<0.1	8.3	9.1	363	3.23	3.8	0.9	1.7	4.3	16	<0.1	0.3	<0.1	53	0.24	0.026
REP 132075	QC	0.7	8.5	8.2	53	<0.1	8.1	9.4	375	3.28	4.1	0.9	74.1	4.3	16	<0.1	0.3	<0.1	53	0.22	0.027
132085	Soil	1.0	26.8	11.9	50	<0.1	21.0	9.5	245	2.67	10.3	1.9	5.5	8.0	18	<0.1	0.6	0.3	52	0.19	0.017
REP 132085	QC	1.0	26.5	11.9	50	<0.1	21.0	9.6	244	2.65	10.1	1.9	14.4	8.1	18	<0.1	0.7	0.2	52	0.19	0.016
132105	Soil	1.2	32.6	14.5	33	<0.1	13.9	9.7	368	2.46	13.6	2.0	2.1	9.2	13	<0.1	0.8	0.2	38	0.09	0.029
REP 132105	QC	1.1	31.1	13.7	33	<0.1	13.3	9.2	361	2.35	12.9	1.9	2.3	8.1	13	<0.1	0.7	0.2	37	0.09	0.028
124330	Soil	1.4	39.8	11.7	120	0.9	49.5	15.2	1657	3.08	5.3	0.7	2.1	2.3	58	1.2	0.4	0.2	71	1.25	0.128
REP 124330	QC	1.6	40.9	11.6	120	0.9	50.5	15.6	1676	3.23	5.5	0.7	1.5	2.3	58	1.2	0.4	0.2	73	1.27	0.119
124353	Soil	2.4	46.9	11.0	168	0.3	73.8	26.3	1700	3.52	12.6	1.5	8.9	4.1	22	1.3	1.4	0.2	71	0.20	0.093
REP 124353	QC	2.6	46.7	11.3	169	0.3	75.9	26.6	1692	3.66	12.7	1.5	3.3	4.0	23	1.3	1.3	0.2	72	0.21	0.093
124375	Soil	1.6	42.8	9.4	93	0.4	44.5	12.8	337	2.83	6.0	2.8	11.4	4.6	34	0.5	0.3	0.2	75	0.69	0.091
REP 124375	QC	1.6	42.7	9.3	92	0.4	44.2	12.8	337	2.82	6.1	2.8	3.8	4.5	35	0.5	0.3	0.2	76	0.69	0.090
101874	Soil	0.7	48.4	21.3	116	<0.1	43.3	13.9	415	3.92	7.1	1.7	4.8	13.2	21	<0.1	0.4	0.2	78	0.49	0.083
REP 101874	QC	0.7	48.8	20.6	119	<0.1	43.3	13.5	413	3.87	7.1	1.6	3.6	12.8	21	<0.1	0.4	0.1	78	0.49	0.078
101896	Soil	1.1	46.6	13.1	57	0.1	21.2	8.2	167	2.43	14.0	1.9	6.0	4.9	29	0.2	0.9	0.3	46	0.24	0.054
REP 101896	QC	1.0	44.5	13.2	55	0.1	20.9	8.0	167	2.37	14.3	2.0	6.4	5.0	29	0.2	0.9	0.3	45	0.22	0.054
100521	Soil	1.1	54.6	36.6	126	0.7	16.5	9.0	340	3.14	11.8	1.3	15.4	5.7	20	0.4	0.6	0.5	65	0.20	0.063
REP 100521	QC	1.2	54.9	35.8	125	0.7	15.7	8.9	323	3.16	12.5	1.2	9.3	5.6	19	0.3	0.5	0.5	64	0.19	0.062
100531	Soil	0.7	33.0	8.9	93	0.1	24.1	9.3	272	3.07	3.3	0.2	3.2	7.1	15	0.1	0.2	0.1	60	0.23	0.054
REP 100531	QC	0.7	32.7	8.9	93	0.1	24.6	9.5	285	3.14	3.6	0.2	15.9	7.4	16	0.2	0.2	0.1	61	0.24	0.054
106634	Soil	0.3	23.5	14.2	63	<0.1	22.5	11.4	580	3.67	2.7	2.2	8.6	12.9	11	<0.1	0.4	0.3	53	0.28	0.056
REP 106634	QC	0.3	23.4	14.2	63	<0.1	22.4	11.4	555	3.65	2.9	2.2	7.2	12.5	11	<0.1	0.4	0.3	52	0.28	0.057
106641	Soil	0.3	22.3	15.3	72	<0.1	23.4	12.3	575	3.88	1.1	1.5	5.9	14.8	15	<0.1	0.3	0.3	43	0.21	0.027
REP 106641	QC	0.2	22.7	14.7	74	<0.1	22.8	12.4	573	4.08	1.0	1.4	4.5	13.5	14	<0.1	0.1	0.3	48	0.22	0.025
106662	Soil	<0.1	20.7	9.7	73	0.1	20.7	10.2	392	3.01	<0.5	1.5	7.3	12.5	11	<0.1	0.2	0.3	223	0.15	0.027
REP 106662	QC	0.1	18.7	9.4	72	0.2	20.0	9.8	381	3.00	<0.5	1.5	5.3	12.1	11	<0.1	0.2	0.2	217	0.14	0.027

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QUALITY CONTROL REPORT

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Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
132063	Soil	14	21	0.39	331	0.037	<1	2.30	0.010	0.08	<0.1	<0.01	2.7	0.1	<0.05	6	<0.5	<0.2
REP 132063	QC	14	22	0.41	329	0.040	1	2.28	0.011	0.08	<0.1	0.01	2.7	0.1	<0.05	6	<0.5	<0.2
132075	Soil	14	18	0.61	161	0.090	1	1.90	0.009	0.19	<0.1	0.02	6.8	0.1	<0.05	8	0.6	<0.2
REP 132075	QC	14	18	0.62	164	0.090	<1	1.88	0.008	0.19	<0.1	0.01	6.7	0.1	<0.05	8	<0.5	<0.2
132085	Soil	25	33	0.45	275	0.069	1	1.72	0.010	0.07	0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
REP 132085	QC	25	33	0.43	267	0.065	1	1.72	0.016	0.07	0.1	0.03	4.0	0.1	<0.05	5	<0.5	<0.2
132105	Soil	27	19	0.19	130	0.052	<1	1.01	0.006	0.08	<0.1	0.02	2.9	0.4	<0.05	4	<0.5	<0.2
REP 132105	QC	26	20	0.19	126	0.050	<1	0.99	0.006	0.08	<0.1	0.01	2.7	0.4	<0.05	3	<0.5	<0.2
124330	Soil	10	53	0.65	1595	0.117	4	1.89	0.019	0.54	0.1	0.02	3.4	0.2	<0.05	6	0.6	<0.2
REP 124330	QC	11	53	0.66	1600	0.122	4	1.81	0.020	0.55	0.1	0.02	3.4	0.3	<0.05	6	<0.5	<0.2
124353	Soil	15	52	0.34	612	0.062	<1	1.02	0.006	0.19	0.1	0.05	3.1	0.4	<0.05	4	1.1	<0.2
REP 124353	QC	15	53	0.35	634	0.063	1	1.06	0.006	0.20	0.1	0.05	3.4	0.4	<0.05	4	1.0	<0.2
124375	Soil	22	58	0.65	942	0.080	<1	1.66	0.012	0.16	0.2	0.05	4.9	0.1	0.09	7	1.2	<0.2
REP 124375	QC	23	58	0.65	929	0.082	<1	1.66	0.013	0.16	0.1	0.04	4.9	0.1	0.05	7	1.3	<0.2
101874	Soil	51	62	1.09	432	0.133	<1	2.67	0.009	0.58	0.1	0.16	6.6	0.6	0.13	9	<0.5	<0.2
REP 101874	QC	51	61	1.08	433	0.129	<1	2.65	0.009	0.57	<0.1	0.19	6.7	0.5	0.08	8	<0.5	<0.2
101896	Soil	21	28	0.44	306	0.085	<1	1.62	0.010	0.07	0.2	0.31	4.2	0.2	<0.05	5	<0.5	<0.2
REP 101896	QC	20	28	0.43	301	0.076	<1	1.50	0.010	0.07	0.1	0.31	4.1	0.2	<0.05	5	<0.5	<0.2
100521	Soil	19	29	0.59	348	0.116	<1	1.64	0.010	0.21	0.1	0.07	4.4	0.2	<0.05	6	<0.5	<0.2
REP 100521	QC	18	28	0.58	343	0.114	<1	1.67	0.010	0.20	0.1	0.06	4.5	0.2	<0.05	6	0.6	<0.2
100531	Soil	28	50	0.81	302	0.137	<1	2.01	0.009	0.63	0.2	0.03	4.6	0.3	<0.05	7	0.5	<0.2
REP 100531	QC	29	51	0.82	317	0.144	<1	1.95	0.009	0.64	0.1	0.03	4.7	0.3	<0.05	7	<0.5	<0.2
106634	Soil	26	44	0.66	185	0.071	<1	1.64	0.008	0.49	<0.1	0.03	5.8	0.3	<0.05	8	<0.5	<0.2
REP 106634	QC	26	43	0.65	189	0.070	<1	1.58	0.008	0.49	<0.1	0.03	5.8	0.3	<0.05	9	<0.5	<0.2
106641	Soil	20	40	0.73	206	0.087	<1	1.50	0.007	0.47	<0.1	0.02	7.9	0.4	<0.05	7	<0.5	<0.2
REP 106641	QC	21	39	0.73	211	0.056	<1	1.45	0.007	0.46	<0.1	0.02	7.4	0.4	<0.05	8	<0.5	<0.2
106662	Soil	29	33	0.46	148	0.056	<1	1.02	0.004	0.36	<0.1	0.03	6.7	0.2	<0.05	8	<0.5	<0.2
REP 106662	QC	27	33	0.45	142	0.054	<1	0.98	0.004	0.35	<0.1	0.02	6.4	0.2	<0.05	7	<0.5	<0.2

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.



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 Val D'Or QC J9P 1S5 Canada

Project: Montana
 Report Date: September 19, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001141.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Reference Materials																					
STD DS8	Standard	13.1	110.8	119.3	303	1.7	39.2	7.6	590	2.40	25.2	2.7	114.7	6.5	70	2.5	5.8	7.2	44	0.70	0.080
STD DS8	Standard	13.8	103.1	123.3	316	1.9	38.0	7.6	620	2.51	24.5	3.1	104.2	6.9	69	2.2	5.5	6.5	44	0.74	0.079
STD DS8	Standard	13.5	104.3	129.5	366	1.9	39.1	8.0	631	2.50	22.2	2.3	114.3	5.5	76	2.3	7.7	5.2	43	0.69	0.084
STD DS8	Standard	12.7	93.5	112.6	284	1.6	33.8	6.8	561	2.26	23.2	2.5	101.4	5.9	56	2.2	5.1	6.2	39	0.65	0.074
STD DS8	Standard	13.1	109.3	118.4	301	1.8	35.9	7.2	646	2.44	25.1	2.7	106.7	6.7	63	2.3	5.5	6.4	41	0.70	0.081
STD DS8	Standard	14.1	109.5	127.0	315	1.9	38.7	8.2	651	2.58	27.0	3.0	112.0	7.5	70	2.4	6.0	6.6	48	0.75	0.092
STD DS8	Standard	14.2	110.6	126.1	310	1.8	38.9	8.2	637	2.55	26.3	3.0	111.9	6.8	69	2.4	5.7	6.3	48	0.73	0.092
STD DS8	Standard	12.5	95.2	117.5	291	1.7	35.4	7.3	580	2.32	22.7	3.2	107.4	6.9	68	2.4	5.1	6.3	39	0.68	0.072
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



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Project: Montana

Report Date: September 19, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001141.1

		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
Reference Materials		1	1	0.01	1	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	15	118	0.63	282	0.122	1	0.90	0.078	0.40	3.3	0.18	2.0	5.2	0.16	5	4.1	5.0
STD DS8	Standard	15	115	0.62	292	0.110	3	0.95	0.098	0.43	2.8	0.22	1.9	5.2	0.16	5	5.6	5.0
STD DS8	Standard	17	118	0.65	248	0.108	3	0.94	0.083	0.44	3.1	0.21	2.7	5.7	0.15	5	5.1	5.1
STD DS8	Standard	14	106	0.57	270	0.097	3	0.88	0.084	0.39	2.7	0.18	1.6	4.8	0.16	4	4.3	4.7
STD DS8	Standard	16	114	0.62	290	0.113	3	0.94	0.092	0.41	2.8	0.20	2.3	5.4	0.17	5	4.9	5.1
STD DS8	Standard	19	117	0.64	292	0.123	3	0.98	0.095	0.42	3.1	0.19	2.4	5.7	0.23	5	5.4	5.1
STD DS8	Standard	18	118	0.63	281	0.120	3	0.96	0.097	0.42	3.0	0.20	2.4	5.5	0.21	5	5.3	5.1
STD DS8	Standard	15	113	0.58	276	0.107	2	0.90	0.092	0.41	2.9	0.20	2.0	5.1	0.17	5	4.6	4.9
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: August 23, 2011
Report Date: September 24, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001142.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110812114957
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.

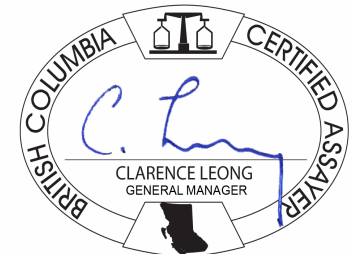
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains 3 rows of sample preparation data.

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: Montana
 Report Date: September 24, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001142.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
109871	Soil	1.1	34.3	11.9	60	0.2	22.8	8.1	221	2.52	7.9	1.3	2.8	3.1	24	0.2	1.1	0.2	51	0.29	0.054
109872	Soil	1.9	32.0	11.7	70	0.2	76.2	9.4	290	2.56	7.8	1.0	2.5	4.7	23	0.2	1.0	0.2	50	0.29	0.059
109873	Soil	1.8	31.6	14.3	47	0.2	17.2	8.0	230	2.29	7.5	1.1	2.9	1.8	10	0.1	1.4	0.3	51	0.09	0.049
109874	Soil	2.3	26.4	11.7	52	0.2	74.7	8.1	298	2.47	8.4	1.0	3.6	3.9	13	<0.1	1.0	0.2	54	0.12	0.032
109875	Soil	1.1	48.3	13.6	75	<0.1	24.4	8.1	398	2.76	4.3	1.7	4.3	9.6	14	<0.1	0.5	0.3	53	0.13	0.038
109876	Soil	1.9	40.9	11.3	59	<0.1	53.0	11.5	216	3.07	6.3	1.3	2.0	7.0	13	<0.1	0.5	0.2	69	0.10	0.023
109877	Soil	1.5	39.4	12.5	51	<0.1	22.5	9.8	287	2.63	7.5	1.6	2.3	6.3	19	<0.1	0.6	0.2	56	0.16	0.024
109878	Soil	2.0	95.3	18.3	84	0.2	43.0	18.9	485	3.19	3.5	2.0	3.1	8.2	11	<0.1	0.4	0.2	61	0.05	0.035
109879	Soil	1.1	44.3	17.2	100	<0.1	29.5	10.3	236	2.85	4.3	1.6	4.8	9.9	16	<0.1	0.4	0.2	66	0.09	0.029
109880	Soil	1.6	32.3	12.8	51	<0.1	21.6	7.8	163	2.62	7.9	1.2	2.9	7.3	13	<0.1	0.5	0.2	61	0.08	0.022
109881	Soil	0.7	22.5	10.5	49	<0.1	22.0	8.4	210	2.59	9.3	0.9	3.3	5.0	14	<0.1	0.5	0.1	54	0.13	0.015
109882	Soil	1.0	46.1	14.8	127	<0.1	40.8	9.3	228	3.69	1.5	1.9	1.4	11.6	8	<0.1	0.2	0.2	70	0.04	0.039
109883	Soil	1.6	30.2	10.1	85	0.1	19.5	5.3	184	2.62	4.6	1.3	2.5	7.1	7	<0.1	0.4	0.1	40	0.05	0.028
109884	Soil	1.5	36.9	12.8	94	<0.1	33.1	6.4	179	2.65	2.7	1.7	1.4	8.6	10	<0.1	0.3	0.1	55	0.06	0.024
109885	Soil	1.0	42.6	14.8	97	<0.1	28.4	7.9	144	2.95	4.3	2.2	1.9	9.6	11	<0.1	0.5	0.1	59	0.07	0.031
109886	Soil	3.0	33.7	14.2	74	0.1	120.2	11.3	317	2.94	6.6	1.4	2.5	7.3	15	<0.1	0.5	0.2	60	0.13	0.025
109887	Soil	1.4	25.5	12.2	67	0.2	21.3	8.3	550	2.55	6.6	1.4	1.7	6.0	16	0.1	0.5	0.2	51	0.13	0.036
109888	Soil	1.1	23.6	12.2	57	<0.1	23.8	7.4	392	2.53	7.1	1.5	1.9	6.1	17	<0.1	0.5	0.2	49	0.17	0.017
109889	Soil	1.1	24.7	11.6	65	0.1	18.0	6.2	281	2.32	5.4	1.5	3.2	6.6	14	<0.1	0.4	0.1	48	0.10	0.024
109890	Soil	1.3	24.5	11.5	66	0.1	31.2	5.9	221	2.36	6.0	1.2	1.6	6.7	14	<0.1	0.4	0.1	49	0.10	0.022
109891	Soil	1.4	20.6	12.7	81	0.1	21.0	11.1	619	3.07	8.9	1.0	1.3	6.9	12	0.1	0.4	0.2	53	0.13	0.056
109892	Soil	2.9	45.6	16.1	68	<0.1	93.1	11.4	431	3.11	9.6	2.2	44.0	6.9	24	<0.1	0.7	0.2	65	0.24	0.023
109893	Soil	1.6	38.6	14.1	65	<0.1	28.7	10.1	398	2.90	8.9	0.9	3.5	6.2	25	<0.1	0.8	0.2	59	0.27	0.041
109894	Soil	1.4	39.9	12.7	69	<0.1	36.0	8.8	202	2.53	4.5	1.5	2.4	7.5	11	0.1	0.4	0.1	54	0.05	0.030
109895	Soil	0.8	30.0	12.9	53	<0.1	22.5	9.3	172	2.50	6.9	1.1	3.4	7.1	13	<0.1	0.5	0.1	57	0.10	0.016
109896	Soil	2.0	53.5	15.5	65	<0.1	68.9	10.9	290	3.22	10.5	2.5	5.9	6.2	19	0.2	0.7	0.2	68	0.18	0.018
109897	Soil	1.8	62.7	17.1	58	0.1	27.8	11.5	273	3.05	7.2	2.7	3.9	7.5	19	0.2	0.6	0.2	67	0.10	0.034
109898	Soil	1.4	29.9	9.5	47	<0.1	47.3	8.1	263	2.37	5.3	1.3	1.8	6.8	15	<0.1	0.5	0.2	48	0.13	0.020
109899	Soil	1.1	21.5	8.5	35	<0.1	12.1	5.8	149	1.80	3.8	1.3	2.5	7.4	11	<0.1	0.4	0.2	40	0.07	0.016
109900	Soil	1.3	34.6	14.0	64	0.1	35.9	7.3	192	2.64	5.7	1.6	4.0	7.4	10	<0.1	0.8	0.2	54	0.07	0.025

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Project: Montana
 Report Date: September 24, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
109871	Soil	16	31	0.39	310	0.052	2	1.66	0.009	0.06	0.2	0.13	4.3	0.1	<0.05	5	1.0	<0.2
109872	Soil	16	128	0.43	353	0.064	2	1.50	0.011	0.09	0.2	0.09	3.8	0.1	<0.05	4	0.9	<0.2
109873	Soil	14	27	0.22	164	0.039	<1	1.43	0.005	0.08	0.1	0.04	2.4	0.2	<0.05	6	0.9	<0.2
109874	Soil	16	139	0.30	184	0.066	<1	1.46	0.007	0.11	0.2	0.02	3.1	0.2	<0.05	5	0.7	<0.2
109875	Soil	23	29	0.37	368	0.102	<1	1.43	0.006	0.28	<0.1	0.04	5.9	0.3	<0.05	5	0.8	<0.2
109876	Soil	18	117	0.52	284	0.106	1	1.97	0.007	0.19	0.1	0.02	5.7	0.2	<0.05	6	0.9	<0.2
109877	Soil	17	35	0.41	307	0.076	<1	1.66	0.010	0.08	0.1	0.04	4.7	0.2	<0.05	5	0.9	<0.2
109878	Soil	18	44	0.48	325	0.112	<1	1.62	0.006	0.38	<0.1	0.02	4.9	0.7	<0.05	5	0.8	<0.2
109879	Soil	21	40	0.48	473	0.136	1	1.72	0.007	0.40	<0.1	0.03	5.4	0.5	<0.05	6	1.4	<0.2
109880	Soil	18	35	0.33	243	0.056	<1	1.63	0.005	0.07	0.1	0.02	4.0	0.2	<0.05	5	0.9	<0.2
109881	Soil	15	32	0.47	270	0.063	2	1.81	0.007	0.06	0.1	0.03	3.2	<0.1	<0.05	5	0.9	<0.2
109882	Soil	27	53	0.69	393	0.217	<1	2.11	0.006	0.89	<0.1	0.02	5.0	0.7	<0.05	7	0.7	<0.2
109883	Soil	17	21	0.33	231	0.067	<1	1.50	0.004	0.25	<0.1	0.02	3.8	0.5	<0.05	5	<0.5	<0.2
109884	Soil	24	56	0.54	310	0.130	<1	1.50	0.006	0.39	<0.1	0.02	3.9	0.4	<0.05	5	0.9	<0.2
109885	Soil	27	37	0.44	323	0.112	<1	1.49	0.005	0.27	<0.1	0.03	5.9	0.3	<0.05	5	0.7	<0.2
109886	Soil	19	215	0.45	325	0.093	<1	1.75	0.008	0.19	0.2	0.02	4.1	0.2	<0.05	5	0.8	<0.2
109887	Soil	18	28	0.40	360	0.069	<1	1.54	0.006	0.11	0.2	0.02	3.8	0.2	<0.05	5	<0.5	<0.2
109888	Soil	18	41	0.40	351	0.078	<1	1.43	0.010	0.10	0.1	0.02	4.2	0.1	<0.05	4	0.8	<0.2
109889	Soil	18	27	0.44	300	0.071	<1	1.57	0.006	0.12	0.1	0.02	3.7	0.2	<0.05	5	<0.5	<0.2
109890	Soil	17	52	0.46	283	0.074	<1	1.61	0.005	0.12	0.1	0.01	3.7	0.2	<0.05	5	0.9	<0.2
109891	Soil	16	30	0.47	238	0.072	<1	1.84	0.009	0.18	0.1	0.03	3.6	0.2	<0.05	6	0.5	<0.2
109892	Soil	21	163	0.48	433	0.096	1	1.91	0.010	0.14	0.1	0.04	5.8	0.2	<0.05	6	1.2	<0.2
109893	Soil	18	36	0.46	392	0.083	<1	1.68	0.011	0.11	0.1	0.04	5.0	0.2	<0.05	5	<0.5	<0.2
109894	Soil	18	59	0.33	248	0.080	<1	1.44	0.004	0.20	<0.1	0.01	3.3	0.4	<0.05	4	1.0	<0.2
109895	Soil	17	34	0.43	283	0.064	<1	1.94	0.006	0.08	<0.1	0.02	3.0	0.2	<0.05	5	0.5	<0.2
109896	Soil	20	114	0.49	445	0.073	<1	2.16	0.009	0.07	0.1	0.08	7.0	0.2	<0.05	6	1.0	<0.2
109897	Soil	19	35	0.39	340	0.069	2	1.86	0.009	0.10	<0.1	0.04	5.4	0.2	<0.05	6	<0.5	<0.2
109898	Soil	18	84	0.35	247	0.059	<1	1.42	0.007	0.07	0.1	0.04	4.4	0.1	<0.05	5	<0.5	<0.2
109899	Soil	18	23	0.23	157	0.044	<1	1.14	0.004	0.07	<0.1	0.03	2.7	0.2	<0.05	4	<0.5	<0.2
109900	Soil	19	62	0.35	185	0.071	<1	1.55	0.005	0.16	0.1	0.04	4.3	0.2	<0.05	5	1.1	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
109901	Soil	1.2	35.4	11.3	44	0.2	15.3	6.7	160	1.90	9.0	1.4	3.7	5.9	11	<0.1	2.6	0.2	42	0.06	0.026
109902	Soil	2.1	41.7	13.0	44	0.3	67.1	7.7	170	1.94	11.2	1.2	5.4	4.3	14	0.2	2.9	0.2	38	0.11	0.034
109903	Soil	1.2	35.1	13.2	49	0.2	16.0	6.4	177	2.21	8.9	1.3	4.6	5.6	16	<0.1	2.3	0.2	46	0.14	0.033
109939	Soil	1.0	19.7	12.5	108	<0.1	24.5	9.4	372	3.39	7.5	0.9	1.9	11.7	8	0.2	0.3	0.3	51	0.10	0.033
109940	Soil	0.7	20.0	11.7	107	<0.1	21.8	9.5	366	3.17	7.3	0.9	1.9	12.8	10	0.1	0.3	0.2	50	0.11	0.027
109941	Soil	1.7	31.4	16.3	82	0.2	49.8	8.5	315	3.16	6.2	1.3	1.6	9.5	12	<0.1	0.3	0.2	59	0.12	0.029
109942	Soil	0.6	31.2	9.1	47	<0.1	19.1	7.7	262	2.49	10.1	0.8	3.5	4.7	15	<0.1	0.6	0.1	51	0.13	0.017
109943	Soil	0.8	27.9	10.9	38	0.1	21.2	5.8	128	2.16	8.2	2.0	3.5	4.6	9	<0.1	0.7	0.2	55	0.08	0.013
109944	Soil	0.7	10.8	7.3	31	<0.1	10.4	4.3	254	1.19	6.2	0.3	0.8	1.2	9	<0.1	0.4	0.1	33	0.08	0.053
109945	Soil	1.1	19.4	10.2	41	<0.1	44.3	7.3	187	2.22	7.7	0.6	3.7	2.7	17	0.1	0.5	0.1	52	0.21	0.024
109946	Soil	1.2	34.0	11.3	48	<0.1	25.7	8.9	258	2.39	10.4	0.9	3.6	4.5	27	<0.1	0.6	0.1	56	0.30	0.023
109947	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.
109948	Soil	0.9	20.9	12.6	49	<0.1	15.8	5.5	126	1.57	6.3	1.3	4.0	5.0	20	<0.1	0.4	0.2	35	0.21	0.019
109949	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.
109950	Soil	1.5	26.4	13.5	49	<0.1	24.8	9.3	323	2.41	8.8	2.2	4.0	6.0	29	<0.1	0.5	0.2	51	0.32	0.030
109951	Soil	1.1	16.9	13.8	47	<0.1	16.4	6.7	174	2.14	7.5	1.6	4.8	5.8	32	<0.1	0.4	0.2	46	0.33	0.032
109952	Soil	1.8	23.7	24.5	43	0.1	18.8	6.1	230	0.97	5.1	4.7	3.8	6.7	120	0.2	0.5	0.3	26	0.69	0.026
109953	Soil	1.2	18.2	12.7	60	0.2	13.8	6.8	220	1.92	6.5	1.9	3.9	4.9	53	0.2	0.5	0.2	37	0.44	0.061
109954	Soil	1.4	20.3	12.8	51	0.1	16.0	6.9	225	1.81	5.7	2.1	4.8	3.8	70	0.1	0.5	0.2	33	0.51	0.057
109955	Soil	1.1	18.2	11.8	47	0.2	15.0	5.3	149	1.69	5.4	1.5	6.0	2.4	57	0.2	0.4	0.2	33	0.42	0.055
109956	Soil	1.1	25.8	12.1	51	0.2	19.0	6.4	156	2.18	8.2	1.4	4.8	3.2	25	0.2	0.4	0.2	47	0.31	0.033
109957	Soil	1.3	26.9	12.9	54	<0.1	23.4	7.5	211	2.22	9.6	1.4	5.8	4.9	26	0.1	0.7	0.2	48	0.34	0.035
109958	Soil	1.2	18.6	11.1	52	0.1	15.9	5.9	148	1.96	8.7	0.9	5.9	4.7	18	<0.1	0.4	0.2	43	0.15	0.026
109959	Soil	1.5	21.6	13.0	48	<0.1	16.7	5.8	145	1.74	7.9	1.5	5.0	6.1	22	<0.1	0.5	0.1	40	0.17	0.019
109960	Soil	1.6	25.6	17.0	54	0.1	22.3	10.7	426	2.45	10.9	1.5	7.7	4.9	26	0.2	0.6	0.2	48	0.23	0.019
109961	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.
109962	Soil	2.3	16.9	18.4	43	<0.1	14.9	4.9	213	1.30	7.0	2.6	4.2	3.6	49	<0.1	0.3	0.1	26	0.40	0.023
109963	Soil	1.7	22.3	14.8	55	<0.1	21.3	5.5	181	1.74	6.3	1.5	4.5	6.2	42	<0.1	0.4	0.2	36	0.30	0.028
109964	Soil	3.4	24.3	25.5	40	0.2	35.0	7.1	208	1.52	5.6	2.4	1.3	3.1	59	<0.1	0.5	0.2	37	0.43	0.028
109965	Soil	2.1	30.7	18.1	61	<0.1	24.9	7.2	196	2.37	8.0	1.4	4.8	6.9	36	<0.1	0.6	0.2	47	0.26	0.016

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109901	Soil	18	23	0.23	183	0.051	<1	1.07	0.004	0.08	0.1	0.11	4.3	0.2	<0.05	4	1.0	<0.2
109902	Soil	17	117	0.21	201	0.041	<1	0.92	0.006	0.06	0.2	0.09	3.1	0.1	<0.05	3	1.2	<0.2
109903	Soil	18	24	0.31	206	0.059	<1	1.21	0.007	0.06	0.1	0.10	3.9	0.2	<0.05	4	0.6	<0.2
109939	Soil	16	38	0.50	153	0.106	<1	2.41	0.005	0.43	0.1	0.01	4.1	0.4	<0.05	8	<0.5	<0.2
109940	Soil	18	30	0.52	162	0.120	<1	2.29	0.006	0.47	<0.1	0.02	4.8	0.5	<0.05	8	<0.5	<0.2
109941	Soil	21	89	0.48	259	0.113	<1	1.95	0.006	0.37	0.2	0.03	4.2	0.4	<0.05	7	<0.5	<0.2
109942	Soil	17	32	0.42	282	0.062	1	1.44	0.009	0.05	0.1	0.05	5.1	<0.1	<0.05	4	<0.5	<0.2
109943	Soil	14	45	0.36	195	0.054	1	1.76	0.006	0.04	0.1	0.03	5.3	0.1	<0.05	5	<0.5	<0.2
109944	Soil	4	17	0.15	160	0.022	<1	1.04	0.003	0.03	0.1	0.01	1.6	<0.1	<0.05	3	0.6	<0.2
109945	Soil	12	76	0.39	293	0.042	1	1.51	0.007	0.05	0.2	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
109946	Soil	17	38	0.48	370	0.064	2	3.13	0.013	0.06	0.2	0.05	5.2	<0.1	<0.05	4	<0.5	<0.2
109947	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.
109948	Soil	18	24	0.28	224	0.034	1	1.04	0.006	0.09	<0.1	0.03	3.0	0.3	<0.05	4	<0.5	<0.2
109949	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.
109950	Soil	19	39	0.39	398	0.039	1	1.62	0.008	0.05	0.1	0.04	4.7	0.1	<0.05	5	0.6	<0.2
109951	Soil	19	30	0.36	371	0.034	<1	1.66	0.008	0.05	<0.1	0.03	3.3	0.1	<0.05	5	<0.5	<0.2
109952	Soil	32	16	0.21	688	0.017	2	0.86	0.007	0.07	<0.1	0.05	3.8	0.3	<0.05	3	1.1	<0.2
109953	Soil	20	21	0.33	407	0.029	3	1.29	0.011	0.05	<0.1	0.07	3.0	0.1	<0.05	4	0.7	<0.2
109954	Soil	19	21	0.30	517	0.018	4	1.35	0.010	0.04	<0.1	0.05	2.8	0.1	<0.05	4	0.6	<0.2
109955	Soil	17	20	0.29	405	0.022	2	1.17	0.009	0.05	<0.1	0.05	2.6	0.1	<0.05	4	1.0	<0.2
109956	Soil	16	29	0.32	369	0.046	1	1.56	0.008	0.07	<0.1	0.04	3.6	0.1	<0.05	5	1.0	<0.2
109957	Soil	16	32	0.38	387	0.055	1	1.37	0.011	0.07	0.1	0.03	3.9	<0.1	<0.05	4	0.8	<0.2
109958	Soil	14	25	0.29	260	0.048	<1	1.17	0.005	0.13	<0.1	0.03	2.7	0.2	<0.05	5	<0.5	<0.2
109959	Soil	19	26	0.28	404	0.046	1	1.07	0.004	0.16	<0.1	0.02	3.5	0.3	<0.05	4	0.8	<0.2
109960	Soil	20	35	0.34	402	0.037	<1	1.54	0.006	0.07	<0.1	0.05	4.7	0.2	<0.05	5	0.6	<0.2
109961	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.
109962	Soil	27	26	0.29	343	0.020	3	1.08	0.006	0.13	<0.1	0.05	2.5	0.4	0.06	4	1.8	<0.2
109963	Soil	22	35	0.35	401	0.029	2	1.29	0.007	0.10	<0.1	0.04	3.7	0.3	<0.05	5	0.6	<0.2
109964	Soil	20	60	0.29	593	0.018	2	1.52	0.008	0.06	<0.1	0.04	2.9	0.2	<0.05	5	1.4	<0.2
109965	Soil	22	35	0.35	410	0.038	<1	1.51	0.006	0.12	<0.1	0.03	4.7	0.5	<0.05	5	<0.5	<0.2

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Project: Montana
 Report Date: September 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001142.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	0.001
109966	Soil	1.3	26.2	14.9	59	<0.1	21.1	8.8	225	2.02	8.8	2.0	8.8	8.4	20	<0.1	0.6	0.2	39	0.19	0.012
109967	Soil	1.2	29.1	14.8	62	<0.1	21.0	5.6	193	1.52	7.7	1.1	2.7	6.3	18	<0.1	0.5	0.2	35	0.12	0.013
109968	Soil	0.8	30.2	10.8	47	<0.1	22.8	8.1	175	2.53	10.9	1.0	3.8	5.2	14	<0.1	0.6	0.2	59	0.12	0.011
109969	Soil	1.0	25.7	10.9	52	<0.1	18.6	7.1	179	2.31	8.0	1.0	3.5	3.8	19	<0.1	0.6	0.2	50	0.20	0.031
109970	Soil	0.5	15.5	5.9	28	<0.1	12.5	5.5	158	1.05	3.7	0.5	1.1	2.4	15	<0.1	0.4	<0.1	29	0.19	0.021
109971	Soil	0.7	30.7	10.2	116	<0.1	24.7	8.4	445	3.13	3.2	1.1	2.7	12.5	13	<0.1	0.2	0.2	50	0.20	0.036
109972	Soil	0.9	21.1	13.6	73	<0.1	19.6	8.1	276	2.68	7.3	1.0	2.0	6.6	13	0.1	0.5	0.2	52	0.16	0.026
109973	Soil	0.9	22.3	10.9	73	<0.1	18.2	7.4	254	2.61	6.5	0.9	2.5	5.7	12	<0.1	0.4	0.2	51	0.14	0.032
109974	Soil	0.8	23.2	9.3	53	0.1	15.0	6.2	160	2.09	6.4	1.1	4.3	3.7	17	0.1	0.8	0.1	41	0.22	0.048
109975	Soil	1.1	23.7	10.1	58	0.2	17.9	6.5	170	2.22	6.5	1.0	3.5	3.4	19	0.2	1.1	0.2	47	0.21	0.047
109976	Soil	0.9	22.5	9.8	53	<0.1	17.4	7.8	282	2.15	6.7	1.2	4.1	3.5	19	<0.1	1.1	0.2	45	0.22	0.040
109977	Soil	1.3	27.7	12.5	64	0.1	23.2	7.4	247	2.40	8.2	1.0	4.6	4.1	24	0.1	1.3	0.2	43	0.33	0.058
109978	Soil	0.7	17.3	8.8	47	0.1	13.0	7.1	234	1.76	6.7	0.8	7.8	2.1	17	0.1	1.4	0.2	37	0.17	0.036
109979	Soil	1.0	22.2	10.2	57	0.2	18.9	8.2	315	2.08	7.9	1.2	3.7	2.3	23	0.2	1.0	0.2	37	0.26	0.056
109980	Soil	0.9	18.4	8.8	38	0.1	12.0	4.4	111	1.56	6.7	0.8	3.7	1.5	11	0.1	1.6	0.2	33	0.08	0.028
109981	Soil	0.7	19.5	8.0	39	<0.1	11.6	6.2	145	1.83	6.7	1.1	4.2	3.7	10	<0.1	1.1	0.2	36	0.10	0.022
109982	Soil	1.1	25.1	8.2	42	0.1	15.3	5.3	163	1.73	7.7	1.1	4.1	3.7	13	<0.1	1.4	0.2	34	0.15	0.044
109983	Soil	1.2	12.0	8.8	28	<0.1	8.3	4.9	315	1.75	8.6	0.5	1.7	0.2	6	<0.1	0.8	0.2	42	0.06	0.052
109984	Soil	1.1	26.8	7.6	41	0.1	12.8	4.4	97	1.82	5.6	1.1	2.9	5.2	4	<0.1	1.3	0.2	40	0.02	0.020
109985	Soil	0.8	21.3	6.9	28	<0.1	9.5	4.5	137	1.44	4.9	1.2	3.1	4.4	7	<0.1	1.1	0.2	32	0.06	0.018
109986	Soil	0.7	21.4	6.6	32	0.1	9.1	4.7	136	1.47	4.2	1.0	4.0	4.3	6	<0.1	1.2	0.2	30	0.05	0.027
109987	Soil	1.0	30.6	7.6	48	<0.1	14.5	6.0	142	1.86	4.0	1.1	4.6	5.0	6	<0.1	0.6	0.2	41	0.04	0.017
109988	Soil	1.1	26.3	9.0	57	<0.1	19.0	7.0	158	2.27	4.6	0.8	4.5	2.5	7	<0.1	0.5	0.2	48	0.05	0.033
109989	Soil	1.2	32.0	7.6	48	<0.1	14.4	5.9	175	1.96	3.0	1.1	2.4	4.8	6	<0.1	0.5	0.2	44	0.04	0.025
109990	Soil	1.1	32.1	7.6	52	<0.1	14.8	5.9	180	1.96	3.0	1.1	3.7	5.1	6	<0.1	0.5	0.2	43	0.05	0.024
109991	Soil	0.9	29.7	7.6	51	<0.1	19.4	8.4	192	2.37	4.4	1.1	3.4	4.3	9	<0.1	0.4	0.2	48	0.07	0.020
109992	Soil	0.9	34.7	8.1	64	<0.1	22.6	9.1	171	2.68	5.4	1.5	4.5	5.5	12	<0.1	0.5	0.2	54	0.11	0.023
109993	Soil	1.1	37.6	10.4	83	<0.1	30.7	10.7	248	3.13	5.5	1.4	6.1	4.3	12	<0.1	0.7	0.2	59	0.09	0.029
109994	Soil	0.9	39.2	11.4	88	<0.1	31.6	10.9	235	3.44	4.3	1.5	5.2	6.3	10	<0.1	0.5	0.2	64	0.08	0.032
109995	Soil	1.4	34.7	11.0	81	0.1	31.2	10.4	178	3.26	2.4	0.9	6.8	4.2	6	<0.1	0.5	0.3	63	0.07	0.055

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 Report Date: September 24, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109966	Soil	25	33	0.42	391	0.058	<1	1.36	0.006	0.24	<0.1	0.03	5.1	0.8	<0.05	5	1.2	<0.2
109967	Soil	22	28	0.22	207	0.032	1	0.86	0.005	0.11	<0.1	0.05	4.4	0.6	<0.05	4	0.6	<0.2
109968	Soil	17	36	0.41	239	0.066	<1	1.80	0.008	0.04	<0.1	0.03	5.7	<0.1	<0.05	5	0.8	<0.2
109969	Soil	17	31	0.39	289	0.061	<1	1.55	0.008	0.04	0.1	0.04	4.2	<0.1	<0.05	5	1.1	<0.2
109970	Soil	10	17	0.21	189	0.055	1	0.76	0.007	0.04	<0.1	0.02	2.0	<0.1	<0.05	2	1.1	<0.2
109971	Soil	36	31	0.57	243	0.161	<1	1.90	0.005	0.75	<0.1	0.01	4.9	0.6	<0.05	7	1.1	<0.2
109972	Soil	19	31	0.42	201	0.084	2	1.69	0.006	0.17	0.1	0.02	3.5	0.2	<0.05	6	1.1	<0.2
109973	Soil	18	30	0.40	149	0.091	<1	1.64	0.006	0.21	0.1	0.02	3.2	0.2	<0.05	5	0.7	<0.2
109974	Soil	14	24	0.32	236	0.055	<1	1.32	0.009	0.06	0.1	0.12	3.3	0.1	<0.05	4	1.2	<0.2
109975	Soil	14	30	0.31	244	0.058	<1	1.38	0.009	0.06	0.2	0.12	3.0	0.1	<0.05	5	1.3	<0.2
109976	Soil	15	28	0.34	256	0.057	<1	1.37	0.009	0.05	0.2	0.13	3.6	0.1	<0.05	4	1.3	<0.2
109977	Soil	14	30	0.39	336	0.057	2	1.41	0.013	0.05	0.2	0.13	3.5	<0.1	<0.05	4	1.3	<0.2
109978	Soil	9	21	0.28	240	0.034	1	0.96	0.009	0.03	0.1	0.11	2.1	0.1	<0.05	3	<0.5	<0.2
109979	Soil	12	24	0.33	347	0.029	1	1.18	0.009	0.03	0.2	0.15	2.5	0.1	<0.05	4	<0.5	<0.2
109980	Soil	9	20	0.19	160	0.032	<1	0.81	0.006	0.05	0.1	0.08	1.7	<0.1	<0.05	3	<0.5	<0.2
109981	Soil	11	20	0.27	158	0.030	<1	0.98	0.006	0.03	0.1	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
109982	Soil	11	23	0.26	185	0.033	<1	0.81	0.008	0.03	0.1	0.03	2.5	<0.1	<0.05	3	<0.5	<0.2
109983	Soil	8	16	0.16	74	0.017	<1	0.72	0.006	0.03	<0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
109984	Soil	15	19	0.18	106	0.033	<1	0.86	0.004	0.09	<0.1	0.01	2.2	0.1	<0.05	3	<0.5	<0.2
109985	Soil	14	17	0.18	129	0.022	<1	0.68	0.004	0.03	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
109986	Soil	13	16	0.18	94	0.023	<1	0.70	0.004	0.04	<0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
109987	Soil	12	22	0.25	145	0.045	<1	0.95	0.005	0.10	<0.1	0.02	2.8	0.1	<0.05	3	<0.5	<0.2
109988	Soil	11	25	0.26	126	0.046	<1	1.10	0.005	0.12	<0.1	0.03	2.6	0.2	<0.05	4	<0.5	<0.2
109989	Soil	14	21	0.21	141	0.049	<1	0.87	0.004	0.13	<0.1	<0.01	2.5	0.2	<0.05	3	<0.5	<0.2
109990	Soil	12	23	0.24	139	0.054	<1	0.94	0.004	0.13	<0.1	0.02	2.6	0.2	<0.05	3	<0.5	<0.2
109991	Soil	12	28	0.39	193	0.078	<1	1.35	0.006	0.15	<0.1	0.02	3.6	0.2	<0.05	4	<0.5	<0.2
109992	Soil	16	38	0.44	254	0.085	<1	1.44	0.008	0.16	<0.1	0.04	5.1	0.2	<0.05	5	<0.5	<0.2
109993	Soil	16	33	0.47	236	0.108	<1	1.46	0.008	0.25	0.1	0.04	4.7	0.2	<0.05	5	0.5	<0.2
109994	Soil	19	38	0.57	234	0.141	<1	1.64	0.007	0.50	<0.1	0.03	5.6	0.4	<0.05	6	0.5	<0.2
109995	Soil	12	38	0.52	136	0.127	<1	1.41	0.007	0.51	<0.1	0.02	3.6	0.4	<0.05	5	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
109996	Soil	1.0	25.2	9.6	53	<0.1	18.4	6.7	145	2.51	4.7	1.0	2.9	3.8	9	<0.1	0.6	0.2	52	0.07	0.024
109997	Soil	1.3	49.1	8.2	67	0.2	25.3	10.8	318	2.79	5.3	1.6	6.6	4.8	9	<0.1	1.3	0.2	51	0.04	0.036
109998	Soil	0.9	35.3	13.4	119	<0.1	28.7	9.9	290	2.85	4.4	1.5	6.5	6.1	13	<0.1	0.4	0.2	62	0.15	0.037
109999	Soil	1.1	33.4	15.7	59	0.6	21.0	6.0	272	2.36	3.6	1.9	4.2	1.0	11	0.3	0.4	0.2	49	0.10	0.055
114532	Soil	1.0	33.5	13.5	175	0.1	30.6	8.0	289	2.92	2.9	2.2	2.2	15.5	7	0.1	0.6	0.2	51	0.07	0.032
114533	Soil	1.0	37.8	11.6	69	<0.1	31.5	8.9	124	3.05	3.5	1.0	<0.5	7.1	5	<0.1	0.5	0.2	66	0.06	0.039
114534	Soil	1.5	42.4	11.5	60	0.1	27.3	9.2	248	2.84	5.3	1.1	1.3	5.6	8	<0.1	0.6	0.2	54	0.06	0.039
114535	Soil	1.8	71.4	10.0	72	0.1	44.0	12.3	471	2.85	6.8	1.7	3.0	5.5	13	<0.1	0.7	0.2	54	0.10	0.029
114536	Soil	1.5	59.0	8.6	70	<0.1	32.7	11.1	395	2.93	4.1	1.1	2.8	4.2	9	<0.1	0.8	0.3	57	0.09	0.030
114537	Soil	0.9	23.8	20.5	119	<0.1	17.4	7.3	391	2.64	5.3	1.7	1.7	7.9	13	0.2	0.3	0.2	44	0.16	0.032
114538	Soil	0.7	46.1	12.9	257	<0.1	25.5	9.8	464	3.33	2.2	2.2	2.0	16.2	10	0.3	0.1	0.3	50	0.20	0.052
114539	Soil	0.7	19.3	9.7	107	<0.1	13.1	6.6	302	2.58	3.8	1.2	1.2	11.4	7	0.3	0.2	0.2	42	0.09	0.021
114540	Soil	0.8	18.7	9.2	109	<0.1	13.3	6.6	309	2.56	3.9	1.4	1.1	12.0	7	0.3	0.2	0.2	40	0.09	0.023
114541	Soil	0.8	64.1	17.2	609	<0.1	44.5	11.8	585	3.97	1.0	2.1	2.2	16.5	10	1.3	<0.1	0.3	69	0.23	0.069
114542	Soil	0.8	66.5	19.3	615	<0.1	48.9	13.8	411	3.60	2.1	2.2	3.1	20.3	9	0.5	0.1	0.3	65	0.20	0.071
114543	Soil	1.1	19.8	11.5	243	0.2	18.2	7.6	283	3.12	9.7	1.0	3.5	11.7	10	0.2	0.5	0.3	59	0.09	0.016
114544	Soil	1.0	35.6	70.9	510	0.3	25.4	9.2	264	3.13	7.4	1.8	3.8	10.2	10	0.5	0.5	0.3	56	0.11	0.021
114545	Soil	1.4	46.4	12.5	190	0.2	23.4	6.1	282	3.19	10.1	2.6	9.3	13.7	11	0.3	0.6	0.3	43	0.12	0.031
114546	Soil	0.2	26.6	14.9	646	<0.1	19.4	5.1	254	2.12	1.2	1.4	2.6	16.5	10	0.2	0.1	0.2	30	0.18	0.042
114547	Soil	0.5	23.9	13.2	284	<0.1	27.7	8.8	283	2.71	3.4	0.9	1.3	7.4	8	0.3	0.2	0.2	60	0.10	0.033
114548	Soil	0.7	34.2	20.2	638	<0.1	19.3	5.1	286	2.28	7.0	2.3	1.1	13.7	11	0.6	0.1	0.2	44	0.19	0.051
114549	Soil	1.2	49.3	10.1	58	<0.1	52.5	16.6	212	5.16	4.5	1.1	2.6	4.7	12	0.1	0.2	0.4	117	0.21	0.089
114550	Soil	1.3	46.3	12.7	88	<0.1	36.2	10.6	199	3.76	59.8	2.3	5.3	11.6	12	<0.1	0.3	0.2	79	0.18	0.066
114551	Soil	1.3	28.9	20.4	135	0.1	31.6	9.9	298	3.32	25.8	1.2	4.0	8.9	13	0.1	0.2	0.2	86	0.19	0.050
114552	Soil	1.4	65.0	8.3	70	<0.1	50.1	12.7	160	4.78	143.1	1.3	7.3	4.2	6	<0.1	0.2	0.3	95	0.12	0.074
114553	Soil	1.4	17.1	11.6	66	<0.1	16.4	7.8	290	3.30	1126	1.2	165.0	6.7	18	0.2	0.9	0.3	61	0.18	0.039
114554	Soil	0.9	25.2	4.3	62	<0.1	18.1	5.6	355	2.76	5.3	1.7	1.6	13.2	9	<0.1	0.1	0.3	50	0.14	0.032
114555	Soil	1.0	22.5	10.1	64	0.1	17.7	7.6	341	2.97	11.3	1.6	5.2	8.0	14	<0.1	0.4	0.3	55	0.14	0.016
114556	Soil	0.5	13.3	3.7	53	<0.1	10.0	4.5	241	2.02	2.4	1.2	<0.5	11.3	5	<0.1	0.1	0.2	29	0.05	0.013
114557	Soil	0.8	13.7	6.6	290	<0.1	13.6	6.5	304	2.45	5.6	0.9	1.1	7.6	6	0.4	0.2	0.2	39	0.07	0.020

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Project: Montana
 Report Date: September 24, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
109996	Soil	12	28	0.34	176	0.081	<1	1.29	0.007	0.13	0.1	0.01	2.7	0.2	<0.05	5	<0.5	<0.2
109997	Soil	13	25	0.25	149	0.075	<1	1.00	0.004	0.18	0.1	0.07	3.6	0.4	<0.05	3	0.5	<0.2
109998	Soil	18	39	0.54	267	0.132	<1	1.52	0.008	0.33	<0.1	0.03	4.5	0.3	<0.05	6	<0.5	<0.2
109999	Soil	24	26	0.28	209	0.055	<1	1.22	0.008	0.18	<0.1	0.05	2.6	0.2	<0.05	6	<0.5	<0.2
114532	Soil	35	37	0.43	247	0.139	<1	1.24	0.006	0.55	<0.1	0.03	4.5	0.5	<0.05	6	0.7	<0.2
114533	Soil	18	39	0.55	170	0.155	<1	1.49	0.006	0.52	<0.1	<0.01	3.2	0.4	<0.05	5	0.5	<0.2
114534	Soil	16	38	0.41	178	0.097	<1	1.20	0.006	0.46	<0.1	<0.01	3.0	0.3	<0.05	4	0.6	<0.2
114535	Soil	19	33	0.51	221	0.109	<1	1.38	0.010	0.42	<0.1	0.03	6.5	0.3	<0.05	5	0.7	<0.2
114536	Soil	13	39	0.55	239	0.125	<1	1.36	0.010	0.59	<0.1	0.05	5.1	0.4	<0.05	5	<0.5	<0.2
114537	Soil	27	26	0.46	215	0.113	<1	1.50	0.008	0.42	0.1	0.01	4.3	0.4	<0.05	6	<0.5	<0.2
114538	Soil	59	29	0.64	193	0.186	<1	1.81	0.008	1.03	<0.1	<0.01	4.3	0.7	<0.05	7	<0.5	<0.2
114539	Soil	32	23	0.44	131	0.122	<1	1.64	0.005	0.53	0.2	<0.01	4.8	0.5	<0.05	7	<0.5	<0.2
114540	Soil	35	23	0.45	140	0.125	<1	1.63	0.006	0.53	0.1	<0.01	4.7	0.5	<0.05	7	<0.5	<0.2
114541	Soil	57	41	0.82	258	0.228	<1	2.15	0.008	1.21	<0.1	<0.01	4.1	0.8	<0.05	7	0.6	<0.2
114542	Soil	71	43	0.65	348	0.254	<1	2.09	0.008	0.98	<0.1	<0.01	3.3	0.7	<0.05	7	<0.5	<0.2
114543	Soil	19	33	0.47	206	0.098	<1	2.10	0.006	0.26	0.1	0.03	3.6	0.3	<0.05	6	<0.5	<0.2
114544	Soil	48	37	0.49	211	0.093	<1	1.69	0.006	0.24	<0.1	0.03	5.7	0.2	<0.05	6	<0.5	<0.2
114545	Soil	34	25	0.30	152	0.031	<1	1.21	0.006	0.12	0.1	0.44	4.2	0.1	<0.05	4	0.7	<0.2
114546	Soil	34	20	0.44	150	0.111	<1	1.27	0.006	0.58	<0.1	0.03	2.1	0.4	<0.05	5	<0.5	<0.2
114547	Soil	18	40	0.51	228	0.179	1	1.73	0.006	0.59	<0.1	0.02	2.9	0.4	<0.05	6	<0.5	<0.2
114548	Soil	39	25	0.45	132	0.111	<1	1.40	0.007	0.55	<0.1	0.04	3.2	0.6	<0.05	6	<0.5	<0.2
114549	Soil	19	68	1.14	319	0.218	<1	2.86	0.012	1.12	<0.1	0.01	5.9	0.7	<0.05	9	0.7	<0.2
114550	Soil	37	50	0.71	222	0.154	<1	2.02	0.008	0.75	<0.1	0.02	4.7	0.5	<0.05	7	0.6	<0.2
114551	Soil	19	54	0.70	251	0.187	<1	2.21	0.007	0.65	<0.1	0.01	4.2	0.4	<0.05	7	<0.5	<0.2
114552	Soil	15	56	0.89	201	0.185	<1	2.48	0.008	0.93	<0.1	<0.01	4.1	0.6	<0.05	7	0.7	<0.2
114553	Soil	16	33	0.48	183	0.057	1	1.80	0.009	0.09	0.3	0.02	2.6	0.1	<0.05	6	0.5	0.5
114554	Soil	35	29	0.48	182	0.130	<1	1.49	0.005	0.63	<0.1	0.02	3.9	0.5	<0.05	6	<0.5	<0.2
114555	Soil	26	31	0.47	198	0.089	<1	1.77	0.009	0.20	0.1	0.03	3.2	0.2	<0.05	6	<0.5	<0.2
114556	Soil	25	17	0.34	113	0.113	<1	1.33	0.004	0.52	0.1	<0.01	4.7	0.4	<0.05	6	<0.5	<0.2
114557	Soil	16	21	0.37	103	0.107	<1	1.64	0.008	0.38	0.2	<0.01	4.0	0.4	<0.05	6	<0.5	<0.2

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 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
114558	Soil			0.8	8.8	10.3	43	0.1	10.0	3.9	136	1.80	5.9	0.7	0.9	5.0	11	0.1	0.2	0.2	48	0.12	0.019
114559	Soil			1.0	16.4	7.2	460	0.2	15.6	6.4	475	2.74	8.2	0.8	1.1	5.5	10	0.6	0.4	0.2	52	0.12	0.036
114560	Soil			0.9	42.1	11.6	183	<0.1	45.4	12.9	282	4.25	1.8	2.8	2.5	8.9	16	0.2	0.1	0.4	97	0.42	0.130
114561	Soil			1.0	30.6	13.3	145	0.2	22.0	7.3	313	2.78	4.7	1.4	2.1	7.8	14	0.6	0.2	0.3	56	0.18	0.033
114562	Soil			1.0	74.8	16.1	154	<0.1	42.0	12.9	642	3.98	2.5	2.5	5.7	13.7	12	0.1	0.1	0.3	78	0.23	0.061
114563	Soil			1.1	45.7	14.7	125	<0.1	30.7	10.1	554	3.25	3.6	1.8	4.8	10.9	14	0.2	0.2	0.2	81	0.29	0.068
114564	Soil			0.7	22.4	7.9	62	0.1	19.6	8.5	375	2.12	7.2	0.7	3.1	4.3	34	0.2	0.5	0.1	45	0.64	0.067
114565	Soil			1.5	49.8	13.6	74	0.3	34.2	11.9	665	2.93	9.0	1.6	3.7	7.8	26	0.2	0.9	0.2	54	0.31	0.038
114566	Soil			0.9	40.6	8.1	49	0.2	31.4	8.5	121	2.61	3.8	1.5	2.9	9.1	9	<0.1	0.5	0.2	53	0.12	0.043
114567	Soil			1.6	53.9	13.2	90	<0.1	55.3	12.3	159	3.63	2.6	1.9	1.4	9.1	4	<0.1	1.1	0.2	75	0.07	0.048
114568	Soil			1.2	35.9	18.7	123	<0.1	32.9	10.5	473	2.95	4.5	1.5	4.2	12.3	14	0.1	0.7	0.2	50	0.19	0.060
114569	Soil			1.3	24.1	13.0	61	0.1	26.1	9.6	408	2.61	7.9	1.3	1.0	5.4	20	<0.1	0.4	0.2	64	0.23	0.043
114570	Soil			1.2	33.6	12.9	56	<0.1	31.8	10.5	342	3.12	11.9	1.0	2.3	6.1	17	0.1	0.6	0.2	70	0.29	0.034
114571	Soil			1.7	63.0	12.4	76	0.5	38.1	5.8	214	3.11	4.7	0.9	<0.5	5.1	14	<0.1	0.2	0.3	81	0.13	0.044
114572	Soil			2.1	72.3	13.6	80	0.4	35.0	7.5	277	2.77	1.8	1.9	1.9	6.9	18	<0.1	0.1	0.2	66	0.22	0.065
114573	Soil			1.6	49.4	13.0	93	<0.1	42.8	11.5	293	3.53	3.3	1.8	2.6	9.9	13	<0.1	0.3	0.2	59	0.22	0.050
114574	Soil			1.4	51.5	10.1	89	0.2	40.9	12.9	396	3.34	3.6	1.6	<0.5	6.8	18	<0.1	0.2	0.2	78	0.25	0.034
114575	Soil			1.1	31.4	15.7	83	0.2	23.3	9.7	284	3.16	6.5	1.8	2.9	8.5	14	<0.1	0.4	0.2	65	0.15	0.023
114576	Soil			0.9	40.2	12.0	108	<0.1	26.5	8.5	309	3.29	2.4	2.9	3.1	14.6	17	<0.1	0.2	0.2	59	0.24	0.029
114577	Soil			1.0	61.7	15.3	147	<0.1	56.9	16.8	464	5.34	1.5	2.3	7.6	9.8	15	<0.1	0.2	0.4	116	0.26	0.061
114578	Soil			1.7	51.1	10.3	80	<0.1	47.3	12.6	276	4.38	3.2	1.3	<0.5	6.2	8	<0.1	0.3	0.3	105	0.09	0.060
114579	Soil			3.3	96.0	14.6	134	0.1	67.1	19.3	380	4.38	3.2	3.2	5.3	12.1	25	<0.1	0.4	0.3	69	0.23	0.072
114580	Soil			1.1	69.3	14.4	99	0.1	37.5	10.5	256	3.93	4.4	2.6	6.9	12.6	13	<0.1	0.3	0.3	83	0.16	0.034
114581	Soil			0.9	37.0	10.7	70	0.3	36.6	10.1	278	3.27	3.9	1.6	1.8	4.4	27	<0.1	0.3	0.2	75	0.26	0.061
114582	Soil			1.0	40.5	9.9	51	<0.1	40.1	10.7	194	3.49	9.1	1.1	5.5	6.5	9	<0.1	0.5	0.2	63	0.09	0.034
114583	Soil			0.6	55.5	7.4	92	<0.1	66.4	16.5	428	6.71	0.8	2.2	10.5	11.6	15	<0.1	0.3	0.3	54	0.14	0.055
114584	Soil			0.6	36.5	10.2	73	<0.1	31.9	8.5	244	3.39	0.8	1.5	2.2	6.3	7	<0.1	<0.1	0.2	64	0.06	0.016
114585	Soil			0.7	13.1	14.8	34	<0.1	10.2	3.9	193	1.12	3.7	2.1	0.9	4.4	75	<0.1	0.2	0.2	21	0.36	0.026
114586	Soil			0.7	20.6	9.0	48	0.1	16.7	6.2	184	1.90	5.5	2.2	2.6	1.5	27	0.2	0.4	0.1	33	0.32	0.052
114587	Soil			1.0	21.6	9.1	47	<0.1	13.2	5.9	165	1.75	6.2	1.7	3.2	2.6	31	<0.1	0.3	0.1	30	0.29	0.043

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
114558	Soil	18	22	0.28	134	0.070	<1	1.30	0.008	0.12	0.1	0.01	2.0	0.1	<0.05	6	<0.5	<0.2
114559	Soil	12	26	0.38	176	0.096	<1	1.98	0.006	0.32	0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
114560	Soil	27	62	0.98	452	0.231	<1	2.43	0.011	0.88	<0.1	<0.01	5.1	0.6	<0.05	8	0.5	<0.2
114561	Soil	25	31	0.49	229	0.150	<1	1.64	0.009	0.39	<0.1	0.02	3.2	0.3	<0.05	6	<0.5	<0.2
114562	Soil	41	46	0.81	402	0.242	<1	2.18	0.009	1.04	<0.1	0.01	5.4	0.6	<0.05	7	0.6	<0.2
114563	Soil	38	43	0.58	288	0.191	<1	1.86	0.010	0.78	0.1	0.01	5.7	0.5	<0.05	7	0.5	<0.2
114564	Soil	16	25	0.44	260	0.074	1	1.15	0.021	0.08	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
114565	Soil	25	33	0.35	267	0.059	<1	1.17	0.012	0.14	0.1	0.07	4.8	0.1	<0.05	4	0.6	<0.2
114566	Soil	26	31	0.36	148	0.103	<1	1.03	0.005	0.36	<0.1	0.06	3.9	0.3	<0.05	4	0.6	<0.2
114567	Soil	28	41	0.59	170	0.158	<1	1.46	0.009	0.59	<0.1	0.02	4.9	0.5	<0.05	5	0.8	<0.2
114568	Soil	38	33	0.44	243	0.111	<1	1.21	0.009	0.36	<0.1	0.04	4.0	0.3	<0.05	5	0.5	<0.2
114569	Soil	18	39	0.51	263	0.085	<1	1.52	0.015	0.13	0.1	<0.01	3.9	0.1	<0.05	5	<0.5	<0.2
114570	Soil	13	49	0.58	302	0.072	<1	2.00	0.010	0.08	0.1	<0.01	7.1	<0.1	<0.05	6	<0.5	<0.2
114571	Soil	18	65	0.74	368	0.127	<1	1.70	0.007	0.50	<0.1	<0.01	3.8	0.3	0.13	7	1.2	<0.2
114572	Soil	25	42	0.68	261	0.117	<1	1.43	0.007	0.59	<0.1	<0.01	3.8	0.4	0.06	6	1.4	<0.2
114573	Soil	32	42	0.80	135	0.044	<1	2.00	0.006	0.19	<0.1	0.02	3.0	0.1	<0.05	7	0.7	<0.2
114574	Soil	22	75	0.96	229	0.108	<1	2.10	0.009	0.27	<0.1	0.01	4.3	0.2	<0.05	8	0.6	<0.2
114575	Soil	22	38	0.56	209	0.102	<1	2.06	0.008	0.19	<0.1	0.01	3.6	0.2	<0.05	6	<0.5	<0.2
114576	Soil	30	33	0.69	186	0.128	<1	2.08	0.009	0.63	<0.1	0.03	5.7	0.5	<0.05	7	0.5	<0.2
114577	Soil	30	67	1.04	246	0.287	<1	2.92	0.010	1.28	<0.1	0.03	6.6	0.9	<0.05	9	0.6	<0.2
114578	Soil	17	60	0.88	179	0.200	<1	2.64	0.007	0.72	0.1	<0.01	4.0	0.5	<0.05	8	0.9	<0.2
114579	Soil	38	46	0.60	340	0.013	<1	2.04	0.013	0.19	<0.1	0.01	4.0	0.1	0.09	7	1.2	<0.2
114580	Soil	39	48	0.80	295	0.216	<1	2.42	0.009	0.79	<0.1	0.02	4.2	0.6	<0.05	7	1.1	<0.2
114581	Soil	16	44	0.55	287	0.124	<1	1.92	0.010	0.32	<0.1	0.03	4.1	0.2	<0.05	7	<0.5	<0.2
114582	Soil	13	42	0.49	185	0.046	1	1.95	0.004	0.16	0.1	0.03	2.5	0.1	<0.05	5	0.7	<0.2
114583	Soil	19	40	0.29	112	0.007	2	1.10	0.003	0.19	0.1	0.03	3.9	0.1	<0.05	6	1.5	<0.2
114584	Soil	20	44	0.55	185	0.152	<1	1.61	0.006	0.65	<0.1	0.02	3.7	0.4	<0.05	6	<0.5	<0.2
114585	Soil	15	13	0.26	574	0.014	3	0.89	0.012	0.08	<0.1	0.02	2.0	0.1	<0.05	2	0.8	<0.2
114586	Soil	11	22	0.32	271	0.025	<1	1.02	0.007	0.04	0.1	0.05	2.5	<0.1	<0.05	3	0.7	<0.2
114587	Soil	15	19	0.30	223	0.015	<1	1.03	0.007	0.05	<0.1	0.04	2.7	0.2	<0.05	3	<0.5	<0.2

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Project: Montana
Report Date: September 24, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
114588	Soil	1.8	24.1	11.3	67	<0.1	19.2	6.5	199	2.01	13.6	1.5	2.7	6.3	37	<0.1	0.5	0.2	36	0.34	0.029
114589	Soil	0.9	24.9	16.7	58	<0.1	17.2	8.0	400	2.18	5.7	1.6	1.4	5.9	59	<0.1	0.3	0.3	32	0.52	0.034
114590	Soil	0.8	27.1	15.8	64	<0.1	17.2	8.4	409	2.34	5.8	1.5	2.0	6.4	64	0.1	0.5	0.3	38	0.62	0.042
114591	Soil	0.6	31.2	13.4	54	<0.1	18.4	8.0	622	3.06	2.7	2.2	4.0	8.1	50	<0.1	0.3	0.3	44	0.46	0.046
114592	Soil	0.6	31.4	16.8	60	0.1	25.3	11.0	839	3.41	0.7	3.2	3.7	12.8	42	<0.1	0.2	0.3	40	0.42	0.023
114593	Soil	0.4	108.2	5.8	62	<0.1	50.2	15.3	161	5.06	1.0	2.9	6.3	6.9	19	<0.1	0.2	0.2	118	0.13	0.059
114594	Soil	1.2	60.4	15.6	88	0.1	52.4	21.5	331	4.78	7.9	1.0	1.9	5.7	15	0.2	0.4	0.2	101	0.21	0.076
114595	Soil	2.0	81.9	18.2	152	0.1	53.4	11.3	256	4.61	2.9	3.1	7.7	11.8	14	<0.1	0.3	0.2	117	0.24	0.077
114596	Soil	3.9	78.2	12.7	48	0.1	19.1	9.1	336	2.37	3.0	2.3	2.2	6.2	14	<0.1	0.2	0.2	45	0.13	0.039
114597	Soil	1.2	90.7	18.9	133	<0.1	55.9	13.3	423	5.98	2.4	2.2	8.7	9.0	14	0.1	0.2	0.3	148	0.26	0.077
114598	Soil	0.9	43.0	12.4	112	0.2	26.7	9.7	316	3.27	10.0	3.4	6.0	10.1	17	0.4	0.7	0.2	63	0.17	0.017
124216	Soil	1.3	36.4	10.2	84	0.1	31.6	12.1	501	2.90	11.1	0.8	2.9	4.3	53	0.5	0.9	0.2	58	1.23	0.083
124217	Soil	0.8	28.7	8.9	68	0.1	25.4	10.4	512	2.44	8.7	0.8	3.4	4.0	42	0.3	0.8	0.2	49	0.80	0.072
124218	Soil	0.8	28.1	9.4	77	0.1	26.2	10.3	402	2.45	6.8	0.7	6.0	3.8	37	0.4	0.7	0.2	57	0.59	0.082
124219	Soil	0.7	27.8	10.3	68	0.1	22.6	9.4	350	2.37	7.7	1.0	4.0	3.8	32	0.2	0.7	0.2	48	0.44	0.061
124220	Soil	1.0	33.6	12.4	77	0.2	28.5	10.6	408	2.68	9.7	0.7	2.8	4.6	34	0.4	0.8	0.2	51	0.47	0.062
124221	Soil	1.0	60.1	17.1	142	0.1	45.8	13.4	496	4.71	3.9	2.0	5.5	13.2	18	0.2	0.4	0.4	85	0.36	0.100
124222	Soil	2.0	74.2	18.7	94	<0.1	35.2	9.1	360	4.10	5.8	2.3	7.0	18.5	22	<0.1	0.5	0.3	84	0.23	0.046
124223	Soil	1.8	32.3	21.0	70	<0.1	23.1	10.5	248	2.16	9.5	1.7	12.8	8.7	26	<0.1	0.7	0.2	49	0.24	0.016
124224	Soil	1.2	31.3	14.5	51	<0.1	15.9	9.4	180	1.72	9.0	1.0	12.5	9.2	19	<0.1	0.7	0.2	44	0.17	0.012
124225	Soil	1.2	21.7	11.7	51	<0.1	13.3	13.3	159	1.17	9.5	1.2	7.6	8.5	13	<0.1	0.5	0.2	32	0.11	0.010
124226	Soil	1.1	22.6	20.3	86	0.2	23.4	5.9	65	1.83	15.7	1.0	170.3	5.4	15	0.1	0.5	0.2	53	0.08	0.018
124227	Soil	1.6	38.6	16.0	83	<0.1	23.2	8.4	195	3.18	14.4	2.1	7.5	9.9	13	<0.1	0.7	0.3	61	0.09	0.022
124228	Soil	1.1	35.1	17.4	89	<0.1	23.6	9.5	433	3.87	6.0	2.0	18.5	10.8	32	0.1	0.3	0.2	28	0.19	0.023
124229	Soil	0.9	15.5	12.1	75	<0.1	7.7	2.3	429	1.53	2.1	1.3	8.1	14.4	15	0.1	0.3	0.3	3	0.21	0.012
124230	Soil	2.7	43.6	15.2	95	0.2	27.1	8.1	358	3.10	8.6	2.8	5.4	11.1	33	<0.1	0.3	0.3	87	0.34	0.108
124231	Soil	0.6	30.0	25.7	224	0.1	24.2	7.6	247	2.69	19.8	2.0	2.9	10.0	14	0.3	0.2	0.2	51	0.25	0.066
124232	Soil	0.7	28.4	13.2	623	<0.1	17.3	11.9	323	3.53	10.0	2.0	5.5	10.3	21	0.5	0.3	0.3	90	0.34	0.024
124233	Soil	1.5	39.7	16.3	68	0.1	26.9	8.2	230	2.76	10.3	1.8	10.7	8.7	15	0.1	0.4	0.2	56	0.20	0.036
124234	Soil	0.6	41.2	15.0	225	<0.1	30.6	11.0	498	3.31	3.0	2.1	2.1	11.0	17	1.0	0.1	0.2	70	0.22	0.059

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Project: Montana
 Report Date: September 24, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
114588	Soil	21	25	0.36	269	0.029	1	1.28	0.007	0.15	<0.1	0.02	3.7	0.6	<0.05	4	<0.5	<0.2
114589	Soil	21	25	0.47	241	0.009	1	1.73	0.008	0.22	<0.1	0.07	3.1	0.4	<0.05	5	<0.5	<0.2
114590	Soil	23	27	0.56	246	0.018	2	1.90	0.010	0.22	<0.1	0.07	3.5	0.4	<0.05	5	<0.5	<0.2
114591	Soil	27	27	0.48	278	0.018	<1	1.83	0.010	0.33	<0.1	0.11	4.4	0.5	<0.05	6	<0.5	<0.2
114592	Soil	40	23	0.47	258	0.018	<1	1.82	0.009	0.34	<0.1	0.03	5.4	0.5	<0.05	6	<0.5	<0.2
114593	Soil	14	71	0.96	273	0.202	<1	2.36	0.015	1.04	<0.1	0.02	7.8	0.6	<0.05	9	0.7	<0.2
114594	Soil	16	54	0.79	315	0.181	<1	2.56	0.007	0.47	0.1	<0.01	3.5	0.4	<0.05	8	<0.5	<0.2
114595	Soil	40	57	0.82	355	0.184	<1	2.20	0.008	0.76	<0.1	0.01	4.6	0.4	<0.05	7	2.5	<0.2
114596	Soil	24	28	0.51	130	0.047	<1	1.10	0.004	0.20	<0.1	<0.01	4.0	0.2	<0.05	4	1.1	<0.2
114597	Soil	25	82	1.19	396	0.336	<1	3.17	0.011	1.62	<0.1	0.01	8.0	0.8	<0.05	10	1.2	<0.2
114598	Soil	30	39	0.55	224	0.087	<1	1.80	0.010	0.12	0.1	0.05	5.7	0.1	<0.05	6	<0.5	<0.2
124216	Soil	15	31	0.76	384	0.082	1	1.29	0.027	0.11	0.3	0.03	3.6	<0.1	<0.05	4	0.7	<0.2
124217	Soil	14	27	0.55	329	0.069	2	1.20	0.022	0.06	0.2	0.02	3.2	<0.1	<0.05	4	0.5	<0.2
124218	Soil	15	30	0.56	356	0.076	2	1.39	0.023	0.06	0.2	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
124219	Soil	15	29	0.46	354	0.064	<1	1.46	0.015	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
124220	Soil	16	31	0.50	423	0.069	<1	1.51	0.016	0.06	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
124221	Soil	42	53	0.82	361	0.251	<1	2.32	0.008	1.17	0.1	0.02	5.0	0.7	<0.05	7	<0.5	<0.2
124222	Soil	56	58	0.79	414	0.188	<1	2.14	0.009	0.86	<0.1	0.03	7.7	0.5	<0.05	7	0.7	<0.2
124223	Soil	22	35	0.38	409	0.057	<1	1.52	0.005	0.24	<0.1	0.04	5.7	0.9	<0.05	6	<0.5	<0.2
124224	Soil	21	26	0.25	260	0.031	<1	1.27	0.004	0.14	<0.1	0.07	6.9	0.7	<0.05	5	0.6	<0.2
124225	Soil	19	20	0.21	185	0.032	<1	0.82	0.004	0.21	<0.1	0.02	5.0	0.8	<0.05	4	<0.5	<0.2
124226	Soil	18	28	0.21	213	0.014	<1	1.37	0.003	0.12	<0.1	0.03	2.4	0.6	<0.05	5	<0.5	<0.2
124227	Soil	22	37	0.39	300	0.077	<1	1.45	0.005	0.24	<0.1	0.05	7.0	0.5	<0.05	6	<0.5	<0.2
124228	Soil	16	18	0.46	229	0.083	<1	1.86	0.005	0.56	0.2	<0.01	6.1	0.5	<0.05	7	0.8	<0.2
124229	Soil	40	6	0.26	110	0.004	1	1.10	0.002	0.17	<0.1	<0.01	8.1	0.1	<0.05	6	<0.5	<0.2
124230	Soil	41	55	0.88	365	0.140	<1	1.82	0.012	0.61	0.2	<0.01	6.8	0.5	0.07	8	2.5	<0.2
124231	Soil	32	31	0.50	248	0.172	<1	1.43	0.007	0.64	0.1	0.02	2.7	0.4	<0.05	5	<0.5	<0.2
124232	Soil	31	93	1.24	374	0.147	2	2.75	0.009	0.82	<0.1	0.02	10.2	0.5	<0.05	9	<0.5	<0.2
124233	Soil	21	34	0.54	154	0.105	1	1.53	0.014	0.25	0.1	0.02	3.0	0.2	<0.05	4	<0.5	<0.2
124234	Soil	34	40	0.69	368	0.213	<1	1.82	0.008	0.85	<0.1	0.01	3.8	0.5	<0.05	6	0.6	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
124235	Soil	1.4	22.3	12.5	69	<0.1	15.1	5.1	148	1.87	11.8	1.3	35.4	7.3	12	0.1	0.4	0.2	35	0.09	0.021
124236	Soil	1.3	39.8	13.0	146	0.2	26.2	8.8	259	3.04	5.9	2.0	9.3	7.4	17	0.2	0.3	0.2	58	0.22	0.047
124237	Soil	1.0	20.4	10.4	48	<0.1	12.8	4.2	95	1.46	7.6	1.4	8.1	4.8	12	0.1	0.4	0.1	34	0.12	0.017
124238	Soil	1.4	26.0	14.3	54	<0.1	17.2	6.5	141	2.03	9.3	1.6	10.7	7.1	16	<0.1	0.7	0.2	46	0.12	0.010
124239	Soil	1.1	24.4	13.0	55	<0.1	17.4	6.4	143	2.15	10.5	0.9	8.0	9.0	11	<0.1	0.7	0.2	50	0.06	0.012
124240	Soil	1.2	30.1	14.7	61	<0.1	16.5	7.2	125	2.08	13.3	1.3	4.5	8.8	16	<0.1	0.7	0.2	42	0.07	0.016
124241	Soil	1.4	28.8	13.3	57	<0.1	19.2	9.2	210	2.20	11.3	1.9	11.9	6.3	23	<0.1	0.6	0.2	46	0.17	0.013
124242	Soil	1.6	22.4	12.1	91	<0.1	15.6	8.6	81	2.55	29.7	0.7	12.4	4.6	10	<0.1	0.7	0.2	44	0.07	0.019
124243	Soil	1.2	20.0	12.3	67	<0.1	21.0	10.1	140	2.53	9.7	1.0	10.5	8.9	19	<0.1	0.7	0.2	44	0.10	0.018
124244	Soil	1.1	36.5	12.0	60	<0.1	26.4	10.9	396	2.97	11.9	1.5	5.2	5.4	28	<0.1	0.9	0.2	56	0.27	0.022
124245	Soil	1.0	40.8	12.7	121	<0.1	43.7	14.8	341	2.79	8.7	1.4	4.6	7.2	12	<0.1	0.7	0.3	48	0.09	0.015
124246	Soil	0.6	20.0	8.6	38	<0.1	14.8	5.7	156	1.73	5.9	0.7	3.0	3.3	19	<0.1	0.5	0.1	37	0.17	0.012
124247	Soil	0.9	20.7	10.1	53	0.1	16.8	6.4	336	1.89	6.4	0.6	2.2	2.6	20	0.4	0.6	0.1	40	0.20	0.034
124248	Soil	0.8	28.8	10.4	61	0.2	24.8	8.5	341	2.34	10.0	0.9	4.0	3.0	36	0.2	0.7	0.2	44	0.56	0.064
124249	Soil	0.6	27.8	9.0	59	0.1	23.1	8.5	359	2.22	9.3	0.8	2.1	2.9	35	0.2	0.7	0.1	41	0.57	0.061
124250	Soil	0.9	28.3	10.1	61	0.1	23.2	8.6	358	2.31	9.1	0.8	2.5	3.0	34	0.2	0.8	0.2	42	0.55	0.062
124251	Soil	0.7	26.6	9.0	54	0.2	19.3	6.6	206	2.12	5.8	1.0	4.6	0.7	32	0.5	0.8	0.2	36	0.33	0.054
124252	Soil	0.9	26.1	10.4	57	0.1	21.5	7.2	254	2.26	9.1	1.1	<0.5	3.6	28	0.1	0.8	0.2	44	0.34	0.061
124253	Soil	0.6	17.8	7.5	45	<0.1	11.9	4.9	144	1.71	7.1	0.8	3.8	3.3	17	0.1	1.2	0.1	34	0.20	0.043
124254	Soil	0.7	19.7	7.7	49	0.1	13.7	5.5	170	1.88	7.0	1.1	2.2	2.9	17	0.1	1.3	0.2	36	0.18	0.049
124255	Soil	1.0	29.3	10.3	53	<0.1	20.2	6.7	235	2.33	9.4	1.3	7.7	3.7	27	<0.1	1.3	0.2	45	0.31	0.049
124256	Soil	1.2	22.9	13.8	47	0.1	19.3	7.4	224	2.33	8.9	1.2	1.3	3.7	23	<0.1	1.1	0.2	46	0.28	0.036
124257	Soil	1.0	24.6	10.4	50	<0.1	17.9	7.9	240	2.36	9.4	1.1	2.6	3.9	21	0.1	1.2	0.2	45	0.24	0.035
124258	Soil	1.0	28.1	9.8	53	0.2	16.8	7.1	283	2.28	10.6	1.2	3.1	2.0	22	0.1	1.7	0.2	42	0.22	0.044
124259	Soil	0.9	25.3	7.4	37	0.1	13.8	5.8	201	1.88	8.2	1.0	4.2	3.1	16	<0.1	1.5	0.1	37	0.16	0.031
124260	Soil	0.9	27.2	7.9	42	0.2	12.4	5.2	143	1.95	8.5	1.3	9.2	4.2	13	0.1	1.5	0.2	39	0.11	0.037
124261	Soil	1.0	32.1	7.3	44	0.1	13.2	5.8	201	2.16	8.0	1.2	5.9	4.6	12	<0.1	1.6	0.2	38	0.11	0.038
124262	Soil	1.5	38.3	5.8	40	0.2	14.1	4.6	150	1.85	12.3	1.2	7.5	3.3	7	0.1	4.1	0.2	32	0.05	0.032
124263	Soil	0.9	19.3	6.5	39	<0.1	11.4	5.1	164	1.75	4.6	1.1	4.2	5.7	7	0.1	1.0	0.2	34	0.05	0.024
124264	Soil	0.9	24.7	8.9	51	0.1	16.1	6.0	178	1.99	4.3	1.3	6.6	3.5	12	0.1	0.6	0.2	40	0.11	0.041

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Project: Montana
 Report Date: September 24, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
124235	Soil	21	25	0.31	229	0.065	2	0.95	0.004	0.30	<0.1	0.03	3.9	0.5	<0.05	4	<0.5	<0.2
124236	Soil	25	34	0.68	362	0.148	<1	1.77	0.008	0.59	0.1	0.03	4.3	0.4	<0.05	6	1.0	<0.2
124237	Soil	17	21	0.26	270	0.048	2	0.84	0.004	0.14	<0.1	<0.01	3.0	0.3	<0.05	3	0.5	<0.2
124238	Soil	20	32	0.36	312	0.065	2	1.34	0.006	0.12	<0.1	0.05	5.2	0.2	<0.05	5	0.6	<0.2
124239	Soil	15	32	0.35	191	0.059	<1	1.41	0.005	0.18	<0.1	0.04	4.1	0.4	<0.05	5	0.5	<0.2
124240	Soil	22	26	0.28	218	0.041	2	1.13	0.003	0.23	<0.1	0.04	6.0	0.6	<0.05	5	<0.5	<0.2
124241	Soil	21	27	0.35	351	0.047	<1	1.37	0.008	0.12	<0.1	0.04	5.6	0.4	<0.05	5	<0.5	<0.2
124242	Soil	10	22	0.20	140	0.019	<1	1.18	0.002	0.14	<0.1	0.01	3.1	0.6	<0.05	4	<0.5	<0.2
124243	Soil	14	26	0.30	193	0.045	<1	1.34	0.003	0.22	<0.1	<0.01	4.3	0.8	<0.05	4	<0.5	<0.2
124244	Soil	19	32	0.45	625	0.057	<1	1.61	0.010	0.06	0.1	0.07	6.5	0.1	<0.05	5	<0.5	<0.2
124245	Soil	20	29	0.32	239	0.081	<1	1.26	0.006	0.26	<0.1	0.06	6.0	1.3	<0.05	6	<0.5	<0.2
124246	Soil	13	23	0.31	244	0.065	<1	1.09	0.008	0.03	0.1	0.01	4.6	<0.1	<0.05	3	0.8	<0.2
124247	Soil	13	23	0.31	233	0.056	1	1.16	0.011	0.03	0.1	0.02	3.6	0.1	<0.05	4	<0.5	<0.2
124248	Soil	14	25	0.46	390	0.051	<1	1.29	0.017	0.04	0.2	0.04	3.7	<0.1	<0.05	4	0.6	<0.2
124249	Soil	13	24	0.43	361	0.045	<1	1.22	0.016	0.04	0.2	0.04	3.2	<0.1	<0.05	4	0.7	<0.2
124250	Soil	13	24	0.46	366	0.045	1	1.23	0.014	0.04	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
124251	Soil	11	31	0.33	344	0.038	2	1.34	0.011	0.05	0.2	0.10	3.0	<0.1	<0.05	4	0.5	<0.2
124252	Soil	14	26	0.41	337	0.051	<1	1.27	0.012	0.04	0.2	0.06	3.7	<0.1	<0.05	4	<0.5	<0.2
124253	Soil	11	19	0.26	185	0.054	<1	0.92	0.008	0.04	0.2	0.07	2.5	<0.1	<0.05	3	<0.5	<0.2
124254	Soil	12	21	0.29	212	0.043	2	1.12	0.008	0.04	0.2	0.10	2.9	<0.1	<0.05	4	<0.5	<0.2
124255	Soil	14	26	0.36	322	0.055	1	1.31	0.011	0.04	0.2	0.11	4.0	<0.1	<0.05	4	0.5	<0.2
124256	Soil	14	31	0.38	307	0.053	1	1.35	0.012	0.04	0.2	0.09	4.6	<0.1	<0.05	4	0.7	<0.2
124257	Soil	13	27	0.37	284	0.050	1	1.38	0.011	0.04	0.2	0.07	4.0	<0.1	<0.05	4	<0.5	<0.2
124258	Soil	11	23	0.32	289	0.036	<1	1.26	0.008	0.04	0.2	0.13	3.2	<0.1	<0.05	4	0.7	<0.2
124259	Soil	13	20	0.24	210	0.044	1	0.92	0.009	0.03	0.1	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2
124260	Soil	14	20	0.26	167	0.043	<1	1.15	0.007	0.04	0.1	0.07	3.5	0.1	<0.05	4	<0.5	<0.2
124261	Soil	13	19	0.23	153	0.046	1	0.95	0.007	0.05	0.1	0.10	3.7	0.1	<0.05	3	<0.5	<0.2
124262	Soil	11	15	0.12	96	0.032	<1	0.66	0.004	0.04	<0.1	0.04	2.8	0.1	<0.05	2	<0.5	<0.2
124263	Soil	17	15	0.19	111	0.037	<1	0.77	0.004	0.06	<0.1	0.05	2.8	0.1	<0.05	3	<0.5	0.2
124264	Soil	15	23	0.30	173	0.049	1	1.16	0.007	0.08	0.1	0.04	3.4	0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
124265	Soil	1.0	32.6	8.8	56	<0.1	20.4	8.1	225	2.56	6.1	1.3	4.8	5.4	15	<0.1	0.7	0.2	44	0.11	0.026
124266	Soil	1.0	24.7	8.2	51	<0.1	17.0	7.9	198	2.27	4.8	1.2	4.5	4.2	11	<0.1	0.5	0.2	46	0.10	0.020
124267	Soil	0.9	41.5	11.0	81	<0.1	34.9	8.9	142	3.38	2.6	1.0	6.3	4.4	9	<0.1	0.4	0.3	66	0.08	0.031
124268	Soil	1.1	33.6	9.9	72	<0.1	21.1	6.4	156	2.41	4.0	1.2	5.2	5.7	10	0.1	0.5	0.2	48	0.09	0.033
124269	Soil	1.0	29.0	9.9	58	<0.1	19.6	6.8	189	2.42	6.7	1.3	4.3	4.9	19	<0.1	0.5	0.2	48	0.18	0.028
124270	Soil	0.9	22.1	8.9	64	0.1	19.5	7.3	206	2.62	4.7	0.8	4.7	4.3	10	<0.1	0.4	0.2	57	0.11	0.025
124271	Soil	1.0	27.1	8.5	80	<0.1	22.5	8.1	398	2.62	3.1	1.0	4.5	6.2	7	<0.1	0.4	0.2	61	0.06	0.025
124272	Soil	1.1	34.6	11.4	69	0.1	23.3	9.5	311	2.85	4.8	1.9	7.7	6.5	12	<0.1	0.5	0.2	59	0.11	0.021
124273	Soil	0.7	15.3	20.9	186	0.1	15.2	6.6	371	2.56	2.8	1.0	2.6	9.5	6	<0.1	0.3	0.2	44	0.06	0.033
124274	Soil	1.0	22.5	11.6	71	0.1	16.9	7.3	233	2.62	5.6	1.1	2.9	5.1	11	<0.1	0.5	0.2	52	0.11	0.022
124275	Soil	1.1	22.8	12.3	91	0.1	20.4	9.9	400	2.78	4.4	1.0	2.5	6.6	9	<0.1	0.4	0.3	55	0.11	0.043
124276	Soil	1.4	24.9	20.0	80	<0.1	21.4	8.3	295	2.70	5.1	1.7	4.7	10.4	14	<0.1	0.4	0.3	50	0.16	0.020
124277	Soil	1.0	23.5	13.1	80	<0.1	22.8	8.7	306	2.93	6.3	1.0	4.6	7.1	14	<0.1	0.4	0.3	59	0.16	0.031
124278	Soil	0.4	13.1	138.8	320	<0.1	18.4	8.6	602	3.03	1.5	2.2	2.0	14.8	11	0.3	0.2	0.2	47	0.21	0.044
124279	Soil	1.0	24.1	11.0	83	0.1	18.6	13.6	558	2.73	5.3	1.3	1.7	7.2	11	0.1	0.4	0.2	56	0.15	0.042
124280	Soil	1.0	13.9	42.5	191	0.4	14.1	5.4	161	2.11	5.5	0.6	2.3	3.5	9	0.1	0.4	0.2	46	0.10	0.021
124282	Soil	1.4	24.9	28.7	136	0.2	23.1	9.8	328	3.23	9.6	1.1	5.9	7.5	12	0.2	0.5	0.4	58	0.16	0.034
124283	Soil	1.1	24.2	18.8	184	0.2	23.3	8.1	292	2.72	3.7	1.2	4.8	11.1	10	0.2	0.3	0.2	54	0.16	0.041
124284	Soil	0.9	28.5	10.0	58	<0.1	24.0	8.2	202	2.43	7.1	0.7	2.3	4.8	16	<0.1	0.5	0.2	51	0.18	0.023
124285	Soil	0.4	16.5	3.8	87	<0.1	13.1	6.7	408	2.63	1.7	1.2	1.8	15.5	8	<0.1	0.2	0.2	40	0.14	0.024
124286	Soil	1.1	33.5	10.8	83	<0.1	31.7	10.0	232	2.93	8.1	1.1	2.1	6.2	11	<0.1	0.8	0.2	58	0.07	0.024
124287	Soil	1.0	26.4	10.3	69	0.2	24.8	9.6	403	2.28	5.0	0.8	3.4	3.9	15	0.1	0.5	0.2	47	0.18	0.043
113746	Soil	1.0	30.1	11.5	66	0.2	19.5	7.7	226	2.40	8.7	1.3	3.4	3.5	20	0.1	1.4	0.2	48	0.21	0.052
113747	Soil	1.0	22.4	10.5	61	0.1	17.5	7.1	174	2.14	7.6	1.1	2.7	4.3	17	<0.1	1.0	0.2	44	0.18	0.048
113748	Soil	1.0	25.1	9.0	54	0.1	16.4	6.0	195	1.82	7.6	1.0	3.1	4.1	18	0.1	1.9	0.1	38	0.18	0.045
113749	Soil	1.2	31.7	14.4	57	0.2	19.4	8.0	225	2.69	9.3	1.0	6.3	3.3	18	0.1	1.3	0.3	58	0.16	0.034
113750	Soil	1.4	34.4	13.1	66	0.2	20.8	6.8	230	2.43	10.3	1.1	4.6	4.9	20	<0.1	1.6	0.2	45	0.21	0.052
113751	Soil	1.3	45.8	11.8	84	0.1	22.2	7.1	372	2.69	4.1	1.1	3.7	9.1	15	<0.1	0.8	0.2	54	0.14	0.036
113752	Soil	0.3	25.9	6.0	109	<0.1	19.3	6.8	514	2.96	1.4	0.9	1.6	5.1	13	0.1	0.3	0.2	70	0.09	0.027
113753	Soil	0.5	22.3	4.4	42	<0.1	15.3	4.7	184	1.45	1.5	0.8	0.9	9.7	6	<0.1	0.4	0.1	24	0.04	0.023

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Method	Analyte	Unit	MDL	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	0.01	0.1	0.01	0.1	0.05	0.2		
124265	Soil			16	25	0.34	259	0.069	1	1.23	0.007	0.15	0.1	0.05	5.0	0.1	<0.05	4	<0.5	<0.2
124266	Soil			14	25	0.33	212	0.073	<1	1.24	0.007	0.10	0.1	0.04	4.9	0.1	<0.05	4	<0.5	<0.2
124267	Soil			12	40	0.62	257	0.169	<1	1.69	0.008	0.69	<0.1	0.03	5.7	0.6	<0.05	6	<0.5	<0.2
124268	Soil			16	26	0.33	184	0.087	2	1.16	0.009	0.25	<0.1	0.03	4.0	0.2	<0.05	4	<0.5	<0.2
124269	Soil			15	26	0.34	246	0.080	<1	1.29	0.008	0.11	0.2	0.05	4.7	0.1	<0.05	4	0.7	<0.2
124270	Soil			13	30	0.41	178	0.108	2	1.56	0.006	0.19	0.1	0.02	3.3	0.2	<0.05	5	0.6	<0.2
124271	Soil			19	33	0.42	198	0.145	2	1.36	0.006	0.38	0.1	0.02	3.9	0.3	0.07	5	<0.5	<0.2
124272	Soil			21	36	0.46	232	0.107	2	1.58	0.008	0.19	<0.1	0.06	5.5	0.2	0.05	5	<0.5	<0.2
124273	Soil			27	24	0.36	175	0.143	1	1.39	0.006	0.46	0.1	0.02	4.4	0.4	<0.05	6	<0.5	<0.2
124274	Soil			13	28	0.38	200	0.096	1	1.55	0.007	0.17	0.1	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
124275	Soil			17	27	0.39	200	0.121	<1	1.37	0.007	0.33	0.1	0.03	3.4	0.4	<0.05	5	<0.5	<0.2
124276	Soil			24	32	0.43	238	0.103	1	1.51	0.008	0.25	<0.1	0.02	4.0	0.3	<0.05	5	<0.5	<0.2
124277	Soil			21	33	0.45	206	0.120	2	1.74	0.008	0.26	0.1	0.02	2.9	0.3	<0.05	6	<0.5	<0.2
124278	Soil			36	21	0.53	250	0.199	<1	1.51	0.006	0.79	<0.1	0.03	5.6	0.7	<0.05	7	<0.5	<0.2
124279	Soil			11	27	0.37	191	0.079	<1	1.45	0.007	0.30	0.1	0.01	4.5	0.4	<0.05	6	<0.5	<0.2
124280	Soil			10	24	0.33	144	0.083	<1	1.21	0.005	0.17	0.1	0.02	1.9	0.2	<0.05	5	<0.5	<0.2
124282	Soil			17	32	0.46	218	0.087	<1	1.62	0.007	0.22	0.1	0.02	3.0	0.2	<0.05	5	<0.5	<0.2
124283	Soil			34	30	0.52	234	0.141	<1	1.55	0.007	0.42	0.1	0.03	3.1	0.4	<0.05	5	<0.5	<0.2
124284	Soil			13	31	0.46	237	0.077	1	1.21	0.009	0.12	<0.1	0.02	3.0	0.1	<0.05	4	<0.5	<0.2
124285	Soil			47	19	0.46	185	0.144	<1	1.46	0.006	0.56	0.1	0.01	5.2	0.5	<0.05	7	<0.5	<0.2
124286	Soil			17	38	0.49	207	0.095	<1	1.35	0.007	0.21	<0.1	0.02	4.2	0.3	<0.05	5	0.6	<0.2
124287	Soil			13	30	0.57	393	0.080	1	1.29	0.009	0.17	0.1	0.02	3.6	0.1	<0.05	5	<0.5	<0.2
113746	Soil			14	28	0.37	291	0.054	<1	1.42	0.012	0.05	0.2	0.15	4.0	0.1	<0.05	5	<0.5	<0.2
113747	Soil			15	26	0.34	237	0.049	<1	1.26	0.008	0.04	0.2	0.10	3.4	0.1	<0.05	4	<0.5	<0.2
113748	Soil			12	23	0.29	225	0.052	<1	0.93	0.008	0.04	0.1	0.15	3.2	0.1	<0.05	3	<0.5	<0.2
113749	Soil			12	37	0.38	285	0.066	<1	1.72	0.008	0.08	<0.1	0.08	3.7	0.2	<0.05	6	<0.5	<0.2
113750	Soil			15	28	0.33	326	0.045	<1	1.06	0.009	0.06	0.1	0.06	3.9	0.1	<0.05	4	0.5	<0.2
113751	Soil			17	30	0.31	309	0.085	<1	1.14	0.006	0.30	0.1	0.04	5.3	0.4	<0.05	5	0.6	<0.2
113752	Soil			14	35	0.52	552	0.203	<1	1.63	0.005	0.88	0.1	0.01	6.8	0.7	<0.05	7	<0.5	<0.2
113753	Soil			10	11	0.11	109	0.041	<1	0.54	0.002	0.14	<0.1	0.02	4.6	0.6	<0.05	3	<0.5	<0.2

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Project: Montana
 Report Date: September 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001142.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
113754	Soil	0.9	20.7	8.5	65	<0.1	18.8	8.2	316	2.41	5.1	1.0	2.2	5.5	9	<0.1	0.3	0.1	47	0.08	0.039
113755	Soil	1.2	38.0	12.4	65	<0.1	25.5	10.0	331	2.61	8.9	1.4	3.0	5.6	20	<0.1	0.7	0.2	56	0.14	0.030
113756	Soil	0.7	30.8	9.3	62	<0.1	14.7	7.1	191	1.47	1.2	1.2	1.3	5.7	12	<0.1	0.2	<0.1	46	0.03	0.031
113757	Soil	2.2	41.3	14.1	54	<0.1	24.0	7.7	416	2.12	4.8	1.6	2.3	6.3	10	<0.1	0.6	0.2	49	0.04	0.027
113758	Soil	2.3	46.1	11.9	43	<0.1	13.4	8.5	391	1.67	2.5	1.9	0.6	5.8	10	0.1	0.4	0.2	36	0.02	0.038
113759	Soil	2.0	37.3	10.0	48	<0.1	12.5	4.5	179	1.98	2.7	2.4	1.6	7.5	9	<0.1	0.4	0.2	33	0.03	0.027
113760	Soil	2.0	60.3	12.6	60	0.2	31.8	15.0	408	3.04	6.3	1.3	5.9	6.3	14	<0.1	0.8	0.3	62	0.07	0.022
113761	Soil	2.0	68.0	8.7	46	0.3	22.6	4.1	87	2.45	1.9	1.1	3.0	5.0	8	<0.1	0.5	0.2	45	0.02	0.028
113762	Soil	1.4	59.6	8.5	57	<0.1	24.2	7.8	173	2.58	3.6	1.4	4.7	6.7	9	<0.1	0.4	0.2	50	0.07	0.023
113763	Soil	1.6	34.7	7.9	26	0.3	10.4	3.8	57	1.52	3.8	0.9	1.9	5.1	8	<0.1	0.3	0.2	37	0.02	0.017
113764	Soil	1.3	28.9	14.5	37	0.2	11.9	4.2	84	1.91	5.0	1.2	3.1	7.5	9	<0.1	0.4	0.2	39	0.02	0.030
113765	Soil	2.0	35.8	12.0	73	0.1	25.5	7.9	253	2.34	8.9	1.3	1.8	5.8	6	<0.1	0.4	0.2	38	0.02	0.031
113766	Soil	1.6	56.4	11.7	96	0.2	42.2	11.6	2198	2.21	3.1	1.5	2.9	5.8	9	0.2	0.4	0.3	48	0.08	0.027
113767	Soil	1.0	65.2	11.5	94	<0.1	51.9	16.4	1249	3.03	3.3	1.1	4.9	5.3	8	0.2	0.4	0.3	51	0.09	0.037
113768	Soil	1.2	31.3	10.6	76	0.4	21.8	11.1	779	2.62	4.2	1.2	2.9	4.2	11	0.2	0.4	0.3	47	0.09	0.048
113769	Soil	1.8	34.6	36.9	188	0.3	24.8	8.6	556	2.92	3.3	2.3	<0.5	20.5	8	0.2	0.3	0.4	36	0.21	0.036
113770	Soil	1.1	29.2	14.5	137	<0.1	21.6	7.9	605	2.79	4.6	1.1	2.9	16.2	11	<0.1	0.4	0.2	42	0.22	0.027
113771	Soil	1.2	26.1	17.9	72	0.1	24.8	8.0	235	2.79	8.8	0.6	<0.5	7.7	15	<0.1	0.5	0.2	51	0.27	0.018
113772	Soil	1.0	39.5	11.3	104	<0.1	26.1	8.3	422	3.36	1.8	1.4	4.6	9.7	8	<0.1	0.2	0.3	51	0.18	0.042
113773	Soil	0.6	25.0	6.5	33	0.1	17.1	7.3	553	2.55	3.2	1.5	1.1	19.8	10	<0.1	0.2	0.2	47	0.18	0.029
113774	Soil	1.0	26.0	57.8	92	0.3	20.2	6.8	361	2.76	3.7	0.8	<0.5	8.9	9	0.1	0.4	0.2	56	0.12	0.030
113775	Soil	0.6	27.4	10.5	92	<0.1	19.1	6.0	352	2.65	1.3	1.2	2.8	16.5	8	<0.1	0.2	0.3	40	0.17	0.031
113776	Soil	1.5	51.8	11.2	99	<0.1	36.2	8.7	279	3.24	1.6	1.9	4.8	8.1	7	<0.1	0.5	0.3	52	0.12	0.052
113777	Soil	1.0	52.0	13.6	81	0.1	38.2	8.4	143	3.47	1.9	1.5	7.8	2.5	10	<0.1	0.2	0.5	69	0.17	0.060
113778	Soil	1.4	56.8	9.7	79	0.2	49.7	14.2	333	3.78	1.5	1.7	6.6	6.3	11	<0.1	0.3	0.3	66	0.12	0.052
113779	Soil	0.4	12.0	8.0	19	<0.1	7.1	2.1	152	0.63	1.9	0.9	<0.5	1.7	8	0.2	0.1	<0.1	11	0.03	0.015
113780	Soil	1.3	31.8	13.4	58	<0.1	13.7	3.3	160	2.40	1.0	1.9	1.1	18.1	8	0.1	0.1	0.4	22	0.11	0.064
113781	Soil	1.6	42.9	13.1	68	0.1	13.2	10.0	536	2.83	2.5	2.1	0.8	15.0	6	0.4	0.2	0.2	40	0.06	0.079
113782	Soil	1.2	43.0	17.4	156	0.2	43.9	13.6	645	3.40	5.1	2.0	0.8	11.5	27	0.4	0.4	0.3	28	0.21	0.091
113783	Soil	1.2	64.1	13.3	105	<0.1	51.3	15.6	260	5.08	1.8	1.7	2.1	7.0	13	<0.1	0.2	0.4	107	0.29	0.106

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Project: Montana
 Report Date: September 24, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
113754	Soil	11	25	0.34	196	0.075	<1	1.13	0.005	0.20	<0.1	0.01	2.5	0.4	<0.05	4	<0.5	<0.2
113755	Soil	17	28	0.43	335	0.061	<1	1.39	0.008	0.06	<0.1	0.04	4.7	0.2	<0.05	4	<0.5	<0.2
113756	Soil	14	23	0.26	369	0.085	<1	0.76	0.003	0.28	<0.1	0.02	2.9	0.4	<0.05	3	<0.5	<0.2
113757	Soil	18	28	0.21	278	0.050	<1	0.94	0.004	0.07	<0.1	0.05	4.3	0.3	<0.05	3	0.8	<0.2
113758	Soil	12	13	0.10	264	0.022	<1	0.46	0.001	0.09	<0.1	0.03	5.8	0.2	<0.05	3	2.2	<0.2
113759	Soil	17	15	0.11	187	0.025	<1	0.62	0.002	0.09	<0.1	0.05	5.0	0.2	<0.05	3	1.2	<0.2
113760	Soil	17	33	0.33	276	0.058	<1	1.29	0.008	0.06	<0.1	0.10	6.1	0.1	<0.05	4	0.5	<0.2
113761	Soil	8	23	0.08	134	0.011	<1	0.48	0.002	0.04	<0.1	0.04	3.2	<0.1	<0.05	2	2.3	<0.2
113762	Soil	13	31	0.28	232	0.049	<1	0.90	0.004	0.11	<0.1	0.12	5.5	0.2	<0.05	3	0.9	<0.2
113763	Soil	11	18	0.10	139	0.012	<1	0.65	0.002	0.03	<0.1	0.03	2.5	<0.1	<0.05	2	0.7	<0.2
113764	Soil	20	21	0.15	193	0.019	<1	0.87	0.003	0.10	<0.1	0.03	2.7	0.2	<0.05	3	0.7	<0.2
113765	Soil	15	24	0.21	219	0.031	<1	0.77	0.003	0.11	<0.1	0.02	2.8	0.1	<0.05	3	1.0	<0.2
113766	Soil	17	25	0.47	702	0.073	<1	0.93	0.007	0.31	0.1	0.08	6.9	0.3	<0.05	4	0.6	<0.2
113767	Soil	18	35	0.33	559	0.050	2	0.74	0.005	0.22	<0.1	0.12	9.0	0.3	<0.05	3	0.9	<0.2
113768	Soil	12	28	0.32	268	0.051	2	1.09	0.005	0.19	0.1	0.04	3.6	0.2	<0.05	4	0.6	<0.2
113769	Soil	15	23	0.31	158	0.111	<1	1.31	0.005	0.44	<0.1	0.02	3.4	0.4	<0.05	5	<0.5	<0.2
113770	Soil	26	23	0.37	210	0.113	1	1.16	0.006	0.42	0.1	0.03	4.2	0.4	<0.05	5	0.5	<0.2
113771	Soil	9	33	0.44	232	0.094	1	1.55	0.006	0.30	0.2	0.01	4.0	0.3	<0.05	5	<0.5	<0.2
113772	Soil	24	25	0.48	220	0.153	1	1.37	0.006	0.77	<0.1	0.02	3.1	0.7	<0.05	6	1.2	<0.2
113773	Soil	61	26	0.35	161	0.117	<1	1.40	0.005	0.63	0.2	0.01	6.7	0.5	<0.05	6	0.7	<0.2
113774	Soil	12	33	0.40	190	0.135	1	1.37	0.005	0.58	0.2	0.02	5.2	0.5	<0.05	6	0.5	<0.2
113775	Soil	36	22	0.46	180	0.133	<1	1.23	0.004	0.57	<0.1	0.03	3.5	0.6	<0.05	5	0.5	<0.2
113776	Soil	18	26	0.18	121	0.035	1	0.58	0.003	0.20	<0.1	0.10	4.8	0.1	<0.05	3	1.0	<0.2
113777	Soil	8	38	0.67	222	0.147	2	1.49	0.007	0.63	<0.1	0.03	5.1	0.6	<0.05	5	0.9	<0.2
113778	Soil	16	36	0.34	159	0.075	1	0.86	0.005	0.39	<0.1	0.06	5.2	0.3	<0.05	4	1.2	<0.2
113779	Soil	6	11	0.06	84	0.010	<1	0.29	0.001	0.02	<0.1	<0.01	6.9	<0.1	<0.05	<1	<0.5	<0.2
113780	Soil	47	12	0.08	60	0.006	<1	0.36	0.003	0.11	<0.1	<0.01	2.0	<0.1	<0.05	1	1.1	<0.2
113781	Soil	39	17	0.13	109	0.021	<1	0.51	0.004	0.15	<0.1	0.01	3.7	<0.1	<0.05	2	1.3	<0.2
113782	Soil	45	28	0.24	104	0.011	<1	0.66	0.006	0.28	<0.1	0.01	3.0	0.2	0.05	2	1.5	<0.2
113783	Soil	22	63	1.11	370	0.259	<1	2.91	0.024	1.28	<0.1	0.03	6.3	0.7	<0.05	9	0.8	<0.2

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Project: Montana
 Report Date: September 24, 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	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
113784	Soil		0.3	33.1	13.6	129	<0.1	46.5	14.8	347	4.52	1.3	1.3	1.3	4.6	14	0.1	<0.1	0.2	91	0.29	0.092
113785	Soil		0.8	17.1	12.7	106	<0.1	15.4	4.9	486	2.20	<0.5	2.7	1.5	13.1	15	0.2	<0.1	0.2	36	0.24	0.039
113786	Soil		1.0	76.4	13.2	81	<0.1	34.0	13.4	310	3.81	5.8	1.4	2.6	4.2	13	<0.1	0.4	0.3	75	0.11	0.044
113787	Soil		0.7	77.0	12.2	94	<0.1	72.9	12.9	511	4.01	6.6	2.9	4.0	16.7	45	<0.1	0.2	0.3	98	0.33	0.085
113788	Soil		0.8	39.6	13.4	183	<0.1	64.9	31.7	1363	8.09	1.4	2.6	5.2	4.4	22	0.4	0.3	0.1	85	0.14	0.092
113789	Soil		0.3	57.0	10.1	136	<0.1	37.1	11.7	274	2.41	2.0	1.9	1.0	16.4	8	0.3	0.2	0.1	34	0.31	0.158
113790	Soil		0.3	56.4	11.7	127	<0.1	35.9	11.1	264	2.39	2.3	1.9	1.3	15.6	8	0.3	0.2	0.1	35	0.31	0.148
113791	Soil		0.8	28.3	10.9	179	0.2	54.9	17.4	629	4.49	<0.5	2.2	7.4	7.6	14	0.3	<0.1	0.1	55	0.20	0.107
113792	Soil		0.2	67.0	19.4	167	0.1	51.7	14.5	482	4.40	1.5	2.4	14.1	13.0	13	0.1	<0.1	0.3	106	0.26	0.097
113793	Soil		0.4	163.6	18.1	131	0.3	51.1	16.0	651	5.09	2.6	3.3	13.3	13.1	17	0.1	0.1	0.2	112	0.33	0.120
113794	Soil		0.6	28.4	13.6	97	0.2	47.8	15.0	1288	3.75	2.3	2.6	2.9	9.7	25	0.4	0.1	0.1	69	0.13	0.072
113795	Soil		0.3	40.6	11.2	130	<0.1	25.3	10.5	512	4.14	2.1	1.6	2.9	3.9	16	<0.1	0.1	0.1	87	0.10	0.032
113796	Soil		0.6	45.0	11.8	106	0.1	34.5	10.3	249	3.43	1.6	1.2	6.5	3.2	12	<0.1	0.1	0.2	76	0.13	0.050
113797	Soil		0.8	20.2	58.1	119	<0.1	10.7	8.5	586	2.36	2.7	1.9	<0.5	8.5	8	<0.1	0.1	0.2	24	0.07	0.041
113798	Soil		5.1	27.7	8.9	88	<0.1	23.1	8.3	428	2.48	15.8	1.3	1.8	5.1	25	<0.1	0.4	0.2	38	0.18	0.031
113799	Soil		0.8	40.0	16.5	160	<0.1	34.3	10.1	490	3.99	2.5	1.4	6.1	9.0	27	0.1	0.1	0.2	79	0.06	0.030
113800	Soil		0.3	63.7	9.2	92	<0.1	26.7	10.0	636	3.39	9.0	1.8	0.5	6.8	13	0.2	<0.1	<0.1	77	0.06	0.020
113801	Soil		0.8	22.5	20.8	124	<0.1	26.1	5.3	580	3.21	1.6	2.8	6.9	14.4	23	<0.1	0.2	0.2	31	0.09	0.036
113802	Soil		0.5	45.9	8.3	78	<0.1	41.6	12.9	400	3.55	1.2	2.2	5.7	13.3	17	<0.1	0.3	0.3	58	0.21	0.061
113803	Soil		0.7	45.7	12.4	52	<0.1	44.7	10.0	299	3.79	17.3	2.2	7.1	10.3	9	<0.1	0.1	0.2	72	0.23	0.099
113804	Soil		1.1	58.9	11.3	117	<0.1	42.6	12.0	323	4.64	4.0	1.6	2.1	7.3	13	<0.1	0.2	0.3	84	0.22	0.073
113805	Soil		0.4	44.4	7.7	62	<0.1	42.2	12.7	269	4.43	1.1	1.4	3.6	4.8	14	<0.1	0.2	0.2	98	0.19	0.067
113806	Soil		1.0	12.8	7.9	60	<0.1	11.6	6.5	299	2.33	2.9	1.6	2.0	11.1	8	0.1	0.2	0.3	37	0.06	0.064
113807	Soil		0.7	39.1	10.9	82	<0.1	69.7	15.6	364	5.06	3.4	1.6	5.0	6.6	14	<0.1	<0.1	0.4	103	0.33	0.113
113808	Soil		0.4	52.4	19.7	119	<0.1	26.0	10.1	406	3.39	1.5	3.7	4.2	23.2	15	<0.1	0.1	0.4	46	0.25	0.054
113809	Soil		1.2	45.5	21.4	268	<0.1	29.0	8.3	437	3.42	3.2	2.1	2.8	17.0	15	0.3	0.2	0.4	57	0.28	0.056
113810	Soil		2.9	80.7	10.8	94	0.1	34.9	13.2	667	3.67	5.5	1.8	<0.5	7.0	14	<0.1	0.3	0.3	78	0.15	0.076
113811	Soil		1.5	50.1	13.7	68	<0.1	55.2	15.6	451	4.56	2.7	1.7	6.6	9.4	17	<0.1	0.1	0.3	80	0.36	0.098
113812	Soil		1.6	81.5	13.7	135	<0.1	53.1	13.2	479	5.52	3.2	2.0	1.6	6.4	14	<0.1	0.3	0.3	123	0.21	0.063
113813	Soil		1.0	69.1	16.1	111	<0.1	46.4	10.4	305	4.80	2.7	1.2	5.8	4.5	11	<0.1	0.2	0.3	104	0.24	0.087

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Project: Montana
 Report Date: September 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001142.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
113784	Soil	13	55	1.00	414	0.180	<1	2.44	0.009	1.38	<0.1	<0.01	5.2	0.7	<0.05	8	<0.5	<0.2
113785	Soil	41	21	0.46	208	0.101	<1	1.38	0.007	0.70	<0.1	<0.01	4.7	0.5	<0.05	6	<0.5	<0.2
113786	Soil	10	47	0.69	332	0.147	<1	1.89	0.008	0.60	0.1	0.01	4.8	0.4	<0.05	6	0.7	<0.2
113787	Soil	60	61	0.82	312	0.136	<1	1.98	0.005	0.94	0.3	<0.01	6.8	0.5	<0.05	6	1.7	<0.2
113788	Soil	7	51	0.79	361	0.147	<1	2.00	0.008	1.13	<0.1	0.02	5.7	0.7	<0.05	7	1.4	<0.2
113789	Soil	43	22	0.20	101	0.012	<1	0.54	0.003	0.13	<0.1	0.01	2.3	<0.1	<0.05	3	0.8	<0.2
113790	Soil	41	23	0.22	110	0.018	<1	0.58	0.003	0.17	<0.1	<0.01	2.3	<0.1	<0.05	3	0.9	<0.2
113791	Soil	11	30	0.36	121	0.038	<1	0.97	0.004	0.47	<0.1	0.03	3.6	0.2	<0.05	4	1.4	0.2
113792	Soil	23	60	0.77	416	0.206	<1	1.98	0.021	1.29	<0.1	0.02	5.0	0.5	<0.05	8	0.7	<0.2
113793	Soil	35	62	0.80	480	0.226	<1	2.12	0.010	1.39	<0.1	0.01	5.1	0.7	<0.05	8	<0.5	0.2
113794	Soil	19	30	0.30	240	0.067	1	1.00	0.007	0.49	0.1	<0.01	6.7	0.2	<0.05	6	0.8	<0.2
113795	Soil	7	42	0.70	395	0.231	<1	2.05	0.010	1.13	<0.1	<0.01	8.4	0.5	<0.05	9	0.5	<0.2
113796	Soil	9	48	0.68	285	0.194	<1	1.64	0.009	0.90	<0.1	0.01	4.6	0.5	<0.05	6	<0.5	<0.2
113797	Soil	20	16	0.23	132	0.070	1	0.89	0.005	0.32	0.1	<0.01	3.8	0.2	<0.05	5	0.5	<0.2
113798	Soil	15	25	0.33	230	0.058	1	1.01	0.006	0.36	<0.1	<0.01	3.9	0.8	<0.05	4	<0.5	<0.2
113799	Soil	19	50	0.69	409	0.188	1	1.80	0.008	1.20	<0.1	<0.01	4.7	0.7	<0.05	7	0.7	<0.2
113800	Soil	13	40	0.46	233	0.186	<1	1.37	0.006	0.80	0.1	<0.01	8.0	0.4	<0.05	8	0.6	<0.2
113801	Soil	41	19	0.19	178	0.003	<1	0.65	0.003	0.19	<0.1	<0.01	3.4	<0.1	<0.05	4	0.6	<0.2
113802	Soil	36	36	0.37	134	0.006	<1	1.31	0.005	0.17	0.1	0.02	4.3	0.1	<0.05	6	0.8	<0.2
113803	Soil	25	45	0.72	127	0.135	<1	1.89	0.005	0.74	<0.1	0.03	4.1	0.4	<0.05	6	0.7	<0.2
113804	Soil	19	51	1.05	307	0.189	<1	2.41	0.007	1.00	<0.1	<0.01	5.1	0.6	<0.05	7	<0.5	<0.2
113805	Soil	11	55	0.91	302	0.227	<1	2.57	0.009	0.98	0.1	0.02	7.5	0.6	<0.05	9	<0.5	<0.2
113806	Soil	28	19	0.30	117	0.095	<1	1.32	0.006	0.40	<0.1	<0.01	2.3	0.4	<0.05	6	<0.5	<0.2
113807	Soil	22	62	0.99	277	0.124	<1	2.47	0.006	0.81	<0.1	<0.01	5.5	0.5	<0.05	8	<0.5	<0.2
113808	Soil	59	24	0.71	195	0.179	<1	2.04	0.008	0.99	0.1	<0.01	2.3	0.8	<0.05	6	<0.5	<0.2
113809	Soil	39	31	0.76	228	0.151	<1	2.17	0.007	0.89	<0.1	<0.01	4.6	0.7	<0.05	7	<0.5	<0.2
113810	Soil	20	45	0.98	305	0.147	<1	2.24	0.006	0.84	0.1	<0.01	5.2	0.5	<0.05	8	<0.5	<0.2
113811	Soil	29	51	1.04	230	0.145	<1	2.47	0.008	1.03	<0.1	<0.01	4.7	0.7	<0.05	7	<0.5	<0.2
113812	Soil	24	75	1.30	366	0.226	<1	3.14	0.010	1.24	<0.1	0.01	7.2	0.9	<0.05	10	0.7	<0.2
113813	Soil	16	62	0.96	292	0.200	<1	2.56	0.013	0.99	<0.1	0.01	6.3	0.6	<0.05	8	<0.5	<0.2

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Project: Montana
 Report Date: September 24, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
113814	Soil	0.8	70.4	7.4	46	<0.1	33.9	7.0	220	3.49	2.5	2.9	7.3	15.6	12	<0.1	0.2	0.4	70	0.11	0.075
113815	Soil	0.6	39.4	6.6	31	0.2	13.5	7.4	394	0.86	2.7	1.1	1.1	1.8	11	0.2	0.3	<0.1	18	0.02	0.013
114599	Soil	1.3	56.3	20.9	115	0.3	39.4	12.6	566	4.36	7.3	1.2	1.7	6.2	15	0.2	0.4	0.4	90	0.21	0.065
114600	Soil	2.7	130.8	24.5	122	0.2	66.5	10.3	384	5.53	5.3	3.9	3.3	9.6	21	0.2	0.4	0.6	122	0.17	0.069
114601	Soil	1.4	37.5	11.9	69	<0.1	33.6	8.7	242	2.93	1.4	2.2	2.7	7.6	11	<0.1	0.2	0.2	102	0.26	0.069
114602	Soil	1.2	26.1	9.3	59	0.2	31.5	7.9	235	3.05	4.6	0.8	0.6	5.2	12	<0.1	0.3	0.1	65	0.19	0.039
114603	Soil	0.5	43.4	8.2	67	<0.1	50.4	10.9	182	4.48	1.3	0.8	3.8	3.8	13	<0.1	0.2	0.2	93	0.37	0.084
114604	Soil	0.8	53.3	14.5	114	<0.1	54.2	13.0	437	3.75	2.0	2.3	3.1	19.3	17	<0.1	0.2	0.3	109	0.30	0.064
114605	Soil	1.1	18.8	8.8	59	0.1	19.7	8.1	404	2.04	7.9	0.6	<0.5	2.3	20	0.2	0.4	0.2	50	0.15	0.092
106522	Soil	1.0	24.6	9.7	60	0.1	21.2	8.2	298	2.41	8.4	1.4	8.2	4.5	24	0.2	1.0	0.2	47	0.32	0.057
106523	Soil	1.0	21.3	9.5	61	<0.1	16.3	7.7	271	2.48	7.3	1.0	8.2	4.0	21	0.2	1.7	0.2	47	0.23	0.044
106524	Soil	0.9	19.4	9.8	55	<0.1	14.9	6.4	186	2.18	6.6	0.9	6.0	3.7	23	<0.1	1.5	0.2	42	0.26	0.043
106525	Soil	0.8	28.5	11.8	61	0.1	22.8	8.5	318	2.63	9.1	1.5	4.0	4.7	32	0.1	1.2	0.2	51	0.41	0.059
106526	Soil	0.8	26.4	10.3	65	0.1	21.2	8.5	325	2.48	9.0	1.0	3.5	4.0	30	0.3	0.9	0.2	43	0.40	0.063
106527	Soil	0.9	25.0	10.9	54	0.1	16.6	6.8	292	2.47	9.3	1.5	2.6	4.4	21	<0.1	1.6	0.2	46	0.23	0.043
106528	Soil	0.6	23.9	7.7	38	<0.1	12.5	5.9	155	2.02	8.2	1.0	2.7	4.9	18	<0.1	2.1	0.2	37	0.19	0.037
106529	Soil	1.0	19.5	9.8	46	<0.1	13.1	6.3	256	2.29	9.2	1.0	3.2	1.5	17	<0.1	2.0	0.2	46	0.15	0.032



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Project: Montana
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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
113814	Soil	58	46	0.39	139	0.026	<1	1.48	0.006	0.22	<0.1	0.03	4.7	0.1	<0.05	6	0.5	<0.2
113815	Soil	8	12	0.08	126	0.016	<1	0.37	0.004	0.02	0.1	0.02	3.6	0.1	<0.05	1	<0.5	<0.2
114599	Soil	20	49	0.78	231	0.142	<1	2.60	0.009	0.56	<0.1	0.01	3.6	0.3	<0.05	8	1.2	<0.2
114600	Soil	47	66	1.18	316	0.158	<1	3.09	0.007	0.70	<0.1	0.02	7.4	0.4	<0.05	11	1.6	0.4
114601	Soil	24	55	0.76	228	0.207	<1	1.94	0.007	0.77	<0.1	<0.01	5.3	0.5	<0.05	6	<0.5	<0.2
114602	Soil	15	38	0.67	209	0.132	<1	1.76	0.008	0.52	<0.1	<0.01	2.6	0.4	<0.05	6	<0.5	<0.2
114603	Soil	18	59	1.11	241	0.180	<1	2.50	0.012	0.94	<0.1	0.01	5.1	0.6	<0.05	9	<0.5	<0.2
114604	Soil	55	73	1.02	351	0.223	<1	2.82	0.010	1.00	<0.1	0.01	7.6	0.6	<0.05	8	<0.5	<0.2
114605	Soil	10	24	0.28	236	0.039	<1	1.43	0.005	0.06	0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
106522	Soil	16	29	0.40	337	0.063	<1	1.37	0.013	0.06	0.2	0.08	4.2	0.1	<0.05	4	<0.5	<0.2
106523	Soil	14	28	0.35	288	0.068	<1	1.49	0.011	0.08	0.2	0.12	3.5	0.2	<0.05	4	<0.5	<0.2
106524	Soil	14	25	0.35	248	0.062	<1	1.35	0.013	0.05	0.1	0.11	3.3	0.1	<0.05	4	<0.5	<0.2
106525	Soil	18	30	0.46	393	0.067	<1	1.63	0.016	0.06	0.2	0.12	4.2	<0.1	<0.05	5	0.5	<0.2
106526	Soil	15	25	0.43	387	0.052	<1	1.35	0.015	0.05	0.2	0.09	3.4	<0.1	<0.05	4	<0.5	<0.2
106527	Soil	15	27	0.36	279	0.061	<1	1.48	0.009	0.05	0.1	0.10	3.9	<0.1	<0.05	5	<0.5	<0.2
106528	Soil	16	20	0.24	207	0.061	<1	1.00	0.009	0.05	0.2	0.18	3.1	<0.1	<0.05	3	<0.5	<0.2
106529	Soil	13	24	0.29	204	0.051	<1	1.49	0.008	0.05	0.1	0.17	2.6	0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11001142.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
109883	Soil	1.6	30.2	10.1	85	0.1	19.5	5.3	184	2.62	4.6	1.3	2.5	7.1	7	<0.1	0.4	0.1	40	0.05	0.028
REP 109883	QC	1.7	30.2	10.3	86	0.1	19.6	5.2	186	2.59	4.5	1.3	1.8	7.5	7	<0.1	0.4	0.2	38	0.04	0.027
109903	Soil	1.2	35.1	13.2	49	0.2	16.0	6.4	177	2.21	8.9	1.3	4.6	5.6	16	<0.1	2.3	0.2	46	0.14	0.033
REP 109903	QC	1.1	34.7	11.4	49	0.2	15.7	6.5	175	2.16	8.8	1.2	4.1	5.2	15	<0.1	2.4	0.2	47	0.14	0.035
109942	Soil	0.6	31.2	9.1	47	<0.1	19.1	7.7	262	2.49	10.1	0.8	3.5	4.7	15	<0.1	0.6	0.1	51	0.13	0.017
REP 109942	QC	0.6	34.0	9.7	48	<0.1	20.9	7.9	291	2.63	11.2	0.9	5.1	4.9	16	0.1	0.7	0.2	53	0.13	0.018
109946	Soil	1.2	34.0	11.3	48	<0.1	25.7	8.9	258	2.39	10.4	0.9	3.6	4.5	27	<0.1	0.6	0.1	56	0.30	0.023
REP 109946	QC	1.3	33.2	11.3	47	<0.1	25.9	8.6	270	2.53	10.2	0.9	3.4	4.5	27	<0.1	0.6	0.1	53	0.32	0.024
109971	Soil	0.7	30.7	10.2	116	<0.1	24.7	8.4	445	3.13	3.2	1.1	2.7	12.5	13	<0.1	0.2	0.2	50	0.20	0.036
REP 109971	QC	0.7	30.2	9.8	112	<0.1	25.2	7.8	421	2.99	2.7	1.1	3.1	12.3	12	0.1	0.2	0.2	48	0.19	0.035
109983	Soil	1.2	12.0	8.8	28	<0.1	8.3	4.9	315	1.75	8.6	0.5	1.7	0.2	6	<0.1	0.8	0.2	42	0.06	0.052
REP 109983	QC	1.1	11.5	8.5	28	<0.1	8.1	4.8	302	1.70	8.4	0.4	2.1	0.2	6	<0.1	0.9	0.2	42	0.05	0.050
114535	Soil	1.8	71.4	10.0	72	0.1	44.0	12.3	471	2.85	6.8	1.7	3.0	5.5	13	<0.1	0.7	0.2	54	0.10	0.029
REP 114535	QC	1.8	70.1	9.7	70	0.1	41.7	11.7	471	2.76	6.4	1.6	3.5	5.3	13	<0.1	0.7	0.2	52	0.09	0.028
114559	Soil	1.0	16.4	7.2	460	0.2	15.6	6.4	475	2.74	8.2	0.8	1.1	5.5	10	0.6	0.4	0.2	52	0.12	0.036
REP 114559	QC	1.1	15.6	7.1	447	0.2	15.7	6.4	479	2.70	7.9	0.7	0.7	5.3	10	0.6	0.3	0.2	50	0.12	0.034
114565	Soil	1.5	49.8	13.6	74	0.3	34.2	11.9	665	2.93	9.0	1.6	3.7	7.8	26	0.2	0.9	0.2	54	0.31	0.038
REP 114565	QC	1.5	51.7	13.5	76	0.3	35.8	12.2	683	2.94	9.2	1.7	4.5	8.0	24	0.2	0.9	0.2	54	0.31	0.037
114588	Soil	1.8	24.1	11.3	67	<0.1	19.2	6.5	199	2.01	13.6	1.5	2.7	6.3	37	<0.1	0.5	0.2	36	0.34	0.029
REP 114588	QC	1.8	25.1	10.9	66	<0.1	19.8	6.7	205	2.03	13.8	1.5	5.1	6.2	37	<0.1	0.5	0.2	38	0.32	0.030
124219	Soil	0.7	27.8	10.3	68	0.1	22.6	9.4	350	2.37	7.7	1.0	4.0	3.8	32	0.2	0.7	0.2	48	0.44	0.061
REP 124219	QC	0.7	26.0	10.3	64	0.1	21.7	9.2	334	2.24	7.4	1.0	3.9	3.8	31	0.1	0.7	0.2	46	0.43	0.057
124251	Soil	0.7	26.6	9.0	54	0.2	19.3	6.6	206	2.12	5.8	1.0	4.6	0.7	32	0.5	0.8	0.2	36	0.33	0.054
REP 124251	QC	0.9	27.0	8.6	57	0.2	18.9	6.9	205	2.18	6.8	1.1	5.2	0.8	32	0.4	0.8	0.2	36	0.36	0.059
124261	Soil	1.0	32.1	7.3	44	0.1	13.2	5.8	201	2.16	8.0	1.2	5.9	4.6	12	<0.1	1.6	0.2	38	0.11	0.038
REP 124261	QC	0.9	31.8	7.2	44	0.1	13.9	5.7	206	2.17	7.8	1.2	2.1	4.5	13	<0.1	1.6	0.2	41	0.11	0.039
124283	Soil	1.1	24.2	18.8	184	0.2	23.3	8.1	292	2.72	3.7	1.2	4.8	11.1	10	0.2	0.3	0.2	54	0.16	0.041
REP 124283	QC	1.0	24.2	18.9	181	0.2	23.8	8.2	297	2.77	3.7	1.2	4.2	11.0	10	0.2	0.3	0.2	54	0.16	0.040

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Project: Montana
 Report Date: September 24, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001142.1

Method	Analyte	Unit	MDL	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
Pulp Duplicates																				
109883	Soil			17	21	0.33	231	0.067	<1	1.50	0.004	0.25	<0.1	0.02	3.8	0.5	<0.05	5	<0.5	<0.2
REP 109883	QC			16	21	0.33	227	0.067	1	1.48	0.003	0.24	<0.1	0.02	3.7	0.4	<0.05	5	0.7	<0.2
109903	Soil			18	24	0.31	206	0.059	<1	1.21	0.007	0.06	0.1	0.10	3.9	0.2	<0.05	4	0.6	<0.2
REP 109903	QC			17	25	0.30	195	0.059	<1	1.23	0.006	0.06	0.1	0.09	3.8	0.2	<0.05	4	0.9	<0.2
109942	Soil			17	32	0.42	282	0.062	1	1.44	0.009	0.05	0.1	0.05	5.1	<0.1	<0.05	4	<0.5	<0.2
REP 109942	QC			18	33	0.44	293	0.066	1	1.54	0.010	0.05	0.1	0.06	5.6	<0.1	<0.05	4	0.5	<0.2
109946	Soil			17	38	0.48	370	0.064	2	3.13	0.013	0.06	0.2	0.05	5.2	<0.1	<0.05	4	<0.5	<0.2
REP 109946	QC			17	41	0.50	370	0.066	2	1.59	0.012	0.07	0.2	0.05	5.5	<0.1	<0.05	4	1.1	<0.2
109971	Soil			36	31	0.57	243	0.161	<1	1.90	0.005	0.75	<0.1	0.01	4.9	0.6	<0.05	7	1.1	<0.2
REP 109971	QC			35	30	0.51	238	0.158	<1	1.83	0.005	0.73	0.1	0.01	5.0	0.5	<0.05	7	0.8	<0.2
109983	Soil			8	16	0.16	74	0.017	<1	0.72	0.006	0.03	<0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
REP 109983	QC			7	16	0.15	73	0.017	<1	0.70	0.006	0.03	<0.1	0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
114535	Soil			19	33	0.51	221	0.109	<1	1.38	0.010	0.42	<0.1	0.03	6.5	0.3	<0.05	5	0.7	<0.2
REP 114535	QC			18	33	0.49	220	0.105	<1	1.29	0.009	0.42	0.1	0.03	6.3	0.3	<0.05	5	0.7	<0.2
114559	Soil			12	26	0.38	176	0.096	<1	1.98	0.006	0.32	0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
REP 114559	QC			12	26	0.36	166	0.098	<1	1.90	0.005	0.32	0.1	0.01	3.7	0.3	<0.05	7	<0.5	<0.2
114565	Soil			25	33	0.35	267	0.059	<1	1.17	0.012	0.14	0.1	0.07	4.8	0.1	<0.05	4	0.6	<0.2
REP 114565	QC			23	33	0.34	265	0.058	<1	1.12	0.012	0.13	0.1	0.06	4.6	0.1	<0.05	4	0.7	<0.2
114588	Soil			21	25	0.36	269	0.029	1	1.28	0.007	0.15	<0.1	0.02	3.7	0.6	<0.05	4	<0.5	<0.2
REP 114588	QC			21	26	0.37	263	0.037	2	1.30	0.009	0.16	<0.1	0.01	3.6	0.5	<0.05	5	<0.5	<0.2
124219	Soil			15	29	0.46	354	0.064	<1	1.46	0.015	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
REP 124219	QC			15	28	0.44	338	0.059	<1	1.41	0.015	0.05	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
124251	Soil			11	31	0.33	344	0.038	2	1.34	0.011	0.05	0.2	0.10	3.0	<0.1	<0.05	4	0.5	<0.2
REP 124251	QC			12	32	0.34	349	0.051	<1	1.46	0.012	0.05	0.2	0.06	3.4	<0.1	<0.05	5	<0.5	<0.2
124261	Soil			13	19	0.23	153	0.046	1	0.95	0.007	0.05	0.1	0.10	3.7	0.1	<0.05	3	<0.5	<0.2
REP 124261	QC			14	20	0.23	160	0.048	1	0.95	0.006	0.05	0.1	0.10	3.8	0.1	<0.05	3	<0.5	<0.2
124283	Soil			34	30	0.52	234	0.141	<1	1.55	0.007	0.42	0.1	0.03	3.1	0.4	<0.05	5	<0.5	<0.2
REP 124283	QC			34	31	0.51	236	0.141	<1	1.49	0.007	0.42	<0.1	0.03	3.1	0.4	<0.05	5	<0.5	<0.2

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Project: Montana

Report Date: September 24, 2011

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QUALITY CONTROL REPORT

WHI11001142.1

		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
113755	Soil	1.2	38.0	12.4	65	<0.1	25.5	10.0	331	2.61	8.9	1.4	3.0	5.6	20	<0.1	0.7	0.2	56	0.14	0.030
REP 113755	QC	1.2	38.3	12.8	66	<0.1	25.5	10.3	330	2.64	8.9	1.4	2.5	5.6	20	<0.1	0.6	0.2	56	0.14	0.030
113783	Soil	1.2	64.1	13.3	105	<0.1	51.3	15.6	260	5.08	1.8	1.7	2.1	7.0	13	<0.1	0.2	0.4	107	0.29	0.106
REP 113783	QC	1.3	65.9	13.3	106	<0.1	54.4	15.6	260	5.08	2.0	1.6	1.3	7.0	13	<0.1	0.2	0.3	106	0.31	0.108
113788	Soil	0.8	39.6	13.4	183	<0.1	64.9	31.7	1363	8.09	1.4	2.6	5.2	4.4	22	0.4	0.3	0.1	85	0.14	0.092
REP 113788	QC	0.8	40.2	13.9	188	<0.1	66.7	32.6	1405	8.16	1.2	2.6	4.9	4.5	23	0.3	0.3	0.2	87	0.14	0.094
113807	Soil	0.7	39.1	10.9	82	<0.1	69.7	15.6	364	5.06	3.4	1.6	5.0	6.6	14	<0.1	<0.1	0.4	103	0.33	0.113
REP 113807	QC	0.7	37.4	10.9	81	<0.1	67.3	14.5	343	4.88	3.4	1.5	5.7	6.6	14	<0.1	0.1	0.4	99	0.30	0.104
106524	Soil	0.9	19.4	9.8	55	<0.1	14.9	6.4	186	2.18	6.6	0.9	6.0	3.7	23	<0.1	1.5	0.2	42	0.26	0.043
REP 106524	QC	0.8	19.1	9.6	55	<0.1	15.6	6.5	189	2.21	7.3	1.0	2.5	3.8	23	0.2	1.4	0.1	43	0.28	0.045
Reference Materials																					
STD DS8	Standard	11.9	101.2	121.8	294	1.7	34.5	6.7	569	2.29	23.7	2.7	105.4	6.7	64	2.1	5.3	6.2	38	0.64	0.074
STD DS8	Standard	13.5	115.3	118.3	315	1.8	39.6	8.1	610	2.48	24.6	2.6	112.4	6.5	65	2.3	5.7	6.5	43	0.68	0.075
STD DS8	Standard	14.0	119.2	129.4	327	1.8	40.8	8.4	644	2.57	25.4	2.8	108.5	6.9	72	2.6	5.6	7.1	47	0.72	0.084
STD DS8	Standard	11.2	100.4	115.9	294	1.7	36.4	6.8	564	2.26	23.8	2.4	113.4	5.8	60	2.2	5.4	6.6	37	0.61	0.076
STD DS8	Standard	11.5	106.3	118.0	294	1.7	37.4	7.1	574	2.34	22.9	2.7	105.0	6.2	53	2.2	4.6	5.8	40	0.61	0.073
STD DS8	Standard	12.9	104.2	120.5	299	1.8	36.4	7.2	586	2.36	24.1	2.8	118.3	6.5	59	2.1	5.2	5.9	41	0.65	0.073
STD DS8	Standard	13.1	114.4	129.6	338	1.9	39.8	7.5	644	2.58	25.9	3.0	122.6	7.2	64	2.4	5.4	6.3	43	0.72	0.081
STD DS8	Standard	11.3	103.2	117.8	292	1.7	35.5	7.6	574	2.31	24.2	2.5	105.9	6.0	57	2.2	5.3	6.4	40	0.63	0.078
STD DS8	Standard	12.9	104.9	118.3	300	1.7	36.0	7.5	593	2.34	24.2	2.7	103.5	6.7	62	2.2	5.4	6.2	41	0.67	0.076
STD DS8	Standard	11.1	111.8	123.4	298	1.7	38.0	7.4	561	2.32	24.5	2.7	106.7	6.3	57	2.3	5.6	6.5	41	0.63	0.081
STD DS8	Standard	11.2	103.9	125.5	308	1.7	34.8	7.2	577	2.37	25.3	2.6	113.2	6.3	62	2.5	5.4	6.8	38	0.60	0.080
STD DS8	Standard	11.3	97.8	101.9	271	1.5	34.3	7.0	529	2.18	21.7	2.3	102.5	5.1	55	1.8	4.5	5.3	36	0.57	0.069
STD DS8	Standard	14.2	110.7	128.8	322	1.9	39.1	7.7	638	2.58	25.4	2.8	114.9	6.7	66	2.3	5.8	6.7	43	0.70	0.086
STD DS8	Standard	13.0	115.2	125.6	319	1.8	39.6	7.7	638	2.47	24.7	2.7	128.7	6.5	73	2.5	5.7	6.8	43	0.74	0.083
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



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QUALITY CONTROL REPORT

WHI11001142.1

		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
113755	Soil	17	28	0.43	335	0.061	<1	1.39	0.008	0.06	<0.1	0.04	4.7	0.2	<0.05	4	<0.5	<0.2
REP 113755	QC	17	28	0.43	341	0.061	<1	1.32	0.008	0.06	<0.1	0.05	4.9	0.2	<0.05	4	0.6	<0.2
113783	Soil	22	63	1.11	370	0.259	<1	2.91	0.024	1.28	<0.1	0.03	6.3	0.7	<0.05	9	0.8	<0.2
REP 113783	QC	22	63	1.10	371	0.258	<1	2.84	0.023	1.30	<0.1	0.01	6.3	0.7	<0.05	9	<0.5	<0.2
113788	Soil	7	51	0.79	361	0.147	<1	2.00	0.008	1.13	<0.1	0.02	5.7	0.7	<0.05	7	1.4	<0.2
REP 113788	QC	7	53	0.81	369	0.153	<1	2.06	0.008	1.18	<0.1	0.02	5.7	0.7	<0.05	7	1.1	<0.2
113807	Soil	22	62	0.99	277	0.124	<1	2.47	0.006	0.81	<0.1	<0.01	5.5	0.5	<0.05	8	<0.5	<0.2
REP 113807	QC	22	60	0.95	263	0.119	<1	2.47	0.006	0.78	<0.1	<0.01	5.2	0.4	<0.05	7	<0.5	<0.2
106524	Soil	14	25	0.35	248	0.062	<1	1.35	0.013	0.05	0.1	0.11	3.3	0.1	<0.05	4	<0.5	<0.2
REP 106524	QC	15	26	0.36	254	0.064	<1	1.37	0.012	0.05	0.2	0.10	3.4	0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	124	0.54	278	0.108	2	0.88	0.095	0.38	2.7	0.20	2.7	5.3	0.13	4	4.8	5.0
STD DS8	Standard	14	121	0.60	265	0.119	3	0.88	0.084	0.40	3.0	0.18	2.2	5.2	0.14	5	5.7	4.9
STD DS8	Standard	16	125	0.63	284	0.133	2	0.97	0.099	0.42	3.3	0.23	3.3	5.5	0.20	4	5.6	5.4
STD DS8	Standard	12	106	0.56	257	0.098	3	0.83	0.086	0.38	2.8	0.20	2.4	5.1	<0.05	4	5.0	4.2
STD DS8	Standard	12	111	0.52	244	0.094	2	0.84	0.088	0.39	2.8	0.19	1.9	5.3	0.14	4	4.8	4.7
STD DS8	Standard	14	113	0.55	268	0.100	2	0.87	0.082	0.39	3.0	0.20	1.9	5.3	0.16	4	6.3	4.5
STD DS8	Standard	17	124	0.60	295	0.117	2	0.96	0.098	0.45	3.4	0.21	2.3	5.6	0.18	5	5.4	4.8
STD DS8	Standard	13	113	0.58	265	0.097	2	0.84	0.082	0.38	2.7	0.21	1.8	5.2	0.17	5	5.1	4.6
STD DS8	Standard	16	113	0.60	290	0.111	2	0.88	0.086	0.39	2.7	0.18	2.0	5.2	0.17	5	4.9	4.4
STD DS8	Standard	12	112	0.58	248	0.100	3	0.81	0.076	0.39	2.9	0.21	1.7	5.2	0.21	4	5.0	4.6
STD DS8	Standard	12	109	0.59	261	0.094	3	0.86	0.091	0.41	2.7	0.18	2.4	5.4	0.14	4	6.4	4.8
STD DS8	Standard	11	107	0.54	230	0.098	3	0.80	0.086	0.37	2.6	0.17	2.0	4.6	0.12	4	4.6	4.1
STD DS8	Standard	16	123	0.60	293	0.120	3	0.92	0.088	0.41	3.2	0.20	2.1	5.7	0.16	5	5.3	5.0
STD DS8	Standard	16	122	0.63	294	0.125	2	1.04	0.107	0.46	3.2	0.20	3.5	5.5	0.15	5	5.5	4.9
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: Montana

Report Date: September 24, 2011

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QUALITY CONTROL REPORT

WHI11001142.1

		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	<0.1	<0.1	<1	<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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Project: Montana

Report Date: September 24, 2011

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QUALITY CONTROL REPORT

WHI11001142.1

		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
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 23, 2011
Report Date: September 16, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001143.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110813121117
P.O. Number
Number of Samples: 318

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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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: Montana
 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

WHI11001143.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
132001	Soil	0.6	26.5	10.6	84	<0.1	21.2	8.6	343	2.77	5.0	1.2	3.6	8.3	13	<0.1	0.3	0.2	54	0.15	0.014
132002	Soil	0.8	26.8	11.7	81	<0.1	20.1	8.9	369	2.98	6.3	2.0	4.5	13.4	14	<0.1	0.4	0.2	51	0.18	0.031
132003	Soil	1.0	24.2	23.1	151	<0.1	18.5	8.0	283	2.59	2.5	1.3	3.9	13.9	5	<0.1	0.4	0.2	40	0.08	0.015
132004	Soil	1.2	27.1	10.3	103	0.2	25.3	9.1	330	3.10	5.4	0.5	2.0	4.4	9	0.2	0.3	0.3	59	0.11	0.030
132005	Soil	0.9	24.1	152.2	253	0.6	25.7	8.8	304	3.03	4.2	0.8	1.9	8.5	7	0.4	0.4	0.6	59	0.12	0.031
132006	Soil	1.6	23.6	79.7	555	0.3	18.2	5.9	255	2.59	2.8	1.0	<0.5	9.1	8	0.5	0.3	0.3	40	0.08	0.029
132007	Soil	0.8	13.9	14.6	402	0.2	14.0	6.4	273	2.37	4.7	1.0	3.6	7.1	12	0.4	0.3	0.2	42	0.13	0.019
132008	Soil	0.9	22.5	10.5	86	0.4	23.6	8.6	290	2.56	5.3	0.8	2.0	6.4	11	<0.1	0.4	0.2	55	0.13	0.016
132009	Soil	0.8	27.2	14.2	133	0.2	25.5	8.3	286	2.93	6.2	1.0	6.2	15.0	13	<0.1	0.4	0.2	58	0.19	0.026
132010	Soil	1.6	49.8	10.6	78	0.3	39.1	11.1	247	3.06	4.7	0.8	0.5	4.6	8	0.1	0.4	0.2	61	0.09	0.037
132011	Soil	1.0	23.2	8.4	50	0.3	23.2	8.0	321	2.15	4.0	0.5	1.7	3.1	13	0.1	0.3	0.2	50	0.16	0.035
106542	Soil	1.3	53.9	18.8	164	<0.1	53.2	13.5	391	3.87	1.3	1.7	3.4	6.7	7	<0.1	0.3	0.3	74	0.10	0.059
106543	Soil	1.4	45.3	13.8	123	0.1	41.7	11.4	423	3.60	2.5	1.4	8.0	6.3	9	<0.1	0.4	0.3	69	0.09	0.054
106544	Soil	1.2	30.1	10.4	78	0.1	26.2	9.1	270	2.90	4.0	1.3	5.0	5.5	11	<0.1	0.4	0.2	59	0.12	0.033
106545	Soil	1.3	37.7	12.8	75	0.1	25.8	10.9	289	3.01	5.4	1.5	5.3	6.7	16	<0.1	0.5	0.2	61	0.15	0.031
106546	Soil	1.1	30.9	10.0	66	0.1	21.9	8.2	222	2.62	5.3	1.4	3.9	5.2	13	<0.1	0.6	0.2	58	0.12	0.028
106547	Soil	1.0	29.5	12.4	78	0.1	24.1	8.5	281	2.87	4.4	1.3	5.7	5.6	14	<0.1	0.5	0.2	65	0.17	0.035
106548	Soil	0.8	29.0	10.4	76	<0.1	22.2	7.5	294	2.48	3.8	1.2	3.8	7.1	14	<0.1	0.3	0.2	50	0.19	0.034
106549	Soil	0.9	37.1	11.8	68	0.2	26.9	9.0	280	2.85	8.5	1.6	5.6	6.3	19	<0.1	0.4	0.2	59	0.25	0.040
106550	Soil	1.6	52.2	16.1	146	<0.1	48.4	15.8	292	4.44	1.8	1.4	1.9	6.3	10	0.1	0.2	0.3	84	0.25	0.100
106551	Soil	1.0	26.4	9.5	84	<0.1	21.5	8.3	349	2.87	3.5	0.9	5.4	7.1	11	<0.1	0.3	0.2	50	0.11	0.019
106552	Soil	1.9	20.4	42.3	294	0.2	18.7	14.0	690	2.93	4.3	1.4	1.6	11.5	7	0.3	0.3	0.4	43	0.10	0.038
106553	Soil	1.2	14.4	12.7	70	0.3	14.3	9.9	546	2.51	4.6	1.0	<0.5	7.0	8	0.1	0.3	0.2	49	0.09	0.028
106554	Soil	1.4	66.3	20.6	188	<0.1	40.4	11.8	422	4.06	0.8	2.7	11.5	25.3	9	0.2	0.2	0.4	71	0.23	0.076
106555	Soil	1.6	37.9	14.8	169	<0.1	27.5	8.9	375	3.00	2.1	1.9	4.4	16.8	8	0.2	0.3	0.3	50	0.14	0.039
106556	Soil	1.2	42.6	15.7	122	0.2	39.0	11.4	238	3.89	4.2	1.3	1.5	8.5	9	<0.1	0.3	0.2	78	0.15	0.048
106557	Soil	1.3	60.0	12.9	89	<0.1	55.6	14.3	254	4.10	3.3	1.5	3.0	6.5	9	<0.1	0.2	0.3	83	0.18	0.063
106558	Soil	1.2	34.5	8.6	76	<0.1	32.6	8.0	451	2.23	5.3	0.9	0.7	4.3	8	0.2	1.8	0.2	43	0.09	0.055
123231	Soil	1.3	63.7	18.0	125	<0.1	50.9	14.8	668	3.88	4.2	2.8	9.4	16.1	11	0.2	0.3	0.3	66	0.11	0.043
123232	Soil	0.8	15.6	5.0	37	0.1	19.4	5.7	424	1.15	5.5	0.6	<0.5	1.3	11	0.3	0.3	0.1	25	0.08	0.024

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.



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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
132001	Soil	26	29	0.43	255	0.137	1	1.49	0.008	0.25	0.1	0.02	5.1	0.3	<0.05	5	<0.5	<0.2
132002	Soil	70	30	0.50	258	0.122	2	1.58	0.007	0.30	0.1	0.04	5.8	0.3	<0.05	6	<0.5	<0.2
132003	Soil	42	21	0.33	143	0.120	2	1.14	0.004	0.36	<0.1	0.04	3.4	0.4	<0.05	5	0.7	<0.2
132004	Soil	9	29	0.47	209	0.132	<1	1.51	0.006	0.35	0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
132005	Soil	13	32	0.47	150	0.164	<1	1.55	0.005	0.48	0.1	0.03	3.5	0.4	<0.05	6	<0.5	<0.2
132006	Soil	21	22	0.30	172	0.106	1	1.04	0.003	0.34	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
132007	Soil	14	21	0.39	180	0.112	<1	1.22	0.004	0.41	0.1	0.01	2.9	0.3	<0.05	5	<0.5	<0.2
132008	Soil	15	30	0.45	221	0.122	1	1.25	0.007	0.28	0.1	0.02	2.5	0.2	<0.05	4	0.6	<0.2
132009	Soil	54	35	0.58	231	0.151	1	1.68	0.007	0.44	0.1	0.02	3.4	0.4	<0.05	5	<0.5	<0.2
132010	Soil	14	37	0.54	159	0.119	1	1.31	0.005	0.35	0.1	<0.01	3.1	0.2	<0.05	5	0.9	<0.2
132011	Soil	11	28	0.35	225	0.076	1	1.00	0.006	0.13	0.1	0.02	2.3	0.1	<0.05	4	<0.5	<0.2
106542	Soil	20	46	0.59	244	0.180	<1	1.52	0.005	0.81	<0.1	0.02	4.5	0.6	<0.05	5	0.8	<0.2
106543	Soil	18	41	0.50	207	0.140	1	1.43	0.006	0.56	<0.1	0.02	4.1	0.4	<0.05	5	0.7	<0.2
106544	Soil	16	34	0.47	262	0.124	<1	1.49	0.007	0.31	0.1	0.02	3.9	0.2	<0.05	5	<0.5	<0.2
106545	Soil	20	34	0.46	275	0.123	1	1.65	0.008	0.25	<0.1	0.03	4.3	0.2	<0.05	5	<0.5	<0.2
106546	Soil	17	32	0.43	233	0.114	1	1.53	0.007	0.20	0.1	0.04	3.9	0.2	<0.05	5	<0.5	<0.2
106547	Soil	18	35	0.50	253	0.138	2	1.61	0.007	0.28	<0.1	0.02	3.7	0.3	<0.05	6	<0.5	<0.2
106548	Soil	23	28	0.41	237	0.127	<1	1.29	0.007	0.34	0.1	0.03	3.8	0.3	<0.05	5	<0.5	<0.2
106549	Soil	20	34	0.49	286	0.097	1	1.45	0.011	0.16	0.1	0.06	4.7	0.1	<0.05	5	<0.5	<0.2
106550	Soil	19	52	0.81	275	0.208	<1	2.13	0.008	0.83	<0.1	0.01	4.7	0.6	<0.05	7	0.9	<0.2
106551	Soil	19	27	0.45	192	0.138	1	1.49	0.006	0.42	0.1	0.02	4.9	0.4	<0.05	6	<0.5	<0.2
106552	Soil	17	27	0.37	174	0.104	<1	1.43	0.004	0.36	0.1	0.01	2.6	0.4	<0.05	6	<0.5	<0.2
106553	Soil	13	23	0.40	137	0.103	<1	1.30	0.006	0.30	<0.1	<0.01	2.3	0.3	<0.05	6	<0.5	<0.2
106554	Soil	98	41	0.64	299	0.233	<1	1.83	0.007	1.06	<0.1	0.03	4.0	0.7	<0.05	6	0.7	<0.2
106555	Soil	55	28	0.42	244	0.140	<1	1.30	0.005	0.52	<0.1	0.02	3.5	0.4	<0.05	5	0.8	<0.2
106556	Soil	21	48	0.77	195	0.218	<1	1.95	0.007	0.90	<0.1	0.02	3.6	0.5	<0.05	7	0.7	<0.2
106557	Soil	24	52	0.77	261	0.192	<1	1.76	0.011	0.80	<0.1	0.02	5.3	0.5	<0.05	6	<0.5	<0.2
106558	Soil	13	26	0.23	188	0.054	<1	0.91	0.004	0.18	0.1	0.01	3.8	0.2	<0.05	3	0.5	<0.2
123231	Soil	52	41	0.61	302	0.134	<1	1.68	0.007	0.69	0.1	0.04	5.2	0.5	<0.05	6	0.8	<0.2
123232	Soil	8	17	0.08	156	0.019	<1	0.83	0.002	0.03	<0.1	<0.01	1.6	0.1	<0.05	2	<0.5	<0.2

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Project: Montana
 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
123233	Soil	1.3	36.5	13.2	55	0.1	23.9	8.1	325	2.34	8.4	3.5	3.1	5.6	36	<0.1	0.5	0.2	48	0.32	0.036
123234	Soil	1.5	34.5	12.5	68	0.1	33.0	10.9	326	2.82	6.1	1.2	1.6	5.7	21	0.2	0.7	0.2	58	0.30	0.038
123235	Soil	1.0	15.5	15.2	45	<0.1	11.2	4.4	177	1.24	3.6	2.3	1.9	4.0	181	<0.1	0.2	0.2	21	0.52	0.037
123236	Soil	1.0	11.3	18.4	32	<0.1	7.8	3.8	96	0.89	2.5	2.1	<0.5	5.1	65	<0.1	0.2	0.2	18	0.36	0.011
123237	Soil	0.6	9.7	5.1	25	<0.1	10.4	3.4	91	0.91	4.1	0.4	<0.5	1.5	10	<0.1	0.2	<0.1	21	0.05	0.011
123238	Soil	1.6	27.1	4.7	54	<0.1	12.4	5.3	209	1.17	7.7	0.9	1.4	1.2	15	<0.1	0.3	<0.1	20	0.03	0.020
123239	Soil	0.6	15.1	20.6	45	<0.1	14.4	6.1	233	1.24	4.9	2.7	<0.5	5.0	65	<0.1	0.4	0.3	26	0.51	0.032
123240	Soil	0.7	26.8	9.8	56	0.1	24.7	9.2	405	2.33	8.5	1.2	2.5	4.0	32	0.1	0.5	0.2	45	0.41	0.051
123241	Soil	0.7	31.7	10.4	68	0.1	27.4	8.9	453	2.66	7.7	0.8	2.3	3.7	26	0.2	0.5	0.2	49	0.43	0.053
123242	Soil	0.7	28.0	9.9	65	0.2	23.0	9.2	437	2.25	7.2	1.0	5.8	2.4	26	0.2	0.4	0.2	43	0.42	0.061
123243	Soil	0.6	25.3	9.9	67	0.1	18.4	5.8	193	2.25	5.6	1.0	3.2	3.9	22	0.2	0.4	0.2	40	0.27	0.063
123244	Soil	0.8	30.8	11.3	75	0.1	25.7	8.0	285	2.65	7.8	1.0	2.4	5.2	27	0.2	0.5	0.2	49	0.40	0.056
123245	Soil	0.6	75.3	13.5	103	0.1	39.1	11.1	675	4.15	2.7	1.6	6.2	8.4	23	0.2	0.1	0.2	89	0.20	0.079
123246	Soil	0.4	73.7	17.6	141	0.1	40.6	12.8	695	4.37	3.7	1.8	6.0	9.3	17	<0.1	0.1	0.2	88	0.13	0.051
123247	Soil	0.5	67.1	13.2	115	<0.1	38.6	11.3	426	3.84	1.7	1.5	3.9	7.5	36	<0.1	0.1	0.2	85	0.11	0.045
123248	Soil	0.4	23.1	10.6	73	<0.1	11.9	4.7	591	2.21	2.1	1.0	2.0	8.1	16	<0.1	0.2	0.2	33	0.07	0.012
123249	Soil	0.6	23.9	14.9	98	<0.1	15.8	6.6	238	2.29	4.2	1.2	0.9	8.5	10	<0.1	0.1	0.1	39	0.05	0.023
123250	Soil	0.6	83.6	11.4	105	<0.1	37.6	10.7	220	3.63	3.9	1.4	2.4	7.2	18	<0.1	0.3	0.2	87	0.12	0.021
123251	Soil	0.4	51.5	15.2	142	<0.1	51.9	15.5	634	4.71	1.6	1.5	7.1	6.1	12	<0.1	<0.1	0.2	103	0.14	0.060
123252	Soil	1.2	48.5	8.8	76	<0.1	43.6	8.4	868	4.57	1.3	1.6	4.2	4.5	22	<0.1	0.1	0.1	77	0.07	0.040
123253	Soil	0.6	35.4	14.2	186	<0.1	56.5	15.6	270	4.95	1.8	1.5	1.2	7.3	14	<0.1	0.1	0.2	107	0.14	0.067
123254	Soil	0.3	24.8	12.1	90	<0.1	34.1	9.2	369	3.84	1.4	1.6	2.8	6.9	12	<0.1	<0.1	0.1	80	0.09	0.035
123255	Soil	0.8	24.6	19.7	96	0.1	15.4	6.4	240	2.76	4.0	1.0	1.3	4.8	15	<0.1	0.2	0.2	43	0.10	0.026
123256	Soil	1.5	51.2	15.6	105	<0.1	35.6	12.4	512	3.10	18.0	1.2	<0.5	6.4	9	<0.1	0.2	0.2	61	0.08	0.036
123257	Soil	0.5	79.8	14.2	140	0.1	47.0	17.2	1031	3.40	2.6	1.6	2.8	6.0	15	<0.1	0.1	0.2	85	0.28	0.056
123258	Soil	0.3	19.8	9.5	99	<0.1	61.9	12.9	1141	3.47	1.1	0.9	1.1	7.4	17	0.2	0.1	0.2	52	0.20	0.067
123259	Soil	0.7	28.1	15.2	72	<0.1	25.6	7.7	266	2.60	5.3	1.5	<0.5	5.9	30	0.1	0.3	0.2	46	0.28	0.041
123260	Soil	0.7	24.7	12.1	64	<0.1	19.4	7.1	223	2.50	7.7	1.2	3.4	4.4	42	<0.1	0.4	0.2	48	0.35	0.037
123261	Soil	0.6	19.6	15.3	57	0.1	17.6	3.9	114	1.24	5.3	1.9	2.4	3.9	40	0.3	0.3	0.2	28	0.43	0.041
123262	Soil	0.7	19.0	11.6	53	0.1	14.7	4.8	135	2.09	7.7	1.3	<0.5	1.6	32	0.4	0.3	0.2	42	0.34	0.052

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
123233	Soil	22	31	0.36	448	0.037	1	1.37	0.009	0.06	<0.1	0.06	4.8	0.2	<0.05	5	<0.5	<0.2
123234	Soil	19	48	0.63	291	0.155	1	1.68	0.012	0.37	0.1	0.04	4.7	0.3	<0.05	6	<0.5	<0.2
123235	Soil	25	14	0.31	1288	0.008	2	1.30	0.011	0.13	<0.1	0.03	2.0	0.2	<0.05	3	<0.5	<0.2
123236	Soil	20	13	0.27	221	0.011	<1	1.32	0.008	0.08	<0.1	0.02	1.3	0.1	<0.05	3	<0.5	<0.2
123237	Soil	9	13	0.15	97	0.033	2	0.73	0.003	0.02	<0.1	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
123238	Soil	10	12	0.09	84	0.019	<1	0.66	0.002	0.02	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
123239	Soil	27	17	0.32	398	0.017	4	1.22	0.009	0.06	<0.1	0.03	2.5	0.2	0.05	3	<0.5	<0.2
123240	Soil	15	26	0.39	307	0.055	2	1.30	0.014	0.08	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
123241	Soil	14	36	0.51	372	0.060	<1	1.43	0.012	0.10	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
123242	Soil	14	24	0.43	346	0.050	<1	1.30	0.012	0.06	0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
123243	Soil	18	24	0.40	246	0.064	1	1.36	0.010	0.15	0.1	0.04	3.5	0.1	<0.05	5	<0.5	<0.2
123244	Soil	17	30	0.47	345	0.083	<1	1.47	0.014	0.16	0.1	0.04	3.7	0.1	<0.05	5	<0.5	<0.2
123245	Soil	17	46	0.60	368	0.206	1	1.80	0.007	1.05	0.1	0.01	6.2	0.5	<0.05	8	<0.5	<0.2
123246	Soil	21	51	0.82	407	0.285	<1	2.27	0.009	1.37	<0.1	0.02	6.3	0.7	<0.05	9	<0.5	<0.2
123247	Soil	22	56	0.76	404	0.207	1	1.92	0.012	1.11	<0.1	0.01	4.8	0.5	<0.05	7	<0.5	0.2
123248	Soil	22	20	0.29	236	0.103	1	1.04	0.005	0.47	<0.1	0.02	4.4	0.5	<0.05	6	<0.5	<0.2
123249	Soil	20	24	0.29	141	0.092	<1	1.16	0.005	0.34	<0.1	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2
123250	Soil	22	53	0.76	373	0.213	<1	1.97	0.009	0.66	<0.1	0.03	5.4	0.5	<0.05	7	<0.5	<0.2
123251	Soil	16	64	0.98	474	0.276	1	2.56	0.019	1.34	<0.1	0.02	6.4	0.6	<0.05	9	<0.5	<0.2
123252	Soil	8	41	0.46	239	0.182	1	1.57	0.005	0.69	0.1	0.02	6.6	0.4	0.05	7	<0.5	<0.2
123253	Soil	14	59	0.89	458	0.310	<1	2.28	0.013	1.33	<0.1	<0.01	5.5	0.7	0.07	8	<0.5	<0.2
123254	Soil	20	49	0.62	296	0.179	<1	1.66	0.008	0.86	<0.1	<0.01	4.9	0.5	0.06	6	<0.5	<0.2
123255	Soil	16	23	0.39	341	0.080	1	1.54	0.004	0.28	0.1	0.01	3.9	0.3	0.09	6	<0.5	<0.2
123256	Soil	19	54	0.91	592	0.114	<1	1.80	0.006	0.61	<0.1	<0.01	5.4	0.4	0.11	7	0.8	<0.2
123257	Soil	24	46	1.35	1086	0.150	1	2.44	0.010	0.80	<0.1	0.01	8.3	0.3	0.09	8	<0.5	<0.2
123258	Soil	14	59	0.39	242	0.016	1	1.15	0.003	0.25	<0.1	0.03	4.4	0.1	0.08	5	<0.5	<0.2
123259	Soil	19	36	0.46	319	0.025	<1	1.53	0.006	0.19	<0.1	0.02	4.8	0.2	0.10	5	<0.5	<0.2
123260	Soil	19	31	0.41	394	0.042	<1	1.58	0.007	0.09	<0.1	0.03	4.1	<0.1	0.11	5	<0.5	<0.2
123261	Soil	26	18	0.29	248	0.017	<1	1.27	0.007	0.07	<0.1	0.06	3.1	0.2	0.25	4	<0.5	<0.2
123262	Soil	16	24	0.34	245	0.031	<1	1.42	0.009	0.06	<0.1	0.04	2.5	<0.1	0.09	4	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
123263	Soil	0.7	29.1	9.7	92	<0.1	20.4	6.8	285	2.90	4.3	1.7	4.1	9.4	23	0.2	0.3	0.2	51	0.22	0.034
123264	Soil	0.9	14.7	8.3	47	<0.1	16.9	6.1	183	2.14	6.5	0.8	0.8	4.2	23	<0.1	0.3	0.1	44	0.24	0.043
145417	Soil	0.8	19.4	8.6	56	0.1	15.9	6.7	196	2.11	6.1	1.0	<0.5	3.6	16	0.2	0.8	0.1	41	0.20	0.052
125418	Soil	0.8	21.3	9.2	63	0.1	17.6	6.6	222	2.22	6.9	1.1	1.3	3.8	19	0.1	0.9	0.2	41	0.25	0.055
145419	Soil	1.1	22.8	9.7	66	0.2	17.5	7.1	205	2.44	8.5	0.9	2.4	3.8	20	0.1	0.9	0.2	49	0.25	0.055
145420	Soil	0.7	20.1	7.5	50	0.1	14.3	5.8	197	1.82	6.0	1.1	7.8	3.1	16	0.1	0.9	0.1	38	0.21	0.049
145421	Soil	0.8	59.3	13.3	49	0.5	23.5	7.3	175	2.30	6.5	2.5	1.3	0.9	23	0.4	0.8	0.2	39	0.19	0.056
145422	Soil	0.6	26.4	8.8	45	0.1	14.8	5.3	187	1.88	6.1	1.4	1.3	6.3	16	<0.1	0.8	0.2	36	0.18	0.033
145423	Soil	1.1	25.0	7.3	33	<0.1	13.1	4.9	164	1.43	7.8	1.1	4.2	3.8	8	<0.1	1.7	0.2	32	0.06	0.026
145424	Soil	0.8	20.3	6.5	30	<0.1	13.4	4.4	141	1.33	6.3	1.0	1.9	4.2	10	<0.1	1.2	0.2	33	0.08	0.024
145425	Soil	1.2	22.0	7.3	31	<0.1	13.8	7.1	155	1.85	8.0	1.1	1.4	5.8	9	<0.1	1.3	0.2	38	0.07	0.014
145426	Soil	0.7	22.0	7.0	59	<0.1	12.1	4.0	177	1.65	3.3	2.0	2.6	9.9	6	<0.1	0.7	0.2	30	0.04	0.018
145427	Soil	1.9	27.8	5.8	35	<0.1	18.2	4.7	204	1.77	5.4	1.1	2.5	4.7	6	<0.1	2.1	0.3	34	0.03	0.024
145428	Soil	1.0	26.4	8.6	35	0.1	16.0	6.8	229	1.68	3.1	1.8	7.0	5.9	8	<0.1	0.6	0.2	35	0.05	0.016
145429	Soil	1.2	36.4	9.6	61	<0.1	20.0	5.6	164	2.89	1.3	1.3	5.0	6.2	7	<0.1	0.4	0.3	51	0.05	0.024
145430	Soil	1.0	23.7	7.4	39	<0.1	15.3	5.6	159	2.25	4.0	1.1	4.5	5.1	8	<0.1	0.5	0.2	44	0.07	0.015
145431	Soil	1.8	33.6	5.9	25	<0.1	10.1	4.6	138	1.83	3.8	1.3	5.8	6.7	8	<0.1	1.1	0.2	37	0.05	0.015
145432	Soil	1.3	22.3	9.7	42	0.4	20.9	8.6	208	2.90	9.0	0.7	6.0	3.8	9	<0.1	0.5	0.2	63	0.08	0.020
145433	Soil	1.5	31.6	13.3	72	<0.1	21.6	6.1	98	3.25	2.5	1.2	1.3	6.6	6	<0.1	0.3	0.3	84	0.05	0.040
145434	Soil	1.4	41.2	9.0	61	0.2	24.1	19.4	736	2.92	1.3	1.7	8.1	8.7	7	<0.1	0.3	0.2	45	0.03	0.039
145435	Soil	1.7	50.0	12.4	115	<0.1	38.9	11.6	208	3.68	3.4	1.6	10.9	5.9	8	<0.1	0.3	0.2	94	0.06	0.035
145436	Soil	2.0	44.4	15.8	149	<0.1	46.6	13.2	297	5.17	5.7	1.2	3.8	7.8	6	<0.1	0.4	0.3	116	0.07	0.052
145437	Soil	1.1	52.7	17.7	111	0.1	49.4	11.9	532	4.06	3.7	1.4	8.0	8.6	8	<0.1	0.3	0.3	110	0.10	0.025
145438	Soil	0.8	54.0	19.8	164	0.1	59.7	13.2	666	5.14	2.3	1.9	13.8	15.2	10	<0.1	0.3	0.3	147	0.18	0.048
145439	Soil	0.8	16.4	4.9	49	0.2	18.4	7.2	523	3.18	3.8	0.4	1.2	4.5	5	<0.1	0.2	0.2	75	0.08	0.029
145440	Soil	1.0	18.9	9.8	153	<0.1	18.2	5.7	358	3.18	3.6	0.9	0.7	7.4	8	<0.1	0.2	0.2	40	0.08	0.017
145441	Soil	1.2	45.8	11.4	104	0.2	32.0	8.5	384	3.56	3.1	1.2	5.6	17.9	7	0.1	0.2	0.2	58	0.17	0.038
145442	Soil	1.0	14.6	7.3	112	0.8	16.5	7.3	369	3.22	3.6	1.1	0.7	9.6	10	<0.1	0.2	0.2	47	0.13	0.031
145443	Soil	1.6	22.1	41.8	295	0.4	19.5	7.2	383	3.10	3.6	2.0	2.2	17.2	6	0.2	0.3	0.3	39	0.09	0.017
129240	Soil	0.9	39.9	7.6	94	0.2	53.8	12.0	437	3.43	7.6	0.7	3.5	4.7	21	0.2	1.6	0.1	91	0.64	0.060

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Project: Montana
 Report Date: September 16, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
123263	Soil	28	29	0.45	338	0.116	1	1.51	0.010	0.46	<0.1	0.04	4.7	0.3	0.08	6	<0.5	<0.2
123264	Soil	13	26	0.35	203	0.061	<1	1.29	0.007	0.06	<0.1	0.02	2.8	<0.1	0.09	4	<0.5	<0.2
145417	Soil	13	24	0.30	235	0.053	<1	1.24	0.007	0.05	0.1	0.08	3.0	0.1	0.06	4	<0.5	<0.2
125418	Soil	15	26	0.32	270	0.059	1	1.26	0.009	0.05	0.1	0.09	3.3	0.1	0.06	4	<0.5	<0.2
145419	Soil	14	27	0.37	250	0.068	<1	1.49	0.011	0.05	0.1	0.09	3.4	0.1	0.06	4	<0.5	<0.2
145420	Soil	15	23	0.29	229	0.062	1	1.17	0.008	0.06	0.1	0.10	3.1	0.1	0.06	3	<0.5	<0.2
145421	Soil	20	25	0.25	467	0.041	1	1.64	0.008	0.07	<0.1	0.18	3.6	0.1	<0.05	5	<0.5	<0.2
145422	Soil	17	22	0.28	223	0.058	<1	1.04	0.006	0.07	<0.1	0.04	3.4	0.1	<0.05	3	<0.5	<0.2
145423	Soil	16	17	0.16	149	0.031	<1	0.82	0.004	0.05	<0.1	0.03	2.6	0.1	<0.05	3	<0.5	<0.2
145424	Soil	15	23	0.20	148	0.039	<1	0.80	0.004	0.04	<0.1	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
145425	Soil	13	25	0.24	163	0.035	<1	1.10	0.004	0.04	<0.1	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
145426	Soil	25	17	0.19	174	0.045	<1	0.83	0.003	0.13	<0.1	0.03	2.8	0.2	<0.05	3	<0.5	<0.2
145427	Soil	13	14	0.04	87	0.011	<1	0.49	0.002	0.02	<0.1	0.02	1.9	0.1	<0.05	2	0.5	<0.2
145428	Soil	19	17	0.20	138	0.025	<1	0.93	0.003	0.03	<0.1	0.07	2.7	0.1	<0.05	3	<0.5	<0.2
145429	Soil	18	29	0.41	269	0.111	<1	1.19	0.006	0.35	<0.1	0.03	4.6	0.4	<0.05	4	0.6	<0.2
145430	Soil	17	24	0.28	176	0.042	1	1.18	0.004	0.06	<0.1	0.03	2.8	0.1	<0.05	4	<0.5	<0.2
145431	Soil	20	18	0.17	144	0.025	<1	0.77	0.003	0.03	<0.1	0.05	3.1	<0.1	<0.05	3	0.8	<0.2
145432	Soil	9	33	0.35	159	0.052	1	2.22	0.006	0.04	0.1	0.05	2.1	0.1	<0.05	5	<0.5	<0.2
145433	Soil	19	34	0.51	142	0.197	<1	1.62	0.005	0.50	<0.1	<0.01	2.4	0.4	<0.05	7	0.6	<0.2
145434	Soil	24	25	0.32	211	0.091	<1	1.05	0.005	0.36	<0.1	0.22	4.4	0.4	<0.05	4	0.9	<0.2
145435	Soil	20	44	0.55	241	0.151	<1	1.76	0.005	0.44	<0.1	0.03	4.8	0.4	<0.05	6	0.8	<0.2
145436	Soil	21	52	0.76	251	0.262	<1	2.47	0.007	0.75	0.1	0.01	3.8	0.6	<0.05	8	0.7	<0.2
145437	Soil	37	50	0.64	269	0.208	<1	2.10	0.007	0.50	0.1	0.02	4.4	0.5	<0.05	9	0.6	<0.2
145438	Soil	59	79	0.87	479	0.369	<1	2.41	0.009	1.07	0.1	0.03	6.7	0.8	<0.05	10	0.6	<0.2
145439	Soil	5	28	0.46	184	0.190	<1	1.80	0.005	0.58	0.2	<0.01	4.8	0.6	<0.05	8	<0.5	<0.2
145440	Soil	16	21	0.48	205	0.154	<1	1.72	0.005	0.60	0.1	0.01	4.7	0.6	<0.05	8	<0.5	<0.2
145441	Soil	119	30	0.65	177	0.195	<1	1.86	0.005	0.75	0.1	0.02	3.0	0.6	<0.05	6	0.6	<0.2
145442	Soil	14	21	0.46	206	0.139	<1	1.62	0.005	0.56	0.2	0.01	3.8	0.5	<0.05	7	<0.5	<0.2
145443	Soil	29	19	0.26	111	0.063	<1	1.06	0.003	0.35	<0.1	0.02	4.0	0.4	<0.05	5	0.7	<0.2
129240	Soil	17	74	1.16	529	0.149	<1	2.15	0.018	0.42	0.3	0.03	5.4	0.5	<0.05	7	0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
129241	Soil		0.7	60.7	5.8	61	0.2	42.6	13.5	324	4.30	3.6	0.9	5.5	2.3	30	<0.1	0.3	0.3	118	0.54	0.024
129242	Soil		1.2	25.3	8.9	65	0.1	25.6	9.5	334	3.01	6.3	1.0	2.9	3.7	22	0.2	0.6	0.2	60	0.29	0.040
129243	Soil		1.0	26.3	8.3	64	<0.1	24.6	8.6	278	3.03	5.1	1.2	2.7	5.0	18	<0.1	0.5	0.2	70	0.26	0.039
129244	Soil		1.1	24.5	8.4	62	<0.1	22.7	7.9	247	2.95	5.2	1.1	5.8	4.8	16	<0.1	0.6	0.2	54	0.22	0.041
129245	Soil		1.0	26.7	8.8	66	<0.1	23.6	8.5	215	2.98	5.2	1.1	2.7	5.1	15	<0.1	0.5	0.2	65	0.19	0.032
129246	Soil		1.0	32.7	7.9	59	<0.1	24.2	7.7	255	2.81	6.6	2.3	4.7	4.7	20	<0.1	0.6	0.2	58	0.29	0.036
129247	Soil		1.3	29.9	21.6	92	<0.1	32.9	11.8	364	4.12	4.9	1.3	2.3	9.5	12	<0.1	0.6	0.2	69	0.18	0.040
129248	Soil		1.3	25.9	8.4	66	0.1	23.0	8.8	239	3.05	7.8	0.8	3.6	4.2	15	<0.1	0.5	0.2	70	0.18	0.029
129249	Soil		1.2	20.2	8.0	63	0.2	21.7	7.2	283	2.74	6.9	0.9	2.8	3.9	17	<0.1	0.4	0.2	70	0.21	0.041
129250	Soil		1.4	28.8	10.8	68	0.5	27.4	13.1	524	3.11	5.3	1.2	2.2	4.2	15	<0.1	0.4	0.2	70	0.19	0.038
129251	Soil		1.7	36.3	8.6	77	0.1	30.7	10.3	261	3.32	5.4	1.0	5.2	5.2	11	<0.1	0.6	0.2	70	0.12	0.029
129252	Soil		1.6	28.4	9.2	64	<0.1	29.1	7.9	436	3.74	5.4	1.7	7.5	7.4	11	<0.1	0.4	0.2	58	0.12	0.024
129253	Soil		1.7	36.9	11.8	84	0.2	35.3	8.7	270	3.41	4.5	1.4	3.9	4.1	15	<0.1	0.4	0.2	76	0.17	0.045
129254	Soil		1.4	31.7	10.3	91	0.1	31.5	9.8	237	3.76	5.2	1.2	3.7	4.6	12	<0.1	0.4	0.2	94	0.13	0.035
129255	Soil		1.2	16.8	10.7	56	0.2	19.6	6.3	204	2.61	5.5	0.9	1.8	4.0	11	<0.1	0.3	0.2	54	0.14	0.047
129256	Soil		1.1	26.4	10.9	86	0.2	27.0	10.0	254	3.17	5.0	1.2	4.7	5.9	11	<0.1	0.4	0.2	69	0.11	0.024
129257	Soil		1.7	45.2	12.9	94	0.2	34.0	11.9	258	3.76	6.2	1.7	9.3	7.3	12	<0.1	0.5	0.3	86	0.11	0.029
129258	Soil		1.1	42.3	10.2	74	<0.1	26.4	8.7	229	3.79	7.6	1.3	7.3	5.2	15	<0.1	0.5	0.3	83	0.11	0.026
129259	Soil		1.7	26.3	11.5	68	0.2	20.0	7.8	246	3.34	8.6	0.8	5.9	3.8	15	0.2	0.6	0.7	74	0.13	0.046
129260	Soil		1.5	29.8	13.8	68	0.3	23.9	8.1	226	3.17	7.0	0.8	2.8	3.5	14	0.2	0.5	0.5	77	0.12	0.055
129261	Soil		1.4	38.9	11.0	97	<0.1	32.9	12.1	202	3.71	5.4	0.9	3.3	4.5	11	0.2	0.5	0.4	86	0.11	0.038
129262	Soil		1.6	37.2	12.2	84	0.1	33.7	14.2	455	3.67	10.4	1.0	3.4	4.7	13	0.1	0.8	0.4	78	0.11	0.042
129263	Soil		1.1	31.7	9.6	75	0.1	25.8	10.4	215	3.16	6.4	1.0	3.8	5.3	13	<0.1	0.9	0.3	70	0.11	0.028
129264	Soil		1.4	34.2	10.6	69	<0.1	25.5	11.6	307	3.25	8.5	1.8	3.8	5.6	21	0.1	0.8	0.3	69	0.20	0.024
129265	Soil		1.1	33.4	10.9	70	0.1	26.8	11.3	299	3.23	6.6	1.7	3.7	5.8	17	<0.1	0.7	0.3	68	0.18	0.026
129266	Soil		1.1	20.2	9.3	58	<0.1	20.0	9.0	183	2.89	7.3	0.9	4.0	5.3	15	<0.1	0.7	0.3	58	0.16	0.025
129267	Soil		1.1	27.4	10.8	72	<0.1	24.7	11.2	260	3.36	7.2	0.9	3.0	6.4	15	<0.1	0.7	0.3	64	0.16	0.034
129268	Soil		0.8	29.5	8.8	70	<0.1	24.1	10.1	238	2.98	4.5	1.1	1.6	7.4	17	<0.1	0.6	0.3	57	0.19	0.031
129269	Soil		0.9	30.2	10.2	68	<0.1	23.5	9.4	251	2.79	5.3	1.3	1.6	6.5	19	<0.1	0.7	0.3	58	0.23	0.034
129270	Soil		1.2	35.8	11.4	76	0.1	25.1	9.8	275	2.99	7.7	1.1	2.2	6.1	26	<0.1	0.8	0.2	64	0.27	0.049

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
129241	Soil	8	110	1.82	390	0.123	<1	2.68	0.022	0.40	<0.1	0.03	10.5	0.3	0.18	7	1.4	<0.2
129242	Soil	15	29	0.50	270	0.129	<1	1.58	0.011	0.20	0.1	0.04	3.1	0.2	<0.05	6	<0.5	<0.2
129243	Soil	17	34	0.60	229	0.175	<1	1.72	0.012	0.32	0.1	0.03	3.8	0.3	<0.05	6	<0.5	<0.2
129244	Soil	16	30	0.50	206	0.154	<1	1.46	0.011	0.35	0.1	0.03	3.2	0.3	<0.05	5	<0.5	<0.2
129245	Soil	18	33	0.54	201	0.178	<1	1.71	0.010	0.34	0.2	0.02	3.1	0.3	<0.05	6	<0.5	<0.2
129246	Soil	17	29	0.53	306	0.139	<1	1.51	0.013	0.16	0.1	0.04	4.0	0.2	<0.05	5	0.6	<0.2
129247	Soil	27	52	0.90	213	0.279	<1	2.34	0.009	1.00	0.2	0.02	5.6	0.7	<0.05	9	<0.5	<0.2
129248	Soil	14	32	0.55	193	0.171	<1	1.75	0.012	0.25	0.1	0.02	3.0	0.3	<0.05	6	<0.5	<0.2
129249	Soil	15	32	0.56	228	0.154	<1	1.54	0.011	0.24	0.1	0.03	3.0	0.2	<0.05	6	<0.5	<0.2
129250	Soil	15	35	0.57	259	0.166	<1	1.80	0.012	0.29	0.1	0.03	3.5	0.3	<0.05	7	<0.5	<0.2
129251	Soil	15	36	0.58	176	0.190	<1	1.77	0.008	0.44	0.1	0.03	3.5	0.4	<0.05	6	<0.5	<0.2
129252	Soil	20	30	0.63	258	0.187	<1	1.97	0.007	0.55	0.1	0.03	5.6	0.4	<0.05	8	0.5	<0.2
129253	Soil	17	40	0.52	223	0.172	<1	1.79	0.009	0.38	0.1	0.03	3.4	0.3	<0.05	6	<0.5	<0.2
129254	Soil	14	43	0.66	242	0.229	<1	2.30	0.010	0.46	0.1	0.02	3.6	0.4	<0.05	7	0.5	<0.2
129255	Soil	16	27	0.38	143	0.127	<1	1.41	0.006	0.20	0.1	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
129256	Soil	19	33	0.53	220	0.171	<1	1.97	0.007	0.30	<0.1	0.02	2.9	0.3	<0.05	6	<0.5	<0.2
129257	Soil	20	48	0.75	217	0.214	<1	2.38	0.007	0.45	<0.1	0.02	4.4	0.4	<0.05	6	0.8	<0.2
129258	Soil	18	44	0.75	190	0.200	<1	2.11	0.013	0.44	0.1	0.03	4.2	0.4	<0.05	6	0.7	<0.2
129259	Soil	11	39	0.57	199	0.131	1	2.04	0.008	0.22	0.1	0.01	3.0	0.2	<0.05	6	<0.5	<0.2
129260	Soil	11	38	0.50	195	0.148	1	1.74	0.008	0.33	0.1	0.02	3.2	0.2	<0.05	6	<0.5	<0.2
129261	Soil	12	48	0.69	209	0.240	1	2.15	0.008	0.62	0.1	<0.01	3.9	0.4	<0.05	7	<0.5	<0.2
129262	Soil	13	45	0.71	230	0.191	<1	2.19	0.009	0.46	0.2	0.01	4.4	0.4	<0.05	7	<0.5	<0.2
129263	Soil	14	39	0.58	215	0.174	<1	1.77	0.007	0.37	0.1	0.02	4.1	0.4	<0.05	6	0.6	<0.2
129264	Soil	15	40	0.63	272	0.154	<1	1.93	0.011	0.27	0.1	0.04	5.4	0.3	<0.05	6	<0.5	<0.2
129265	Soil	17	39	0.60	276	0.165	<1	1.85	0.009	0.30	0.1	0.05	5.6	0.3	<0.05	6	<0.5	<0.2
129266	Soil	15	33	0.50	203	0.124	<1	1.55	0.007	0.17	0.1	0.01	3.0	0.1	<0.05	5	<0.5	<0.2
129267	Soil	16	38	0.64	202	0.191	<1	1.91	0.009	0.44	0.1	<0.01	3.8	0.4	<0.05	7	<0.5	<0.2
129268	Soil	22	39	0.68	227	0.209	<1	1.88	0.011	0.61	0.2	0.01	4.6	0.4	<0.05	7	0.5	<0.2
129269	Soil	18	38	0.64	257	0.179	<1	1.68	0.011	0.46	0.2	0.03	4.6	0.3	<0.05	6	<0.5	<0.2
129270	Soil	18	36	0.57	343	0.154	1	1.74	0.012	0.34	0.2	0.04	5.0	0.3	<0.05	6	<0.5	<0.2

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Project: Montana
 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
129271	Soil	1.0	31.1	10.6	65	<0.1	23.0	9.8	288	2.95	5.8	1.4	3.1	6.6	21	<0.1	0.9	0.2	60	0.25	0.042
129272	Soil	1.1	35.1	11.5	75	0.1	27.6	12.6	465	3.18	7.1	1.5	7.0	5.9	25	0.2	1.0	0.3	64	0.32	0.048
145444	Soil	0.8	24.4	25.1	463	<0.1	20.1	8.3	379	3.18	3.2	1.7	2.7	19.9	6	0.3	0.3	0.2	52	0.11	0.022
145445	Soil	1.0	31.1	92.2	235	0.3	29.1	9.4	361	3.01	4.2	0.8	1.8	9.9	11	0.1	0.3	0.2	71	0.16	0.021
145446	Soil	0.7	22.5	114.1	235	0.2	21.0	8.1	427	2.47	5.1	0.9	1.8	9.1	14	0.2	0.5	0.2	48	0.21	0.019
145447	Soil	1.1	19.8	14.0	98	<0.1	22.1	8.3	237	2.91	3.0	0.7	<0.5	6.4	10	<0.1	0.2	0.3	55	0.11	0.018
145448	Soil	0.7	23.4	11.8	80	0.1	23.3	8.1	327	2.86	3.7	1.4	5.1	12.9	14	<0.1	0.3	0.3	46	0.24	0.036
145449	Soil	1.2	41.7	12.2	88	0.3	32.3	11.5	634	3.35	4.0	1.8	1.4	7.8	17	0.2	0.3	0.2	69	0.42	0.051
124288	Soil	1.1	34.4	11.8	75	0.1	28.6	12.1	390	3.29	8.0	1.4	2.3	6.3	27	<0.1	0.7	0.2	66	0.35	0.039
124289	Soil	1.5	19.9	18.0	50	0.1	21.1	5.5	217	1.55	5.2	2.0	2.5	5.6	70	0.1	0.4	0.2	29	0.54	0.038
124290	Soil	1.0	36.7	10.5	77	0.1	29.9	10.9	343	3.18	6.9	1.3	4.3	6.7	23	0.1	0.8	0.2	63	0.31	0.040
124291	Soil	0.9	36.6	12.8	72	0.1	29.2	11.5	355	3.17	7.2	1.7	3.2	6.3	27	<0.1	0.7	0.2	66	0.37	0.042
124292	Soil	1.1	42.9	12.7	79	0.1	30.8	12.6	420	3.42	7.4	1.6	3.1	6.4	31	0.1	0.7	0.3	69	0.41	0.044
124293	Soil	1.3	39.8	15.3	78	0.2	33.5	11.7	375	3.22	8.9	2.8	2.6	6.2	31	0.1	0.8	0.2	68	0.44	0.044
124294	Soil	1.0	43.1	11.2	74	0.2	34.2	12.1	383	3.28	11.3	1.2	4.4	5.1	42	0.1	1.0	0.2	67	0.83	0.046
124295	Soil	0.7	42.8	14.9	93	<0.1	36.5	15.3	415	4.30	6.4	1.4	4.1	10.8	19	<0.1	0.4	0.3	79	0.26	0.029
124296	Soil	1.0	26.6	13.8	77	<0.1	26.9	12.1	297	3.31	8.0	0.9	1.8	6.3	14	<0.1	0.5	0.2	68	0.14	0.018
124297	Soil	1.2	41.2	16.0	86	<0.1	36.6	14.1	479	3.84	10.1	1.3	6.9	7.2	20	<0.1	0.7	0.3	76	0.23	0.026
124298	Soil	1.4	53.3	10.6	77	<0.1	38.4	13.5	360	3.58	7.6	1.7	3.6	6.4	17	<0.1	0.8	0.2	79	0.15	0.029
124299	Soil	1.3	50.7	10.0	83	0.3	36.3	10.3	191	3.19	7.7	1.4	4.4	5.6	17	<0.1	1.5	0.2	81	0.12	0.050
124300	Soil	1.0	20.2	9.5	51	0.1	21.9	7.8	258	2.69	17.1	0.7	2.1	4.4	17	<0.1	0.5	0.2	58	0.17	0.024
124301	Soil	1.1	37.0	11.4	78	0.3	32.8	12.4	588	3.37	7.1	1.3	3.8	5.2	19	<0.1	0.5	0.2	83	0.18	0.032
124302	Soil	1.0	43.9	11.7	71	0.2	33.2	11.4	376	3.27	10.5	1.5	5.9	5.9	21	<0.1	0.7	0.2	71	0.20	0.021
124303	Soil	1.1	49.4	12.4	97	0.1	38.6	12.0	253	3.81	6.9	1.7	6.7	6.2	11	<0.1	0.6	0.3	98	0.08	0.045
124304	Soil	1.3	34.7	13.0	101	0.1	30.3	7.9	115	3.09	3.6	1.5	3.4	8.7	9	<0.1	0.4	0.3	68	0.06	0.040
124305	Soil	1.3	27.2	10.9	103	0.3	32.8	10.8	372	3.67	6.2	1.2	3.1	7.0	12	<0.1	0.4	0.3	74	0.10	0.035
124306	Soil	1.5	25.1	12.2	88	0.4	28.2	15.5	368	3.51	10.1	0.7	3.1	5.0	11	0.1	0.5	0.2	77	0.09	0.042
124307	Soil	1.5	21.7	15.0	71	0.3	20.9	11.8	359	4.13	12.2	0.6	1.3	3.9	15	0.1	0.5	0.4	97	0.11	0.071
124308	Soil	1.3	53.6	11.5	100	0.1	34.3	10.1	215	4.10	6.5	1.4	14.9	5.2	18	<0.1	0.5	0.6	100	0.13	0.038
124309	Soil	1.7	62.7	17.4	134	<0.1	46.4	15.2	251	5.06	3.7	1.2	3.3	4.5	11	<0.1	0.4	0.3	136	0.07	0.039

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
129271	Soil	20	37	0.59	273	0.171	<1	1.73	0.011	0.42	0.2	0.04	4.7	0.3	<0.05	6	<0.5	<0.2
129272	Soil	18	39	0.63	323	0.164	<1	1.89	0.012	0.39	0.1	0.05	4.9	0.3	<0.05	6	<0.5	<0.2
145444	Soil	76	24	0.51	214	0.194	<1	1.73	0.007	0.66	0.2	<0.01	5.5	0.6	<0.05	7	0.6	<0.2
145445	Soil	16	38	0.55	278	0.183	<1	1.91	0.011	0.68	0.1	0.02	5.3	0.5	<0.05	7	0.5	<0.2
145446	Soil	20	26	0.43	249	0.119	<1	1.35	0.010	0.34	0.2	0.02	4.2	0.3	<0.05	5	<0.5	<0.2
145447	Soil	10	28	0.52	218	0.166	<1	1.58	0.007	0.59	<0.1	<0.01	2.5	0.5	<0.05	6	<0.5	<0.2
145448	Soil	30	29	0.60	256	0.140	<1	1.72	0.009	0.55	<0.1	<0.01	3.1	0.5	<0.05	5	<0.5	<0.2
145449	Soil	46	40	0.73	455	0.176	<1	2.00	0.012	0.69	0.1	0.01	4.1	0.4	<0.05	7	0.6	<0.2
124288	Soil	19	43	0.69	316	0.169	<1	2.04	0.012	0.32	0.1	0.04	5.0	0.3	<0.05	7	<0.5	<0.2
124289	Soil	23	27	0.35	285	0.011	2	1.27	0.012	0.07	<0.1	0.04	3.4	0.1	<0.05	4	<0.5	<0.2
124290	Soil	19	45	0.69	329	0.178	1	1.83	0.012	0.45	0.2	0.05	5.4	0.3	<0.05	7	<0.5	<0.2
124291	Soil	19	43	0.64	332	0.174	1	1.94	0.014	0.37	0.1	0.04	5.2	0.3	<0.05	6	<0.5	<0.2
124292	Soil	20	49	0.73	380	0.187	1	2.23	0.014	0.47	0.2	0.04	6.2	0.3	<0.05	7	0.6	<0.2
124293	Soil	19	44	0.65	366	0.156	1	1.95	0.016	0.25	0.2	0.04	5.3	0.2	<0.05	6	<0.5	<0.2
124294	Soil	17	38	0.65	380	0.142	2	1.80	0.018	0.19	0.2	0.06	4.8	0.2	<0.05	6	<0.5	<0.2
124295	Soil	30	67	1.19	334	0.281	<1	3.03	0.010	1.16	0.2	0.02	8.6	0.7	<0.05	11	<0.5	<0.2
124296	Soil	17	44	0.70	210	0.204	1	2.04	0.009	0.39	0.1	0.01	4.3	0.3	<0.05	7	<0.5	<0.2
124297	Soil	20	53	0.82	299	0.237	<1	2.29	0.013	0.58	0.2	0.05	6.9	0.4	<0.05	8	<0.5	<0.2
124298	Soil	18	49	0.69	268	0.198	<1	1.84	0.009	0.48	0.1	0.03	7.2	0.4	<0.05	7	0.7	<0.2
124299	Soil	17	43	0.56	272	0.199	<1	1.73	0.007	0.58	0.1	0.08	5.1	0.5	<0.05	7	0.7	<0.2
124300	Soil	13	31	0.48	245	0.079	<1	1.65	0.008	0.10	0.1	0.02	3.1	0.1	<0.05	5	<0.5	<0.2
124301	Soil	15	48	0.67	289	0.179	<1	2.16	0.008	0.29	0.2	0.02	4.6	0.3	<0.05	6	<0.5	<0.2
124302	Soil	18	39	0.62	321	0.139	1	1.90	0.013	0.22	0.1	0.05	6.4	0.2	<0.05	5	<0.5	<0.2
124303	Soil	18	55	0.74	250	0.232	<1	2.40	0.008	0.66	0.1	0.05	6.0	0.5	<0.05	7	0.5	<0.2
124304	Soil	26	37	0.52	185	0.180	2	1.89	0.006	0.54	<0.1	0.02	4.3	0.5	<0.05	7	0.5	<0.2
124305	Soil	21	41	0.62	217	0.196	1	2.52	0.008	0.55	0.1	0.03	4.7	0.5	<0.05	8	<0.5	<0.2
124306	Soil	12	42	0.55	220	0.112	1	2.40	0.008	0.19	0.1	0.03	3.2	0.2	<0.05	7	<0.5	<0.2
124307	Soil	12	44	0.63	204	0.165	1	2.01	0.008	0.35	0.1	0.02	3.3	0.3	<0.05	8	<0.5	<0.2
124308	Soil	16	58	0.85	258	0.267	1	2.32	0.010	0.60	0.1	0.08	7.3	0.5	<0.05	8	1.1	0.2
124309	Soil	12	81	1.10	279	0.387	<1	3.15	0.009	1.17	0.1	0.01	7.0	0.8	<0.05	11	1.2	<0.2

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 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
124310	Soil		1.2	45.4	13.6	91	0.1	31.1	11.0	281	3.45	5.6	1.9	5.4	7.4	14	<0.1	0.5	0.2	78	0.11	0.033
124311	Soil		1.3	32.2	9.9	74	0.2	25.6	11.7	766	3.35	5.9	1.2	1.8	5.4	12	<0.1	1.1	0.3	65	0.11	0.071
124312	Soil		1.6	46.4	14.4	81	0.3	35.5	14.0	296	3.66	8.0	1.4	2.1	4.9	15	0.1	1.1	0.3	87	0.11	0.043
124313	Soil		1.1	36.9	10.7	69	0.1	26.0	11.4	238	3.32	6.5	1.4	4.0	5.6	17	<0.1	0.7	0.2	74	0.16	0.022
124314	Soil		1.2	34.5	12.8	79	<0.1	30.7	13.1	282	4.09	7.0	1.0	2.4	7.4	15	<0.1	0.7	0.3	74	0.12	0.026
124315	Soil		1.0	24.0	10.3	65	<0.1	23.3	10.0	206	3.08	6.0	1.1	2.2	6.7	13	<0.1	0.7	0.2	64	0.14	0.022
124316	Soil		1.0	36.4	12.6	83	<0.1	27.9	12.1	394	3.35	5.3	1.5	2.5	8.1	19	0.1	0.6	0.2	66	0.22	0.033
124317	Soil		0.8	37.6	13.0	80	<0.1	29.0	12.2	297	3.32	6.4	1.4	2.3	6.9	22	<0.1	0.7	0.2	70	0.25	0.040
124318	Soil		1.0	36.4	12.3	77	<0.1	27.8	12.3	339	3.25	6.7	1.3	3.8	6.3	22	0.1	0.7	0.2	66	0.28	0.043
124319	Soil		1.0	35.5	11.8	77	<0.1	27.1	12.7	321	3.24	6.5	1.2	2.4	6.7	22	<0.1	0.7	0.2	66	0.27	0.040
124320	Soil		1.2	27.5	11.5	58	<0.1	23.7	11.9	425	2.74	7.2	1.4	1.5	5.5	26	<0.1	0.6	0.2	55	0.35	0.049
124321	Soil		1.1	30.3	12.2	69	0.1	26.7	10.9	373	2.94	7.9	1.3	2.0	5.8	24	<0.1	1.0	0.2	57	0.31	0.048
106559	Soil		0.4	31.4	8.1	125	<0.1	37.1	14.4	1013	4.76	2.0	2.3	1.9	14.0	18	0.2	0.4	0.2	51	0.09	0.023
106560	Soil		2.0	61.8	7.9	173	<0.1	79.8	14.7	522	3.30	8.2	1.6	4.6	6.3	23	0.3	1.0	0.2	109	0.14	0.040
106561	Soil		2.4	54.9	13.9	178	<0.1	88.4	10.9	316	3.57	12.8	1.1	0.7	5.2	12	0.4	1.5	0.2	152	0.07	0.025
106562	Soil		0.9	28.5	18.3	253	<0.1	20.9	8.1	372	2.88	6.2	1.6	2.3	9.7	18	0.2	0.5	0.2	46	0.17	0.023
106563	Soil		1.4	24.0	15.5	113	0.1	27.2	14.2	694	3.19	10.8	0.8	2.6	5.6	16	0.4	0.7	0.2	65	0.14	0.056
106564	Soil		2.1	59.3	13.2	159	0.2	65.5	10.6	327	4.28	3.6	1.2	2.5	5.0	15	0.3	0.7	0.2	137	0.10	0.047
106565	Soil		1.3	35.1	9.8	67	0.3	39.8	9.7	262	2.87	9.5	0.6	5.4	3.8	20	0.2	0.7	0.2	73	0.20	0.044
106566	Soil		1.9	47.0	14.5	93	0.2	49.2	12.9	345	3.47	9.1	2.6	5.0	8.3	22	0.1	0.9	0.2	82	0.21	0.027
106567	Soil		1.8	58.0	11.1	92	<0.1	61.7	15.1	296	4.55	4.8	1.0	3.6	3.4	18	<0.1	0.5	0.2	105	0.24	0.066
106568	Soil		1.4	57.6	11.5	93	0.1	183.3	19.7	336	4.73	11.8	0.9	8.0	3.3	18	<0.1	0.5	0.3	95	0.35	0.095
106569	Soil		1.4	59.7	11.6	78	<0.1	150.8	18.0	261	4.55	7.3	1.1	6.7	3.8	21	0.1	0.5	0.3	98	0.34	0.098
106570	Soil		1.2	37.2	17.0	115	0.1	55.7	14.1	543	4.03	3.4	2.2	9.9	15.5	16	0.2	0.4	0.3	47	0.13	0.037
106571	Soil		1.8	34.0	11.1	70	<0.1	29.9	13.4	349	2.64	4.0	1.5	3.6	7.9	15	0.2	0.4	0.2	56	0.21	0.027
106572	Soil		1.2	37.5	22.8	63	0.2	28.5	9.7	188	1.98	5.0	2.5	2.7	14.0	25	0.1	0.5	0.4	54	0.37	0.029
106573	Soil		1.1	35.5	13.4	56	0.1	35.8	11.8	352	2.73	8.4	2.3	2.8	6.4	27	<0.1	0.5	0.2	59	0.37	0.042
106574	Soil		0.9	29.5	5.0	74	<0.1	22.7	18.4	656	4.70	2.4	1.4	3.6	4.4	44	0.4	0.5	0.2	81	0.11	0.072
106575	Soil		0.6	91.9	8.1	203	<0.1	72.5	19.2	465	4.83	2.4	2.3	7.2	5.0	57	0.3	0.7	0.2	128	0.27	0.107
106576	Soil		0.5	60.7	8.3	98	0.5	55.9	15.2	565	3.62	5.2	1.0	14.3	4.8	28	0.3	0.7	0.2	85	0.56	0.100

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Project: Montana
 Report Date: September 16, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
124310	Soil	21	44	0.57	223	0.200	1	1.87	0.007	0.48	0.1	0.04	6.3	0.4	<0.05	7	1.0	<0.2
124311	Soil	14	34	0.48	220	0.142	<1	1.63	0.006	0.44	0.2	0.03	4.6	0.3	<0.05	6	<0.5	<0.2
124312	Soil	17	49	0.63	261	0.179	2	2.12	0.009	0.40	0.1	0.04	4.9	0.4	<0.05	8	<0.5	<0.2
124313	Soil	17	44	0.68	258	0.187	<1	1.95	0.010	0.34	0.1	0.03	5.2	0.3	<0.05	7	<0.5	<0.2
124314	Soil	20	52	0.86	215	0.244	<1	2.64	0.010	0.70	0.2	0.03	5.6	0.5	<0.05	9	0.6	<0.2
124315	Soil	19	38	0.58	176	0.171	1	1.79	0.008	0.30	0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
124316	Soil	25	44	0.71	297	0.220	1	2.23	0.010	0.66	0.1	0.03	6.0	0.4	<0.05	8	<0.5	<0.2
124317	Soil	21	46	0.75	308	0.212	1	2.11	0.013	0.57	0.2	0.03	5.9	0.4	<0.05	8	0.5	<0.2
124318	Soil	19	45	0.69	302	0.196	<1	1.96	0.012	0.54	0.2	0.04	5.6	0.3	<0.05	7	<0.5	<0.2
124319	Soil	20	44	0.69	296	0.198	1	2.06	0.012	0.51	0.1	0.04	5.6	0.3	<0.05	7	0.6	<0.2
124320	Soil	19	34	0.49	273	0.127	1	1.55	0.010	0.24	0.3	0.04	4.3	0.2	<0.05	5	0.8	<0.2
124321	Soil	18	36	0.56	297	0.145	1	1.74	0.012	0.32	0.5	0.04	4.7	0.3	<0.05	6	0.6	<0.2
106559	Soil	27	52	0.84	651	0.285	<1	2.07	0.007	1.14	0.3	0.07	7.6	0.8	<0.05	10	<0.5	<0.2
106560	Soil	17	92	0.99	1085	0.162	<1	1.61	0.007	0.73	0.1	0.04	7.0	0.6	<0.05	8	1.0	<0.2
106561	Soil	17	123	1.48	814	0.227	<1	2.47	0.007	0.62	<0.1	<0.01	8.2	0.7	<0.05	10	1.3	<0.2
106562	Soil	27	29	0.45	505	0.115	1	1.41	0.008	0.30	0.2	0.05	6.8	0.3	<0.05	6	0.6	<0.2
106563	Soil	16	41	0.54	548	0.103	1	1.83	0.007	0.21	0.2	0.03	3.6	0.2	<0.05	7	<0.5	<0.2
106564	Soil	16	131	1.29	1987	0.232	<1	2.22	0.010	0.95	0.2	0.02	7.9	0.6	0.11	8	1.9	<0.2
106565	Soil	12	66	0.69	1239	0.103	<1	1.77	0.009	0.14	0.1	0.03	3.6	0.2	<0.05	5	0.5	<0.2
106566	Soil	23	70	0.81	1496	0.160	1	2.02	0.013	0.35	0.1	0.06	6.8	0.4	<0.05	7	1.0	<0.2
106567	Soil	11	67	0.99	671	0.239	<1	2.30	0.011	1.03	0.1	0.03	6.9	0.6	<0.05	8	0.8	<0.2
106568	Soil	10	101	1.07	518	0.204	<1	2.42	0.009	0.82	<0.1	0.03	6.5	0.6	<0.05	8	0.8	<0.2
106569	Soil	13	82	0.96	535	0.197	1	2.24	0.012	0.83	0.1	0.03	7.1	0.5	<0.05	8	1.1	<0.2
106570	Soil	35	43	0.63	463	0.189	<1	1.69	0.006	0.84	0.2	0.05	6.4	0.5	<0.05	8	1.0	<0.2
106571	Soil	21	20	0.19	269	0.028	1	0.70	0.005	0.08	<0.1	0.05	9.8	0.2	<0.05	4	0.5	<0.2
106572	Soil	25	18	0.17	300	0.025	1	0.70	0.005	0.06	<0.1	0.11	9.1	0.1	<0.05	4	0.9	<0.2
106573	Soil	19	34	0.47	433	0.069	1	1.48	0.013	0.07	<0.1	0.06	6.6	0.1	<0.05	5	0.9	<0.2
106574	Soil	12	25	0.18	441	0.038	<1	0.77	0.003	0.15	<0.1	0.03	14.4	0.2	<0.05	6	<0.5	<0.2
106575	Soil	18	90	0.69	970	0.144	1	1.67	0.005	0.41	<0.1	0.02	12.7	0.8	<0.05	12	1.3	<0.2
106576	Soil	20	74	0.60	586	0.079	1	1.61	0.010	0.37	0.1	0.09	8.6	0.2	<0.05	7	1.2	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
106577	Soil	1.0	64.3	6.5	93	0.2	56.0	16.0	683	3.41	5.9	1.1	12.2	3.5	45	0.2	0.8	0.2	81	1.15	0.027
106578	Soil	1.0	38.0	6.2	93	<0.1	46.9	15.3	486	3.36	3.0	1.4	3.7	4.7	26	0.2	0.4	0.2	68	0.20	0.042
106579	Soil	1.4	30.3	9.7	62	<0.1	30.9	8.3	284	2.15	4.4	1.2	3.5	6.0	23	0.2	0.4	0.2	44	0.19	0.024
106580	Soil	1.4	34.1	7.4	62	<0.1	40.9	7.0	237	2.16	5.4	1.1	6.9	4.9	18	0.1	0.6	0.2	43	0.14	0.020
106581	Soil	1.7	48.9	10.7	126	<0.1	80.9	13.6	182	4.59	2.4	1.0	2.2	2.8	16	0.1	0.2	0.2	112	0.23	0.038
106582	Soil	2.6	51.1	10.2	79	0.2	62.8	9.5	213	2.71	11.6	0.8	2.3	4.2	18	0.1	0.6	0.2	79	0.11	0.021
106583	Soil	1.2	33.2	8.9	69	0.1	31.1	7.8	268	2.98	6.5	0.9	2.5	3.5	15	<0.1	0.4	0.2	65	0.20	0.021
106584	Soil	1.5	50.5	11.4	86	<0.1	58.0	13.3	252	4.47	4.2	0.9	4.4	2.8	14	<0.1	0.4	0.3	124	0.21	0.045
106585	Soil	1.4	54.4	12.1	97	<0.1	60.7	13.7	228	4.79	2.8	0.8	5.7	2.7	13	<0.1	0.3	0.2	127	0.21	0.050
106586	Soil	1.6	62.2	12.2	113	<0.1	74.4	16.6	296	5.25	3.9	0.9	6.0	2.2	11	<0.1	0.4	0.3	140	0.20	0.045
106587	Soil	1.4	37.8	9.9	68	0.1	45.5	11.2	214	3.27	7.4	0.7	3.8	2.8	14	<0.1	0.5	0.2	86	0.19	0.035
106588	Soil	1.7	46.0	9.4	68	<0.1	63.5	12.9	206	4.24	4.9	0.9	3.8	3.0	14	<0.1	0.4	0.2	102	0.18	0.041
106589	Soil	1.7	44.1	11.6	131	<0.1	57.1	13.0	395	4.13	4.4	1.5	8.0	8.9	14	0.2	1.0	0.2	86	0.15	0.024
106590	Soil	1.8	43.5	9.7	104	0.2	62.0	13.2	531	3.83	6.4	1.0	7.6	5.6	14	0.2	1.0	0.2	91	0.13	0.020
106591	Soil	1.3	29.2	9.9	61	0.2	41.0	10.0	245	2.95	10.7	0.6	5.0	4.0	14	0.1	1.2	0.2	70	0.13	0.014
106592	Soil	2.6	69.4	11.9	130	0.3	29.6	6.4	514	3.82	12.5	1.5	3.1	5.0	25	0.1	3.3	0.2	101	0.12	0.042
106593	Soil	0.8	32.3	10.5	196	<0.1	22.6	8.7	766	3.15	4.8	1.3	3.3	11.1	9	0.2	0.6	0.1	36	0.11	0.019
106594	Soil	2.2	52.2	8.3	157	0.1	29.2	7.7	317	2.77	8.2	1.2	2.6	5.7	11	<0.1	0.8	0.1	49	0.07	0.024
106595	Soil	0.5	33.9	9.2	38	<0.1	14.8	4.8	147	1.95	2.6	1.4	4.4	9.5	15	<0.1	0.2	0.3	26	0.06	0.018
106596	Soil	1.0	22.9	9.0	59	<0.1	24.5	10.0	285	2.64	6.8	0.9	5.0	4.0	17	<0.1	0.4	0.1	64	0.16	0.015
102597	Soil	0.8	32.3	11.2	95	<0.1	24.8	7.6	323	2.35	3.9	1.2	2.8	4.5	22	0.2	0.4	0.1	58	0.14	0.018
106598	Soil	0.8	23.6	8.5	66	0.1	19.4	5.7	211	2.24	4.2	0.9	3.3	3.7	19	<0.1	0.4	0.1	50	0.15	0.019
106599	Soil	1.0	31.1	8.0	79	0.2	25.5	7.0	315	2.53	5.3	1.3	5.6	4.8	19	0.1	0.5	0.1	54	0.19	0.032
106600	Soil	1.1	24.9	10.3	64	<0.1	23.7	7.8	272	2.15	5.6	1.2	5.9	4.8	19	0.1	0.5	0.2	42	0.19	0.026
106601	Soil	1.2	28.3	10.3	57	0.1	24.0	6.8	223	2.06	5.8	1.2	7.6	5.0	20	<0.1	0.5	0.2	42	0.24	0.032
106602	Soil	1.1	22.2	9.5	59	0.1	23.4	7.2	226	2.05	5.2	0.8	5.2	4.4	18	<0.1	0.6	0.2	43	0.23	0.044
106603	Soil	1.1	21.2	10.2	58	0.1	22.7	7.4	252	2.55	6.4	1.0	4.6	4.6	19	<0.1	0.5	0.1	53	0.29	0.042
106604	Soil	0.9	24.2	10.2	54	<0.1	19.0	6.9	254	2.33	4.4	1.2	4.0	5.4	21	<0.1	0.4	0.2	42	0.24	0.031
106605	Soil	1.3	28.5	12.3	72	0.3	29.6	11.4	393	2.64	6.8	1.1	4.0	4.2	20	0.2	0.6	0.2	63	0.28	0.051
106606	Soil	0.8	25.1	8.9	52	0.1	21.2	6.6	265	2.08	4.7	1.4	3.9	5.1	20	<0.1	0.4	0.2	43	0.28	0.032

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
106577	Soil	9	34	0.43	604	0.074	2	1.14	0.010	0.22	0.1	0.06	5.3	0.3	0.05	6	0.5	<0.2
106578	Soil	12	41	0.41	674	0.099	1	1.15	0.006	0.30	<0.1	0.03	4.8	0.2	<0.05	7	<0.5	<0.2
106579	Soil	14	25	0.26	414	0.043	1	0.83	0.006	0.11	<0.1	0.03	3.6	0.2	<0.05	4	<0.5	<0.2
106580	Soil	14	29	0.27	559	0.050	<1	0.84	0.006	0.07	<0.1	0.05	3.6	0.1	<0.05	3	<0.5	<0.2
106581	Soil	12	68	0.94	722	0.272	<1	2.28	0.014	0.68	<0.1	<0.01	4.5	0.6	<0.05	8	0.5	<0.2
106582	Soil	10	126	0.56	1020	0.100	<1	1.61	0.003	0.18	0.1	0.01	3.5	0.3	<0.05	5	1.2	<0.2
106583	Soil	10	36	0.66	401	0.141	<1	1.50	0.012	0.35	<0.1	0.02	3.1	0.3	<0.05	5	0.5	<0.2
106584	Soil	9	70	0.90	663	0.285	<1	2.26	0.011	1.02	<0.1	0.02	5.0	0.6	<0.05	8	0.6	<0.2
106585	Soil	7	73	1.02	697	0.301	<1	2.46	0.015	1.08	<0.1	0.02	5.4	0.6	0.06	9	0.6	<0.2
106586	Soil	12	84	1.17	726	0.319	<1	2.69	0.008	1.14	0.1	0.02	6.0	0.7	<0.05	9	0.8	<0.2
106587	Soil	9	48	0.73	496	0.170	<1	1.87	0.010	0.40	0.1	<0.01	2.9	0.3	<0.05	6	<0.5	<0.2
106588	Soil	12	60	0.86	531	0.201	<1	2.17	0.010	0.70	0.1	<0.01	3.9	0.5	0.06	7	0.5	<0.2
106589	Soil	29	59	0.91	981	0.248	<1	2.01	0.005	0.70	<0.1	0.04	4.9	0.9	0.07	8	1.0	<0.2
106590	Soil	19	84	0.73	1235	0.162	<1	2.15	0.005	0.27	0.1	0.04	4.3	0.4	0.06	7	0.6	<0.2
106591	Soil	10	47	0.53	529	0.093	<1	1.97	0.007	0.09	0.1	0.04	2.7	0.2	<0.05	5	<0.5	<0.2
106592	Soil	26	55	0.98	621	0.200	<1	1.82	0.007	0.65	0.1	0.04	4.5	1.9	0.28	7	1.1	<0.2
106593	Soil	28	24	0.46	329	0.155	<1	1.58	0.005	0.53	0.1	0.10	8.0	0.6	<0.05	8	<0.5	<0.2
106594	Soil	18	33	0.63	459	0.122	<1	1.60	0.005	0.23	<0.1	0.02	2.6	0.6	0.10	5	0.7	<0.2
106595	Soil	17	15	0.10	177	0.022	<1	0.60	0.003	0.09	<0.1	0.03	2.3	0.1	<0.05	3	<0.5	<0.2
106596	Soil	13	36	0.41	334	0.068	<1	1.73	0.009	0.06	0.1	0.01	2.6	0.1	<0.05	5	<0.5	<0.2
102597	Soil	12	28	0.29	363	0.088	<1	0.92	0.010	0.14	<0.1	0.03	2.8	0.2	<0.05	4	<0.5	<0.2
106598	Soil	13	28	0.35	324	0.085	<1	1.28	0.008	0.10	0.1	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
106599	Soil	16	33	0.47	383	0.095	<1	1.43	0.010	0.13	0.1	0.06	3.1	0.2	<0.05	5	<0.5	<0.2
106600	Soil	16	26	0.30	435	0.060	<1	1.05	0.006	0.07	<0.1	0.04	3.4	0.1	<0.05	4	<0.5	<0.2
106601	Soil	17	28	0.31	479	0.062	<1	1.01	0.007	0.07	<0.1	0.05	3.4	0.1	<0.05	4	<0.5	<0.2
106602	Soil	14	28	0.34	512	0.067	<1	1.03	0.007	0.11	<0.1	0.04	3.0	0.2	<0.05	4	<0.5	<0.2
106603	Soil	16	35	0.43	569	0.081	<1	1.45	0.010	0.08	<0.1	0.04	3.2	0.1	<0.05	5	<0.5	<0.2
106604	Soil	15	24	0.31	463	0.051	<1	1.00	0.008	0.06	<0.1	0.05	4.8	0.1	<0.05	4	<0.5	<0.2
106605	Soil	16	36	0.44	663	0.075	<1	1.56	0.010	0.11	<0.1	0.05	3.6	0.2	<0.05	6	<0.5	<0.2
106606	Soil	16	28	0.36	490	0.058	<1	1.23	0.012	0.06	<0.1	0.05	3.9	0.1	<0.05	4	<0.5	<0.2

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Project: Montana
 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

WHI11001143.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
106607	Soil	0.9	24.5	9.8	56	<0.1	18.4	8.4	325	2.08	2.8	1.5	2.3	6.1	21	<0.1	0.3	0.2	45	0.23	0.022
106608	Soil	0.8	23.3	8.5	51	0.1	18.3	6.5	183	1.81	3.2	1.2	2.4	5.0	21	0.1	0.3	0.2	42	0.30	0.030
106609	Soil	0.7	22.9	11.0	54	<0.1	13.7	9.0	264	2.33	2.3	1.3	1.8	6.8	18	<0.1	0.2	0.2	47	0.24	0.026
106610	Soil	0.9	23.3	9.3	55	0.1	18.8	8.7	285	2.13	3.7	1.4	2.2	5.1	22	<0.1	0.3	0.2	46	0.31	0.030
106611	Soil	0.6	21.9	5.4	70	<0.1	22.2	12.5	474	4.83	1.7	1.0	2.3	4.3	11	<0.1	0.3	0.1	99	0.15	0.019
106612	Soil	0.8	14.3	7.0	52	<0.1	14.9	7.9	276	2.79	3.4	0.8	1.1	3.6	15	<0.1	0.3	0.1	66	0.24	0.025
106613	Soil	2.0	62.3	7.0	141	<0.1	69.9	15.0	1189	4.81	3.7	1.3	2.6	3.5	13	0.3	0.7	0.2	97	0.10	0.021
106614	Soil	0.4	21.7	4.5	60	0.1	16.7	15.2	672	4.48	1.5	0.5	1.8	2.6	16	<0.1	0.1	<0.1	89	0.96	0.044
106615	Soil	0.8	31.9	9.5	66	<0.1	25.1	9.5	405	3.21	2.7	1.7	3.8	6.2	18	<0.1	0.3	0.2	98	0.20	0.017
106616	Soil	0.8	24.6	8.4	48	<0.1	18.6	6.7	195	2.02	3.2	1.4	2.4	6.2	21	<0.1	0.3	0.2	44	0.29	0.028
106617	Soil	0.9	23.6	9.6	56	<0.1	19.5	7.8	235	2.24	5.0	1.1	2.8	5.1	26	0.1	0.4	0.2	44	0.35	0.034
106618	Soil	0.5	28.6	10.2	44	<0.1	7.8	7.9	170	1.55	0.5	1.6	1.3	7.2	19	0.1	0.2	0.2	41	0.40	0.011
106619	Soil	1.2	29.5	13.1	62	0.1	19.7	11.1	446	2.65	2.7	1.3	3.0	7.1	28	0.1	0.3	0.2	59	0.32	0.026
106620	Soil	1.0	30.1	12.7	60	0.2	21.4	8.7	303	2.42	3.1	1.5	3.0	7.1	31	0.1	0.3	0.2	46	0.34	0.025
106621	Soil	1.4	33.5	10.8	82	0.2	37.3	10.2	393	2.97	8.2	1.0	3.8	4.8	27	0.1	0.6	0.2	69	0.42	0.051
106622	Soil	1.3	29.7	12.0	74	0.1	31.7	8.0	237	2.44	5.8	1.0	2.7	5.7	22	0.1	0.6	0.2	53	0.27	0.034
106623	Soil	1.5	43.6	12.4	137	0.2	52.4	10.5	306	3.45	7.0	1.0	3.7	5.6	22	0.2	0.6	0.2	88	0.31	0.050
106624	Soil	1.7	48.2	8.2	125	0.2	73.0	12.2	363	3.42	5.2	1.0	2.6	3.7	21	0.2	0.8	0.1	97	0.27	0.044
106625	Soil	1.3	30.7	12.4	92	<0.1	40.1	11.0	310	3.29	6.7	1.0	3.7	6.2	15	0.1	0.6	0.2	80	0.21	0.021
106626	Soil	1.1	20.4	16.9	94	0.2	26.3	8.3	291	2.97	5.7	0.9	2.0	6.4	15	0.2	0.5	0.2	65	0.18	0.025
106627	Soil	1.5	31.1	8.3	79	0.2	28.4	10.2	463	2.76	8.4	1.2	4.9	5.2	16	0.1	0.8	0.1	50	0.13	0.032
106628	Soil	1.2	38.0	9.1	77	<0.1	36.9	9.1	344	2.87	7.7	1.2	3.0	5.2	26	0.1	0.7	0.2	67	0.24	0.022
106629	Soil	1.0	36.6	8.4	78	0.1	30.3	8.7	324	2.94	6.1	1.1	3.4	5.0	22	0.1	0.5	0.2	67	0.18	0.028
106630	Soil	1.3	44.2	8.2	100	<0.1	42.8	11.6	459	2.99	5.7	1.3	2.4	5.1	22	0.1	0.5	0.2	69	0.15	0.024
106631	Soil	2.6	40.9	9.0	130	0.3	26.3	6.9	307	2.91	10.4	1.4	5.3	6.4	12	<0.1	1.7	0.2	61	0.10	0.026
132012	Soil	0.8	37.4	9.5	82	0.2	43.5	10.4	472	3.01	5.3	1.3	4.2	4.4	27	0.1	0.4	0.2	75	1.03	0.046
132013	Soil	0.8	30.2	8.5	75	0.2	32.4	10.1	474	2.75	5.2	1.1	2.3	3.8	31	0.2	0.6	0.2	64	1.17	0.048
132014	Soil	5.1	60.7	6.7	75	0.2	44.7	13.8	420	4.65	2.2	0.6	9.0	2.6	25	<0.1	0.2	0.3	154	0.39	0.027
132015	Soil	1.1	25.2	9.5	63	<0.1	22.5	8.3	283	2.84	5.7	1.3	1.9	6.6	17	<0.1	0.5	0.2	60	0.24	0.041
132016	Soil	1.1	18.2	8.0	59	<0.1	19.8	7.5	188	2.71	6.0	0.8	2.6	5.3	15	<0.1	0.4	0.2	58	0.19	0.036

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Project: Montana
 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

WHI11001143.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
106607	Soil	15	23	0.24	381	0.036	<1	0.92	0.006	0.06	<0.1	0.05	5.6	0.2	<0.05	5	<0.5	<0.2
106608	Soil	16	22	0.27	391	0.045	1	0.97	0.008	0.06	<0.1	0.04	4.4	0.1	<0.05	4	<0.5	<0.2
106609	Soil	18	17	0.18	302	0.027	<1	0.81	0.005	0.07	<0.1	0.04	6.6	0.1	<0.05	5	<0.5	<0.2
106610	Soil	16	24	0.31	380	0.045	<1	1.09	0.009	0.06	<0.1	0.04	5.3	0.1	<0.05	5	<0.5	<0.2
106611	Soil	11	33	0.29	234	0.053	<1	0.99	0.005	0.17	<0.1	0.02	8.2	0.2	<0.05	5	<0.5	<0.2
106612	Soil	12	26	0.31	237	0.054	<1	1.04	0.006	0.10	<0.1	<0.01	4.0	0.1	<0.05	5	<0.5	<0.2
106613	Soil	8	98	0.23	328	0.027	<1	0.84	0.003	0.08	0.1	0.04	6.3	0.1	<0.05	4	0.6	<0.2
106614	Soil	10	23	1.00	296	0.007	1	2.28	0.006	0.29	<0.1	0.02	9.4	0.1	<0.05	8	<0.5	<0.2
106615	Soil	16	27	0.22	378	0.039	<1	0.87	0.006	0.13	<0.1	0.05	10.7	0.3	<0.05	6	0.5	<0.2
106616	Soil	17	22	0.28	352	0.047	1	1.01	0.011	0.06	<0.1	0.04	4.9	0.1	<0.05	5	<0.5	<0.2
106617	Soil	14	22	0.29	351	0.047	<1	0.92	0.012	0.08	<0.1	0.05	4.6	0.1	<0.05	4	<0.5	<0.2
106618	Soil	16	11	0.08	212	0.010	1	0.46	0.002	0.07	<0.1	0.06	8.0	<0.1	<0.05	4	<0.5	<0.2
106619	Soil	16	23	0.24	396	0.035	1	1.01	0.007	0.10	<0.1	0.06	7.8	0.3	<0.05	6	<0.5	<0.2
106620	Soil	17	24	0.22	417	0.036	1	0.82	0.007	0.09	<0.1	0.07	7.5	0.2	<0.05	5	<0.5	<0.2
106621	Soil	17	43	0.62	697	0.119	1	1.65	0.021	0.20	0.2	0.04	3.4	0.2	<0.05	6	<0.5	<0.2
106622	Soil	13	34	0.42	495	0.091	<1	1.12	0.011	0.20	<0.1	0.04	3.9	0.3	<0.05	5	<0.5	<0.2
106623	Soil	18	68	0.73	749	0.173	<1	1.91	0.017	0.42	0.1	0.05	4.5	0.3	<0.05	7	0.6	<0.2
106624	Soil	13	118	0.99	2196	0.186	<1	1.95	0.013	0.56	0.2	0.02	4.6	0.4	<0.05	7	0.9	<0.2
106625	Soil	18	61	0.68	805	0.157	<1	2.04	0.009	0.25	0.2	0.03	3.8	0.4	<0.05	7	0.6	<0.2
106626	Soil	18	39	0.57	561	0.146	<1	1.90	0.010	0.24	0.1	0.03	3.1	0.3	<0.05	7	<0.5	<0.2
106627	Soil	16	33	0.50	637	0.117	<1	1.43	0.006	0.28	0.1	0.04	2.4	0.5	<0.05	5	<0.5	<0.2
106628	Soil	16	39	0.45	577	0.100	<1	1.53	0.014	0.11	0.1	0.06	4.0	0.2	<0.05	5	<0.5	<0.2
106629	Soil	17	41	0.44	500	0.096	<1	1.48	0.008	0.12	0.1	0.04	3.6	0.2	<0.05	6	<0.5	<0.2
106630	Soil	17	46	0.41	630	0.095	<1	1.32	0.007	0.20	0.1	0.05	4.1	0.2	<0.05	6	<0.5	<0.2
106631	Soil	19	38	0.60	594	0.117	<1	1.61	0.005	0.24	<0.1	0.08	2.9	0.7	0.09	6	0.9	<0.2
132012	Soil	18	52	0.90	546	0.130	1	2.13	0.019	0.25	0.1	0.04	4.3	0.3	<0.05	6	0.8	<0.2
132013	Soil	14	38	0.75	457	0.105	1	1.82	0.019	0.21	0.2	0.05	3.6	0.2	0.07	5	0.8	<0.2
132014	Soil	8	143	2.04	357	0.159	<1	2.55	0.020	0.70	<0.1	0.02	11.7	0.4	0.35	9	1.0	<0.2
132015	Soil	20	30	0.51	205	0.159	<1	1.65	0.015	0.32	0.1	0.03	3.1	0.3	<0.05	5	<0.5	<0.2
132016	Soil	16	29	0.47	159	0.143	<1	1.68	0.011	0.24	0.2	0.03	2.5	0.2	<0.05	6	<0.5	<0.2

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Project: Montana
 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
132017	Soil	1.5	32.7	11.6	69	0.3	28.6	9.2	283	3.26	6.0	1.4	4.6	4.5	25	0.1	0.4	0.2	65	0.30	0.046
132018	Soil	1.1	22.7	8.2	55	<0.1	23.5	8.4	273	2.65	5.8	1.1	4.0	5.9	16	<0.1	0.4	0.2	62	0.24	0.036
132019	Soil	1.6	47.2	10.9	84	0.3	36.6	11.4	417	3.92	7.7	1.7	5.2	5.8	23	0.1	0.5	0.3	85	0.26	0.044
132020	Soil	1.4	20.9	9.5	62	0.3	22.6	7.8	228	2.87	6.8	0.9	2.0	4.0	16	<0.1	0.4	0.2	72	0.19	0.036
132021	Soil	1.3	35.9	8.5	75	0.2	33.2	11.4	469	3.21	6.4	1.2	3.9	4.9	16	<0.1	0.5	0.2	80	0.18	0.050
132022	Soil	1.4	21.8	10.0	70	0.2	24.6	9.2	281	3.19	6.2	1.0	3.6	5.0	15	<0.1	0.4	0.2	72	0.19	0.033
132023	Soil	1.3	20.8	8.6	70	0.1	27.6	8.6	280	2.71	5.4	1.1	3.0	5.3	13	<0.1	0.5	0.2	61	0.16	0.032
132024	Soil	1.1	16.9	9.1	66	0.1	20.5	8.0	321	2.61	4.9	1.0	4.8	5.9	13	<0.1	0.3	0.2	48	0.17	0.042
132025	Soil	1.2	23.4	11.6	75	0.1	30.1	8.1	250	2.95	5.3	1.3	2.8	6.4	16	<0.1	0.4	0.2	69	0.21	0.030
132026	Soil	1.3	21.5	11.7	76	0.1	26.1	8.5	260	2.90	5.1	1.1	2.7	5.3	14	<0.1	0.4	0.2	70	0.19	0.034
132027	Soil	1.2	32.6	11.8	102	0.2	33.5	10.6	301	3.48	4.5	1.7	4.1	7.8	12	<0.1	0.3	0.2	83	0.16	0.037
132028	Soil	1.2	24.0	13.0	75	0.1	25.6	9.3	270	3.00	5.6	1.2	3.2	5.5	11	<0.1	0.4	0.2	72	0.10	0.029
132029	Soil	1.3	18.3	13.3	65	0.2	22.5	10.6	421	3.04	8.2	0.7	1.1	3.6	11	0.1	0.4	0.3	76	0.10	0.075
132030	Soil	1.4	37.7	12.4	100	<0.1	34.7	10.6	254	3.60	6.4	1.1	4.4	4.7	14	0.1	0.5	0.2	82	0.13	0.043
132031	Soil	1.7	30.2	14.5	91	0.1	29.9	9.3	239	3.54	6.3	0.9	4.0	4.1	14	0.1	0.4	0.3	85	0.13	0.038
132032	Soil	1.4	34.9	16.2	85	0.2	31.3	10.5	291	3.34	6.2	1.1	2.7	3.8	14	<0.1	0.4	0.3	83	0.12	0.045
132033	Soil	1.5	33.3	13.7	77	0.3	30.4	10.7	397	3.12	6.4	1.2	1.0	3.3	18	0.2	0.4	0.3	72	0.16	0.055
132034	Soil	1.2	28.6	11.3	71	0.1	25.0	8.9	269	3.02	6.8	1.0	2.0	4.4	14	<0.1	0.5	0.2	66	0.13	0.030
132035	Soil	1.3	34.4	11.6	70	<0.1	25.3	10.7	332	2.89	8.5	1.8	3.1	5.4	21	<0.1	0.6	0.2	61	0.21	0.029
132036	Soil	1.4	24.9	12.6	79	0.2	22.7	14.9	673	3.07	7.6	0.9	1.2	4.2	16	0.1	0.4	0.2	71	0.18	0.098
132037	Soil	1.2	28.3	10.9	72	0.2	24.9	9.4	262	2.92	5.9	1.1	1.7	4.7	17	0.1	0.5	0.2	61	0.16	0.039
132038	Soil	1.1	24.7	11.5	70	0.2	22.2	8.2	237	2.94	7.3	1.3	2.0	4.5	19	<0.1	0.5	0.2	62	0.21	0.043
132039	Soil	1.2	24.8	9.9	68	0.2	23.6	7.4	176	2.80	5.9	1.1	2.1	4.4	15	<0.1	0.5	0.2	54	0.14	0.041
132040	Soil	1.2	26.1	11.5	70	0.1	23.4	8.5	191	2.84	5.5	1.1	2.0	4.6	15	0.1	0.4	0.2	57	0.14	0.041
132041	Soil	0.9	30.2	9.1	59	<0.1	22.6	9.5	246	2.65	5.9	1.5	3.6	5.4	17	<0.1	0.4	0.2	54	0.19	0.038
132042	Soil	1.2	39.6	10.9	117	<0.1	42.1	14.6	449	4.85	4.8	1.9	3.1	13.2	22	<0.1	0.7	0.3	68	0.33	0.070
132043	Soil	1.0	33.5	9.1	68	0.2	25.8	10.4	292	2.86	5.7	1.4	4.8	4.7	22	0.1	0.5	0.2	60	0.26	0.043
132044	Soil	1.2	52.4	10.6	92	0.5	48.2	12.9	722	2.82	2.5	2.8	4.5	5.1	58	0.3	1.3	0.2	68	1.27	0.064
132045	Soil	1.7	43.9	12.5	109	0.2	47.3	11.4	415	3.61	4.0	1.4	0.8	5.7	30	0.1	0.8	0.2	90	0.57	0.058
145451	Soil	1.1	40.1	11.5	80	0.1	41.1	14.6	511	3.55	7.1	1.3	4.1	5.6	31	<0.1	0.8	0.2	78	0.42	0.032

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Project: Montana
 Report Date: September 16, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
132017	Soil	20	35	0.52	318	0.158	<1	2.33	0.016	0.34	0.2	0.05	4.1	0.3	<0.05	8	<0.5	<0.2
132018	Soil	19	31	0.48	186	0.155	<1	1.52	0.013	0.27	0.1	0.03	2.8	0.2	<0.05	5	0.5	<0.2
132019	Soil	21	44	0.69	329	0.197	<1	2.49	0.013	0.45	0.2	0.05	4.8	0.3	<0.05	8	0.5	<0.2
132020	Soil	15	33	0.54	228	0.142	<1	1.78	0.011	0.19	0.1	0.03	2.8	0.2	<0.05	6	<0.5	<0.2
132021	Soil	17	42	0.60	234	0.199	<1	1.78	0.011	0.45	0.1	0.03	3.9	0.4	<0.05	7	<0.5	<0.2
132022	Soil	17	35	0.56	215	0.155	<1	2.12	0.011	0.26	0.1	0.03	2.8	0.2	<0.05	7	<0.5	<0.2
132023	Soil	18	37	0.46	194	0.134	<1	1.58	0.008	0.23	0.1	0.03	2.7	0.2	<0.05	5	<0.5	<0.2
132024	Soil	19	27	0.42	190	0.123	<1	1.48	0.007	0.23	0.1	0.03	2.4	0.2	<0.05	5	<0.5	<0.2
132025	Soil	20	43	0.54	236	0.153	<1	1.69	0.010	0.25	0.1	0.03	2.9	0.2	<0.05	6	<0.5	<0.2
132026	Soil	18	37	0.55	272	0.156	<1	1.74	0.010	0.28	0.2	0.01	2.8	0.3	<0.05	6	<0.5	<0.2
132027	Soil	23	43	0.67	332	0.211	<1	2.08	0.010	0.47	<0.1	0.03	4.1	0.4	<0.05	6	0.6	<0.2
132028	Soil	19	35	0.49	207	0.145	<1	1.86	0.008	0.27	<0.1	0.02	2.7	0.3	<0.05	6	<0.5	<0.2
132029	Soil	12	35	0.50	227	0.110	<1	1.61	0.008	0.20	0.1	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
132030	Soil	14	44	0.65	252	0.185	<1	1.76	0.008	0.39	0.2	0.02	3.7	0.3	<0.05	6	<0.5	<0.2
132031	Soil	13	40	0.63	255	0.178	1	1.81	0.007	0.35	0.2	0.02	3.6	0.3	<0.05	7	0.6	<0.2
132032	Soil	13	42	0.60	240	0.163	1	1.78	0.008	0.37	0.1	0.02	3.5	0.3	<0.05	6	<0.5	<0.2
132033	Soil	15	38	0.47	328	0.113	<1	1.61	0.009	0.22	0.2	0.04	3.3	0.2	<0.05	6	<0.5	<0.2
132034	Soil	13	35	0.53	208	0.139	1	1.46	0.007	0.29	0.1	0.02	3.5	0.2	<0.05	5	0.6	<0.2
132035	Soil	17	38	0.56	287	0.119	<1	1.54	0.008	0.16	0.2	0.05	5.2	0.2	<0.05	5	0.7	<0.2
132036	Soil	13	36	0.56	246	0.137	2	1.58	0.008	0.30	0.2	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
132037	Soil	16	35	0.52	263	0.140	1	1.56	0.009	0.23	0.2	0.03	3.6	0.2	<0.05	5	0.6	<0.2
132038	Soil	18	33	0.49	250	0.122	1	1.64	0.008	0.20	0.2	0.03	3.6	0.2	<0.05	6	<0.5	<0.2
132039	Soil	16	32	0.48	186	0.142	<1	1.55	0.007	0.29	0.1	0.02	3.3	0.2	<0.05	5	<0.5	<0.2
132040	Soil	15	32	0.49	200	0.145	<1	1.52	0.007	0.29	0.2	0.02	3.4	0.2	<0.05	5	<0.5	<0.2
132041	Soil	16	34	0.53	218	0.149	<1	1.40	0.008	0.25	0.2	0.04	4.4	0.2	<0.05	5	<0.5	<0.2
132042	Soil	45	56	1.17	408	0.234	<1	2.78	0.010	1.24	0.2	0.02	7.2	0.6	<0.05	10	0.9	<0.2
132043	Soil	18	38	0.54	263	0.144	<1	1.66	0.011	0.29	0.2	0.04	4.5	0.2	<0.05	6	0.6	<0.2
132044	Soil	49	51	0.97	889	0.115	1	2.00	0.013	0.46	0.2	0.06	6.0	0.4	<0.05	6	2.3	<0.2
132045	Soil	19	60	0.98	609	0.163	<1	2.24	0.013	0.64	0.2	0.03	5.2	0.5	<0.05	7	0.7	<0.2
145451	Soil	19	71	1.13	461	0.142	<1	3.02	0.019	0.25	0.2	0.04	7.8	0.5	<0.05	9	0.7	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			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	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	2	0.01	0.001	
145452	Soil		1.1	29.4	13.3	61	<0.1	24.7	11.0	357	2.81	8.1	1.3	2.7	6.1	21	<0.1	1.1	0.2	59	0.26	0.027
145453	Soil		1.2	47.6	15.5	75	0.2	35.8	23.5	974	3.51	7.2	1.6	1.2	5.9	25	0.1	1.4	0.2	75	0.29	0.036
145454	Soil		0.8	37.7	15.1	61	<0.1	30.3	10.5	308	3.13	9.1	1.6	2.8	6.3	24	<0.1	0.9	0.2	62	0.30	0.027
145455	Soil		1.4	53.6	17.1	117	0.1	54.8	17.6	821	3.85	7.8	1.8	3.1	7.3	24	0.2	1.2	0.2	85	0.29	0.030
145456	Soil		0.9	29.9	11.0	65	<0.1	27.9	12.3	288	3.36	7.3	1.2	1.7	7.0	19	<0.1	0.4	0.2	65	0.24	0.020
145457	Soil		0.8	40.6	14.1	85	<0.1	43.8	16.8	311	4.71	4.0	1.1	2.5	10.5	19	<0.1	0.3	0.3	72	0.23	0.031
125458	Soil		0.6	26.7	20.2	122	<0.1	30.3	11.0	316	3.65	11.8	1.1	0.8	9.3	18	<0.1	0.6	0.2	61	0.20	0.020
145459	Soil		0.7	27.9	19.3	61	<0.1	34.5	15.0	367	3.89	4.3	0.8	<0.5	10.2	10	<0.1	0.3	0.3	58	0.11	0.014
145460	Soil		1.8	51.1	11.8	61	0.2	30.4	9.1	156	3.70	16.1	1.6	0.9	6.3	15	<0.1	23.9	0.3	87	0.13	0.029
145461	Soil		1.4	67.2	13.2	112	<0.1	44.2	11.8	210	4.58	6.8	1.3	4.7	4.2	14	<0.1	3.2	0.3	141	0.17	0.038
145462	Soil		1.2	47.4	11.0	76	0.2	34.5	11.5	373	3.33	9.2	0.8	3.6	4.7	29	<0.1	1.1	0.2	73	0.65	0.036
145463	Soil		1.2	53.2	12.8	102	<0.1	39.6	11.8	215	4.54	4.0	1.9	6.8	5.4	8	<0.1	1.1	0.3	106	0.05	0.039
145464	Soil		1.2	31.4	11.0	68	<0.1	25.8	8.7	181	2.86	6.3	1.8	3.4	5.8	13	<0.1	1.4	0.2	69	0.10	0.023
145465	Soil		1.6	38.1	12.1	93	0.1	29.0	7.5	158	3.42	5.8	1.2	2.8	7.8	13	<0.1	1.8	0.2	82	0.07	0.037
145466	Soil		1.0	41.7	12.1	79	<0.1	34.7	11.2	296	3.23	8.1	1.1	7.5	6.6	15	<0.1	0.7	0.2	67	0.10	0.019
145467	Soil		1.0	42.2	12.3	75	<0.1	34.3	11.0	240	3.36	8.3	1.1	5.3	6.6	13	<0.1	1.0	0.2	71	0.09	0.020
145468	Soil		1.4	53.3	14.0	90	<0.1	39.5	13.9	332	3.85	8.6	1.2	7.9	7.6	15	<0.1	1.0	0.3	85	0.11	0.025
145469	Soil		1.1	29.1	11.4	68	0.3	22.5	8.8	312	3.10	6.9	0.6	<0.5	3.5	16	0.1	0.7	0.2	83	0.12	0.040
145471	Soil		1.5	41.5	11.4	87	0.2	32.3	11.0	338	3.58	9.0	1.1	<0.5	5.1	14	<0.1	1.9	0.2	96	0.12	0.042
145472	Soil		1.0	38.9	10.5	61	<0.1	25.8	10.5	252	3.23	11.4	1.3	3.4	6.8	19	0.1	1.2	0.2	63	0.19	0.022
145473	Soil		1.0	36.8	19.4	108	0.1	34.8	14.7	370	3.91	6.1	1.1	1.5	8.6	14	<0.1	0.9	0.2	74	0.15	0.023
145474	Soil		1.1	26.6	12.3	76	<0.1	29.4	12.8	280	3.35	6.9	1.0	1.9	6.8	15	<0.1	0.8	0.2	69	0.16	0.020
145475	Soil		1.0	31.9	12.8	70	<0.1	28.0	12.3	273	3.29	7.3	1.0	0.8	6.6	16	<0.1	1.0	0.2	66	0.18	0.023
145476	Soil		1.0	36.2	12.4	76	<0.1	29.2	12.2	360	3.22	8.6	0.9	2.8	6.0	22	<0.1	1.0	0.2	62	0.30	0.040
145477	Soil		1.2	38.6	13.8	74	0.1	28.7	11.3	332	3.21	8.9	1.0	1.9	6.5	22	<0.1	1.7	0.2	64	0.33	0.035
145478	Soil		1.0	40.6	14.5	72	<0.1	29.6	15.4	435	3.32	6.1	1.3	1.7	6.5	21	0.1	1.3	0.2	68	0.25	0.028
145479	Soil		1.1	44.2	13.4	81	<0.1	29.9	9.0	331	3.01	7.1	1.6	1.8	7.3	18	<0.1	3.9	0.2	62	0.25	0.034
145480	Soil		1.1	28.9	12.0	63	0.1	24.0	10.0	306	2.89	6.5	1.3	2.7	6.6	23	0.1	0.9	0.2	59	0.32	0.030
145481	Soil		0.9	29.1	14.9	65	0.1	23.1	7.7	312	2.56	11.2	1.7	1.0	9.1	27	<0.1	1.0	0.3	45	0.42	0.055
145482	Soil		0.7	31.0	14.6	56	0.2	26.6	8.0	322	2.48	10.6	3.1	2.0	11.4	28	<0.1	0.8	0.4	47	0.39	0.035

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
145452	Soil	20	35	0.60	318	0.125	1	1.67	0.009	0.17	0.1	0.05	4.8	0.2	<0.05	6	<0.5	<0.2
145453	Soil	20	55	0.84	434	0.179	1	2.26	0.010	0.41	0.2	0.05	6.8	0.4	<0.05	8	1.3	<0.2
145454	Soil	20	45	0.70	346	0.139	<1	1.78	0.015	0.15	0.2	0.05	5.6	0.2	<0.05	6	<0.5	<0.2
145455	Soil	23	74	1.01	419	0.197	1	2.37	0.009	0.48	0.2	0.06	8.0	1.4	<0.05	9	0.7	<0.2
145456	Soil	20	57	0.96	348	0.213	2	2.20	0.012	0.58	0.1	0.02	6.7	0.3	<0.05	8	0.8	<0.2
145457	Soil	28	66	1.21	294	0.358	<1	3.26	0.013	1.23	0.3	0.01	7.9	0.8	<0.05	12	0.5	<0.2
125458	Soil	24	48	0.81	248	0.211	<1	2.12	0.010	0.68	0.1	0.02	5.5	0.4	<0.05	8	<0.5	<0.2
145459	Soil	16	60	0.89	151	0.261	<1	2.72	0.009	1.13	0.1	0.01	5.7	0.5	<0.05	10	<0.5	<0.2
145460	Soil	19	52	0.63	282	0.214	<1	1.66	0.006	0.58	<0.1	1.28	6.4	0.8	<0.05	7	1.0	<0.2
145461	Soil	11	72	1.00	319	0.383	2	2.54	0.010	1.16	0.2	0.14	8.9	0.8	<0.05	11	1.1	<0.2
145462	Soil	16	42	0.80	356	0.169	2	1.86	0.016	0.24	0.1	0.07	5.2	0.3	<0.05	6	<0.5	<0.2
145463	Soil	15	61	0.84	220	0.315	2	2.42	0.007	0.86	0.1	0.11	7.9	0.6	<0.05	8	0.9	<0.2
145464	Soil	16	39	0.58	225	0.161	1	1.68	0.007	0.31	<0.1	0.14	4.5	0.3	<0.05	5	1.0	<0.2
145465	Soil	20	41	0.54	170	0.186	1	1.85	0.005	0.59	0.1	0.04	4.0	0.6	<0.05	7	1.0	<0.2
145466	Soil	20	37	0.60	286	0.145	<1	1.99	0.012	0.23	<0.1	0.08	5.5	0.2	<0.05	6	0.5	<0.2
145467	Soil	19	45	0.62	225	0.151	1	2.02	0.009	0.21	<0.1	0.07	6.2	0.2	<0.05	6	<0.5	<0.2
145468	Soil	21	46	0.68	255	0.188	2	2.16	0.010	0.37	<0.1	0.10	7.4	0.3	<0.05	7	<0.5	<0.2
145469	Soil	11	46	0.66	267	0.193	<1	1.88	0.008	0.36	0.1	0.01	3.7	0.4	<0.05	7	0.6	<0.2
145471	Soil	13	54	0.70	287	0.249	1	2.12	0.009	0.74	0.1	0.04	5.0	0.7	<0.05	8	0.6	<0.2
145472	Soil	19	40	0.60	265	0.121	1	1.84	0.011	0.21	0.1	0.07	6.6	0.2	<0.05	5	0.5	<0.2
145473	Soil	24	55	0.87	241	0.267	<1	2.60	0.009	0.81	0.2	0.03	6.6	0.6	<0.05	10	<0.5	<0.2
145474	Soil	18	50	0.71	235	0.210	<1	2.15	0.010	0.48	0.1	0.02	4.9	0.4	<0.05	8	<0.5	<0.2
145475	Soil	18	43	0.67	235	0.191	<1	2.09	0.009	0.46	0.1	0.03	5.1	0.4	<0.05	7	<0.5	<0.2
145476	Soil	18	56	0.80	349	0.163	<1	1.96	0.013	0.45	0.2	0.07	6.1	0.3	<0.05	7	<0.5	<0.2
145477	Soil	19	41	0.62	314	0.160	<1	1.87	0.014	0.34	0.1	0.07	5.6	0.3	<0.05	7	0.6	<0.2
145478	Soil	21	47	0.70	373	0.195	<1	2.37	0.010	0.58	0.1	0.06	6.6	0.5	<0.05	8	0.5	<0.2
145479	Soil	24	39	0.76	416	0.159	<1	1.79	0.011	0.46	0.2	0.05	6.4	0.6	<0.05	6	0.6	<0.2
145480	Soil	19	38	0.61	301	0.154	<1	1.83	0.013	0.32	0.1	0.04	4.9	0.3	<0.05	6	0.6	<0.2
145481	Soil	23	27	0.48	411	0.058	1	1.42	0.015	0.06	0.2	0.06	3.7	<0.1	<0.05	4	0.5	<0.2
145482	Soil	24	27	0.41	374	0.065	<1	1.50	0.017	0.06	0.2	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2

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Project: Montana
 Report Date: September 16, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
145483	Soil	0.8	28.5	14.1	57	0.1	23.2	6.8	278	2.45	9.4	2.8	1.7	11.1	27	<0.1	0.9	0.3	47	0.39	0.046
145484	Soil	0.8	32.4	15.3	56	<0.1	27.1	8.0	324	2.68	11.1	2.9	1.2	15.2	28	<0.1	0.9	0.3	50	0.39	0.033
145485	Soil	1.1	27.5	15.3	56	0.2	28.2	7.2	295	2.33	8.0	3.9	1.4	6.4	30	0.2	0.7	0.3	45	0.40	0.047
145486	Soil	0.7	8.9	10.6	31	<0.1	8.9	3.9	129	1.43	7.0	1.8	1.6	9.5	15	<0.1	0.4	0.3	34	0.20	0.018
145487	Soil	0.7	12.0	12.3	38	<0.1	10.6	4.3	149	1.62	10.0	2.5	<0.5	10.1	16	<0.1	0.5	0.4	33	0.20	0.026
145488	Soil	0.8	10.6	11.2	39	<0.1	11.7	4.9	156	1.79	10.7	1.6	0.7	8.7	12	<0.1	0.5	0.3	39	0.15	0.018
145489	Soil	1.2	8.2	13.8	27	<0.1	7.9	4.5	325	1.34	14.3	2.4	5.3	12.6	9	<0.1	0.5	0.4	25	0.10	0.017
145490	Soil	0.7	10.7	10.6	32	<0.1	8.8	3.6	268	1.31	16.9	3.2	<0.5	14.8	11	0.1	0.5	0.5	26	0.13	0.024
145491	Soil	1.1	14.8	14.6	52	<0.1	17.2	7.5	244	2.50	19.5	2.2	0.5	11.8	16	0.1	0.8	0.4	54	0.18	0.016
145492	Soil	0.8	7.7	10.5	43	<0.1	7.1	2.6	216	1.25	9.5	1.4	3.6	5.3	15	0.3	0.3	0.6	32	0.19	0.024
145493	Soil	1.8	18.6	23.4	58	0.1	16.9	6.2	458	2.26	17.9	5.5	1.4	19.6	25	0.2	0.6	0.7	28	0.29	0.032
145494	Soil	1.8	31.0	25.2	63	0.3	21.7	9.2	869	3.01	16.5	11.3	1.4	23.6	37	0.2	0.8	0.6	35	0.49	0.050
145495	Soil	2.7	26.6	34.9	62	0.2	23.9	13.0	1545	3.35	15.5	7.5	0.7	21.0	36	0.2	0.8	0.5	32	0.49	0.053
145496	Soil	3.0	80.8	12.1	262	0.4	83.0	11.4	329	4.10	22.6	2.4	9.4	10.2	14	1.3	0.4	0.3	74	0.17	0.085
145497	Soil	1.7	25.1	21.7	57	<0.1	20.6	8.3	448	2.59	14.0	5.0	3.2	16.8	24	0.2	0.7	0.4	40	0.28	0.039
145498	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.
145499	Soil	1.1	26.3	17.0	49	<0.1	21.2	7.2	278	2.31	13.1	6.3	1.8	15.7	25	<0.1	0.7	0.4	46	0.32	0.030
145500	Soil	0.7	12.9	11.5	36	<0.1	12.6	5.4	214	1.78	9.9	2.8	<0.5	10.8	16	<0.1	0.4	0.3	37	0.20	0.023



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CERTIFICATE OF ANALYSIS

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
145483	Soil	24	29	0.43	365	0.064	<1	1.51	0.018	0.06	0.2	0.05	4.3	<0.1	<0.05	5	<0.5	<0.2
145484	Soil	27	31	0.43	341	0.073	<1	1.71	0.017	0.08	0.1	0.05	5.1	0.1	<0.05	5	0.8	<0.2
145485	Soil	27	36	0.38	375	0.059	<1	1.58	0.013	0.07	0.2	0.04	4.0	<0.1	<0.05	5	1.0	<0.2
145486	Soil	20	16	0.27	150	0.063	<1	0.91	0.007	0.05	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
145487	Soil	20	19	0.28	149	0.056	1	1.21	0.007	0.05	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
145488	Soil	15	20	0.31	130	0.062	<1	1.27	0.010	0.05	0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
145489	Soil	13	14	0.17	102	0.038	<1	0.85	0.006	0.04	0.1	<0.01	1.5	<0.1	<0.05	3	0.7	<0.2
145490	Soil	16	14	0.20	108	0.041	<1	0.85	0.006	0.04	0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
145491	Soil	15	30	0.41	198	0.063	1	1.79	0.010	0.06	0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
145492	Soil	14	14	0.18	104	0.048	<1	0.79	0.006	0.06	0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
145493	Soil	32	25	0.30	197	0.023	2	1.10	0.010	0.13	<0.1	0.06	3.2	0.4	<0.05	4	0.8	<0.2
145494	Soil	47	22	0.37	288	0.016	1	1.62	0.010	0.18	<0.1	0.09	5.5	0.4	<0.05	6	0.9	<0.2
145495	Soil	42	25	0.43	293	0.015	3	1.62	0.009	0.15	<0.1	0.06	5.0	0.5	<0.05	5	1.7	<0.2
145496	Soil	32	49	1.01	318	0.120	<1	1.77	0.005	0.95	<0.1	0.06	4.5	0.9	<0.05	6	1.6	<0.2
145497	Soil	30	29	0.34	207	0.048	1	1.28	0.007	0.12	<0.1	0.04	4.4	0.2	<0.05	4	0.5	<0.2
145498	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.
145499	Soil	25	30	0.37	286	0.073	<1	1.62	0.011	0.08	0.1	0.04	4.9	<0.1	<0.05	5	0.9	<0.2
145500	Soil	17	20	0.30	169	0.058	1	1.19	0.010	0.05	0.1	0.02	2.5	<0.1	<0.05	4	0.6	<0.2



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Report Date: September 16, 2011

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QUALITY CONTROL REPORT

WHI11001143.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
132010	Soil	1.6	49.8	10.6	78	0.3	39.1	11.1	247	3.06	4.7	0.8	0.5	4.6	8	0.1	0.4	0.2	61	0.09	0.037
REP 132010	QC	1.6	50.4	11.1	77	0.3	39.1	11.6	255	3.13	4.9	0.8	2.2	4.8	8	0.2	0.4	0.2	64	0.08	0.037
106554	Soil	1.4	66.3	20.6	188	<0.1	40.4	11.8	422	4.06	0.8	2.7	11.5	25.3	9	0.2	0.2	0.4	71	0.23	0.076
REP 106554	QC	1.4	66.0	21.4	187	<0.1	41.8	11.7	438	4.17	0.9	2.8	12.8	25.6	9	0.2	0.2	0.4	73	0.22	0.072
123250	Soil	0.6	83.6	11.4	105	<0.1	37.6	10.7	220	3.63	3.9	1.4	2.4	7.2	18	<0.1	0.3	0.2	87	0.12	0.021
REP 123250	QC	0.7	80.6	10.8	106	<0.1	34.3	10.0	209	3.63	4.1	1.3	6.6	6.4	18	<0.1	0.2	0.2	81	0.11	0.020
145424	Soil	0.8	20.3	6.5	30	<0.1	13.4	4.4	141	1.33	6.3	1.0	1.9	4.2	10	<0.1	1.2	0.2	33	0.08	0.024
REP 145424	QC	0.8	20.2	6.0	31	<0.1	13.2	4.5	138	1.28	6.2	1.0	4.5	4.0	9	<0.1	1.2	0.2	32	0.08	0.022
145435	Soil	1.7	50.0	12.4	115	<0.1	38.9	11.6	208	3.68	3.4	1.6	10.9	5.9	8	<0.1	0.3	0.2	94	0.06	0.035
REP 145435	QC	1.6	47.3	11.7	107	<0.1	36.8	10.9	197	3.46	3.3	1.4	9.6	5.4	7	<0.1	0.3	0.2	86	0.06	0.033
129257	Soil	1.7	45.2	12.9	94	0.2	34.0	11.9	258	3.76	6.2	1.7	9.3	7.3	12	<0.1	0.5	0.3	86	0.11	0.029
REP 129257	QC	1.5	45.5	11.7	100	0.2	33.3	11.6	264	3.85	5.9	1.6	8.6	6.5	11	<0.1	0.5	0.3	93	0.11	0.028
129259	Soil	1.7	26.3	11.5	68	0.2	20.0	7.8	246	3.34	8.6	0.8	5.9	3.8	15	0.2	0.6	0.7	74	0.13	0.046
REP 129259	QC	1.6	26.6	11.8	72	0.2	21.4	8.4	252	3.45	8.9	0.9	5.3	3.8	15	0.2	0.6	0.6	77	0.14	0.047
124303	Soil	1.1	49.4	12.4	97	0.1	38.6	12.0	253	3.81	6.9	1.7	6.7	6.2	11	<0.1	0.6	0.3	98	0.08	0.045
REP 124303	QC	1.2	48.9	12.4	103	0.1	37.2	11.8	255	3.76	7.0	1.6	4.4	5.9	11	<0.1	0.6	0.3	97	0.09	0.043
124310	Soil	1.2	45.4	13.6	91	0.1	31.1	11.0	281	3.45	5.6	1.9	5.4	7.4	14	<0.1	0.5	0.2	78	0.11	0.033
REP 124310	QC	1.2	47.1	13.5	93	0.1	33.4	11.1	288	3.59	5.9	1.8	5.7	7.4	15	<0.1	0.5	0.3	79	0.11	0.035
106573	Soil	1.1	35.5	13.4	56	0.1	35.8	11.8	352	2.73	8.4	2.3	2.8	6.4	27	<0.1	0.5	0.2	59	0.37	0.042
REP 106573	QC	1.1	33.6	12.5	52	0.1	34.8	11.1	332	2.59	8.1	2.2	4.0	6.0	26	<0.1	0.5	0.2	56	0.35	0.039
106590	Soil	1.8	43.5	9.7	104	0.2	62.0	13.2	531	3.83	6.4	1.0	7.6	5.6	14	0.2	1.0	0.2	91	0.13	0.020
REP 106590	QC	1.8	42.3	9.5	101	0.2	60.4	13.1	511	3.74	6.3	0.9	4.7	5.5	13	0.2	1.0	0.2	88	0.13	0.019
106606	Soil	0.8	25.1	8.9	52	0.1	21.2	6.6	265	2.08	4.7	1.4	3.9	5.1	20	<0.1	0.4	0.2	43	0.28	0.032
REP 106606	QC	0.8	24.1	9.0	51	0.1	21.2	6.7	260	2.07	4.4	1.4	4.3	5.0	20	<0.1	0.4	0.2	40	0.26	0.033
106615	Soil	0.8	31.9	9.5	66	<0.1	25.1	9.5	405	3.21	2.7	1.7	3.8	6.2	18	<0.1	0.3	0.2	98	0.20	0.017
REP 106615	QC	0.8	32.3	9.4	67	<0.1	25.0	9.5	403	3.34	2.6	1.7	3.8	6.0	17	<0.1	0.3	0.2	96	0.20	0.017
132021	Soil	1.3	35.9	8.5	75	0.2	33.2	11.4	469	3.21	6.4	1.2	3.9	4.9	16	<0.1	0.5	0.2	80	0.18	0.050
REP 132021	QC	1.2	34.6	8.0	69	0.2	32.4	11.6	446	3.24	6.3	1.1	3.3	4.5	14	<0.1	0.4	0.2	77	0.17	0.050

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QUALITY CONTROL REPORT

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Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
132010	Soil	14	37	0.54	159	0.119	1	1.31	0.005	0.35	0.1	<0.01	3.1	0.2	<0.05	5	0.9	<0.2
REP 132010	QC	14	38	0.55	162	0.121	<1	1.31	0.005	0.35	<0.1	0.01	3.2	0.2	<0.05	5	0.8	<0.2
106554	Soil	98	41	0.64	299	0.233	<1	1.83	0.007	1.06	<0.1	0.03	4.0	0.7	<0.05	6	0.7	<0.2
REP 106554	QC	98	42	0.64	300	0.242	1	1.88	0.007	1.09	<0.1	0.03	4.1	0.7	<0.05	7	<0.5	<0.2
123250	Soil	22	53	0.76	373	0.213	<1	1.97	0.009	0.66	<0.1	0.03	5.4	0.5	<0.05	7	<0.5	<0.2
REP 123250	QC	21	49	0.72	372	0.198	1	1.96	0.009	0.65	<0.1	0.02	5.2	0.4	<0.05	6	<0.5	<0.2
145424	Soil	15	23	0.20	148	0.039	<1	0.80	0.004	0.04	<0.1	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
REP 145424	QC	14	22	0.20	147	0.037	<1	0.82	0.004	0.04	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
145435	Soil	20	44	0.55	241	0.151	<1	1.76	0.005	0.44	<0.1	0.03	4.8	0.4	<0.05	6	0.8	<0.2
REP 145435	QC	17	41	0.54	211	0.140	<1	1.70	0.005	0.40	<0.1	0.02	4.7	0.4	<0.05	6	0.7	<0.2
129257	Soil	20	48	0.75	217	0.214	<1	2.38	0.007	0.45	<0.1	0.02	4.4	0.4	<0.05	6	0.8	<0.2
REP 129257	QC	19	49	0.71	219	0.213	<1	2.25	0.007	0.46	0.1	0.03	4.3	0.4	<0.05	6	0.8	<0.2
129259	Soil	11	39	0.57	199	0.131	1	2.04	0.008	0.22	0.1	0.01	3.0	0.2	<0.05	6	<0.5	<0.2
REP 129259	QC	11	40	0.59	202	0.140	<1	2.08	0.008	0.23	0.2	0.01	3.2	0.2	<0.05	7	<0.5	<0.2
124303	Soil	18	55	0.74	250	0.232	<1	2.40	0.008	0.66	0.1	0.05	6.0	0.5	<0.05	7	0.5	<0.2
REP 124303	QC	17	55	0.74	247	0.232	1	2.32	0.008	0.65	<0.1	0.04	6.0	0.4	<0.05	7	0.8	<0.2
124310	Soil	21	44	0.57	223	0.200	1	1.87	0.007	0.48	0.1	0.04	6.3	0.4	<0.05	7	1.0	<0.2
REP 124310	QC	21	45	0.59	232	0.205	<1	1.88	0.008	0.50	0.1	0.03	6.3	0.4	<0.05	7	0.7	<0.2
106573	Soil	19	34	0.47	433	0.069	1	1.48	0.013	0.07	<0.1	0.06	6.6	0.1	<0.05	5	0.9	<0.2
REP 106573	QC	19	32	0.44	403	0.066	1	1.40	0.012	0.06	0.1	0.04	6.3	0.1	<0.05	5	0.7	<0.2
106590	Soil	19	84	0.73	1235	0.162	<1	2.15	0.005	0.27	0.1	0.04	4.3	0.4	0.06	7	0.6	<0.2
REP 106590	QC	19	81	0.68	1241	0.158	<1	2.00	0.005	0.26	0.1	0.03	4.2	0.4	<0.05	7	<0.5	<0.2
106606	Soil	16	28	0.36	490	0.058	<1	1.23	0.012	0.06	<0.1	0.05	3.9	0.1	<0.05	4	<0.5	<0.2
REP 106606	QC	17	26	0.36	510	0.057	<1	1.24	0.011	0.06	<0.1	0.05	3.8	0.1	<0.05	4	<0.5	<0.2
106615	Soil	16	27	0.22	378	0.039	<1	0.87	0.006	0.13	<0.1	0.05	10.7	0.3	<0.05	6	0.5	<0.2
REP 106615	QC	16	27	0.22	406	0.038	<1	0.87	0.006	0.13	<0.1	0.06	11.1	0.3	<0.05	6	<0.5	<0.2
132021	Soil	17	42	0.60	234	0.199	<1	1.78	0.011	0.45	0.1	0.03	3.9	0.4	<0.05	7	<0.5	<0.2
REP 132021	QC	14	41	0.58	212	0.191	<1	1.77	0.011	0.42	0.1	0.03	3.7	0.3	<0.05	6	<0.5	<0.2

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.



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Project: Montana
Report Date: September 16, 2011

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QUALITY CONTROL REPORT

WHI11001143.1

		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
132040	Soil	1.2	26.1	11.5	70	0.1	23.4	8.5	191	2.84	5.5	1.1	2.0	4.6	15	0.1	0.4	0.2	57	0.14	0.041
REP 132040	QC	1.1	24.6	11.0	68	0.1	22.0	7.9	186	2.68	5.3	1.1	1.3	4.5	15	<0.1	0.5	0.2	55	0.14	0.040
145456	Soil	0.9	29.9	11.0	65	<0.1	27.9	12.3	288	3.36	7.3	1.2	1.7	7.0	19	<0.1	0.4	0.2	65	0.24	0.020
REP 145456	QC	0.8	30.1	10.0	64	<0.1	27.9	12.5	299	3.35	6.8	1.2	1.5	7.0	19	<0.1	0.5	0.2	66	0.22	0.019
145472	Soil	1.0	38.9	10.5	61	<0.1	25.8	10.5	252	3.23	11.4	1.3	3.4	6.8	19	0.1	1.2	0.2	63	0.19	0.022
REP 145472	QC	1.1	40.8	11.9	65	0.1	27.5	10.7	259	3.38	11.6	1.3	7.6	7.0	20	<0.1	1.1	0.2	66	0.20	0.024
145488	Soil	0.8	10.6	11.2	39	<0.1	11.7	4.9	156	1.79	10.7	1.6	0.7	8.7	12	<0.1	0.5	0.3	39	0.15	0.018
REP 145488	QC	0.8	10.4	11.2	38	<0.1	11.4	4.8	156	1.84	11.1	1.7	<0.5	8.8	12	<0.1	0.5	0.3	38	0.15	0.018
Reference Materials																					
STD DS8	Standard	13.8	111.2	129.2	320	1.8	38.1	7.3	632	2.48	24.6	2.9	111.5	7.4	68	2.4	5.6	6.6	43	0.72	0.082
STD DS8	Standard	13.2	104.1	115.5	306	1.7	36.8	7.2	597	2.42	24.0	2.3	110.6	6.2	59	2.1	4.5	5.9	42	0.67	0.080
STD DS8	Standard	14.1	99.4	123.3	303	1.8	38.7	6.9	614	2.46	21.1	2.5	104.3	6.3	65	2.0	4.6	5.7	41	0.74	0.070
STD DS8	Standard	13.2	117.9	132.9	322	1.8	41.0	8.0	614	2.54	24.8	3.0	104.1	7.2	66	2.3	5.5	7.2	45	0.69	0.080
STD DS8	Standard	13.6	111.2	126.8	311	1.8	38.6	7.5	631	2.44	25.3	2.9	111.9	7.4	68	2.3	5.4	7.1	43	0.69	0.082
STD DS8	Standard	13.3	98.2	123.0	306	1.7	40.3	7.1	634	2.43	20.7	2.3	111.5	6.0	62	1.9	4.6	5.5	39	0.70	0.068
STD DS8	Standard	13.0	110.5	116.1	298	1.7	37.7	7.6	579	2.35	24.1	2.6	103.1	6.4	62	2.3	5.1	6.2	41	0.65	0.075
STD DS8	Standard	13.0	100.3	124.9	301	1.8	39.8	6.9	616	2.46	21.3	2.4	113.3	5.6	64	2.0	4.7	5.7	40	0.67	0.066
STD DS8	Standard	13.6	113.0	125.1	314	1.8	38.8	7.9	616	2.43	25.9	2.8	112.3	7.2	68	2.5	5.2	6.5	42	0.69	0.082
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



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Project: Montana
 Report Date: September 16, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001143.1

		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
132040	Soil	15	32	0.49	200	0.145	<1	1.52	0.007	0.29	0.2	0.02	3.4	0.2	<0.05	5	<0.5	<0.2
REP 132040	QC	16	30	0.49	202	0.146	<1	1.55	0.007	0.30	0.1	0.02	3.2	0.3	<0.05	5	0.6	<0.2
145456	Soil	20	57	0.96	348	0.213	2	2.20	0.012	0.58	0.1	0.02	6.7	0.3	<0.05	8	0.8	<0.2
REP 145456	QC	20	58	0.94	339	0.213	<1	2.10	0.012	0.57	0.1	0.02	6.8	0.3	<0.05	7	0.6	<0.2
145472	Soil	19	40	0.60	265	0.121	1	1.84	0.011	0.21	0.1	0.07	6.6	0.2	<0.05	5	0.5	<0.2
REP 145472	QC	20	42	0.63	277	0.127	1	1.93	0.011	0.22	0.1	0.06	7.0	0.2	<0.05	6	0.7	<0.2
145488	Soil	15	20	0.31	130	0.062	<1	1.27	0.010	0.05	0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
REP 145488	QC	16	20	0.32	131	0.059	<1	1.26	0.010	0.05	0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	121	0.63	294	0.121	3	0.94	0.096	0.43	3.0	0.21	2.4	5.5	0.16	5	5.6	4.9
STD DS8	Standard	14	115	0.58	266	0.116	2	0.86	0.083	0.41	2.9	0.20	2.2	5.0	0.25	5	4.4	4.9
STD DS8	Standard	17	122	0.64	247	0.135	2	0.96	0.084	0.40	2.9	0.19	1.6	5.3	0.22	5	5.1	5.0
STD DS8	Standard	15	120	0.65	261	0.121	3	0.91	0.073	0.41	3.1	0.21	1.8	5.7	0.16	5	5.3	5.0
STD DS8	Standard	16	118	0.63	283	0.123	3	0.94	0.088	0.41	3.3	0.19	2.2	5.5	0.15	5	5.4	4.9
STD DS8	Standard	14	125	0.59	234	0.122	2	0.88	0.079	0.39	2.8	0.18	1.6	5.2	0.23	5	4.8	4.6
STD DS8	Standard	15	114	0.59	264	0.118	3	0.87	0.081	0.39	2.8	0.20	1.9	4.9	0.18	4	4.9	4.7
STD DS8	Standard	13	121	0.59	237	0.117	3	0.87	0.079	0.38	3.0	0.20	1.5	5.4	0.16	5	5.1	5.0
STD DS8	Standard	16	117	0.61	286	0.120	2	0.92	0.084	0.41	3.1	0.22	2.2	5.4	0.16	5	5.2	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



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Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: August 23, 2011
Report Date: September 14, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001144.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110812114539
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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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: Montana
 Report Date: September 14, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001144.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	2	0.01	0.001	
102781	Soil		1.2	44.2	20.6	128	<0.1	35.3	11.6	381	3.56	2.8	2.1	1.7	11.9	11	0.1	0.5	0.3	78	0.09	0.057
102782	Soil		0.6	104.9	7.8	96	0.2	152.8	35.3	922	5.13	1.4	0.8	<0.5	13.5	43	0.1	1.8	0.3	94	1.90	0.136
102783	Soil		2.5	56.4	21.2	145	0.3	43.3	18.7	525	4.96	<0.5	1.7	13.3	6.0	4	0.1	4.0	0.5	87	0.03	0.087
102784	Soil		2.2	64.2	19.3	86	0.1	22.1	13.6	853	3.89	2.9	2.7	5.4	14.6	4	0.1	0.9	0.4	60	0.03	0.066
102785	Soil		1.7	77.4	14.8	140	0.2	61.4	12.3	398	4.37	1.6	1.3	3.2	3.1	6	<0.1	0.3	0.5	91	0.02	0.054
102786	Soil		1.9	66.5	8.8	73	<0.1	30.5	9.1	497	3.08	5.4	2.0	2.4	7.3	16	<0.1	0.8	0.3	49	0.03	0.044
102787	Soil		1.2	39.6	11.2	48	<0.1	13.8	5.3	138	2.12	1.7	2.1	5.3	11.5	12	<0.1	0.7	0.3	47	0.02	0.036
102788	Soil		1.3	70.2	14.0	43	<0.1	17.8	7.9	152	3.07	2.0	2.5	1.5	15.3	11	<0.1	0.3	0.4	63	0.02	0.042
102789	Soil		2.0	44.3	14.0	51	0.1	25.0	16.0	328	2.89	8.5	1.2	3.3	5.5	22	<0.1	0.8	0.2	64	0.12	0.026
102790	Soil		1.9	39.4	13.1	46	0.1	22.1	17.2	289	2.77	7.6	1.1	2.1	5.1	19	<0.1	0.8	0.2	64	0.10	0.027
102791	Soil		1.4	46.7	14.2	55	<0.1	22.2	9.0	220	2.78	5.8	1.2	3.4	8.0	20	<0.1	0.7	0.2	63	0.15	0.022
102792	Soil		6.8	44.1	7.2	69	0.2	42.5	5.4	305	2.07	1.6	5.3	<0.5	6.1	12	0.1	0.2	0.1	52	0.05	0.027
102793	Soil		2.4	39.3	13.6	54	<0.1	14.6	6.3	122	2.70	3.3	2.7	1.1	13.4	10	<0.1	0.4	0.2	46	0.02	0.039
102794	Soil		1.9	40.1	13.0	68	<0.1	19.6	8.2	207	2.50	3.4	2.3	2.9	12.3	11	<0.1	0.5	0.2	55	0.05	0.032
102795	Soil		1.1	21.4	7.6	77	<0.1	13.6	4.4	292	2.26	2.0	1.7	<0.5	10.7	11	<0.1	0.3	0.2	25	0.07	0.024
102796	Soil		0.6	10.8	7.8	74	<0.1	4.2	3.6	435	2.35	2.5	0.7	<0.5	6.1	7	<0.1	0.2	0.2	17	0.05	0.020
102797	Soil		1.0	47.0	11.6	77	<0.1	51.5	10.5	391	3.50	7.3	3.1	6.0	8.9	26	<0.1	0.6	0.2	67	0.27	0.014
102798	Soil		0.5	18.7	11.4	102	<0.1	15.2	5.7	309	3.24	1.8	0.8	<0.5	9.6	7	<0.1	<0.1	<0.1	8	0.08	0.009
102799	Soil		1.1	28.9	11.1	67	<0.1	22.7	7.4	297	2.64	6.2	2.3	1.8	7.9	18	<0.1	0.4	0.2	45	0.16	0.017
102800	Soil		0.9	25.2	10.2	79	<0.1	17.2	6.1	536	2.79	4.2	1.7	1.4	9.3	13	<0.1	0.3	0.2	36	0.15	0.018
102801	Soil		0.7	15.0	8.2	94	<0.1	7.4	3.7	372	2.52	2.0	1.2	1.4	8.9	9	<0.1	0.2	0.2	15	0.07	0.012
102802	Soil		0.7	22.5	9.0	95	<0.1	11.7	4.3	335	2.55	3.8	1.5	1.2	11.3	9	<0.1	0.3	0.2	25	0.07	0.019
102803	Soil		0.5	27.3	4.9	92	<0.1	8.1	2.8	389	2.88	2.2	1.3	0.9	11.5	12	<0.1	0.4	0.2	11	0.12	0.010
102804	Soil		1.3	40.9	11.6	67	0.1	25.3	10.8	409	2.60	5.8	1.5	1.8	8.2	21	<0.1	0.5	0.2	50	0.16	0.030
102805	Soil		1.3	41.5	13.9	76	<0.1	22.7	8.5	232	2.73	3.7	2.6	1.3	10.8	18	<0.1	0.4	0.2	58	0.08	0.038
102806	Soil		1.4	39.3	17.2	110	<0.1	25.0	8.1	191	3.10	3.4	2.3	<0.5	13.2	20	<0.1	0.3	0.2	69	0.02	0.057
102807	Soil		2.0	76.0	10.9	77	<0.1	34.8	11.5	300	3.83	6.3	1.9	2.6	9.0	17	<0.1	0.9	0.3	59	0.11	0.040
102808	Soil		1.5	43.1	13.4	80	<0.1	32.6	14.1	465	3.64	12.3	1.1	3.8	6.2	31	<0.1	1.0	0.2	76	0.28	0.016
102809	Soil		1.1	45.4	11.8	69	<0.1	27.0	8.9	158	3.36	3.5	2.2	4.0	10.0	7	<0.1	0.2	0.3	71	0.02	0.046
102810	Soil		1.1	36.1	9.9	65	<0.1	21.9	10.0	208	3.10	4.5	2.1	2.2	9.2	15	<0.1	0.8	0.2	61	0.06	0.031

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Project: Montana
 Report Date: September 14, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
102781	Soil	45	44	0.64	303	0.213	<1	1.83	0.009	0.83	<0.1	0.02	3.8	0.5	<0.05	6	0.6	<0.2
102782	Soil	30	96	0.72	575	0.004	<1	2.03	0.058	0.11	<0.1	0.23	27.8	0.3	<0.05	4	0.6	<0.2
102783	Soil	16	42	0.55	239	0.128	<1	1.40	0.009	0.63	0.1	0.06	9.5	0.6	<0.05	5	2.6	<0.2
102784	Soil	31	24	0.30	159	0.084	<1	1.22	0.004	0.30	<0.1	0.08	4.1	0.3	<0.05	5	2.4	<0.2
102785	Soil	7	46	0.79	436	0.238	<1	1.97	0.015	0.96	<0.1	0.03	7.3	0.7	<0.05	7	1.1	<0.2
102786	Soil	18	25	0.49	303	0.107	<1	1.31	0.006	0.27	<0.1	0.05	5.5	0.3	<0.05	5	1.5	<0.2
102787	Soil	31	24	0.24	247	0.072	<1	0.78	0.004	0.26	<0.1	0.04	4.5	0.3	<0.05	4	1.3	<0.2
102788	Soil	36	31	0.35	290	0.099	<1	1.31	0.005	0.43	<0.1	0.02	6.6	0.6	<0.05	5	1.1	<0.2
102789	Soil	19	32	0.43	348	0.063	<1	1.88	0.007	0.05	0.1	0.02	4.9	0.2	<0.05	5	0.7	<0.2
102790	Soil	15	30	0.39	310	0.058	<1	1.95	0.007	0.04	0.1	0.02	3.7	0.3	<0.05	5	0.7	<0.2
102791	Soil	21	33	0.44	406	0.107	<1	1.55	0.008	0.22	<0.1	0.03	5.3	0.3	<0.05	5	0.5	<0.2
102792	Soil	21	27	0.36	889	0.032	<1	1.56	0.002	0.04	<0.1	<0.01	4.3	0.3	<0.05	5	2.4	<0.2
102793	Soil	28	20	0.23	229	0.066	<1	0.95	0.003	0.17	<0.1	0.04	3.3	0.3	<0.05	3	2.1	<0.2
102794	Soil	30	28	0.46	361	0.108	<1	1.26	0.005	0.28	<0.1	0.04	3.9	0.3	<0.05	4	1.0	<0.2
102795	Soil	32	14	0.47	613	0.109	<1	1.26	0.007	0.44	<0.1	0.04	5.4	0.6	<0.05	6	0.9	<0.2
102796	Soil	15	3	0.90	175	0.130	<1	1.71	0.006	0.61	<0.1	<0.01	3.2	0.5	<0.05	7	0.6	<0.2
102797	Soil	31	130	0.86	415	0.069	4	2.14	0.009	0.18	0.1	0.04	11.3	0.2	<0.05	7	1.0	<0.2
102798	Soil	12	1	0.61	564	0.137	<1	3.31	0.009	0.82	0.3	<0.01	6.0	0.8	<0.05	12	<0.5	<0.2
102799	Soil	27	41	0.64	398	0.113	<1	1.62	0.008	0.19	0.1	0.02	5.9	0.2	<0.05	5	1.0	<0.2
102800	Soil	29	30	0.66	364	0.128	<1	1.65	0.007	0.52	<0.1	<0.01	5.3	0.5	<0.05	6	0.9	<0.2
102801	Soil	31	8	0.60	233	0.139	<1	1.73	0.005	0.69	0.1	<0.01	6.4	0.5	<0.05	8	1.0	<0.2
102802	Soil	32	12	0.49	184	0.114	<1	1.42	0.005	0.54	0.1	<0.01	5.2	0.6	<0.05	6	1.2	<0.2
102803	Soil	45	6	0.59	267	0.125	<1	1.87	0.005	0.63	<0.1	0.01	5.8	0.6	<0.05	8	1.2	<0.2
102804	Soil	23	29	0.43	350	0.103	<1	1.33	0.008	0.26	<0.1	0.02	4.7	0.3	<0.05	5	0.9	<0.2
102805	Soil	30	30	0.42	405	0.108	<1	1.41	0.006	0.22	<0.1	0.03	4.2	0.3	<0.05	5	1.4	<0.2
102806	Soil	30	37	0.44	614	0.136	<1	1.64	0.004	0.35	<0.1	<0.01	3.2	0.5	<0.05	5	1.0	<0.2
102807	Soil	23	42	0.43	385	0.078	<1	1.33	0.007	0.19	<0.1	0.02	6.0	0.3	<0.05	5	1.8	<0.2
102808	Soil	23	41	0.68	505	0.111	<1	2.21	0.017	0.09	0.1	0.05	8.0	0.1	<0.05	6	1.2	<0.2
102809	Soil	27	34	0.49	403	0.173	<1	1.47	0.004	0.60	<0.1	<0.01	3.7	0.6	<0.05	5	1.1	<0.2
102810	Soil	28	31	0.44	257	0.112	<1	1.40	0.006	0.26	<0.1	0.02	5.5	0.3	<0.05	5	1.1	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
102811	Soil	2.2	77.7	8.9	53	0.2	30.2	23.0	835	2.21	4.9	3.3	7.7	11.8	15	0.1	0.6	0.4	49	0.02	0.028
102812	Soil	2.2	77.5	13.8	89	<0.1	36.1	15.1	452	3.33	3.3	3.0	5.5	9.2	13	<0.1	0.5	0.4	63	0.07	0.034
102813	Soil	0.6	39.2	11.2	107	0.2	14.5	43.0	1422	7.17	0.7	2.3	3.9	25.4	48	0.3	<0.1	0.4	200	1.01	0.194
102814	Soil	1.2	34.2	13.3	69	0.1	23.2	8.7	222	2.54	3.3	1.7	2.9	9.6	15	<0.1	2.5	0.3	59	0.10	0.045
102815	Soil	1.2	36.8	11.0	51	<0.1	20.2	7.5	224	2.34	6.3	1.9	5.7	8.1	16	<0.1	3.4	0.3	52	0.09	0.022
102816	Soil	1.7	43.0	13.1	60	0.1	28.4	12.6	466	2.89	13.4	2.0	3.5	7.0	25	<0.1	2.6	0.2	59	0.19	0.031
102817	Soil	1.2	32.9	15.1	38	0.1	11.3	4.1	143	1.79	6.6	1.9	3.1	8.6	21	<0.1	4.0	0.2	40	0.11	0.038
102818	Soil	1.0	26.6	11.7	61	0.1	19.9	8.0	257	2.57	8.3	1.5	2.3	5.5	28	0.2	1.2	0.2	55	0.26	0.051
102819	Soil	1.0	21.6	10.8	54	0.1	16.8	7.6	222	2.26	6.8	1.2	3.9	5.8	21	0.1	1.3	0.2	47	0.18	0.038
102820	Soil	0.9	28.4	12.4	62	0.2	22.6	8.0	227	2.45	7.6	1.6	3.9	5.1	29	<0.1	1.1	0.2	51	0.27	0.052
102821	Soil	1.0	29.2	10.8	53	<0.1	18.3	6.6	236	2.06	7.6	1.6	7.0	7.4	22	0.1	1.7	0.2	45	0.18	0.035
102822	Soil	1.4	34.2	11.0	51	<0.1	17.1	7.5	294	2.26	8.7	1.9	4.2	8.3	16	<0.1	2.4	0.3	46	0.10	0.033
102823	Soil	1.0	33.0	9.8	52	<0.1	16.4	7.4	341	2.34	9.7	2.1	2.4	9.4	15	<0.1	1.8	0.3	48	0.09	0.023
102824	Soil	1.0	45.4	8.5	65	0.1	28.1	9.0	299	2.23	7.9	3.2	4.0	9.1	20	<0.1	2.5	0.3	38	0.11	0.045
102825	Soil	0.7	31.4	15.2	92	<0.1	34.9	8.1	342	2.14	3.2	2.2	6.5	12.6	24	<0.1	0.4	0.3	38	0.09	0.036
102826	Soil	0.7	33.2	10.0	115	<0.1	19.7	6.8	555	2.90	1.5	2.4	0.7	15.5	9	<0.1	0.2	0.3	53	0.06	0.020
102827	Soil	1.1	42.6	14.5	122	<0.1	24.4	7.8	302	2.93	0.9	3.2	3.2	23.2	10	<0.1	0.2	0.4	49	0.03	0.026
102828	Soil	1.3	44.3	9.2	174	<0.1	31.4	9.0	776	3.47	1.7	4.7	3.1	24.6	9	0.1	0.3	0.4	55	0.06	0.030
102829	Soil	0.5	23.6	9.2	137	<0.1	11.9	7.2	474	2.05	1.5	3.4	0.8	22.2	4	<0.1	0.7	0.3	32	0.02	0.022
102830	Soil	1.0	29.3	9.6	56	<0.1	20.9	8.2	329	2.32	7.6	1.5	5.0	7.8	22	<0.1	1.0	0.2	49	0.15	0.018
102831	Soil	2.3	51.1	14.0	19	<0.1	4.2	1.3	42	1.87	4.7	3.1	7.0	15.7	14	<0.1	0.7	0.6	43	<0.01	0.025
102832	Soil	1.0	36.9	17.6	36	<0.1	9.4	5.9	158	1.36	0.5	3.0	3.1	17.6	10	<0.1	0.2	0.5	45	<0.01	0.032
102833	Soil	3.3	15.5	7.6	65	<0.1	13.3	5.3	263	2.67	1.7	2.3	<0.5	12.9	4	<0.1	0.2	0.2	23	<0.01	0.023
102834	Soil	1.1	55.5	10.5	117	<0.1	37.3	10.3	179	2.75	1.9	2.5	2.1	12.1	11	<0.1	0.3	0.4	59	<0.01	0.052
102835	Soil	1.6	41.9	25.7	132	0.5	30.2	8.4	232	3.88	4.2	1.7	<0.5	8.2	10	0.1	0.4	0.4	94	0.07	0.076
102836	Soil	0.2	38.6	13.8	114	<0.1	33.9	10.6	571	4.68	0.7	0.8	2.5	8.2	13	0.1	<0.1	0.2	128	0.31	0.092
102837	Soil	0.7	31.4	13.2	115	0.1	44.6	7.9	386	2.90	3.3	1.0	1.0	9.0	8	<0.1	0.3	0.2	65	0.08	0.032
102838	Soil	0.7	63.7	13.6	134	<0.1	42.4	11.4	502	4.54	0.9	1.2	8.1	19.2	8	<0.1	0.4	0.3	82	0.25	0.085
102839	Soil	2.7	59.0	24.3	153	0.4	39.8	10.4	483	4.61	2.4	1.4	1.4	12.6	13	<0.1	0.2	0.3	137	0.25	0.071
102840	Soil	2.4	59.0	25.1	160	0.4	39.2	10.3	475	4.70	2.3	1.3	2.4	13.7	12	0.1	0.1	0.3	150	0.25	0.072

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
102811	Soil	30	26	0.30	356	0.070	<1	1.01	0.006	0.32	<0.1	0.03	7.1	0.3	<0.05	5	1.3	<0.2
102812	Soil	26	44	0.61	358	0.173	2	1.66	0.011	0.52	<0.1	0.02	6.5	0.4	<0.05	6	0.6	<0.2
102813	Soil	39	2	1.98	526	0.129	1	3.81	0.074	1.34	<0.1	0.03	16.1	5.3	<0.05	11	<0.5	<0.2
102814	Soil	25	33	0.44	184	0.127	<1	1.36	0.009	0.37	<0.1	0.02	3.3	0.6	<0.05	4	<0.5	<0.2
102815	Soil	22	28	0.30	203	0.056	1	1.22	0.006	0.05	<0.1	0.03	3.3	0.1	<0.05	3	0.6	<0.2
102816	Soil	21	32	0.42	327	0.074	<1	1.62	0.009	0.06	0.1	0.08	5.2	0.1	<0.05	4	0.6	<0.2
102817	Soil	22	22	0.25	302	0.062	1	0.81	0.007	0.07	<0.1	0.05	4.4	0.6	<0.05	3	0.7	<0.2
102818	Soil	19	31	0.42	283	0.088	<1	1.67	0.013	0.06	0.1	0.10	4.1	0.1	<0.05	5	0.5	<0.2
102819	Soil	17	27	0.36	242	0.085	1	1.40	0.011	0.05	0.1	0.15	3.3	0.2	<0.05	4	<0.5	<0.2
102820	Soil	19	29	0.40	325	0.084	<1	1.68	0.013	0.05	0.2	0.12	3.9	0.2	<0.05	5	0.5	<0.2
102821	Soil	21	27	0.34	245	0.087	<1	1.23	0.011	0.07	0.1	0.05	3.7	0.1	<0.05	4	<0.5	<0.2
102822	Soil	21	26	0.31	227	0.080	<1	1.32	0.007	0.09	0.1	0.04	3.8	0.2	<0.05	4	<0.5	<0.2
102823	Soil	23	28	0.33	259	0.092	<1	1.28	0.006	0.13	<0.1	0.03	4.3	0.2	<0.05	4	<0.5	<0.2
102824	Soil	23	21	0.29	294	0.047	<1	0.96	0.006	0.08	<0.1	0.05	4.6	0.2	<0.05	3	<0.5	<0.2
102825	Soil	31	21	0.24	256	0.048	<1	0.79	0.005	0.14	<0.1	0.08	4.3	0.2	<0.05	3	<0.5	<0.2
102826	Soil	37	29	0.51	386	0.234	<1	1.51	0.006	0.75	<0.1	0.01	5.7	0.7	<0.05	6	<0.5	<0.2
102827	Soil	46	27	0.43	278	0.203	<1	1.45	0.005	0.67	<0.1	0.03	3.7	0.7	<0.05	5	1.2	<0.2
102828	Soil	45	33	0.55	335	0.269	<1	1.70	0.007	0.92	<0.1	0.02	4.2	0.9	<0.05	6	<0.5	<0.2
102829	Soil	48	16	0.33	273	0.172	<1	1.02	0.004	0.54	<0.1	0.03	3.7	0.6	<0.05	5	<0.5	<0.2
102830	Soil	21	27	0.40	306	0.075	<1	1.26	0.010	0.05	<0.1	0.04	4.7	<0.1	<0.05	4	<0.5	<0.2
102831	Soil	38	16	0.03	209	0.004	<1	0.57	0.002	0.03	<0.1	0.04	5.7	<0.1	<0.05	2	0.9	<0.2
102832	Soil	45	21	0.15	217	0.051	<1	0.62	0.004	0.17	<0.1	0.04	5.7	0.2	<0.05	3	<0.5	<0.2
102833	Soil	30	10	0.30	193	0.138	<1	1.57	0.004	0.42	<0.1	0.03	4.7	0.8	<0.05	6	<0.5	<0.2
102834	Soil	32	32	0.34	202	0.098	<1	1.11	0.007	0.37	<0.1	0.04	6.0	0.3	<0.05	4	<0.5	<0.2
102835	Soil	23	49	0.59	245	0.183	<1	1.94	0.008	0.51	<0.1	0.02	3.6	0.4	<0.05	8	0.9	<0.2
102836	Soil	32	47	0.99	510	0.351	<1	3.02	0.009	1.33	0.3	0.01	11.1	0.5	<0.05	11	<0.5	<0.2
102837	Soil	19	33	0.62	291	0.252	<1	2.04	0.008	0.73	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2
102838	Soil	42	49	0.80	247	0.308	<1	2.48	0.008	1.29	<0.1	0.02	4.3	0.8	<0.05	8	<0.5	<0.2
102839	Soil	25	67	0.79	371	0.344	<1	2.73	0.009	1.38	<0.1	0.01	5.5	0.7	<0.05	9	0.8	<0.2
102840	Soil	25	73	0.83	382	0.360	<1	2.83	0.009	1.48	0.1	0.01	6.1	0.8	<0.05	10	0.7	<0.2

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Project: Montana
 Report Date: September 14, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
102841	Soil	0.7	14.1	10.8	123	0.3	14.6	6.7	571	2.77	3.6	0.9	<0.5	8.1	17	0.2	0.2	45	0.24	0.028	
102842	Soil	0.8	17.3	9.6	117	<0.1	18.7	7.2	375	2.78	5.6	1.1	<0.5	10.7	14	<0.1	0.4	46	0.15	0.018	
102843	Soil	1.6	61.0	16.3	140	0.1	37.3	10.2	499	4.02	2.6	2.8	3.2	26.5	10	<0.1	0.2	0.5	64	0.24	0.068
102844	Soil	1.1	17.0	10.8	163	0.1	16.3	6.5	317	2.64	4.6	1.4	<0.5	13.1	9	<0.1	0.2	0.3	37	0.10	0.018
102845	Soil	1.5	27.7	22.0	111	0.1	20.5	8.4	345	2.91	3.9	1.8	<0.5	18.4	10	<0.1	0.3	0.3	44	0.12	0.025
102846	Soil	1.1	18.8	9.5	59	<0.1	19.5	7.2	225	2.38	5.9	0.9	2.0	7.0	19	0.1	0.4	0.2	50	0.20	0.024
102847	Soil	0.9	46.9	38.6	244	<0.1	34.3	9.7	290	3.54	2.9	1.8	<0.5	17.1	13	0.3	0.4	0.3	70	0.25	0.072
102848	Soil	1.6	30.9	10.7	104	<0.1	26.9	9.1	376	3.21	3.6	1.4	2.3	11.1	11	<0.1	0.2	0.2	55	0.21	0.031
102849	Soil	0.7	21.8	6.7	75	<0.1	17.1	5.3	275	2.30	1.8	1.9	2.2	12.4	6	<0.1	0.1	0.2	38	0.09	0.013
102850	Soil	1.5	57.4	10.7	81	<0.1	46.9	12.4	150	3.92	2.0	1.5	1.6	4.7	8	<0.1	0.2	0.2	81	0.15	0.047
102851	Soil	1.2	40.3	11.5	59	0.2	27.5	11.1	546	2.80	8.4	2.0	<0.5	4.8	18	<0.1	0.4	0.2	55	0.27	0.043
123121	Soil	1.4	58.7	8.2	99	0.2	26.4	8.3	395	3.36	3.1	1.6	2.2	13.0	5	<0.1	0.5	0.3	83	0.06	0.029
123122	Soil	1.2	35.0	12.7	314	0.1	38.0	10.7	424	4.12	1.7	2.2	<0.5	18.6	5	0.4	0.3	0.2	81	0.12	0.074
123123	Soil	1.3	40.9	15.9	232	<0.1	24.6	8.9	484	3.02	1.7	2.7	<0.5	16.8	4	<0.1	0.4	0.2	51	0.03	0.026
123124	Soil	1.3	40.0	13.9	96	<0.1	19.2	8.5	261	2.52	3.3	1.9	<0.5	7.1	6	<0.1	0.5	0.2	54	0.03	0.039
123125	Soil	1.9	63.1	11.3	92	<0.1	43.2	12.4	578	3.38	6.3	1.4	3.4	4.2	8	<0.1	0.8	0.3	66	0.05	0.034
123126	Soil	1.6	65.9	10.4	71	0.2	29.3	11.8	349	3.05	8.8	1.3	1.7	6.6	9	<0.1	0.7	0.2	55	0.05	0.025
123127	Soil	1.9	82.9	7.3	62	<0.1	34.3	12.2	386	3.23	3.7	1.8	3.9	5.0	18	<0.1	0.2	0.2	63	0.05	0.048
123128	Soil	1.4	69.8	14.9	68	<0.1	24.9	15.6	419	3.20	4.3	1.5	1.2	6.0	14	<0.1	0.3	0.3	65	0.05	0.049
123129	Soil	1.7	69.2	10.4	71	<0.1	25.6	14.7	346	3.78	5.7	2.9	1.9	11.2	9	<0.1	0.4	0.2	69	0.04	0.035
123130	Soil	1.3	59.0	11.8	51	<0.1	16.8	8.1	260	2.73	2.9	1.9	2.5	11.5	7	<0.1	0.2	0.2	57	0.02	0.030
123131	Soil	1.3	43.9	10.7	33	<0.1	12.9	9.4	143	2.14	7.5	2.5	1.7	11.7	5	<0.1	0.3	0.2	38	0.02	0.031
123132	Soil	2.2	76.7	8.8	42	0.2	17.0	7.4	122	2.75	18.5	1.6	1.9	9.8	3	<0.1	0.5	0.2	41	0.02	0.031
123133	Soil	1.2	32.6	10.4	110	<0.1	28.1	7.9	315	2.56	2.6	1.2	<0.5	6.6	4	<0.1	0.2	<0.1	78	0.02	0.028
123134	Soil	1.2	87.6	7.1	120	0.3	55.4	11.0	390	3.35	5.3	0.8	<0.5	4.9	5	<0.1	0.2	0.1	62	0.05	0.033
123135	Soil	0.9	38.8	9.9	92	<0.1	28.0	6.8	177	2.52	2.2	1.5	<0.5	7.8	11	<0.1	0.3	<0.1	52	0.11	0.023
123136	Soil	2.0	43.0	12.7	147	0.2	38.4	10.0	254	3.44	3.4	1.4	<0.5	7.8	8	0.2	0.3	0.1	67	0.03	0.039
123137	Soil	0.4	16.6	4.1	80	<0.1	5.3	2.8	344	2.71	0.8	0.8	<0.5	7.2	5	<0.1	<0.1	<0.1	15	0.05	0.011
123138	Soil	1.3	44.0	14.7	115	0.1	24.9	5.9	185	2.61	7.6	1.2	0.6	8.6	5	<0.1	0.3	0.1	60	0.03	0.032
123139	Soil	1.1	42.5	16.9	155	<0.1	33.1	8.6	260	3.13	3.1	1.6	<0.5	13.9	7	0.2	0.2	0.1	72	0.05	0.035

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
102841	Soil	9	23	0.45	318	0.174	<1	1.64	0.006	0.62	0.2	<0.01	4.7	0.5	<0.05	7	<0.5	<0.2
102842	Soil	23	25	0.52	231	0.192	<1	1.75	0.009	0.59	0.2	0.01	4.9	0.5	<0.05	7	<0.5	<0.2
102843	Soil	77	34	0.77	233	0.253	<1	2.07	0.010	1.15	<0.1	0.03	3.5	0.8	<0.05	7	<0.5	<0.2
102844	Soil	13	20	0.47	168	0.197	<1	1.74	0.007	0.65	0.1	<0.01	2.8	0.7	<0.05	6	<0.5	<0.2
102845	Soil	29	24	0.44	159	0.160	<1	1.41	0.007	0.53	0.1	0.01	2.8	0.5	<0.05	5	<0.5	<0.2
102846	Soil	15	26	0.45	166	0.139	<1	1.37	0.010	0.24	0.2	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2
102847	Soil	44	40	0.65	262	0.283	<1	1.98	0.009	0.90	0.1	0.01	4.5	0.6	<0.05	7	0.6	<0.2
102848	Soil	30	32	0.58	271	0.139	1	1.76	0.008	0.63	0.1	<0.01	4.8	0.4	<0.05	5	1.0	<0.2
102849	Soil	30	21	0.41	186	0.110	<1	1.26	0.006	0.57	<0.1	<0.01	4.0	0.5	<0.05	6	0.6	<0.2
102850	Soil	12	48	0.86	192	0.166	<1	1.79	0.008	0.96	<0.1	<0.01	5.1	0.6	<0.05	6	0.7	<0.2
102851	Soil	14	34	0.52	338	0.067	<1	1.41	0.014	0.15	0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
123121	Soil	44	43	0.54	207	0.156	<1	1.68	0.005	0.62	<0.1	0.04	5.7	0.5	<0.05	7	1.0	<0.2
123122	Soil	25	45	0.58	225	0.204	<1	1.89	0.006	0.89	<0.1	0.02	3.7	0.7	<0.05	7	<0.5	<0.2
123123	Soil	47	31	0.51	213	0.166	<1	1.58	0.005	0.86	<0.1	0.02	5.5	0.7	<0.05	7	0.7	<0.2
123124	Soil	19	29	0.33	221	0.083	<1	1.12	0.005	0.35	<0.1	0.05	4.5	0.3	<0.05	4	1.0	<0.2
123125	Soil	11	34	0.48	350	0.100	<1	1.53	0.007	0.37	<0.1	0.08	6.3	0.3	<0.05	5	1.0	0.2
123126	Soil	18	37	0.42	263	0.079	<1	1.59	0.006	0.14	<0.1	0.04	6.6	0.3	<0.05	5	0.7	<0.2
123127	Soil	15	37	0.41	605	0.101	<1	1.31	0.007	0.41	<0.1	0.04	5.7	0.5	<0.05	5	1.2	<0.2
123128	Soil	15	36	0.43	621	0.109	<1	1.27	0.007	0.53	<0.1	0.03	5.2	0.8	<0.05	5	0.7	<0.2
123129	Soil	26	48	0.53	365	0.144	<1	1.86	0.006	0.56	<0.1	0.08	7.3	0.7	<0.05	7	0.7	<0.2
123130	Soil	28	29	0.31	229	0.113	<1	1.23	0.004	0.47	<0.1	0.04	5.9	0.5	<0.05	5	0.8	<0.2
123131	Soil	31	20	0.16	92	0.037	<1	0.80	0.003	0.15	<0.1	0.05	5.4	0.2	<0.05	3	1.0	<0.2
123132	Soil	22	28	0.17	107	0.024	<1	0.93	0.002	0.14	<0.1	0.05	5.2	0.2	<0.05	3	0.9	<0.2
123133	Soil	9	44	0.65	362	0.160	<1	1.74	0.004	0.55	<0.1	<0.01	3.9	0.4	<0.05	6	<0.5	<0.2
123134	Soil	11	52	1.03	290	0.163	<1	2.41	0.007	0.75	<0.1	0.02	4.4	0.5	<0.05	7	0.7	<0.2
123135	Soil	20	39	0.72	332	0.130	<1	1.47	0.005	0.49	<0.1	0.03	4.7	0.5	<0.05	5	0.9	<0.2
123136	Soil	19	44	0.64	422	0.148	<1	1.83	0.006	0.67	<0.1	<0.01	3.7	0.7	<0.05	6	1.1	<0.2
123137	Soil	31	10	0.62	282	0.108	<1	1.62	0.004	0.66	<0.1	<0.01	7.9	0.5	<0.05	8	1.2	<0.2
123138	Soil	24	40	0.47	296	0.119	<1	1.44	0.004	0.53	<0.1	0.02	3.7	0.4	<0.05	5	0.7	<0.2
123139	Soil	33	46	0.62	349	0.198	<1	1.70	0.006	0.93	<0.1	<0.01	3.9	0.5	<0.05	5	0.8	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
123140	Soil	1.2	43.3	17.0	153	<0.1	34.9	8.4	253	3.15	3.3	1.7	<0.5	13.7	7	0.1	0.2	0.1	67	0.05	0.036
123141	Soil	0.7	36.2	9.0	73	0.2	48.6	17.0	460	3.57	4.1	0.8	<0.5	6.5	12	<0.1	0.2	<0.1	74	0.13	0.016
123142	Soil	0.7	21.8	7.9	131	<0.1	16.2	4.3	677	3.09	2.0	1.8	0.6	16.6	5	<0.1	0.3	0.2	15	0.05	0.019
123143	Soil	1.1	49.0	11.3	120	<0.1	33.4	11.5	470	3.70	2.4	1.8	1.3	12.7	9	<0.1	0.2	0.2	62	0.07	0.038
123144	Soil	4.7	35.2	12.3	49	0.1	16.2	9.8	151	2.55	1.6	2.5	<0.5	8.7	7	<0.1	0.2	0.1	51	<0.01	0.043
123145	Soil	1.4	46.8	16.0	91	<0.1	31.2	10.8	334	3.02	3.7	3.2	<0.5	9.0	11	<0.1	0.3	0.1	67	0.09	0.028
123146	Soil	1.1	55.4	14.5	98	<0.1	31.6	11.2	291	2.82	3.4	2.0	1.0	9.8	8	<0.1	0.3	0.2	56	0.02	0.036
123147	Soil	1.6	29.4	14.0	54	0.2	21.6	7.1	137	2.36	6.4	1.4	<0.5	6.7	8	<0.1	0.4	0.2	55	0.05	0.030
123148	Soil	2.1	54.1	13.6	55	<0.1	27.1	13.0	424	2.77	7.9	0.8	<0.5	5.5	17	<0.1	0.6	0.2	55	0.16	0.021
123149	Soil	1.9	62.5	13.0	42	<0.1	22.5	13.1	391	2.70	10.1	1.0	2.2	6.8	15	<0.1	0.6	0.2	57	0.15	0.021
123150	Soil	1.7	52.7	9.9	63	<0.1	24.3	19.7	565	3.22	2.9	2.0	4.7	8.1	9	0.1	0.2	0.2	60	0.01	0.047
123151	Soil	1.6	57.5	13.7	90	0.1	35.3	12.4	265	3.39	4.4	1.8	3.4	6.7	7	<0.1	0.4	0.3	64	0.02	0.040
123152	Soil	2.9	68.1	9.3	68	0.1	37.1	13.4	652	2.86	5.5	1.6	3.8	5.3	8	<0.1	0.7	0.2	52	0.04	0.027
123153	Soil	5.0	60.8	14.3	68	0.3	49.8	17.8	681	3.20	12.8	1.4	2.7	4.5	11	0.1	0.9	0.3	49	0.05	0.049
123154	Soil	1.0	26.1	14.9	38	<0.1	10.4	4.5	183	1.55	7.1	1.5	3.7	12.1	11	<0.1	1.3	0.2	32	0.02	0.022
123155	Soil	2.0	61.5	21.9	131	<0.1	35.4	11.4	156	4.17	1.9	1.8	1.6	9.4	11	<0.1	0.3	0.4	83	0.03	0.055
123156	Soil	1.6	52.1	21.6	117	0.1	28.8	8.3	153	3.36	3.6	1.8	0.8	9.7	6	<0.1	1.4	0.3	70	0.07	0.062
123157	Soil	1.2	17.1	10.3	59	0.2	18.6	9.5	472	2.92	7.9	0.7	1.2	6.1	7	<0.1	0.8	0.2	54	0.08	0.031
123196	Soil	1.1	19.8	11.3	58	<0.1	14.8	7.0	216	2.34	7.4	1.0	10.9	4.5	15	0.1	1.4	0.1	46	0.17	0.051
123197	Soil	1.3	20.7	11.9	54	0.2	17.0	6.6	175	2.31	7.8	1.1	2.5	3.2	16	<0.1	1.1	0.2	47	0.17	0.042
123198	Soil	1.6	29.8	13.9	61	0.2	50.0	9.2	265	2.57	8.3	1.3	1.5	4.5	20	0.1	1.0	0.2	49	0.25	0.052
123199	Soil	1.5	28.9	12.4	56	0.1	19.4	8.5	212	2.48	9.0	1.1	3.8	4.9	18	<0.1	1.1	0.2	51	0.18	0.033
123200	Soil	1.3	23.9	11.8	54	0.1	32.9	9.8	308	2.51	8.3	1.0	5.0	4.5	19	<0.1	0.9	0.2	51	0.22	0.043
123201	Soil	1.3	26.0	15.8	54	0.2	19.9	7.3	217	2.50	7.7	1.0	4.1	5.4	19	<0.1	0.7	0.2	53	0.23	0.031
123202	Soil	2.1	39.5	14.3	32	0.1	60.2	4.9	164	1.79	11.1	1.2	2.3	9.5	14	<0.1	2.4	0.4	31	0.10	0.025
123203	Soil	1.3	40.3	9.0	48	0.1	23.9	9.7	459	1.69	8.9	1.5	2.5	7.2	12	<0.1	3.0	0.2	30	0.06	0.037
123204	Soil	1.3	27.6	8.1	80	0.2	46.0	7.3	1020	2.62	4.1	1.2	2.1	9.1	11	0.2	0.7	0.1	45	0.13	0.037
123205	Soil	0.5	29.1	9.9	112	<0.1	17.1	5.6	394	2.49	<0.5	1.8	3.9	16.8	9	<0.1	0.2	0.2	40	0.06	0.024
123206	Soil	1.1	39.6	22.1	67	<0.1	24.7	7.7	230	2.14	1.4	1.7	2.9	9.0	13	<0.1	0.3	0.2	44	0.05	0.028
123207	Soil	1.3	43.0	11.5	78	<0.1	22.7	12.0	533	2.32	1.1	2.0	1.4	10.7	8	<0.1	0.2	0.2	52	0.03	0.032

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Project: Montana
 Report Date: September 14, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
123140	Soil	33	45	0.59	335	0.183	<1	1.63	0.005	0.87	<0.1	0.01	3.6	0.5	<0.05	5	1.5	0.2
123141	Soil	21	205	1.41	273	0.076	<1	2.24	0.004	0.18	<0.1	0.02	10.7	0.3	<0.05	6	0.9	<0.2
123142	Soil	51	6	0.61	236	0.120	<1	1.48	0.003	0.72	0.1	0.04	9.7	0.8	<0.05	9	0.5	<0.2
123143	Soil	30	38	0.65	443	0.154	<1	1.59	0.005	0.73	<0.1	0.02	6.0	0.6	<0.05	6	1.0	<0.2
123144	Soil	12	24	0.18	224	0.024	<1	0.88	0.002	0.09	<0.1	0.02	3.7	0.2	<0.05	3	1.3	<0.2
123145	Soil	24	44	0.65	472	0.138	<1	1.66	0.005	0.51	<0.1	0.03	5.8	0.4	<0.05	5	0.9	<0.2
123146	Soil	24	29	0.47	298	0.107	<1	1.32	0.004	0.39	<0.1	0.04	4.3	0.4	<0.05	5	1.4	<0.2
123147	Soil	20	29	0.29	211	0.036	<1	1.53	0.004	0.07	<0.1	0.03	3.5	0.1	<0.05	4	0.6	<0.2
123148	Soil	15	36	0.37	345	0.053	<1	1.27	0.009	0.11	<0.1	0.03	5.0	0.2	<0.05	4	0.7	<0.2
123149	Soil	16	31	0.29	302	0.047	<1	1.34	0.006	0.08	<0.1	0.05	5.9	0.2	<0.05	4	0.8	<0.2
123150	Soil	21	31	0.26	308	0.071	<1	1.01	0.004	0.37	<0.1	0.07	5.9	0.4	<0.05	5	1.9	<0.2
123151	Soil	18	37	0.44	280	0.099	<1	1.40	0.006	0.40	<0.1	0.03	5.8	0.5	<0.05	5	0.9	<0.2
123152	Soil	15	35	0.36	273	0.076	<1	1.39	0.004	0.20	<0.1	0.05	5.4	0.3	<0.05	5	0.6	<0.2
123153	Soil	18	28	0.18	244	0.032	2	1.37	0.004	0.06	0.1	0.09	4.0	0.2	<0.05	4	1.5	<0.2
123154	Soil	33	17	0.11	141	0.021	<1	0.69	0.002	0.05	0.1	0.14	4.0	0.1	<0.05	3	<0.5	<0.2
123155	Soil	26	56	0.72	291	0.243	1	2.24	0.012	0.87	<0.1	0.03	4.8	0.7	<0.05	8	<0.5	<0.2
123156	Soil	31	44	0.52	186	0.151	<1	1.68	0.006	0.66	<0.1	0.02	3.7	0.4	<0.05	6	<0.5	<0.2
123157	Soil	11	31	0.48	175	0.110	<1	1.87	0.005	0.29	0.2	0.04	4.0	0.4	<0.05	6	<0.5	<0.2
123196	Soil	15	28	0.29	207	0.062	<1	1.29	0.007	0.05	0.2	0.08	2.8	0.2	<0.05	4	0.5	<0.2
123197	Soil	16	29	0.31	244	0.051	<1	1.52	0.008	0.04	0.1	0.13	3.4	0.1	<0.05	5	<0.5	<0.2
123198	Soil	18	92	0.38	307	0.071	1	1.57	0.009	0.07	0.3	0.12	4.2	0.1	<0.05	5	<0.5	<0.2
123199	Soil	17	34	0.33	253	0.074	<1	1.50	0.008	0.05	0.1	0.17	3.9	0.2	<0.05	4	<0.5	<0.2
123200	Soil	16	57	0.33	292	0.066	2	1.48	0.009	0.06	0.1	0.07	3.5	0.1	<0.05	4	<0.5	<0.2
123201	Soil	18	33	0.35	281	0.067	<1	1.76	0.009	0.07	0.1	0.07	4.1	0.2	<0.05	5	<0.5	<0.2
123202	Soil	22	116	0.12	235	0.029	<1	0.63	0.004	0.06	0.1	0.07	3.5	0.1	<0.05	3	1.2	<0.2
123203	Soil	19	18	0.11	233	0.028	<1	0.59	0.003	0.08	<0.1	0.04	3.8	0.2	<0.05	2	<0.5	<0.2
123204	Soil	19	78	0.28	383	0.095	<1	1.08	0.006	0.33	0.2	0.04	4.9	0.5	<0.05	5	<0.5	<0.2
123205	Soil	43	23	0.31	291	0.133	<1	1.50	0.004	0.63	<0.1	0.04	6.5	0.7	<0.05	7	<0.5	<0.2
123206	Soil	24	31	0.32	430	0.100	<1	1.08	0.003	0.36	<0.1	0.03	3.7	0.4	<0.05	4	<0.5	<0.2
123207	Soil	25	31	0.23	265	0.080	<1	0.89	0.003	0.35	<0.1	0.03	4.1	0.5	<0.05	4	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
123208	Soil	1.5	31.7	12.5	46	0.1	47.6	9.0	259	1.83	3.4	1.4	3.2	7.8	15	<0.1	0.4	0.2	39	0.06	0.019
123209	Soil	1.1	36.6	9.9	45	0.2	18.7	7.3	191	2.32	7.1	1.2	4.6	7.2	12	<0.1	0.5	0.2	54	0.07	0.013
123210	Soil	1.3	35.7	12.1	49	0.1	24.6	11.3	357	2.06	2.3	2.0	5.3	10.3	14	<0.1	0.3	0.3	45	0.03	0.031
123211	Soil	1.4	46.5	14.9	96	<0.1	31.9	9.5	162	3.27	1.3	2.5	2.7	10.4	5	<0.1	0.1	0.3	68	0.01	0.047
123212	Soil	1.9	57.2	11.9	88	<0.1	30.2	12.0	179	3.05	1.4	1.6	2.6	7.4	8	<0.1	0.2	0.3	62	0.01	0.033
123213	Soil	1.0	68.1	12.9	125	<0.1	32.2	12.3	338	3.52	1.5	1.7	2.2	7.4	2	<0.1	0.2	0.4	68	0.02	0.045
123214	Soil	1.6	47.7	12.5	96	<0.1	45.5	9.1	155	2.78	0.6	2.2	4.2	9.9	6	<0.1	0.2	0.3	55	0.02	0.043
123215	Soil	1.6	37.8	12.3	60	<0.1	28.5	8.8	287	2.96	9.1	3.1	6.4	7.3	15	<0.1	0.7	0.2	68	0.12	0.023
123216	Soil	1.8	49.3	11.7	64	<0.1	45.6	7.9	127	2.98	2.1	1.8	6.5	9.9	5	<0.1	0.3	0.3	58	0.02	0.047
123217	Soil	1.8	56.6	33.0	134	0.4	37.9	9.4	219	3.79	2.9	1.4	1.7	7.6	10	0.1	0.2	0.2	84	0.08	0.094
123218	Soil	3.0	61.0	18.7	162	0.1	118.5	12.7	145	4.59	3.1	1.9	6.8	10.5	7	0.1	0.3	0.3	108	0.24	0.126
123219	Soil	0.9	56.3	21.0	164	0.2	46.8	11.7	379	4.67	2.1	1.3	8.8	16.0	11	<0.1	0.1	0.3	112	0.34	0.091
123220	Soil	1.3	21.7	11.4	65	0.5	26.3	8.6	382	2.91	3.8	0.6	<0.5	6.4	14	0.1	0.2	0.2	81	0.37	0.100
123221	Soil	1.0	32.7	9.8	73	0.2	27.6	9.4	378	2.88	6.0	0.8	<0.5	7.8	12	<0.1	0.3	0.2	84	0.29	0.038
123222	Soil	0.9	23.4	9.1	86	0.1	39.1	7.6	500	3.15	2.4	1.3	2.0	14.2	7	<0.1	0.1	0.2	52	0.23	0.022
123223	Soil	1.4	50.2	10.6	135	0.3	33.3	9.7	422	4.00	3.0	0.8	1.2	9.8	8	<0.1	0.2	0.3	65	0.17	0.033
123224	Soil	0.7	18.6	7.8	102	0.1	19.8	7.7	395	3.77	4.8	1.1	0.7	12.3	10	<0.1	0.3	0.2	49	0.12	0.020
123225	Soil	1.4	28.9	11.6	88	0.2	24.0	7.0	229	3.34	5.9	1.7	0.9	13.1	6	<0.1	0.3	0.2	56	0.06	0.020
123226	Soil	1.6	30.5	12.0	69	0.1	58.8	7.3	406	2.47	2.3	1.2	3.1	14.4	8	0.1	0.2	0.2	49	0.15	0.023
123227	Soil	1.7	42.5	15.9	117	<0.1	33.6	10.8	417	3.89	3.1	1.2	1.2	7.8	10	<0.1	0.2	0.3	82	0.16	0.033
123228	Soil	1.4	53.6	11.6	86	<0.1	63.1	11.7	197	3.86	3.8	1.3	2.3	6.7	10	<0.1	0.3	0.3	82	0.20	0.049
123229	Soil	1.9	75.7	10.9	69	0.2	54.8	15.3	229	3.68	3.9	1.6	2.0	5.8	12	<0.1	0.4	0.3	76	0.15	0.044
123230	Soil	1.0	49.0	15.4	99	<0.1	47.1	11.9	209	3.62	1.2	1.2	5.5	8.4	8	<0.1	0.2	0.3	80	0.21	0.063
106412	Soil	1.3	31.4	15.4	127	0.1	27.8	11.6	547	3.90	2.6	1.3	1.3	16.5	4	<0.1	0.2	0.4	63	0.09	0.065
106413	Soil	1.9	31.6	18.1	64	0.1	22.1	6.8	205	2.53	4.6	1.7	2.0	11.4	6	<0.1	0.9	0.3	52	0.03	0.031
106414	Soil	1.7	22.9	66.9	246	<0.1	24.4	8.9	371	3.59	1.2	2.0	<0.5	18.1	4	0.2	0.4	0.2	56	0.06	0.046
106415	Soil	1.4	27.9	10.4	38	<0.1	13.5	4.1	233	1.41	2.6	1.9	1.1	11.5	6	<0.1	0.7	0.2	35	0.03	0.023
106416	Soil	1.3	46.1	14.0	105	<0.1	39.2	11.0	324	3.66	0.5	1.7	2.0	7.3	9	<0.1	0.3	0.2	91	0.02	0.037
106417	Soil	1.4	59.3	17.9	154	<0.1	71.1	12.2	451	4.58	1.1	2.1	1.2	9.8	19	0.1	<0.1	0.2	114	0.11	0.052
106418	Soil	1.4	41.5	21.2	74	<0.1	21.4	6.7	156	2.85	3.1	2.9	1.3	13.2	13	0.1	0.3	0.2	67	0.05	0.036

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
123208	Soil	22	88	0.19	290	0.040	<1	0.95	0.004	0.08	<0.1	0.06	3.8	0.2	<0.05	3	<0.5	<0.2
123209	Soil	21	32	0.31	189	0.055	1	1.55	0.005	0.06	<0.1	0.05	5.6	0.2	<0.05	4	<0.5	<0.2
123210	Soil	30	40	0.17	220	0.040	<1	0.73	0.003	0.12	<0.1	0.11	4.6	0.2	<0.05	3	0.5	<0.2
123211	Soil	32	42	0.44	181	0.132	<1	1.43	0.006	0.55	<0.1	0.06	5.2	0.4	<0.05	5	0.9	<0.2
123212	Soil	21	48	0.63	275	0.161	1	1.76	0.009	0.59	<0.1	0.04	4.7	0.5	<0.05	7	<0.5	<0.2
123213	Soil	21	42	0.52	252	0.160	<1	1.54	0.008	0.61	<0.1	0.13	6.3	0.5	<0.05	6	0.7	<0.2
123214	Soil	30	74	0.34	211	0.103	<1	1.25	0.006	0.40	<0.1	0.14	5.0	0.4	<0.05	4	1.0	<0.2
123215	Soil	22	44	0.45	319	0.070	<1	1.85	0.007	0.08	0.1	0.10	7.3	0.1	<0.05	5	0.6	<0.2
123216	Soil	30	76	0.32	161	0.095	<1	1.18	0.006	0.41	<0.1	0.06	6.6	0.4	<0.05	4	1.1	<0.2
123217	Soil	24	50	0.57	259	0.135	<1	1.61	0.008	0.75	<0.1	0.04	4.2	0.5	<0.05	6	1.0	<0.2
123218	Soil	33	193	0.94	311	0.209	<1	2.38	0.010	1.24	0.2	0.01	4.8	0.6	<0.05	7	2.0	<0.2
123219	Soil	35	62	1.06	608	0.279	<1	2.83	0.014	1.56	<0.1	0.03	5.3	0.7	<0.05	8	<0.5	<0.2
123220	Soil	17	45	0.58	307	0.139	1	1.97	0.009	0.56	0.2	0.02	5.7	0.3	<0.05	7	<0.5	<0.2
123221	Soil	21	45	0.56	234	0.150	1	1.93	0.008	0.51	0.2	0.03	6.8	0.4	<0.05	6	<0.5	<0.2
123222	Soil	14	69	0.57	235	0.162	1	2.11	0.005	0.88	0.2	0.01	7.2	0.7	<0.05	8	<0.5	<0.2
123223	Soil	14	38	0.74	241	0.236	1	2.45	0.007	1.25	0.1	0.02	3.4	0.9	<0.05	7	<0.5	<0.2
123224	Soil	16	31	0.65	165	0.201	1	2.29	0.008	0.98	0.2	0.02	3.8	0.9	<0.05	9	<0.5	<0.2
123225	Soil	25	28	0.36	130	0.123	<1	1.75	0.005	0.46	<0.1	0.02	3.5	0.6	<0.05	6	<0.5	<0.2
123226	Soil	30	108	0.35	156	0.102	1	1.52	0.005	0.57	0.2	0.02	6.8	0.4	<0.05	6	1.1	<0.2
123227	Soil	12	47	0.72	276	0.257	<1	1.89	0.007	0.97	<0.1	<0.01	3.5	0.7	<0.05	7	<0.5	<0.2
123228	Soil	18	91	0.86	221	0.241	1	1.93	0.009	0.86	0.1	0.01	4.2	0.5	<0.05	6	<0.5	<0.2
123229	Soil	19	47	0.53	217	0.108	1	1.22	0.006	0.37	<0.1	0.02	4.9	0.2	<0.05	4	1.3	<0.2
123230	Soil	22	57	0.97	360	0.228	<1	2.14	0.008	0.92	<0.1	0.02	4.5	0.6	<0.05	6	<0.5	<0.2
106412	Soil	36	32	0.48	150	0.168	<1	1.47	0.004	0.70	<0.1	0.01	2.6	0.6	<0.05	6	<0.5	<0.2
106413	Soil	22	32	0.23	152	0.048	<1	1.27	0.003	0.17	<0.1	0.02	2.5	0.2	<0.05	4	<0.5	<0.2
106414	Soil	26	31	0.64	240	0.226	<1	1.82	0.006	1.08	<0.1	<0.01	2.4	0.6	<0.05	6	0.6	<0.2
106415	Soil	26	18	0.12	98	0.035	<1	0.65	0.002	0.13	<0.1	0.02	2.4	0.2	<0.05	3	0.6	<0.2
106416	Soil	17	51	0.78	545	0.262	<1	1.95	0.013	1.01	<0.1	0.03	5.7	0.6	<0.05	7	<0.5	<0.2
106417	Soil	28	111	0.79	914	0.305	<1	2.19	0.009	1.05	<0.1	0.01	4.8	0.7	<0.05	7	<0.5	<0.2
106418	Soil	32	38	0.41	280	0.139	<1	1.26	0.004	0.40	<0.1	0.03	3.9	0.4	<0.05	5	0.7	<0.2

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Project: Montana
 Report Date: September 14, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
106419	Soil		2.0	73.4	20.9	84	<0.1	56.9	13.9	231	3.63	4.8	1.8	3.3	8.1	12	0.1	0.4	0.3	83	0.08	0.047
106420	Soil		2.0	76.7	31.9	174	<0.1	41.6	11.9	365	4.86	5.3	3.8	3.2	19.1	11	0.2	0.3	0.5	97	0.10	0.052
106421	Soil		1.3	31.6	9.6	114	<0.1	45.2	6.3	368	3.40	2.4	2.2	1.9	13.6	11	<0.1	0.2	0.2	54	0.09	0.029
106422	Soil		1.8	60.2	11.2	92	<0.1	53.6	13.5	329	4.39	1.2	1.7	7.0	5.4	5	<0.1	0.1	0.3	93	0.04	0.054
106423	Soil		1.7	58.7	18.7	108	0.1	73.5	10.0	331	3.97	2.4	1.6	1.7	11.1	6	<0.1	0.2	0.3	93	0.06	0.048
106424	Soil		0.8	44.6	197.1	144	<0.1	41.2	5.3	204	3.13	4.4	2.1	3.6	17.5	11	<0.1	0.3	<0.1	51	0.05	0.060
106425	Soil		2.5	61.6	74.0	76	0.1	57.7	7.8	170	2.58	15.5	1.9	4.2	11.7	7	<0.1	0.6	0.2	51	0.04	0.036
106426	Soil		2.2	89.8	13.1	75	0.1	44.3	16.5	433	3.74	5.4	2.5	1.7	11.7	12	<0.1	0.5	0.2	77	0.09	0.038
106427	Soil		3.7	39.9	11.1	54	<0.1	59.5	7.6	208	2.41	5.7	2.4	4.2	7.9	25	<0.1	0.5	0.1	52	0.12	0.058
106428	Soil		1.4	33.9	13.3	111	<0.1	24.3	7.8	299	2.70	1.9	1.7	1.1	13.0	10	0.1	0.3	0.2	58	0.06	0.037
106429	Soil		1.2	23.1	10.9	71	<0.1	23.0	11.4	327	2.81	7.1	1.4	<0.5	9.7	16	<0.1	0.5	0.2	60	0.15	0.020
106430	Soil		2.1	46.7	16.4	81	<0.1	25.7	8.9	221	2.56	6.2	2.3	3.3	10.3	12	<0.1	0.4	0.1	55	0.08	0.034
106431	Soil		2.1	58.1	24.2	76	<0.1	30.9	8.1	301	2.68	5.0	2.1	3.1	14.0	11	<0.1	0.4	0.2	60	0.09	0.040
106432	Soil		1.8	67.1	12.8	77	<0.1	40.1	11.7	390	3.42	7.2	2.5	4.1	12.0	13	<0.1	0.4	0.2	68	0.11	0.047
106433	Soil		1.2	53.2	10.2	75	0.1	36.3	11.4	211	2.98	5.9	1.3	4.1	8.3	11	<0.1	0.3	0.2	65	0.09	0.059
106434	Soil		1.2	35.8	8.2	65	0.2	34.6	8.8	169	3.22	5.2	1.2	2.5	7.2	9	<0.1	0.3	0.2	68	0.07	0.037
106435	Soil		1.5	45.6	14.8	92	<0.1	29.0	9.0	217	3.59	3.2	1.4	<0.5	7.3	5	<0.1	0.2	0.3	87	0.02	0.047
106436	Soil		1.8	47.2	15.4	95	<0.1	29.7	10.5	164	3.44	1.7	2.5	2.0	10.8	7	<0.1	0.1	0.2	71	0.01	0.044
103437	Soil		1.2	29.9	10.0	123	<0.1	21.8	6.2	452	2.76	3.3	1.8	3.5	12.2	7	<0.1	<0.1	0.3	44	0.05	0.023
106438	Soil		0.9	48.5	13.1	128	<0.1	47.4	12.6	533	4.74	2.7	2.9	2.1	21.6	12	<0.1	0.2	0.4	89	0.17	0.069
106439	Soil		2.1	53.1	83.0	321	0.3	35.3	11.9	1706	4.05	1.4	2.9	0.8	17.5	10	0.4	0.1	0.3	62	0.09	0.043
106440	Soil		1.2	35.2	17.4	264	<0.1	37.1	9.6	235	3.54	2.5	1.6	<0.5	11.9	7	0.2	0.2	0.2	77	0.10	0.054
106441	Soil		0.9	30.7	11.1	107	<0.1	23.8	7.7	388	3.30	1.1	2.6	<0.5	19.8	9	<0.1	<0.1	0.3	51	0.09	0.026
106442	Soil		4.5	55.2	12.1	106	0.4	31.3	14.9	1899	3.26	9.9	1.6	<0.5	6.0	18	0.4	0.9	0.3	67	0.10	0.060
106443	Soil		2.7	56.1	11.9	99	0.1	49.9	17.5	602	3.50	4.7	1.9	1.2	8.5	13	0.1	0.8	0.3	60	0.04	0.057
106480	Soil		1.1	36.0	10.0	101	0.1	17.7	7.1	262	3.44	2.2	1.6	2.2	15.7	2	0.1	1.0	0.2	39	<0.01	0.032
106481	Soil		1.9	35.3	15.1	98	0.2	43.1	11.8	475	3.62	6.4	1.2	2.8	8.2	7	<0.1	0.5	0.2	92	0.06	0.036
106482	Soil		1.2	28.6	7.5	118	<0.1	23.4	5.6	401	2.58	0.9	2.2	4.6	13.8	6	<0.1	0.3	0.2	43	0.06	0.026
106483	Soil		1.3	52.2	12.7	97	<0.1	36.3	9.7	166	3.93	1.1	1.3	2.2	3.9	7	0.1	0.2	0.3	80	0.05	0.043
106484	Soil		1.2	54.5	11.3	73	<0.1	37.5	11.3	336	2.78	3.6	1.5	2.9	10.5	9	<0.1	0.8	0.2	52	0.06	0.036

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Project: Montana
 Report Date: September 14, 2011

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
106419	Soil	21	121	0.71	344	0.168	<1	1.55	0.008	0.62	<0.1	0.03	5.7	0.5	<0.05	5	0.5	<0.2
106420	Soil	61	51	0.67	339	0.170	<1	1.89	0.006	0.62	<0.1	0.11	5.7	0.4	<0.05	6	0.8	<0.2
106421	Soil	33	64	0.58	320	0.182	<1	1.83	0.006	0.78	<0.1	0.03	4.9	0.4	<0.05	6	0.8	<0.2
106422	Soil	17	54	0.79	241	0.218	<1	1.98	0.012	0.98	<0.1	0.03	5.6	0.7	<0.05	7	<0.5	<0.2
106423	Soil	26	93	0.77	171	0.196	<1	2.36	0.006	0.80	<0.1	<0.01	3.5	0.5	<0.05	6	<0.5	<0.2
106424	Soil	43	20	0.42	271	0.111	<1	1.72	0.003	0.47	<0.1	0.02	5.1	0.4	<0.05	6	0.8	<0.2
106425	Soil	30	91	0.29	164	0.055	<1	1.24	0.004	0.18	<0.1	0.07	3.5	0.2	<0.05	4	0.8	<0.2
106426	Soil	30	59	0.66	331	0.181	<1	1.94	0.007	0.62	<0.1	0.03	7.0	0.5	<0.05	6	0.6	<0.2
106427	Soil	17	102	0.37	698	0.064	<1	1.03	0.006	0.13	0.2	0.03	3.4	0.2	<0.05	3	1.4	<0.2
106428	Soil	32	34	0.64	706	0.195	<1	1.59	0.006	0.66	<0.1	0.01	3.2	0.5	<0.05	5	<0.5	<0.2
106429	Soil	25	39	0.60	394	0.143	<1	1.58	0.007	0.41	<0.1	0.01	4.2	0.4	<0.05	5	<0.5	<0.2
106430	Soil	30	35	0.49	657	0.126	1	1.30	0.005	0.35	<0.1	0.03	4.0	0.3	<0.05	4	0.5	<0.2
106431	Soil	33	39	0.48	478	0.136	<1	1.22	0.006	0.49	<0.1	0.03	3.8	0.4	<0.05	4	1.7	<0.2
106432	Soil	36	46	0.64	319	0.141	<1	1.56	0.007	0.42	<0.1	0.05	6.7	0.4	<0.05	5	0.7	<0.2
106433	Soil	18	39	0.62	224	0.145	<1	1.75	0.007	0.51	<0.1	0.01	2.8	0.3	<0.05	5	<0.5	<0.2
106434	Soil	16	41	0.61	164	0.141	1	1.72	0.007	0.47	<0.1	0.01	2.8	0.3	<0.05	4	<0.5	<0.2
106435	Soil	20	52	0.69	263	0.227	<1	1.93	0.012	0.85	<0.1	0.01	3.1	0.5	<0.05	6	<0.5	<0.2
106436	Soil	29	43	0.69	201	0.218	<1	1.74	0.009	0.77	<0.1	<0.01	4.2	0.5	<0.05	5	<0.5	<0.2
103437	Soil	27	26	0.47	247	0.194	1	1.60	0.006	0.78	<0.1	0.02	2.8	0.5	<0.05	4	0.7	<0.2
106438	Soil	62	51	0.80	384	0.314	<1	2.39	0.006	1.18	<0.1	0.02	4.1	0.9	<0.05	7	<0.5	<0.2
106439	Soil	40	33	0.52	441	0.204	<1	1.68	0.004	0.85	<0.1	<0.01	3.5	0.7	<0.05	6	<0.5	<0.2
106440	Soil	27	48	0.62	231	0.171	<1	2.14	0.007	0.65	<0.1	<0.01	3.1	0.4	<0.05	6	<0.5	<0.2
106441	Soil	48	30	0.62	272	0.206	<1	1.85	0.006	0.90	<0.1	<0.01	3.4	0.7	<0.05	6	1.0	<0.2
106442	Soil	13	37	0.49	367	0.102	2	1.73	0.008	0.26	<0.1	0.02	3.2	0.2	<0.05	5	0.6	<0.2
106443	Soil	19	34	0.39	313	0.086	1	1.23	0.007	0.39	<0.1	0.02	4.2	0.3	<0.05	4	<0.5	<0.2
106480	Soil	21	21	0.34	122	0.128	1	1.55	0.004	0.49	<0.1	0.04	3.5	0.6	<0.05	6	0.5	<0.2
106481	Soil	18	53	0.41	213	0.113	2	1.56	0.005	0.29	<0.1	0.02	4.4	0.2	<0.05	5	0.6	<0.2
106482	Soil	36	20	0.40	233	0.168	1	1.61	0.006	0.76	0.1	0.03	5.4	0.5	<0.05	7	<0.5	<0.2
106483	Soil	11	48	0.83	269	0.216	1	2.04	0.012	0.84	<0.1	0.03	5.9	0.5	<0.05	6	<0.5	<0.2
106484	Soil	26	37	0.46	324	0.143	1	1.42	0.009	0.57	<0.1	0.03	5.2	0.3	<0.05	5	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
106485	Soil	2.4	67.8	10.6	75	0.1	37.1	13.6	332	2.90	5.1	1.4	1.0	5.9	18	0.1	0.6	0.2	65	0.09	0.051
106486	Soil	0.9	37.2	6.6	70	<0.1	46.6	16.9	199	4.55	2.3	1.0	2.3	5.3	10	<0.1	0.3	0.2	54	0.08	0.033
106487	Soil	0.8	16.2	8.1	78	<0.1	14.1	4.8	245	2.23	0.8	2.2	3.4	20.0	4	<0.1	<0.1	0.2	30	0.03	0.013
106488	Soil	1.7	32.7	12.5	104	0.1	20.7	8.0	232	2.58	3.9	1.9	3.0	11.2	9	0.1	0.5	0.3	47	0.04	0.032
106489	Soil	1.1	57.4	21.0	172	<0.1	39.8	10.8	408	4.56	1.0	2.0	5.9	15.2	6	<0.1	0.3	0.2	82	0.09	0.047
106490	Soil	1.3	59.5	20.7	160	<0.1	38.5	11.2	386	3.90	1.0	1.8	5.1	14.3	5	0.2	0.4	0.2	82	0.05	0.034
106491	Soil	1.6	55.0	10.9	136	0.1	38.6	10.8	405	4.21	14.2	1.0	2.8	13.0	6	0.1	0.3	0.3	73	0.21	0.112
106492	Soil	2.0	42.6	190.6	119	0.3	31.5	9.9	144	4.26	5.9	1.5	2.9	8.1	10	0.1	0.3	0.2	80	0.06	0.060
106493	Soil	1.4	44.8	17.5	127	0.1	34.2	7.6	205	3.07	4.1	2.0	4.2	12.2	7	<0.1	0.6	0.2	57	0.03	0.025
106494	Soil	1.6	52.9	12.5	70	0.1	34.6	12.4	164	3.42	4.7	1.9	3.4	9.9	13	<0.1	0.7	0.3	63	0.03	0.036
106495	Soil	1.4	59.8	12.5	85	0.1	43.4	11.0	97	3.77	5.3	1.2	2.6	6.2	8	<0.1	0.6	0.2	79	0.03	0.041
106496	Soil	0.8	28.3	17.9	120	0.1	22.9	8.0	386	2.96	5.4	1.8	4.1	9.7	17	0.2	0.3	0.2	55	0.29	0.050
106497	Soil	0.8	41.2	13.9	148	<0.1	31.0	10.7	694	3.88	1.5	1.7	0.9	15.1	12	0.2	<0.1	0.3	65	0.27	0.063
106498	Soil	1.0	39.8	98.9	211	<0.1	29.3	9.1	581	3.66	1.5	2.5	3.0	17.0	10	0.2	0.1	0.3	53	0.21	0.048
106499	Soil	0.4	31.7	16.1	182	<0.1	19.3	7.3	393	2.76	4.1	3.7	2.4	15.0	17	0.1	0.1	0.2	47	0.34	0.058
106500	Soil	0.4	22.5	11.3	166	<0.1	18.0	7.9	824	2.70	1.1	2.5	3.2	21.5	12	<0.1	0.1	0.2	34	0.23	0.034
106501	Soil	0.9	29.8	12.5	564	<0.1	19.0	7.6	440	2.64	<0.5	1.7	2.8	26.1	7	0.3	<0.1	0.2	31	0.15	0.042
106502	Soil	1.7	31.4	6.6	212	<0.1	20.6	9.1	442	3.42	1.0	1.7	2.8	17.5	5	0.3	<0.1	0.3	41	0.09	0.037
106503	Soil	0.7	15.1	16.4	382	<0.1	14.7	7.7	563	2.85	1.9	1.9	0.9	19.8	9	0.2	0.1	0.1	33	0.15	0.054
106504	Soil	0.5	17.5	8.6	139	<0.1	11.9	6.0	363	2.59	2.5	1.8	2.6	16.5	8	<0.1	0.2	0.2	38	0.09	0.017
106505	Soil	0.8	39.5	13.3	139	<0.1	39.8	12.6	200	3.75	6.3	1.0	2.5	8.9	9	0.2	0.2	0.2	77	0.11	0.032
106506	Soil	0.8	43.0	12.0	61	<0.1	43.9	9.4	143	4.13	1.5	1.2	2.9	6.4	8	<0.1	<0.1	0.3	90	0.22	0.117
106507	Soil	0.8	24.6	8.3	71	<0.1	21.0	7.6	261	2.88	7.3	2.5	4.5	8.4	12	<0.1	0.3	0.2	48	0.13	0.019
106508	Soil	0.9	54.6	10.7	119	<0.1	40.0	12.8	255	4.24	18.9	1.9	5.5	9.7	11	<0.1	0.2	0.3	86	0.23	0.083
106509	Soil	1.4	42.9	13.9	93	0.1	34.1	9.6	175	3.38	4.5	1.5	12.3	9.5	11	<0.1	0.3	0.2	70	0.12	0.037
106510	Soil	1.4	52.3	15.8	99	<0.1	31.9	8.3	228	3.42	3.9	2.7	7.8	12.5	8	<0.1	0.2	0.2	67	0.07	0.033
106511	Soil	2.5	59.9	16.1	136	0.1	39.1	11.7	401	3.75	5.4	2.0	6.0	12.5	7	0.1	0.2	0.2	73	0.06	0.051
106512	Soil	2.3	61.6	31.9	73	<0.1	24.2	8.6	184	2.82	11.4	2.3	6.9	9.7	8	<0.1	0.4	0.2	52	0.07	0.050
106513	Soil	0.8	51.1	10.6	80	<0.1	34.1	9.2	185	2.98	2.3	2.7	9.3	13.7	6	<0.1	0.1	0.2	60	0.11	0.073
102852	Soil	0.7	48.6	8.8	128	<0.1	37.7	12.3	908	4.51	2.5	0.9	11.6	14.5	13	<0.1	0.1	0.2	94	0.36	0.057

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Project: Montana
 Report Date: September 14, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
106485	Soil	16	42	0.59	336	0.126	1	1.62	0.010	0.72	<0.1	0.02	5.1	0.4	<0.05	6	0.6	<0.2
106486	Soil	15	47	1.06	303	0.258	<1	2.59	0.014	1.08	<0.1	<0.01	5.4	0.6	<0.05	9	<0.5	<0.2
106487	Soil	39	17	0.39	125	0.134	<1	1.38	0.006	0.64	<0.1	<0.01	3.1	0.5	<0.05	5	<0.5	<0.2
106488	Soil	21	29	0.26	133	0.075	<1	1.19	0.004	0.24	<0.1	0.03	3.4	0.2	<0.05	4	1.9	<0.2
106489	Soil	53	50	0.72	272	0.279	<1	2.22	0.006	1.15	<0.1	0.04	4.9	0.8	<0.05	8	0.9	<0.2
106490	Soil	51	49	0.61	242	0.256	<1	1.97	0.005	0.93	<0.1	0.03	5.0	0.7	<0.05	7	1.4	<0.2
106491	Soil	26	43	0.80	229	0.262	<1	2.23	0.009	1.22	<0.1	0.01	3.1	0.9	<0.05	7	<0.5	<0.2
106492	Soil	23	52	0.65	237	0.177	<1	2.20	0.007	0.81	<0.1	0.02	4.1	0.4	<0.05	6	1.2	0.2
106493	Soil	41	31	0.31	170	0.111	1	1.26	0.004	0.37	<0.1	0.07	4.0	0.3	<0.05	4	<0.5	<0.2
106494	Soil	30	42	0.54	251	0.138	1	1.66	0.006	0.45	<0.1	0.03	4.8	0.3	<0.05	5	0.9	<0.2
106495	Soil	20	50	0.72	232	0.190	1	2.00	0.009	0.67	<0.1	0.02	5.3	0.4	<0.05	7	<0.5	<0.2
106496	Soil	34	34	0.60	254	0.134	<1	1.98	0.009	0.45	0.1	0.01	4.0	0.3	<0.05	6	<0.5	<0.2
106497	Soil	41	37	0.78	265	0.254	<1	2.30	0.007	1.21	<0.1	<0.01	4.3	0.7	<0.05	8	<0.5	<0.2
106498	Soil	35	33	0.69	209	0.225	<1	2.03	0.006	1.15	<0.1	<0.01	4.2	0.8	<0.05	7	0.9	<0.2
106499	Soil	41	59	0.56	140	0.050	<1	1.76	0.006	0.46	<0.1	0.07	5.4	0.3	<0.05	7	0.7	<0.2
106500	Soil	55	19	0.61	178	0.127	<1	1.76	0.006	0.78	<0.1	0.01	2.9	0.6	<0.05	7	<0.5	<0.2
106501	Soil	72	19	0.54	135	0.149	<1	1.65	0.005	0.69	<0.1	<0.01	2.1	0.5	<0.05	5	<0.5	<0.2
106502	Soil	41	28	0.58	119	0.188	<1	1.85	0.005	0.94	<0.1	<0.01	2.3	0.7	<0.05	5	0.8	<0.2
106503	Soil	57	21	0.66	199	0.183	1	2.17	0.007	0.95	<0.1	<0.01	2.4	0.7	<0.05	7	<0.5	<0.2
106504	Soil	45	21	0.54	128	0.178	1	1.83	0.005	0.72	0.2	0.01	4.6	0.6	<0.05	7	<0.5	<0.2
106505	Soil	21	47	0.80	285	0.261	1	2.53	0.008	0.92	<0.1	<0.01	3.8	0.6	<0.05	7	<0.5	<0.2
106506	Soil	21	55	0.95	226	0.223	<1	2.42	0.017	1.16	<0.1	<0.01	3.9	0.6	<0.05	7	<0.5	<0.2
106507	Soil	26	28	0.43	194	0.135	1	1.51	0.009	0.44	0.1	0.02	5.0	0.3	<0.05	6	<0.5	<0.2
106508	Soil	31	54	0.99	281	0.225	<1	2.54	0.008	1.04	<0.1	0.02	5.2	0.6	<0.05	7	<0.5	<0.2
106509	Soil	30	44	0.64	245	0.177	1	1.92	0.008	0.59	<0.1	0.02	4.1	0.3	<0.05	6	<0.5	<0.2
106510	Soil	62	40	0.65	271	0.195	<1	1.94	0.007	0.90	<0.1	0.03	5.3	0.5	<0.05	6	<0.5	<0.2
106511	Soil	43	59	0.71	310	0.162	<1	1.72	0.007	0.82	<0.1	0.02	6.0	0.4	<0.05	6	1.3	<0.2
106512	Soil	33	40	0.43	166	0.108	<1	1.27	0.005	0.50	<0.1	0.03	3.6	0.5	<0.05	4	2.0	<0.2
106513	Soil	44	41	0.58	174	0.150	<1	1.54	0.007	0.83	<0.1	0.02	4.0	0.4	<0.05	6	<0.5	<0.2
102852	Soil	60	49	0.88	277	0.276	<1	2.63	0.007	1.32	0.2	0.02	7.8	0.8	<0.05	10	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
102853	Soil	0.4	55.6	16.1	153	<0.1	53.9	13.3	640	4.41	2.5	1.0	15.7	13.8	14	<0.1	0.2	0.3	98	0.35	0.099
102854	Soil	0.8	37.8	5.8	112	0.1	37.7	7.2	299	1.97	3.0	1.7	1.4	1.7	22	0.4	0.4	0.1	25	0.02	0.029
102855	Soil	0.2	4.1	1.5	3	<0.1	2.2	1.1	25	0.13	0.7	0.4	1.1	0.5	3	<0.1	0.1	<0.1	3	<0.01	0.004
102856	Soil	0.7	6.9	4.8	11	<0.1	8.7	4.2	100	0.74	4.5	0.3	1.1	0.8	7	<0.1	0.3	<0.1	15	0.03	0.013
102857	Soil	1.0	11.6	6.4	23	0.1	11.3	3.0	84	1.33	7.6	0.3	1.2	1.3	4	<0.1	0.4	0.1	28	0.03	0.017
102858	Soil	0.8	16.3	7.2	17	<0.1	12.4	3.1	143	1.10	5.4	0.7	4.4	1.8	17	<0.1	0.4	0.1	19	0.11	0.015
102859	Soil	1.0	23.6	10.7	43	<0.1	14.9	5.4	307	1.95	8.1	2.1	2.8	3.7	35	<0.1	0.5	0.1	35	0.21	0.014
102860	Soil	0.9	23.6	13.3	48	<0.1	16.1	7.6	259	2.03	5.5	1.5	2.8	3.3	50	<0.1	0.5	0.2	38	0.33	0.015
102861	Soil	0.7	25.1	20.4	23	<0.1	20.4	2.5	93	0.73	2.5	6.1	3.8	10.1	76	0.1	0.4	0.3	22	0.62	0.012
102862	Soil	1.0	24.2	11.6	61	0.2	23.5	6.3	189	1.97	8.0	2.1	3.6	5.2	90	0.3	0.6	0.2	40	0.69	0.053
102863	Soil	0.6	12.7	21.0	24	<0.1	13.9	1.7	84	0.43	1.7	3.8	1.5	7.4	223	0.2	0.3	0.2	12	0.81	0.023
102864	Soil	0.8	27.1	10.1	69	0.2	25.9	8.4	367	2.65	5.8	1.6	4.9	3.7	28	0.1	0.4	0.2	53	0.43	0.052
102865	Soil	0.9	27.0	11.9	66	0.1	24.1	8.5	323	2.64	7.2	0.9	3.2	3.7	35	0.2	0.5	0.2	47	0.42	0.051
102866	Soil	0.8	24.6	8.6	63	0.1	20.8	6.6	245	2.41	5.7	1.0	3.3	3.6	22	0.1	0.4	0.1	43	0.33	0.053
102867	Soil	0.9	24.8	9.3	64	0.2	23.1	9.0	369	2.49	6.8	1.1	3.9	2.9	38	0.2	0.5	0.2	46	0.59	0.057
102868	Soil	0.5	10.8	21.3	33	<0.1	8.5	2.7	154	0.91	2.2	3.9	1.0	10.7	286	<0.1	0.2	0.2	19	0.57	0.015
102869	Soil	0.5	16.8	13.9	50	<0.1	13.6	6.7	222	1.93	2.5	1.6	1.2	5.1	98	<0.1	0.2	0.2	28	0.59	0.050
102870	Soil	1.9	102.4	15.0	369	<0.1	63.5	42.6	3029	6.04	13.5	1.9	1.4	5.7	45	0.5	0.3	0.2	100	0.29	0.023
102871	Soil	0.8	20.5	14.4	50	<0.1	19.6	7.2	327	2.16	6.0	1.5	2.6	5.1	56	<0.1	0.4	0.2	36	0.41	0.026
102872	Soil	1.0	17.8	11.7	72	<0.1	17.9	6.5	173	1.44	5.7	1.3	1.6	6.0	19	<0.1	0.4	0.2	27	0.13	0.013
102873	Soil	0.5	37.8	3.7	31	0.1	14.7	11.3	804	0.81	3.0	1.5	1.4	1.6	6	<0.1	0.3	<0.1	12	<0.01	0.008
102874	Soil	1.4	40.5	13.0	99	<0.1	38.7	18.0	478	4.34	7.9	1.5	2.7	8.0	8	0.1	0.3	0.2	61	0.11	0.069
102875	Soil	1.0	62.9	17.8	164	<0.1	38.5	7.1	153	4.14	1.8	2.3	4.2	17.3	7	<0.1	<0.1	0.3	87	0.08	0.039
106530	Soil	1.0	25.9	6.7	39	0.1	10.8	4.9	170	2.14	8.2	1.0	6.7	3.8	8	<0.1	2.0	0.2	35	0.08	0.027
106531	Soil	1.4	27.2	8.3	40	0.1	13.2	6.6	208	2.18	9.0	1.3	3.9	3.9	8	<0.1	1.8	0.2	43	0.06	0.029
106532	Soil	1.4	25.5	8.7	49	0.1	18.2	10.8	509	2.40	7.3	0.8	4.5	2.7	7	<0.1	1.2	0.2	47	0.06	0.032
106533	Soil	1.3	17.0	8.9	58	<0.1	15.6	10.2	441	2.35	5.2	0.8	5.5	3.8	7	<0.1	0.7	0.2	48	0.07	0.040
106534	Soil	0.9	21.2	7.0	49	0.1	14.8	5.5	171	1.89	3.9	1.1	3.3	4.3	10	<0.1	0.7	0.1	37	0.11	0.031
106535	Soil	1.0	29.0	9.5	54	0.1	18.4	6.9	181	2.25	4.3	1.4	8.1	4.4	15	<0.1	0.5	0.2	43	0.17	0.040
106536	Soil	1.2	36.1	9.5	53	<0.1	25.4	10.8	273	2.71	6.4	1.6	7.2	5.7	12	<0.1	0.7	0.2	51	0.09	0.017

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
102853	Soil	54	50	0.95	462	0.292	<1	2.44	0.011	1.26	<0.1	0.02	3.9	0.6	<0.05	7	<0.5	<0.2
102854	Soil	6	20	0.05	248	0.011	1	0.61	0.001	0.01	<0.1	0.02	2.4	<0.1	0.06	2	0.6	<0.2
102855	Soil	3	3	<0.01	19	0.002	<1	0.15	<0.001	<0.01	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
102856	Soil	3	11	0.06	64	0.012	<1	0.72	0.002	0.02	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
102857	Soil	4	17	0.15	73	0.018	<1	1.21	0.002	0.02	<0.1	0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
102858	Soil	8	15	0.15	146	0.020	<1	0.48	0.005	0.02	<0.1	0.01	2.2	0.4	<0.05	2	<0.5	<0.2
102859	Soil	17	21	0.32	466	0.020	<1	1.22	0.005	0.05	<0.1	0.03	3.3	0.3	<0.05	4	<0.5	<0.2
102860	Soil	19	23	0.37	436	0.016	<1	1.51	0.007	0.05	<0.1	0.04	3.2	0.1	<0.05	5	<0.5	<0.2
102861	Soil	37	15	0.19	477	0.009	1	0.75	0.005	0.07	<0.1	0.11	3.1	0.1	0.05	3	<0.5	<0.2
102862	Soil	18	21	0.39	420	0.029	2	1.12	0.015	0.07	<0.1	0.07	2.7	0.2	0.06	4	<0.5	<0.2
102863	Soil	25	5	0.18	1322	0.018	2	0.60	0.010	0.07	<0.1	0.03	1.7	<0.1	0.11	2	0.6	<0.2
102864	Soil	14	32	0.53	333	0.071	1	1.59	0.013	0.14	0.2	0.04	2.8	0.1	<0.05	5	<0.5	<0.2
102865	Soil	15	28	0.48	330	0.056	<1	1.53	0.014	0.10	0.1	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
102866	Soil	14	27	0.46	273	0.055	<1	1.36	0.011	0.08	0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
102867	Soil	13	27	0.47	365	0.045	1	1.42	0.015	0.05	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
102868	Soil	23	11	0.30	2299	0.007	1	1.24	0.016	0.12	<0.1	0.02	1.3	0.1	<0.05	3	<0.5	<0.2
102869	Soil	22	15	0.41	646	0.007	<1	1.43	0.009	0.11	<0.1	0.04	2.4	0.2	<0.05	4	<0.5	<0.2
102870	Soil	64	72	1.35	1731	0.151	1	2.05	0.007	0.82	0.1	0.05	14.8	0.7	<0.05	10	<0.5	<0.2
102871	Soil	21	21	0.42	398	0.010	<1	1.40	0.009	0.06	<0.1	0.02	2.9	0.2	<0.05	4	<0.5	<0.2
102872	Soil	22	15	0.16	331	0.016	<1	0.66	0.003	0.11	<0.1	0.04	2.8	0.5	<0.05	4	<0.5	<0.2
102873	Soil	7	8	0.02	229	0.006	<1	0.28	<0.001	<0.01	<0.1	0.03	2.0	0.2	<0.05	<1	<0.5	<0.2
102874	Soil	21	39	0.59	184	0.130	<1	2.02	0.005	0.63	<0.1	0.01	2.3	0.4	<0.05	6	0.6	<0.2
102875	Soil	57	53	0.85	263	0.223	<1	2.36	0.009	1.03	<0.1	<0.01	4.6	0.7	<0.05	8	0.6	<0.2
106530	Soil	12	17	0.17	120	0.028	<1	0.81	0.004	0.04	0.1	0.06	1.9	0.2	<0.05	3	<0.5	<0.2
106531	Soil	14	20	0.20	127	0.035	<1	1.04	0.005	0.04	0.1	0.04	1.9	0.1	<0.05	4	<0.5	<0.2
106532	Soil	11	28	0.28	127	0.035	<1	1.35	0.005	0.04	0.1	0.02	1.7	0.1	<0.05	4	<0.5	<0.2
106533	Soil	13	22	0.28	138	0.052	<1	1.18	0.004	0.09	0.1	0.01	1.6	0.2	<0.05	5	<0.5	<0.2
106534	Soil	13	22	0.29	168	0.046	<1	0.97	0.005	0.07	<0.1	0.03	2.3	0.1	<0.05	3	<0.5	<0.2
106535	Soil	17	24	0.34	223	0.045	<1	1.15	0.007	0.08	<0.1	0.06	3.1	0.1	<0.05	4	<0.5	<0.2
106536	Soil	18	29	0.37	246	0.057	<1	1.54	0.008	0.07	<0.1	0.06	4.8	0.1	<0.05	4	<0.5	<0.2

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Project: Montana
 Report Date: September 14, 2011

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CERTIFICATE OF ANALYSIS

WHI11001144.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
106537	Soil	0.8	40.9	10.1	79	<0.1	27.7	8.9	217	2.73	1.8	1.0	4.6	3.7	7	<0.1	0.4	0.2	59	0.08	0.034
106538	Soil	1.3	36.9	8.0	53	<0.1	24.0	6.7	228	2.61	3.8	1.6	4.9	7.5	8	<0.1	1.1	0.2	44	0.07	0.026
106539	Soil	1.1	31.2	9.7	57	<0.1	21.8	7.9	229	2.63	4.6	1.4	3.6	5.3	14	<0.1	0.4	0.2	48	0.14	0.018
106540	Soil	1.2	30.8	8.2	51	<0.1	20.6	7.9	255	2.47	4.0	1.4	4.1	5.1	14	<0.1	0.4	0.2	46	0.13	0.019
106541	Soil	1.2	34.6	8.8	57	<0.1	22.5	8.5	262	2.59	4.5	1.5	4.7	5.6	15	<0.1	0.4	0.2	50	0.14	0.020
129219	Soil	1.2	33.1	8.4	55	0.1	17.2	5.8	188	2.24	2.6	1.4	3.8	6.8	6	<0.1	0.3	0.2	51	0.05	0.016
129220	Soil	1.4	36.6	12.0	111	<0.1	34.2	8.9	162	3.36	2.3	1.0	1.2	4.4	3	<0.1	0.3	0.2	64	0.02	0.065
129221	Soil	1.9	53.4	10.3	97	0.1	33.6	13.9	326	3.48	3.2	1.7	7.2	6.4	9	<0.1	0.8	0.4	65	0.05	0.040
129222	Soil	1.6	37.3	14.4	115	<0.1	30.0	9.8	212	3.46	2.4	1.1	1.1	6.5	6	<0.1	0.4	0.3	77	0.03	0.053
129223	Soil	1.4	40.8	10.7	74	<0.1	28.8	11.1	244	3.41	6.5	2.3	3.5	6.0	13	<0.1	0.8	0.2	65	0.09	0.032
129224	Soil	1.5	54.8	16.6	94	0.2	29.6	11.2	312	3.77	5.7	1.7	4.5	9.0	14	0.1	0.5	0.3	80	0.11	0.038
129225	Soil	1.7	31.1	9.8	52	0.2	23.4	8.3	262	2.82	12.2	1.4	4.1	4.7	13	<0.1	1.1	0.2	57	0.09	0.026
129226	Soil	1.5	22.8	13.2	73	0.2	22.7	7.6	476	2.92	5.6	1.1	3.1	5.6	10	<0.1	0.3	0.2	76	0.12	0.048
129227	Soil	1.2	28.4	15.6	99	<0.1	29.9	8.9	779	2.87	2.9	1.6	4.2	9.1	8	<0.1	0.3	0.2	60	0.10	0.039
129228	Soil	1.0	19.5	11.2	95	<0.1	17.9	6.3	322	2.89	4.3	0.9	1.1	8.3	9	0.1	0.3	0.2	48	0.11	0.023
129229	Soil	1.5	45.5	16.3	157	<0.1	34.8	11.7	373	3.59	4.3	1.6	1.9	16.0	8	0.1	0.5	0.4	73	0.12	0.029
129230	Soil	1.3	45.6	14.1	106	0.2	34.0	11.6	347	3.54	6.1	2.1	8.1	21.4	12	0.1	0.3	0.3	71	0.18	0.042
129231	Soil	1.3	17.3	12.6	98	0.5	19.7	6.7	711	2.87	4.7	1.3	2.0	11.8	9	0.2	0.3	0.3	45	0.13	0.028
129232	Soil	1.8	91.7	34.2	170	<0.1	40.5	12.3	379	4.17	1.7	2.5	3.3	20.5	7	<0.1	0.2	0.5	74	0.29	0.113
129233	Soil	1.1	24.6	76.4	575	<0.1	19.2	8.0	377	2.98	1.7	0.9	<0.5	7.7	7	0.5	0.2	0.2	56	0.16	0.036
129234	Soil	1.1	26.5	12.9	103	<0.1	21.3	7.6	457	2.81	4.5	1.8	5.2	15.9	11	<0.1	0.2	0.2	54	0.20	0.035
129235	Soil	1.5	14.9	14.2	751	0.2	14.7	6.0	335	2.55	26.7	1.7	1.6	12.1	5	1.0	0.6	0.2	29	0.08	0.032
129236	Soil	1.4	24.1	10.2	68	0.1	19.6	6.5	471	2.46	4.3	1.1	0.9	11.4	9	0.1	0.4	0.2	44	0.13	0.021
129237	Soil	1.1	32.7	12.6	147	<0.1	22.8	7.0	330	2.15	1.4	1.3	5.1	15.3	6	0.2	0.3	0.2	26	0.12	0.036
129238	Soil	1.1	30.2	11.6	68	0.1	29.3	8.5	165	2.69	6.0	0.9	2.5	6.4	13	<0.1	0.4	0.2	58	0.21	0.039
129239	Soil	1.2	23.1	12.5	68	0.4	26.8	9.6	230	2.67	5.9	0.7	1.1	5.1	16	<0.1	0.4	0.2	56	0.19	0.025
106514	Soil	0.8	26.6	14.5	69	<0.1	19.3	5.8	158	1.90	0.6	2.0	3.7	9.6	8	<0.1	<0.1	0.2	42	0.16	0.057
106515	Soil	0.6	38.8	16.9	163	<0.1	48.8	14.6	282	4.12	1.2	2.0	7.8	19.1	10	0.2	<0.1	0.3	75	0.26	0.088
106516	Soil	0.5	30.5	12.0	134	<0.1	29.5	8.8	385	3.24	3.5	1.6	3.7	23.4	13	<0.1	0.1	0.3	63	0.32	0.080
106517	Soil	0.4	41.5	28.0	228	<0.1	39.7	13.3	768	3.92	<0.5	1.8	3.3	20.4	12	0.2	<0.1	0.4	74	0.32	0.104

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Project: Montana
Report Date: September 14, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
106537	Soil	10	35	0.54	228	0.128	<1	1.40	0.007	0.48	<0.1	0.03	3.9	0.6	<0.05	5	<0.5	<0.2
106538	Soil	15	35	0.23	173	0.046	<1	0.85	0.004	0.16	<0.1	0.04	4.1	0.2	<0.05	3	0.5	<0.2
106539	Soil	16	29	0.37	288	0.075	<1	1.49	0.006	0.10	<0.1	0.04	3.7	0.1	<0.05	5	<0.5	<0.2
106540	Soil	15	29	0.32	247	0.069	<1	1.27	0.006	0.10	<0.1	0.03	3.6	0.1	<0.05	4	<0.5	<0.2
106541	Soil	17	30	0.36	275	0.074	<1	1.35	0.007	0.11	<0.1	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
129219	Soil	17	28	0.31	197	0.061	<1	1.07	0.004	0.16	<0.1	0.02	2.8	0.2	<0.05	4	0.5	<0.2
129220	Soil	16	33	0.43	130	0.127	<1	1.37	0.005	0.45	<0.1	<0.01	2.1	0.4	<0.05	6	<0.5	<0.2
129221	Soil	16	35	0.45	230	0.122	2	1.63	0.006	0.41	<0.1	0.06	5.3	0.4	<0.05	5	0.5	<0.2
129222	Soil	18	43	0.60	162	0.190	1	1.75	0.006	0.63	<0.1	0.01	3.2	0.6	<0.05	7	0.6	0.2
129223	Soil	18	38	0.51	219	0.122	1	1.70	0.007	0.34	<0.1	0.04	6.6	0.3	<0.05	5	0.9	<0.2
129224	Soil	21	45	0.62	363	0.156	2	2.04	0.008	0.41	0.1	0.02	5.0	0.4	<0.05	6	0.7	<0.2
129225	Soil	14	29	0.36	227	0.070	1	1.53	0.006	0.06	0.1	0.12	3.9	0.1	<0.05	5	0.7	<0.2
129226	Soil	17	32	0.41	177	0.144	<1	1.43	0.006	0.28	0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
129227	Soil	27	35	0.40	182	0.142	<1	1.31	0.005	0.41	0.1	0.03	4.5	0.4	<0.05	6	<0.5	<0.2
129228	Soil	24	23	0.44	190	0.124	1	1.68	0.005	0.39	0.1	0.02	4.3	0.4	<0.05	7	<0.5	<0.2
129229	Soil	56	40	0.49	230	0.194	<1	1.59	0.005	0.56	0.1	0.01	5.2	0.6	<0.05	7	0.9	<0.2
129230	Soil	80	39	0.66	272	0.186	<1	1.97	0.007	0.46	<0.1	0.03	4.6	0.5	<0.05	7	1.0	<0.2
129231	Soil	25	26	0.41	231	0.141	2	1.48	0.005	0.54	0.1	<0.01	3.6	0.5	<0.05	6	<0.5	<0.2
129232	Soil	65	40	0.47	192	0.172	1	1.50	0.005	0.74	<0.1	0.03	4.0	0.6	<0.05	6	1.4	<0.2
129233	Soil	10	25	0.45	192	0.166	<1	1.53	0.005	0.66	0.1	<0.01	5.4	0.6	<0.05	7	0.7	<0.2
129234	Soil	45	25	0.47	240	0.151	<1	1.39	0.009	0.55	0.2	0.04	5.9	0.5	<0.05	8	<0.5	<0.2
129235	Soil	19	19	0.15	89	0.035	<1	0.67	0.003	0.17	0.1	0.17	2.4	0.2	<0.05	3	0.7	<0.2
129236	Soil	18	25	0.29	145	0.084	<1	1.04	0.004	0.28	<0.1	0.02	4.0	0.3	<0.05	4	<0.5	<0.2
129237	Soil	22	18	0.14	120	0.041	<1	0.56	0.002	0.19	<0.1	0.07	3.8	0.2	<0.05	3	1.1	<0.2
129238	Soil	18	32	0.57	191	0.124	<1	1.40	0.008	0.39	0.1	0.02	3.0	0.3	<0.05	4	<0.5	<0.2
129239	Soil	13	34	0.53	242	0.108	1	1.43	0.009	0.28	0.1	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
106514	Soil	27	23	0.33	155	0.105	<1	1.03	0.005	0.51	<0.1	<0.01	2.6	0.3	<0.05	4	0.9	<0.2
106515	Soil	46	48	0.83	359	0.235	<1	2.21	0.011	1.30	<0.1	<0.01	4.2	0.7	<0.05	8	0.6	<0.2
106516	Soil	17	31	0.61	232	0.193	<1	1.87	0.007	0.81	<0.1	0.01	3.0	0.6	<0.05	7	<0.5	<0.2
106517	Soil	124	46	0.74	295	0.258	<1	2.25	0.007	1.34	<0.1	<0.01	4.6	0.9	<0.05	8	<0.5	<0.2



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 Report Date: September 14, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
106518	Soil	0.9	24.8	9.9	70	0.1	20.3	9.9	310	2.81	7.3	1.9	2.0	9.1	12	0.1	0.4	0.2	52	0.12	0.020
106519	Soil	0.5	22.0	8.5	111	<0.1	16.2	5.9	353	2.59	2.7	2.6	1.2	18.8	10	<0.1	0.1	0.3	33	0.16	0.039
106520	Soil	0.4	51.7	25.7	266	<0.1	42.8	13.5	755	4.79	1.0	1.5	2.1	19.6	14	0.1	0.1	0.4	80	0.30	0.087
129172	Soil	1.0	20.8	10.3	69	0.1	23.3	10.3	426	2.43	7.1	1.0	3.0	4.7	28	0.2	0.5	0.2	51	0.41	0.073
129173	Soil	0.8	20.5	9.7	58	0.2	18.8	8.7	217	2.32	7.0	1.1	2.9	3.2	25	<0.1	0.5	0.2	49	0.31	0.065
129174	Soil	1.1	25.4	12.6	71	0.2	21.7	9.7	242	2.60	6.6	1.6	2.3	6.6	22	0.2	0.4	0.2	50	0.28	0.063
129175	Soil	1.0	26.9	11.0	85	<0.1	23.8	9.0	242	2.97	4.7	1.5	3.9	8.6	16	0.1	0.3	0.2	63	0.27	0.085
129176	Soil	0.8	25.8	10.8	73	<0.1	19.9	7.4	192	2.65	6.7	1.7	5.5	6.8	20	<0.1	0.3	0.2	57	0.24	0.041
129177	Soil	1.1	28.5	11.6	79	0.1	23.3	9.6	223	3.07	5.4	1.3	2.0	6.8	15	<0.1	0.3	0.2	65	0.19	0.040
129178	Soil	1.3	47.3	11.8	85	<0.1	38.1	10.7	183	3.72	3.4	1.8	3.5	7.0	13	0.1	0.1	0.3	88	0.28	0.099
129179	Soil	0.5	39.6	15.3	141	<0.1	32.2	11.0	734	4.22	1.9	3.2	2.5	11.6	17	0.1	0.2	0.1	97	0.26	0.058
129180	Soil	0.4	27.5	7.6	103	<0.1	15.1	8.0	787	2.87	1.6	1.9	1.3	12.8	10	<0.1	0.1	0.1	51	0.13	0.019
129181	Soil	0.8	21.4	4.5	35	<0.1	17.5	7.7	629	3.37	5.2	1.8	1.6	13.7	10	<0.1	0.2	0.1	43	0.12	0.021
129182	Soil	0.5	50.4	8.9	111	<0.1	82.0	11.5	623	3.59	2.9	1.4	2.1	8.1	15	<0.1	<0.1	0.2	112	0.29	0.050
129183	Soil	1.0	75.1	26.5	152	<0.1	40.9	10.6	594	4.05	2.6	1.7	8.8	12.3	10	<0.1	<0.1	0.3	100	0.18	0.059
129184	Soil	3.2	58.1	68.2	295	0.1	30.1	9.5	542	3.64	14.5	2.9	10.0	12.0	9	0.9	0.5	0.2	63	0.10	0.079
129185	Soil	0.6	72.7	22.6	1284	<0.1	30.4	10.3	449	3.79	40.7	1.7	3.6	13.5	7	0.5	0.1	0.3	77	0.10	0.037
129186	Soil	0.8	59.7	16.5	139	<0.1	53.7	15.1	183	5.29	14.9	2.3	3.4	17.4	8	<0.1	0.1	0.4	101	0.14	0.061
129187	Soil	0.5	56.2	18.7	183	<0.1	29.6	8.9	167	3.52	2.9	1.2	2.1	8.0	12	0.2	0.1	0.2	75	0.23	0.071
129188	Soil	0.8	21.1	10.5	73	<0.1	22.0	8.9	289	2.61	5.1	0.8	0.6	5.4	9	<0.1	0.2	0.1	53	0.15	0.040
129189	Soil	1.3	17.3	10.2	180	0.1	18.8	8.0	310	3.06	4.6	0.9	<0.5	5.9	8	0.4	0.1	0.2	56	0.08	0.022
129190	Soil	1.2	22.3	10.2	228	0.1	22.0	8.8	392	3.21	5.5	1.2	0.5	6.9	8	0.6	0.1	0.2	60	0.09	0.036
129191	Soil	0.6	29.0	21.7	98	<0.1	17.0	5.1	60	1.17	5.8	1.7	2.2	9.7	6	0.1	0.2	0.2	27	0.06	0.020
129192	Soil	1.8	49.6	14.9	137	0.1	25.9	5.2	277	3.72	163.2	1.4	0.5	6.6	10	<0.1	0.2	0.2	76	0.17	0.057
129193	Soil	0.3	11.6	8.0	103	<0.1	6.5	1.5	448	3.75	22.5	0.9	5.8	10.9	12	<0.1	<0.1	0.2	11	0.16	0.008
129194	Soil	0.7	24.8	10.4	125	<0.1	11.8	2.1	197	3.92	21.7	2.0	5.1	15.4	9	<0.1	0.2	0.2	10	0.08	0.016
129195	Soil	0.4	29.0	12.7	156	0.1	81.4	13.6	721	4.06	4.9	1.7	1.5	5.0	19	0.1	0.2	0.2	87	0.29	0.027
129196	Soil	2.3	27.7	12.8	89	<0.1	20.7	7.9	193	2.21	13.5	4.1	2.5	8.5	11	<0.1	0.3	0.2	40	0.08	0.009
129197	Soil	2.6	39.4	16.6	75	<0.1	27.2	10.7	273	3.49	22.5	1.3	6.1	7.3	20	<0.1	0.7	0.2	64	0.20	0.025
129198	Soil	1.7	35.2	15.2	72	<0.1	22.9	7.6	246	2.61	13.2	0.9	3.3	6.7	17	<0.1	0.6	0.2	55	0.17	0.020

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Project: Montana
 Report Date: September 14, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
106518	Soil	18	31	0.52	165	0.118	1	1.74	0.008	0.29	0.2	<0.01	3.8	0.3	<0.05	6	<0.5	<0.2
106519	Soil	28	17	0.45	156	0.122	<1	1.37	0.005	0.64	<0.1	<0.01	2.8	0.5	<0.05	5	<0.5	<0.2
106520	Soil	55	49	0.88	364	0.289	<1	2.50	0.007	1.52	<0.1	<0.01	4.8	1.1	<0.05	9	<0.5	<0.2
129172	Soil	16	31	0.48	292	0.068	2	1.37	0.015	0.11	0.2	0.03	3.4	0.1	<0.05	4	0.5	<0.2
129173	Soil	16	26	0.41	323	0.058	1	1.53	0.012	0.06	0.1	0.04	3.4	<0.1	<0.05	5	0.6	<0.2
129174	Soil	24	31	0.47	317	0.088	<1	1.73	0.010	0.18	0.1	0.05	4.2	0.2	<0.05	5	0.7	<0.2
129175	Soil	24	36	0.55	299	0.143	1	1.61	0.008	0.51	0.2	<0.01	3.7	0.3	<0.05	5	<0.5	<0.2
129176	Soil	22	33	0.45	280	0.102	<1	1.71	0.008	0.20	<0.1	0.02	3.9	0.2	<0.05	5	<0.5	<0.2
129177	Soil	20	38	0.55	253	0.131	1	1.94	0.007	0.33	<0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
129178	Soil	22	57	0.89	329	0.211	<1	2.27	0.011	0.89	<0.1	<0.01	4.7	0.5	<0.05	7	<0.5	<0.2
129179	Soil	34	51	0.75	472	0.241	1	2.26	0.009	1.06	0.1	0.01	9.3	0.5	<0.05	11	<0.5	<0.2
129180	Soil	29	25	0.54	251	0.172	1	1.71	0.006	0.82	0.2	0.01	7.0	0.5	<0.05	7	<0.5	<0.2
129181	Soil	43	21	0.42	203	0.052	1	1.56	0.006	0.36	<0.1	0.01	4.5	0.2	<0.05	7	0.7	<0.2
129182	Soil	16	175	2.03	1044	0.200	<1	3.12	0.013	1.46	0.2	<0.01	11.7	0.5	<0.05	12	<0.5	<0.2
129183	Soil	30	47	0.78	454	0.240	<1	2.00	0.008	1.18	<0.1	0.01	4.7	0.5	<0.05	7	0.9	<0.2
129184	Soil	43	30	0.25	142	0.032	<1	1.01	0.003	0.20	<0.1	0.17	4.2	0.1	<0.05	5	1.6	<0.2
129185	Soil	45	46	0.76	190	0.247	<1	2.20	0.005	0.84	<0.1	0.01	3.4	0.9	<0.05	7	1.0	<0.2
129186	Soil	51	58	0.98	219	0.249	<1	2.84	0.006	1.24	<0.1	<0.01	5.1	0.8	<0.05	9	0.9	0.2
129187	Soil	28	46	0.86	277	0.181	<1	1.98	0.007	0.95	<0.1	<0.01	4.2	0.6	<0.05	6	0.6	<0.2
129188	Soil	15	35	0.66	238	0.133	<1	1.56	0.005	0.46	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
129189	Soil	17	25	0.46	184	0.171	<1	1.71	0.006	0.65	0.2	<0.01	3.6	0.5	<0.05	8	<0.5	<0.2
129190	Soil	23	31	0.50	193	0.164	<1	1.74	0.005	0.61	0.2	0.01	3.8	0.5	<0.05	8	0.7	<0.2
129191	Soil	30	16	0.09	80	0.004	<1	0.51	0.002	0.07	<0.1	0.01	2.6	<0.1	<0.05	2	0.8	<0.2
129192	Soil	26	48	1.19	529	0.182	<1	2.56	0.007	1.07	<0.1	0.01	4.6	0.6	<0.05	9	1.5	0.2
129193	Soil	30	5	0.90	304	0.089	<1	2.04	0.004	1.14	<0.1	0.01	6.3	0.7	<0.05	9	0.7	<0.2
129194	Soil	59	7	0.43	128	0.051	<1	1.79	0.005	0.66	0.2	<0.01	9.5	0.4	<0.05	10	<0.5	<0.2
129195	Soil	13	142	1.80	834	0.182	<1	2.84	0.012	1.21	0.2	0.01	8.7	0.6	<0.05	10	1.0	<0.2
129196	Soil	30	30	0.47	231	0.113	<1	1.46	0.005	0.50	<0.1	0.01	4.9	0.9	<0.05	5	0.7	<0.2
129197	Soil	20	35	0.42	367	0.074	<1	1.71	0.006	0.22	<0.1	0.05	6.0	0.8	<0.05	6	<0.5	<0.2
129198	Soil	19	34	0.40	308	0.091	<1	1.44	0.005	0.35	<0.1	0.04	4.8	0.7	<0.05	5	<0.5	<0.2

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Project: Montana
 Report Date: September 14, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
129199	Soil	1.0	33.3	14.5	86	<0.1	25.7	10.2	352	3.10	11.3	1.1	4.1	7.0	21	<0.1	0.4	0.2	57	0.24	0.028
129200	Soil	1.0	29.5	12.4	65	0.1	20.6	9.0	234	2.56	10.5	0.9	0.9	4.2	25	0.1	0.5	0.2	51	0.35	0.046
129201	Soil	1.0	34.1	11.6	77	0.2	27.9	11.1	385	2.96	10.2	0.9	1.6	4.2	33	0.3	0.6	0.2	54	0.62	0.064
129202	Soil	0.8	30.3	8.4	66	0.1	27.6	10.5	417	2.49	8.4	0.5	1.1	3.6	41	0.3	0.5	0.2	49	1.15	0.076
126203	Soil	0.8	29.7	8.8	66	0.1	28.4	10.1	366	2.50	8.9	0.5	6.8	3.9	38	0.3	0.6	0.1	50	1.12	0.077
129204	Soil	0.8	29.4	10.1	54	0.2	17.0	6.0	166	2.14	6.7	1.0	5.9	4.0	17	0.1	1.1	0.1	41	0.22	0.040
129205	Soil	0.9	23.1	11.0	61	0.1	19.6	7.5	195	2.32	8.1	1.0	3.1	2.7	23	0.2	1.0	0.2	46	0.30	0.057
129206	Soil	1.7	52.6	16.1	79	0.4	29.4	11.4	348	3.59	13.7	1.8	10.7	2.8	25	0.4	1.5	0.3	72	0.26	0.059
129207	Soil	0.8	25.1	12.0	61	0.1	18.6	10.2	262	2.54	8.3	1.1	1.9	3.6	19	<0.1	0.9	0.2	50	0.24	0.048
129208	Soil	0.9	30.2	11.6	64	0.1	20.6	8.3	246	2.67	9.4	1.5	3.5	4.8	22	0.1	1.1	0.2	50	0.27	0.040
129209	Soil	1.0	29.5	11.1	71	0.1	20.4	8.7	252	2.65	9.1	1.3	2.7	4.4	21	0.1	1.7	0.2	46	0.26	0.050
129210	Soil	1.4	15.9	11.1	54	<0.1	17.0	13.3	538	2.73	10.5	0.6	3.4	1.9	9	0.1	1.2	0.2	52	0.10	0.053
129211	Soil	1.0	26.3	11.2	53	<0.1	17.0	7.3	200	2.52	8.9	1.2	0.9	5.0	19	<0.1	0.8	0.2	49	0.21	0.028
129212	Soil	0.7	25.8	7.9	41	0.1	15.1	5.5	154	1.85	6.1	1.1	1.6	3.8	13	<0.1	1.4	0.2	37	0.15	0.033
129213	Soil	1.1	26.8	11.0	40	0.1	16.4	9.5	254	2.42	8.4	0.9	5.6	4.7	8	<0.1	1.8	0.2	48	0.07	0.018
129214	Soil	1.2	43.9	8.6	39	0.2	17.3	9.2	261	2.29	9.3	2.0	4.3	7.5	10	<0.1	1.8	0.2	42	0.08	0.018
129215	Soil	1.0	41.0	16.2	20	<0.1	6.4	2.9	113	1.22	7.7	2.3	2.9	9.9	6	<0.1	2.7	0.2	33	0.01	0.030
129216	Soil	1.1	37.6	11.7	50	0.1	16.0	6.5	216	1.69	5.2	1.8	3.9	9.9	6	<0.1	1.9	0.2	33	0.03	0.028
129217	Soil	1.5	32.9	9.5	41	0.1	16.6	9.6	265	2.27	6.8	1.2	3.4	5.5	6	<0.1	1.0	0.3	42	0.04	0.020
129218	Soil	1.3	36.8	9.0	70	<0.1	22.9	6.4	160	2.42	2.7	1.7	8.7	7.9	4	<0.1	0.9	0.3	46	0.02	0.038



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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
129199	Soil	18	33	0.39	315	0.079	<1	1.66	0.007	0.35	<0.1	0.03	5.3	0.5	<0.05	6	0.8	<0.2
129200	Soil	16	30	0.43	376	0.056	<1	1.55	0.011	0.08	<0.1	0.03	4.1	0.2	<0.05	4	0.9	<0.2
129201	Soil	16	31	0.60	414	0.060	<1	1.57	0.017	0.08	0.2	0.04	4.0	0.1	<0.05	5	0.8	<0.2
129202	Soil	12	26	0.75	273	0.066	2	1.25	0.025	0.09	0.1	0.03	3.2	0.1	<0.05	4	1.0	<0.2
126203	Soil	13	28	0.69	283	0.066	2	1.15	0.023	0.09	0.2	0.02	3.3	<0.1	<0.05	4	0.6	<0.2
129204	Soil	13	25	0.27	231	0.056	<1	0.96	0.008	0.06	0.1	0.14	4.2	0.2	<0.05	3	0.5	<0.2
129205	Soil	14	25	0.33	277	0.052	<1	1.32	0.010	0.05	0.2	0.09	3.0	<0.1	<0.05	4	0.6	<0.2
129206	Soil	13	43	0.34	416	0.058	<1	2.27	0.009	0.07	0.1	0.16	4.3	0.1	<0.05	7	0.5	<0.2
129207	Soil	14	27	0.37	299	0.053	<1	1.55	0.009	0.04	0.2	0.10	3.3	<0.1	<0.05	5	0.7	<0.2
129208	Soil	15	28	0.38	305	0.070	<1	1.61	0.010	0.06	0.1	0.16	4.6	0.1	<0.05	5	0.5	<0.2
129209	Soil	15	25	0.37	337	0.069	<1	1.45	0.010	0.06	0.1	0.24	3.7	0.2	<0.05	4	0.8	<0.2
129210	Soil	10	28	0.28	140	0.048	<1	1.37	0.006	0.05	0.2	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
129211	Soil	15	27	0.36	267	0.060	<1	1.48	0.008	0.06	<0.1	0.05	3.8	0.1	<0.05	5	<0.5	<0.2
129212	Soil	14	21	0.23	170	0.038	<1	0.91	0.006	0.04	<0.1	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
129213	Soil	11	27	0.29	140	0.039	<1	1.58	0.005	0.04	0.1	0.03	2.1	<0.1	<0.05	4	0.6	<0.2
129214	Soil	17	25	0.22	206	0.038	<1	1.07	0.004	0.04	<0.1	0.07	4.8	0.1	<0.05	3	1.0	<0.2
129215	Soil	33	14	0.07	117	0.019	<1	0.50	0.002	0.09	<0.1	0.05	3.6	<0.1	<0.05	2	1.3	<0.2
129216	Soil	25	17	0.13	144	0.035	<1	0.61	0.002	0.13	<0.1	0.05	4.2	0.2	<0.05	2	0.8	<0.2
129217	Soil	13	22	0.19	128	0.021	<1	1.02	0.003	0.04	0.1	0.03	3.0	0.1	<0.05	3	<0.5	<0.2
129218	Soil	24	25	0.23	141	0.060	2	0.92	0.004	0.22	<0.1	0.02	4.3	0.2	0.08	3	0.5	<0.2



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QUALITY CONTROL REPORT

WHI11001144.1

Method	Analyte	Unit	MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
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
102801	Soil			0.7	15.0	8.2	94	<0.1	7.4	3.7	372	2.52	2.0	1.2	1.4	8.9	9	<0.1	0.2	0.2	15	0.07	0.012
REP 102801	QC			0.8	15.0	8.5	95	<0.1	7.9	3.6	363	2.50	2.3	1.2	<0.5	9.3	9	<0.1	0.3	0.2	15	0.07	0.012
102829	Soil			0.5	23.6	9.2	137	<0.1	11.9	7.2	474	2.05	1.5	3.4	0.8	22.2	4	<0.1	0.7	0.3	32	0.02	0.022
REP 102829	QC			0.6	23.6	9.0	136	<0.1	12.1	7.3	471	1.98	1.5	3.4	1.2	22.4	4	0.1	0.6	0.3	33	0.02	0.021
102830	Soil			1.0	29.3	9.6	56	<0.1	20.9	8.2	329	2.32	7.6	1.5	5.0	7.8	22	<0.1	1.0	0.2	49	0.15	0.018
REP 102830	QC			0.9	30.3	9.8	59	<0.1	21.3	8.3	330	2.34	8.0	1.5	3.2	8.2	22	<0.1	1.0	0.2	48	0.15	0.018
123131	Soil			1.3	43.9	10.7	33	<0.1	12.9	9.4	143	2.14	7.5	2.5	1.7	11.7	5	<0.1	0.3	0.2	38	0.02	0.031
REP 123131	QC			1.5	43.4	10.4	32	<0.1	13.0	9.2	142	2.08	7.1	2.6	1.7	12.0	5	<0.1	0.3	0.2	38	0.02	0.032
123152	Soil			2.9	68.1	9.3	68	0.1	37.1	13.4	652	2.86	5.5	1.6	3.8	5.3	8	<0.1	0.7	0.2	52	0.04	0.027
REP 123152	QC			2.8	68.5	9.3	69	0.2	36.8	13.3	637	2.73	5.7	1.6	1.1	5.3	8	<0.1	0.7	0.2	51	0.03	0.026
123206	Soil			1.1	39.6	22.1	67	<0.1	24.7	7.7	230	2.14	1.4	1.7	2.9	9.0	13	<0.1	0.3	0.2	44	0.05	0.028
REP 123206	QC			1.1	39.1	23.0	71	<0.1	25.0	7.8	227	2.08	1.7	1.8	3.2	9.1	13	<0.1	0.2	0.2	44	0.05	0.029
123224	Soil			0.7	18.6	7.8	102	0.1	19.8	7.7	395	3.77	4.8	1.1	0.7	12.3	10	<0.1	0.3	0.2	49	0.12	0.020
REP 123224	QC			0.7	17.6	7.5	98	<0.1	18.8	7.3	384	3.58	4.4	1.0	<0.5	12.1	9	<0.1	0.2	0.2	47	0.12	0.020
106416	Soil			1.3	46.1	14.0	105	<0.1	39.2	11.0	324	3.66	0.5	1.7	2.0	7.3	9	<0.1	0.3	0.2	91	0.02	0.037
REP 106416	QC			1.3	47.7	14.5	103	<0.1	40.8	11.4	326	3.79	0.5	1.6	1.8	7.0	9	<0.1	0.3	0.2	92	0.02	0.035
103437	Soil			1.2	29.9	10.0	123	<0.1	21.8	6.2	452	2.76	3.3	1.8	3.5	12.2	7	<0.1	<0.1	0.3	44	0.05	0.023
REP 103437	QC			1.3	31.1	10.0	127	<0.1	22.2	6.1	445	2.66	3.5	1.8	4.0	13.1	7	<0.1	<0.1	0.3	44	0.05	0.025
106491	Soil			1.6	55.0	10.9	136	0.1	38.6	10.8	405	4.21	14.2	1.0	2.8	13.0	6	0.1	0.3	0.3	73	0.21	0.112
REP 106491	QC			1.7	55.0	10.7	137	0.1	39.0	11.1	399	4.25	14.6	1.0	3.4	13.1	6	<0.1	0.4	0.3	71	0.21	0.114
106509	Soil			1.4	42.9	13.9	93	0.1	34.1	9.6	175	3.38	4.5	1.5	12.3	9.5	11	<0.1	0.3	0.2	70	0.12	0.037
REP 106509	QC			1.2	41.1	13.1	92	<0.1	35.2	9.4	178	3.36	4.4	1.5	7.8	9.3	11	<0.1	0.3	0.2	70	0.13	0.040
102859	Soil			1.0	23.6	10.7	43	<0.1	14.9	5.4	307	1.95	8.1	2.1	2.8	3.7	35	<0.1	0.5	0.1	35	0.21	0.014
REP 102859	QC			0.9	23.7	11.0	44	<0.1	14.3	5.3	315	1.99	7.7	2.1	2.4	3.9	35	<0.1	0.5	0.1	35	0.22	0.014
102874	Soil			1.4	40.5	13.0	99	<0.1	38.7	18.0	478	4.34	7.9	1.5	2.7	8.0	8	0.1	0.3	0.2	61	0.11	0.069
REP 102874	QC			1.4	40.0	12.9	100	<0.1	37.1	17.6	485	4.21	7.8	1.4	3.0	7.8	8	0.1	0.3	0.2	59	0.10	0.070
129226	Soil			1.5	22.8	13.2	73	0.2	22.7	7.6	476	2.92	5.6	1.1	3.1	5.6	10	<0.1	0.3	0.2	76	0.12	0.048
REP 129226	QC			1.5	22.7	13.5	74	0.1	22.5	7.6	465	2.85	5.0	1.1	1.4	5.8	11	<0.1	0.3	0.3	77	0.12	0.050

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Project: Montana
Report Date: September 14, 2011

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
102801	Soil	31	8	0.60	233	0.139	<1	1.73	0.005	0.69	0.1	<0.01	6.4	0.5	<0.05	8	1.0	<0.2
REP 102801	QC	31	9	0.62	236	0.141	<1	1.71	0.005	0.71	0.1	<0.01	6.5	0.6	<0.05	8	0.9	<0.2
102829	Soil	48	16	0.33	273	0.172	<1	1.02	0.004	0.54	<0.1	0.03	3.7	0.6	<0.05	5	<0.5	<0.2
REP 102829	QC	49	16	0.31	275	0.167	<1	1.04	0.004	0.52	<0.1	0.03	3.8	0.5	<0.05	5	<0.5	<0.2
102830	Soil	21	27	0.40	306	0.075	<1	1.26	0.010	0.05	<0.1	0.04	4.7	<0.1	<0.05	4	<0.5	<0.2
REP 102830	QC	22	27	0.40	300	0.079	<1	1.28	0.011	0.05	<0.1	0.05	4.8	<0.1	<0.05	4	0.5	<0.2
123131	Soil	31	20	0.16	92	0.037	<1	0.80	0.003	0.15	<0.1	0.05	5.4	0.2	<0.05	3	1.0	<0.2
REP 123131	QC	31	19	0.16	91	0.037	<1	0.81	0.003	0.15	<0.1	0.06	5.2	0.2	<0.05	3	0.9	<0.2
123152	Soil	15	35	0.36	273	0.076	<1	1.39	0.004	0.20	<0.1	0.05	5.4	0.3	<0.05	5	0.6	<0.2
REP 123152	QC	16	34	0.36	277	0.077	<1	1.42	0.005	0.21	<0.1	0.04	5.6	0.2	<0.05	5	0.7	<0.2
123206	Soil	24	31	0.32	430	0.100	<1	1.08	0.003	0.36	<0.1	0.03	3.7	0.4	<0.05	4	<0.5	<0.2
REP 123206	QC	24	33	0.33	437	0.103	<1	1.08	0.004	0.37	<0.1	0.03	4.0	0.4	<0.05	4	0.6	<0.2
123224	Soil	16	31	0.65	165	0.201	1	2.29	0.008	0.98	0.2	0.02	3.8	0.9	<0.05	9	<0.5	<0.2
REP 123224	QC	15	30	0.66	158	0.194	<1	2.26	0.008	0.94	0.2	0.01	3.8	0.8	<0.05	9	0.5	<0.2
106416	Soil	17	51	0.78	545	0.262	<1	1.95	0.013	1.01	<0.1	0.03	5.7	0.6	<0.05	7	<0.5	<0.2
REP 106416	QC	16	50	0.80	563	0.259	<1	1.98	0.013	1.03	<0.1	0.04	5.6	0.6	<0.05	7	<0.5	<0.2
103437	Soil	27	26	0.47	247	0.194	1	1.60	0.006	0.78	<0.1	0.02	2.8	0.5	<0.05	4	0.7	<0.2
REP 103437	QC	28	26	0.48	258	0.188	<1	1.65	0.006	0.77	<0.1	0.02	2.7	0.5	<0.05	5	<0.5	<0.2
106491	Soil	26	43	0.80	229	0.262	<1	2.23	0.009	1.22	<0.1	0.01	3.1	0.9	<0.05	7	<0.5	<0.2
REP 106491	QC	26	44	0.78	231	0.260	<1	2.22	0.009	1.21	<0.1	0.01	2.9	0.8	<0.05	7	<0.5	<0.2
106509	Soil	30	44	0.64	245	0.177	1	1.92	0.008	0.59	<0.1	0.02	4.1	0.3	<0.05	6	<0.5	<0.2
REP 106509	QC	30	43	0.63	240	0.174	1	1.85	0.007	0.60	<0.1	0.02	4.1	0.3	<0.05	6	0.5	<0.2
102859	Soil	17	21	0.32	466	0.020	<1	1.22	0.005	0.05	<0.1	0.03	3.3	0.3	<0.05	4	<0.5	<0.2
REP 102859	QC	17	20	0.32	457	0.020	<1	1.22	0.005	0.05	0.1	0.05	3.3	0.3	<0.05	4	<0.5	<0.2
102874	Soil	21	39	0.59	184	0.130	<1	2.02	0.005	0.63	<0.1	0.01	2.3	0.4	<0.05	6	0.6	<0.2
REP 102874	QC	21	39	0.57	191	0.127	<1	2.02	0.005	0.62	<0.1	<0.01	2.3	0.4	<0.05	5	0.6	<0.2
129226	Soil	17	32	0.41	177	0.144	<1	1.43	0.006	0.28	0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
REP 129226	QC	17	32	0.41	179	0.162	2	1.43	0.006	0.29	0.2	0.01	3.7	0.3	<0.05	7	<0.5	<0.2

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Project: Montana
 Report Date: September 14, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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
129239	Soil	1.2	23.1	12.5	68	0.4	26.8	9.6	230	2.67	5.9	0.7	1.1	5.1	16	<0.1	0.4	0.2	56	0.19	0.025
REP 129239	QC	1.2	23.6	11.8	69	0.4	27.7	9.4	230	2.68	6.1	0.7	1.9	5.0	16	<0.1	0.4	0.2	56	0.20	0.027
129182	Soil	0.5	50.4	8.9	111	<0.1	82.0	11.5	623	3.59	2.9	1.4	2.1	8.1	15	<0.1	<0.1	0.2	112	0.29	0.050
REP 129182	QC	0.6	49.2	8.6	105	<0.1	77.9	11.2	609	3.53	2.7	1.4	<0.5	7.8	14	<0.1	<0.1	0.2	110	0.29	0.053
129210	Soil	1.4	15.9	11.1	54	<0.1	17.0	13.3	538	2.73	10.5	0.6	3.4	1.9	9	0.1	1.2	0.2	52	0.10	0.053
REP 129210	QC	1.3	15.9	11.1	54	<0.1	17.0	13.5	543	2.74	10.7	0.7	<0.5	1.9	10	0.1	1.2	0.2	54	0.10	0.054
Reference Materials																					
STD DS8	Standard	13.8	106.4	131.7	319	1.8	36.7	7.4	618	2.43	25.6	3.1	105.5	7.7	78	2.0	6.2	7.0	42	0.72	0.077
STD DS8	Standard	11.6	108.4	123.6	315	1.8	36.9	7.5	620	2.42	25.1	2.5	103.9	6.6	58	2.3	4.3	6.2	40	0.69	0.079
STD DS8	Standard	13.8	113.8	138.5	323	1.8	40.7	7.7	632	2.49	24.8	3.4	110.8	8.1	82	2.4	6.8	8.2	44	0.69	0.079
STD DS8	Standard	12.5	105.9	120.9	319	1.8	39.2	7.4	614	2.43	23.2	2.5	115.8	6.2	58	2.2	4.9	6.0	42	0.68	0.077
STD DS8	Standard	13.6	110.8	134.6	325	1.8	37.1	7.5	625	2.47	25.9	2.7	111.7	6.9	62	2.4	5.2	6.8	42	0.73	0.083
STD DS8	Standard	13.6	113.1	127.4	316	1.8	37.8	7.6	624	2.54	26.2	2.9	114.2	7.5	68	2.4	5.7	6.7	44	0.71	0.086
STD DS8	Standard	14.6	118.9	128.3	320	1.9	41.4	8.2	650	2.60	25.8	3.2	104.1	7.4	68	2.2	5.9	7.0	47	0.68	0.078
STD DS8	Standard	12.8	102.7	122.8	323	1.8	39.2	7.2	613	2.49	22.2	2.4	118.1	6.0	61	2.0	4.5	5.9	41	0.68	0.073
STD DS8	Standard	12.5	114.8	129.9	342	2.1	41.1	8.1	648	2.75	25.3	2.5	152.6	6.2	60	2.5	4.7	6.5	43	0.71	0.078
STD DS8	Standard	14.3	111.7	127.2	331	1.8	39.2	7.8	649	2.54	26.9	2.7	114.2	7.0	68	2.4	5.0	6.5	44	0.79	0.085
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



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 Report Date: September 14, 2011

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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
129239	Soil	13	34	0.53	242	0.108	1	1.43	0.009	0.28	0.1	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
REP 129239	QC	13	34	0.52	239	0.110	1	1.48	0.009	0.27	<0.1	0.02	2.8	0.2	<0.05	5	<0.5	<0.2
129182	Soil	16	175	2.03	1044	0.200	<1	3.12	0.013	1.46	0.2	<0.01	11.7	0.5	<0.05	12	<0.5	<0.2
REP 129182	QC	16	166	2.01	1036	0.189	<1	3.15	0.013	1.40	0.2	<0.01	11.3	0.5	<0.05	12	1.1	<0.2
129210	Soil	10	28	0.28	140	0.048	<1	1.37	0.006	0.05	0.2	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
REP 129210	QC	11	28	0.29	146	0.053	<1	1.42	0.006	0.05	0.1	0.03	2.0	0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	18	111	0.64	291	0.130	2	0.94	0.105	0.44	3.2	0.21	2.2	5.3	0.16	5	7.1	4.9
STD DS8	Standard	13	116	0.61	261	0.096	2	0.90	0.083	0.43	2.7	0.21	2.5	5.4	0.22	5	5.2	4.8
STD DS8	Standard	17	120	0.62	276	0.137	3	0.91	0.085	0.40	2.8	0.19	2.1	5.5	0.13	5	4.8	4.8
STD DS8	Standard	14	122	0.60	270	0.105	2	0.89	0.079	0.41	2.8	0.19	1.9	5.2	0.19	5	5.2	4.7
STD DS8	Standard	17	120	0.63	286	0.118	3	0.97	0.093	0.41	3.1	0.23	2.3	5.6	0.17	5	6.0	5.0
STD DS8	Standard	16	117	0.63	283	0.124	3	0.97	0.088	0.42	3.2	0.20	2.2	5.6	0.16	5	4.9	5.0
STD DS8	Standard	15	127	0.63	279	0.128	2	0.91	0.081	0.40	2.8	0.19	1.9	5.4	0.14	4	5.1	5.0
STD DS8	Standard	12	124	0.62	246	0.098	2	0.90	0.076	0.40	3.0	0.20	1.4	5.6	0.17	5	5.3	4.8
STD DS8	Standard	14	124	0.64	253	0.113	2	0.90	0.086	0.44	2.9	0.23	2.1	5.8	0.13	5	5.0	4.5
STD DS8	Standard	18	127	0.68	292	0.140	3	1.04	0.101	0.44	3.1	0.22	2.5	5.4	0.21	5	4.9	4.9
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5 Canada

Submitted By: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: August 23, 2011
Report Date: September 19, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001145.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 20110813121304
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.

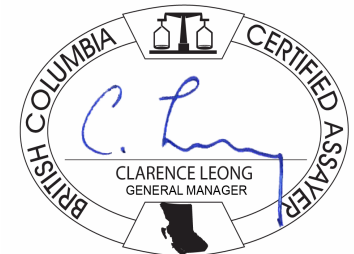
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

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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 Val D'Or QC J9P 1S5 Canada

Project: Montana
 Report Date: September 19, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001145.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
145501	Soil	1.0	18.2	13.0	41	<0.1	14.5	6.4	198	2.02	13.4	6.0	2.5	12.6	22	<0.1	0.6	0.5	41	0.26	0.031
145502	Soil	0.7	21.1	11.6	52	0.1	16.3	7.5	525	2.08	12.2	4.9	2.2	6.6	27	0.2	0.6	0.4	40	0.32	0.043
145503	Soil	1.0	24.0	13.9	39	<0.1	17.6	5.5	185	2.03	11.3	6.2	3.5	12.7	24	<0.1	0.6	0.5	40	0.31	0.030
145504	Soil	1.0	28.3	15.6	45	<0.1	19.1	6.3	205	2.44	15.4	8.5	7.2	13.5	28	<0.1	0.8	0.6	47	0.35	0.033
145505	Soil	0.6	14.3	12.2	30	<0.1	10.6	4.3	134	1.52	9.8	3.1	6.2	12.9	18	<0.1	0.5	0.5	32	0.20	0.019
145506	Soil	1.5	18.3	27.8	34	<0.1	10.4	5.8	352	2.36	43.1	5.9	3.6	27.4	17	<0.1	1.1	1.8	47	0.18	0.022
145507	Soil	0.8	16.1	17.3	33	<0.1	10.4	4.0	196	1.59	13.7	5.8	2.5	21.0	17	<0.1	0.6	0.9	29	0.20	0.026
145508	Soil	1.2	30.8	13.6	59	0.1	24.2	7.3	314	2.59	11.4	3.3	3.8	11.3	29	<0.1	0.8	0.4	50	0.36	0.045
145509	Soil	1.1	27.1	14.5	54	<0.1	22.4	6.8	246	2.45	10.9	2.4	2.9	11.7	26	<0.1	0.7	0.3	46	0.31	0.044
145510	Soil	0.8	23.3	11.1	49	<0.1	18.8	6.1	207	2.29	9.7	2.0	3.7	11.1	25	<0.1	0.7	0.3	45	0.29	0.043
145511	Soil	0.7	16.0	9.0	52	<0.1	16.1	6.8	181	2.21	6.0	1.2	2.9	5.5	18	<0.1	0.4	0.2	38	0.24	0.054
145512	Soil	0.5	17.9	9.1	60	<0.1	18.5	8.6	262	2.73	6.1	1.7	3.8	7.4	17	0.1	0.3	0.2	40	0.22	0.056
145513	Soil	0.4	18.1	8.9	60	<0.1	24.2	10.9	433	3.43	2.8	1.9	2.3	12.3	21	<0.1	0.2	0.2	44	0.53	0.051
145514	Soil	0.8	29.1	8.7	78	<0.1	45.6	11.4	349	3.75	9.7	1.1	1.4	6.5	20	0.2	0.3	0.2	78	0.45	0.076
145515	Soil	0.8	31.7	12.9	68	<0.1	30.5	12.0	473	3.78	6.7	1.4	2.1	19.3	19	<0.1	0.2	0.3	41	0.26	0.021
145516	Soil	1.6	47.6	8.0	121	<0.1	60.0	10.9	311	3.23	7.8	1.3	2.5	7.1	13	0.2	0.3	0.2	87	0.23	0.047
145517	Soil	1.0	29.5	11.1	84	0.1	32.1	12.0	475	3.34	5.8	1.6	3.2	8.2	19	0.1	0.2	0.2	60	0.56	0.072
145518	Soil	1.2	41.8	10.9	87	0.2	41.3	12.5	422	3.24	5.2	2.0	3.2	6.6	27	0.3	0.3	0.2	70	0.75	0.084
145519	Soil	1.4	33.6	8.5	72	0.2	32.9	8.5	282	2.58	8.0	1.1	4.5	4.1	24	0.2	0.4	0.2	65	0.37	0.067
145520	Soil	1.4	47.1	13.7	119	<0.1	62.7	20.9	685	4.05	13.0	1.0	1.7	4.5	16	0.3	0.4	0.2	112	0.33	0.152
145521	Soil	2.2	70.2	12.3	150	<0.1	71.6	16.2	337	4.26	16.0	1.6	3.8	7.6	24	0.3	0.7	0.2	110	0.47	0.114
145522	Soil	1.1	37.6	9.9	78	0.2	34.8	9.2	290	2.74	7.4	1.6	4.6	4.3	28	0.2	0.5	0.2	77	0.40	0.062
145523	Soil	1.0	45.5	7.9	85	0.1	53.6	12.8	452	3.35	11.7	1.4	2.1	4.5	22	0.2	0.4	0.2	91	0.37	0.063
145524	Soil	1.0	50.9	7.7	112	<0.1	38.4	10.8	570	2.92	5.2	0.9	1.9	5.1	21	0.2	0.2	0.2	90	0.36	0.076
145525	Soil	1.4	58.5	8.4	111	<0.1	55.7	15.9	575	4.11	9.5	1.1	2.8	5.0	22	0.2	0.3	0.2	126	0.40	0.078
145526	Soil	1.3	28.6	8.9	83	0.2	33.6	10.0	271	2.86	8.7	0.9	2.4	3.7	21	0.3	0.4	0.2	79	0.29	0.052
145527	Soil	1.4	27.0	9.3	87	0.2	31.2	9.5	278	2.76	8.4	1.0	3.3	3.5	20	0.3	0.4	0.2	80	0.30	0.061
145528	Soil	1.3	29.6	9.2	84	0.2	34.5	9.3	285	2.98	8.8	1.0	2.3	3.4	22	0.2	0.3	0.2	91	0.34	0.066
145529	Soil	1.3	53.4	8.9	96	0.2	51.9	13.8	441	3.59	10.5	1.5	3.9	5.0	24	0.2	0.4	0.2	108	0.40	0.067
145530	Soil	0.6	69.8	2.7	70	0.1	93.5	21.1	297	3.25	4.1	0.4	1.7	1.9	25	0.2	0.2	<0.1	82	0.85	0.234

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Project: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001145.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
145501	Soil	18	25	0.36	257	0.054	<1	1.30	0.009	0.05	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
145502	Soil	23	24	0.38	332	0.054	<1	1.34	0.009	0.06	0.1	0.04	2.6	<0.1	<0.05	4	0.6	<0.2
145503	Soil	21	27	0.37	307	0.055	<1	1.41	0.010	0.05	<0.1	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
145504	Soil	24	31	0.42	349	0.060	<1	1.64	0.011	0.06	0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
145505	Soil	19	18	0.29	188	0.051	<1	0.93	0.008	0.03	<0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
145506	Soil	33	20	0.24	209	0.049	<1	1.13	0.006	0.05	0.1	0.07	2.3	<0.1	<0.05	4	0.5	<0.2
145507	Soil	33	18	0.29	159	0.046	<1	0.90	0.007	0.05	0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
145508	Soil	28	31	0.47	362	0.064	<1	1.62	0.012	0.07	0.2	0.05	4.3	0.1	<0.05	5	<0.5	<0.2
145509	Soil	26	30	0.44	309	0.066	<1	1.38	0.013	0.08	0.2	0.04	3.9	0.1	<0.05	5	<0.5	<0.2
145510	Soil	28	27	0.43	278	0.065	<1	1.26	0.013	0.07	0.2	0.02	3.5	0.1	<0.05	4	<0.5	<0.2
145511	Soil	20	25	0.42	198	0.075	<1	1.35	0.010	0.10	0.3	0.03	2.4	0.1	<0.05	4	<0.5	<0.2
145512	Soil	31	28	0.48	209	0.099	<1	1.67	0.008	0.31	0.2	0.03	2.8	0.2	<0.05	5	<0.5	<0.2
145513	Soil	28	41	0.82	143	0.199	<1	2.11	0.011	0.83	<0.1	0.02	3.7	0.6	<0.05	8	<0.5	<0.2
145514	Soil	27	66	1.04	285	0.169	<1	2.33	0.010	0.62	0.1	0.01	4.4	0.3	<0.05	8	<0.5	<0.2
145515	Soil	54	36	0.70	168	0.071	<1	2.01	0.007	0.46	<0.1	<0.01	3.4	0.3	<0.05	7	<0.5	<0.2
145516	Soil	33	105	1.09	602	0.140	<1	2.12	0.008	0.45	0.2	<0.01	4.0	0.4	<0.05	7	0.8	<0.2
145517	Soil	31	46	0.77	362	0.112	<1	1.89	0.008	0.36	0.2	0.02	4.1	0.3	<0.05	7	<0.5	<0.2
145518	Soil	39	57	0.84	431	0.095	<1	1.94	0.010	0.26	0.1	0.04	4.5	0.2	<0.05	7	0.5	<0.2
145519	Soil	15	45	0.62	477	0.078	<1	1.44	0.009	0.17	0.2	0.03	3.4	0.1	<0.05	5	0.7	<0.2
145520	Soil	17	102	1.10	429	0.105	<1	2.22	0.007	0.43	0.2	0.01	4.5	0.2	<0.05	9	0.6	<0.2
145521	Soil	32	89	1.06	468	0.073	<1	2.10	0.006	0.26	0.1	0.02	5.6	0.1	<0.05	8	1.3	<0.2
145522	Soil	18	54	0.72	410	0.100	<1	1.71	0.011	0.09	0.1	0.03	4.5	<0.1	<0.05	6	0.5	<0.2
145523	Soil	15	75	0.98	420	0.106	<1	1.95	0.009	0.28	0.2	0.01	5.9	0.2	<0.05	7	<0.5	<0.2
145524	Soil	14	58	1.06	581	0.146	<1	1.88	0.006	0.52	<0.1	<0.01	4.3	0.3	<0.05	6	0.7	<0.2
145525	Soil	15	85	1.25	594	0.171	<1	2.50	0.007	0.59	0.1	<0.01	7.8	0.3	<0.05	10	0.9	<0.2
145526	Soil	14	54	0.71	346	0.086	<1	1.80	0.009	0.10	0.1	0.01	3.5	0.1	<0.05	6	<0.5	<0.2
145527	Soil	13	52	0.66	344	0.083	<1	1.69	0.008	0.08	0.1	0.01	3.3	<0.1	<0.05	6	0.5	<0.2
145528	Soil	13	57	0.73	397	0.091	<1	1.77	0.008	0.14	0.1	0.02	4.1	0.1	<0.05	7	<0.5	<0.2
145529	Soil	16	73	0.94	471	0.106	<1	2.01	0.007	0.21	0.1	0.02	6.1	0.1	<0.05	8	0.7	<0.2
145530	Soil	15	90	1.47	546	0.156	<1	1.87	0.017	0.47	<0.1	<0.01	3.1	0.1	<0.05	7	<0.5	<0.2

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Project: Montana
 Report Date: September 19, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001145.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
145531	Soil	0.6	54.2	3.3	73	<0.1	76.8	18.1	337	3.40	4.7	0.6	1.9	3.0	25	0.2	0.2	<0.1	84	0.77	0.191
145532	Soil	1.0	30.8	8.6	57	<0.1	33.9	10.5	273	2.54	7.3	0.9	2.3	3.6	25	0.1	0.5	0.1	59	0.45	0.077
145533	Soil	1.1	49.8	12.5	98	0.2	50.4	13.7	330	3.27	9.6	1.2	2.7	5.4	21	0.2	0.4	0.2	90	0.33	0.049
145534	Soil	2.6	104.0	20.0	234	0.2	96.0	11.9	401	4.53	15.7	2.8	5.1	9.8	24	1.1	0.5	0.2	151	0.61	0.144
145535	Soil	1.8	47.4	11.0	152	0.2	51.8	14.6	440	3.82	7.6	1.3	4.2	7.7	15	0.3	0.3	0.2	96	0.38	0.091
145536	Soil	1.6	37.9	10.6	109	0.2	43.2	12.7	540	3.31	6.9	1.4	3.3	6.0	19	0.3	0.2	0.2	83	0.51	0.080
145537	Soil	0.4	15.3	10.2	61	0.1	18.9	8.5	296	2.27	2.2	1.3	6.6	6.7	19	0.1	0.3	0.3	35	0.33	0.045
145538	Soil	0.3	19.0	10.2	66	<0.1	21.6	9.0	301	2.91	3.7	1.1	2.4	9.2	12	0.1	0.3	0.2	37	0.16	0.047
145539	Soil	0.4	21.8	8.7	64	<0.1	21.7	8.5	251	2.68	5.4	1.9	6.2	11.9	18	<0.1	0.4	0.3	36	0.23	0.053
145540	Soil	0.5	33.7	19.3	85	<0.1	30.3	13.3	499	4.13	8.3	2.0	2.1	18.3	16	<0.1	0.2	0.4	33	0.28	0.066
145541	Soil	0.6	28.5	15.2	79	<0.1	27.9	11.7	382	3.84	14.7	1.5	1.5	14.5	12	<0.1	0.2	0.3	40	0.22	0.037
145542	Soil	0.4	22.7	9.8	65	<0.1	24.2	10.6	357	2.96	4.2	1.5	2.4	13.1	15	<0.1	0.2	0.3	30	0.27	0.044
123291	Soil	0.7	14.5	16.4	37	<0.1	11.4	4.8	125	1.54	11.7	3.8	1.0	17.1	11	<0.1	0.6	0.4	32	0.11	0.009
123292	Soil	0.8	16.6	15.0	39	<0.1	10.9	3.8	153	1.45	29.7	4.1	1.0	18.0	11	0.2	0.5	0.7	24	0.11	0.011
123293	Soil	1.1	23.9	19.2	38	<0.1	10.2	3.9	225	1.46	51.7	5.0	2.7	17.2	15	0.2	0.5	1.1	27	0.14	0.013
123294	Soil	0.9	30.4	13.8	47	0.2	24.9	7.9	460	2.34	12.9	5.1	3.7	8.8	26	0.1	0.6	0.3	48	0.30	0.022
123295	Soil	0.7	16.8	16.6	46	<0.1	11.9	4.2	200	1.64	10.0	4.6	1.9	16.2	16	<0.1	0.6	0.5	30	0.19	0.023
123296	Soil	0.7	23.0	19.6	65	<0.1	31.9	10.8	422	2.75	11.2	3.1	1.2	18.5	16	<0.1	0.6	0.4	41	0.33	0.052
123297	Soil	1.1	29.7	13.8	48	<0.1	25.8	7.5	249	2.15	26.3	3.8	6.1	11.1	20	<0.1	0.5	0.4	42	0.29	0.027
123298	Soil	0.2	39.6	2.5	45	<0.1	76.3	19.2	365	2.83	12.4	0.8	5.7	3.6	23	<0.1	0.1	0.1	58	0.62	0.062
123299	Soil	1.4	35.7	8.0	90	0.2	35.4	10.6	317	2.80	38.2	1.4	7.0	6.6	20	0.2	0.4	0.3	58	0.57	0.102
123300	Soil	4.7	50.5	9.4	73	0.3	26.7	8.3	199	2.38	22.2	1.3	7.5	6.0	22	0.3	0.3	0.3	53	0.27	0.043
123301	Soil	2.8	51.6	13.5	84	0.5	39.1	10.2	228	2.81	21.6	1.6	7.8	5.3	20	0.3	0.6	0.2	54	0.25	0.043
123302	Soil	5.5	78.1	18.6	155	1.0	52.2	7.3	409	4.07	18.8	2.9	15.1	7.8	23	0.6	0.9	0.3	64	0.09	0.111
123303	Soil	2.8	56.4	14.2	120	0.2	47.4	8.6	249	2.60	30.8	2.3	6.1	6.4	13	0.2	0.4	0.2	65	0.09	0.063
123304	Soil	3.2	70.3	10.4	196	<0.1	101.5	12.1	341	2.82	42.8	2.6	4.2	7.9	13	0.5	0.2	0.2	93	0.30	0.091
123305	Soil	2.2	67.0	10.3	229	<0.1	106.9	22.7	887	4.64	27.7	1.9	3.4	9.3	10	0.3	0.2	0.2	120	0.19	0.073
123306	Soil	3.1	77.6	14.1	119	<0.1	61.6	15.4	498	4.20	12.9	1.6	5.3	9.6	6	0.1	0.2	0.2	90	0.12	0.060
123307	Soil	2.2	43.7	12.8	195	0.5	37.4	11.3	1470	2.52	10.3	1.3	1.2	5.1	18	1.3	0.4	0.2	92	0.25	0.100
123308	Soil	6.0	84.1	12.1	267	0.2	82.8	13.6	490	3.35	50.9	2.8	6.0	8.5	7	0.8	0.5	0.2	102	0.24	0.118

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	0.5	0.2	
145531	Soil	18	95	1.27	546	0.135	<1	1.86	0.022	0.52	<0.1	<0.01	4.6	0.2	<0.05	7	0.6	<0.2
145532	Soil	15	49	0.65	324	0.087	<1	1.43	0.015	0.07	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
145533	Soil	24	77	0.97	494	0.105	<1	2.13	0.009	0.14	0.1	0.01	5.0	0.1	<0.05	7	<0.5	<0.2
145534	Soil	30	86	1.28	685	0.051	<1	2.42	0.007	0.52	<0.1	0.04	7.2	0.2	<0.05	11	1.1	<0.2
145535	Soil	20	76	1.06	447	0.173	<1	2.24	0.007	0.70	0.1	0.02	5.3	0.4	<0.05	8	0.8	<0.2
145536	Soil	22	70	0.92	484	0.109	<1	1.89	0.008	0.39	0.2	0.02	4.4	0.3	<0.05	7	<0.5	<0.2
145537	Soil	29	29	0.58	194	0.117	<1	1.77	0.009	0.37	0.2	0.04	3.2	0.3	<0.05	6	<0.5	<0.2
145538	Soil	30	33	0.65	162	0.177	<1	1.83	0.007	0.77	0.1	<0.01	3.5	0.4	<0.05	6	<0.5	<0.2
145539	Soil	40	27	0.55	131	0.117	<1	1.46	0.009	0.51	<0.1	0.01	3.4	0.3	<0.05	5	<0.5	<0.2
145540	Soil	54	32	0.66	135	0.147	<1	1.73	0.007	0.98	<0.1	0.01	4.8	0.5	<0.05	6	<0.5	<0.2
145541	Soil	41	36	0.69	165	0.171	<1	1.97	0.008	0.81	0.1	0.02	3.8	0.5	<0.05	7	<0.5	<0.2
145542	Soil	41	28	0.59	121	0.118	<1	1.52	0.008	0.60	0.1	0.02	3.2	0.4	<0.05	6	<0.5	<0.2
123291	Soil	36	18	0.24	131	0.036	<1	0.88	0.005	0.03	0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
123292	Soil	28	15	0.23	123	0.029	<1	0.77	0.005	0.04	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
123293	Soil	32	18	0.23	156	0.030	<1	0.75	0.005	0.04	0.1	0.04	1.9	<0.1	<0.05	3	0.5	<0.2
123294	Soil	19	28	0.41	382	0.055	<1	1.38	0.013	0.05	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
123295	Soil	35	18	0.26	180	0.047	<1	0.90	0.007	0.05	0.1	0.05	2.7	<0.1	<0.05	3	<0.5	<0.2
123296	Soil	36	38	0.55	248	0.078	1	1.52	0.007	0.38	<0.1	0.05	5.0	0.3	<0.05	6	<0.5	<0.2
123297	Soil	19	47	0.53	255	0.050	<1	1.24	0.010	0.05	<0.1	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
123298	Soil	9	199	2.47	634	0.100	<1	1.88	0.013	0.40	<0.1	<0.01	8.6	0.2	<0.05	6	<0.5	<0.2
123299	Soil	17	50	0.83	372	0.084	<1	1.32	0.014	0.37	0.2	0.02	4.1	0.3	<0.05	4	1.4	<0.2
123300	Soil	17	40	0.65	259	0.060	<1	1.17	0.008	0.31	<0.1	<0.01	3.2	0.4	0.06	5	2.7	<0.2
123301	Soil	14	46	0.66	252	0.057	<1	1.40	0.009	0.13	0.1	0.03	3.5	0.2	<0.05	4	1.5	<0.2
123302	Soil	33	39	0.58	327	0.071	<1	1.14	0.005	0.63	<0.1	0.02	3.2	0.6	0.27	4	3.7	<0.2
123303	Soil	21	71	0.53	487	0.050	<1	1.04	0.004	0.33	<0.1	0.15	5.3	0.9	0.11	4	2.1	<0.2
123304	Soil	24	123	1.53	454	0.098	<1	2.07	0.006	0.73	<0.1	0.01	4.5	0.6	<0.05	8	1.0	<0.2
123305	Soil	46	143	1.99	935	0.262	<1	3.23	0.011	1.54	0.1	<0.01	9.2	0.7	<0.05	14	0.8	<0.2
123306	Soil	39	53	0.99	497	0.157	<1	1.71	0.007	0.93	<0.1	0.01	7.3	0.5	<0.05	7	2.4	<0.2
123307	Soil	15	40	0.35	559	0.059	<1	0.93	0.004	0.26	0.1	0.02	3.5	0.3	<0.05	4	1.4	<0.2
123308	Soil	30	56	0.63	472	0.082	<1	0.99	0.004	0.56	<0.1	0.03	5.2	0.7	<0.05	5	1.1	<0.2

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Project: Montana
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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
123309	Soil	2.9	45.6	19.5	128	0.2	38.8	9.0	659	3.13	25.4	3.6	2.3	11.6	17	0.5	0.4	0.4	57	0.19	0.062
123310	Soil	3.7	66.9	13.8	212	0.4	142.4	15.5	463	3.94	53.5	2.0	4.7	7.9	17	0.8	0.5	0.2	125	0.44	0.148
123311	Soil	3.4	58.9	13.8	124	0.5	34.0	6.7	380	2.65	16.8	3.5	9.7	10.8	15	0.9	0.4	0.3	64	0.25	0.109
123312	Soil	0.8	33.5	10.0	60	0.1	30.9	10.1	373	2.56	18.7	3.4	5.7	5.7	40	0.2	0.6	0.3	52	0.82	0.058
123313	Soil	0.7	29.9	8.6	47	0.1	29.9	11.4	500	2.33	21.1	3.5	4.4	4.5	39	0.2	0.5	0.3	50	0.77	0.056
123314	Soil	0.9	28.9	15.9	56	<0.1	22.6	10.4	282	2.53	16.7	2.1	3.4	11.9	23	<0.1	0.6	0.4	53	0.35	0.033
123315	Soil	1.3	24.3	18.1	54	<0.1	28.2	9.4	423	2.63	11.8	3.6	3.9	10.8	17	<0.1	0.5	0.4	43	0.55	0.044
123316	Soil	1.6	31.9	17.7	52	<0.1	25.0	7.3	256	2.17	15.6	3.2	0.7	11.9	26	0.1	1.0	0.5	56	0.31	0.042
123317	Soil	0.9	22.7	16.7	39	<0.1	15.9	5.5	213	1.88	16.3	5.8	1.8	15.7	21	<0.1	0.5	0.6	36	0.25	0.015
123318	Soil	0.7	23.4	13.7	42	<0.1	15.2	5.9	232	1.99	10.7	6.8	2.3	15.0	21	<0.1	0.5	0.5	35	0.30	0.028
123319	Soil	1.2	29.0	19.4	71	0.4	23.0	7.0	677	2.18	18.2	6.5	3.3	11.6	30	0.6	0.8	0.7	42	0.33	0.047
123320	Soil	0.8	14.8	14.9	38	<0.1	12.9	4.5	222	1.72	14.6	2.5	3.2	10.9	16	0.2	0.6	0.5	34	0.16	0.017
123321	Soil	1.4	27.0	24.1	49	<0.1	15.1	6.3	186	2.24	37.0	6.0	1.4	34.1	15	0.1	1.0	1.1	36	0.17	0.011
123322	Soil	1.4	16.5	17.9	41	<0.1	12.0	5.2	167	1.88	18.1	2.7	1.3	17.1	12	<0.1	0.7	0.8	32	0.11	0.013
123323	Soil	1.1	13.1	16.8	30	<0.1	6.1	3.4	175	1.29	16.6	5.1	<0.5	26.2	7	<0.1	0.8	1.0	17	0.07	0.009
123324	Soil	0.7	28.8	8.7	56	0.1	22.9	10.2	416	2.29	9.2	1.5	6.6	2.8	32	0.3	0.7	0.2	44	0.55	0.067
123325	Soil	0.7	29.9	8.2	56	0.1	23.0	9.1	263	2.16	8.0	0.7	3.6	3.1	32	0.3	0.7	0.1	40	0.58	0.073
123326	Soil	0.7	27.0	8.2	51	0.1	22.2	9.6	527	2.11	8.6	1.1	2.2	2.5	45	0.3	0.6	0.2	41	0.79	0.075
123327	Soil	0.5	22.7	8.7	54	0.3	19.4	8.3	406	2.01	7.0	1.3	2624	2.3	41	0.2	0.6	0.2	37	0.84	0.067
123328	Soil	0.9	29.8	8.7	68	0.1	24.5	9.6	354	2.42	9.8	0.6	4.2	3.5	32	0.3	0.8	0.2	46	0.72	0.074
123329	Soil	0.8	30.1	8.5	59	0.2	24.1	9.4	414	2.35	9.4	0.8	8.5	2.8	36	0.3	0.8	0.2	43	0.82	0.073
123330	Soil	0.6	34.3	15.0	58	0.2	30.0	9.2	303	2.75	7.1	2.2	7.2	6.7	28	0.2	0.6	0.3	82	0.56	0.044
123331	Soil	0.7	31.2	12.2	70	0.2	26.3	10.0	276	2.69	10.9	1.5	6.3	5.8	28	0.3	0.8	0.2	45	0.53	0.057
123332	Soil	2.5	22.9	11.5	63	<0.1	19.6	8.0	270	2.71	26.4	1.6	5.7	8.6	15	<0.1	0.6	0.2	51	0.33	0.022
123333	Soil	1.0	29.6	11.7	77	0.2	25.2	9.5	341	2.67	10.3	0.8	3.7	5.2	31	0.3	0.8	0.2	44	0.65	0.065
123334	Soil	0.7	30.7	11.9	77	0.2	24.8	9.7	313	2.59	13.9	1.1	5.0	5.4	26	0.4	0.9	0.2	46	0.47	0.060
123335	Soil	1.3	20.7	13.0	75	0.1	22.5	12.1	389	3.22	23.7	1.6	4.5	13.4	11	0.1	0.6	0.3	47	0.20	0.021
123336	Soil	0.4	22.2	11.3	63	0.1	19.0	8.2	391	2.41	6.2	1.3	5.4	10.5	12	0.1	0.5	0.2	51	0.23	0.020
123337	Soil	0.8	28.2	14.7	67	0.2	25.1	12.1	398	2.61	10.7	1.3	3.7	11.6	12	<0.1	1.2	0.3	54	0.28	0.025
123338	Soil	0.3	22.2	13.1	69	<0.1	25.0	12.3	452	2.64	0.6	1.5	6.6	13.4	12	<0.1	0.2	0.3	35	0.30	0.029

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
123309	Soil	37	38	0.55	360	0.053	1	1.12	0.004	0.45	<0.1	0.05	4.0	0.5	<0.05	5	0.9	<0.2
123310	Soil	31	200	2.00	698	0.176	<1	2.67	0.008	1.03	<0.1	0.02	7.1	0.6	0.06	9	1.6	<0.2
123311	Soil	36	30	0.68	240	0.073	1	1.20	0.004	0.51	0.1	0.05	3.3	0.6	<0.05	5	2.9	<0.2
123312	Soil	16	53	0.70	486	0.066	2	1.56	0.015	0.12	0.1	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
123313	Soil	15	50	0.69	476	0.058	1	1.47	0.013	0.08	0.1	0.04	4.6	<0.1	<0.05	4	0.6	<0.2
123314	Soil	20	43	0.59	329	0.078	<1	1.65	0.011	0.18	<0.1	0.03	4.5	0.2	<0.05	5	<0.5	<0.2
123315	Soil	31	41	0.44	303	0.043	<1	1.38	0.007	0.19	0.1	0.03	4.8	0.1	<0.05	5	<0.5	<0.2
123316	Soil	26	36	0.41	276	0.101	<1	1.45	0.011	0.07	0.1	<0.01	4.0	0.1	0.30	4	<0.5	<0.2
123317	Soil	21	23	0.30	239	0.055	<1	1.37	0.008	0.05	<0.1	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
123318	Soil	31	24	0.40	202	0.067	<1	1.36	0.008	0.19	<0.1	0.02	3.3	0.2	<0.05	4	<0.5	<0.2
123319	Soil	25	27	0.34	397	0.053	2	1.51	0.009	0.08	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
123320	Soil	21	18	0.28	189	0.039	1	0.97	0.006	0.05	0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
123321	Soil	48	23	0.31	142	0.044	2	1.34	0.007	0.05	<0.1	0.06	4.2	0.1	<0.05	4	<0.5	<0.2
123322	Soil	14	19	0.28	127	0.038	<1	1.15	0.007	0.07	0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
123323	Soil	26	11	0.13	96	0.019	2	0.60	0.003	0.04	<0.1	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
123324	Soil	13	25	0.45	340	0.045	2	1.22	0.015	0.05	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
123325	Soil	13	22	0.44	312	0.048	2	1.14	0.014	0.05	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
123326	Soil	12	23	0.41	377	0.041	<1	1.18	0.014	0.04	0.2	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
123327	Soil	11	21	0.42	333	0.041	2	1.15	0.015	0.05	0.2	0.03	2.8	<0.1	<0.05	4	0.7	<0.2
123328	Soil	13	25	0.56	359	0.061	2	1.19	0.020	0.07	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
123329	Soil	13	25	0.49	387	0.050	2	1.21	0.020	0.06	0.2	0.04	3.2	<0.1	<0.05	4	0.6	<0.2
123330	Soil	24	39	0.48	343	0.045	1	1.58	0.010	0.12	<0.1	0.05	5.4	0.1	<0.05	6	0.6	<0.2
123331	Soil	19	29	0.48	331	0.055	2	1.32	0.013	0.10	0.1	0.05	4.8	0.1	<0.05	5	1.2	<0.2
123332	Soil	28	35	0.46	221	0.061	<1	1.32	0.007	0.26	<0.1	0.04	6.1	0.5	<0.05	8	<0.5	<0.2
123333	Soil	17	28	0.57	371	0.054	3	1.31	0.016	0.08	0.1	0.05	3.9	<0.1	<0.05	4	0.7	<0.2
123334	Soil	19	28	0.50	360	0.057	2	1.27	0.015	0.09	0.1	0.05	4.2	0.1	<0.05	5	0.6	<0.2
123335	Soil	33	41	0.46	205	0.057	<1	1.11	0.005	0.33	<0.1	0.03	7.0	0.4	<0.05	7	<0.5	<0.2
123336	Soil	29	33	0.45	182	0.041	<1	1.10	0.004	0.27	<0.1	0.02	6.0	0.3	<0.05	6	<0.5	<0.2
123337	Soil	27	34	0.51	185	0.067	<1	1.24	0.005	0.38	<0.1	0.03	6.0	0.4	<0.05	7	<0.5	<0.2
123338	Soil	31	36	0.64	226	0.058	<1	1.43	0.005	0.45	<0.1	<0.01	6.4	0.3	<0.05	7	<0.5	<0.2

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Project: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
123339	Soil	0.4	28.7	16.9	70	<0.1	26.3	13.1	437	3.68	1.8	1.5	4.3	11.3	19	<0.1	0.5	0.3	46	0.32	0.023
123340	Soil	0.6	31.5	17.3	77	<0.1	29.7	13.6	453	3.91	1.6	1.5	9.1	11.6	19	0.1	0.4	0.4	47	0.35	0.024
123341	Soil	0.3	31.2	13.5	64	<0.1	26.1	9.5	399	2.97	2.9	0.9	4.2	10.3	15	<0.1	0.4	0.3	41	0.24	0.049
123342	Soil	0.3	80.6	16.2	134	<0.1	67.4	15.2	946	4.45	0.7	0.7	10.6	2.9	12	0.1	0.2	0.4	83	0.13	0.013
123343	Soil	0.3	52.3	13.4	111	<0.1	30.1	11.8	706	4.64	<0.5	1.3	3.2	4.0	8	0.1	0.1	0.3	68	0.11	0.026
123344	Soil	0.4	31.1	14.8	65	<0.1	23.1	11.0	465	3.03	1.9	1.2	7.0	12.2	15	<0.1	0.4	0.3	54	0.22	0.019
123345	Soil	0.4	24.7	11.2	53	<0.1	21.2	8.1	498	2.61	1.7	1.0	2.1	11.2	14	<0.1	0.3	0.2	31	0.23	0.039
123346	Soil	0.5	32.0	14.6	61	<0.1	25.0	11.0	460	3.02	1.3	2.2	5.8	13.1	15	<0.1	0.3	0.3	40	0.22	0.018
123347	Soil	0.8	32.2	12.1	58	<0.1	25.8	10.6	409	2.77	8.4	0.9	6.1	6.3	26	<0.1	0.6	0.2	52	0.35	0.034
123348	Soil	0.4	25.7	10.3	55	<0.1	23.6	10.5	357	3.37	2.7	2.0	7.1	11.3	15	<0.1	0.4	0.2	61	0.25	0.030
123349	Soil	0.6	33.9	14.6	68	<0.1	25.1	11.5	314	3.77	2.7	2.0	7.9	12.3	19	<0.1	0.5	0.3	51	0.31	0.038
123350	Soil	0.5	31.3	14.3	60	<0.1	22.7	9.8	255	2.66	1.9	1.5	5.6	10.5	18	<0.1	0.4	0.3	36	0.23	0.019
123351	Soil	0.3	26.9	14.7	66	<0.1	23.2	10.0	255	2.85	1.6	1.7	6.8	13.4	13	<0.1	0.3	0.3	40	0.18	0.021
123352	Soil	0.2	27.1	18.9	59	0.6	24.2	14.6	606	2.82	2.5	1.7	10.6	8.3	19	0.2	0.3	0.4	241	0.61	0.053
123353	Soil	0.6	28.6	14.7	70	0.2	24.7	10.2	293	2.42	4.9	1.2	6.7	6.3	29	0.3	0.7	0.2	57	0.64	0.046
123354	Soil	0.9	32.1	13.0	62	0.2	28.1	10.7	505	2.72	7.9	1.6	5.3	5.8	31	0.3	0.8	0.2	51	0.55	0.054
123355	Soil	0.8	26.8	13.3	63	0.1	22.6	10.2	303	3.04	7.6	1.3	4.2	5.9	26	0.1	0.7	0.2	48	0.43	0.048
123356	Soil	0.6	25.0	10.3	63	0.1	21.8	8.8	356	2.60	6.9	0.9	3.8	4.6	28	0.2	0.6	0.2	72	0.50	0.044
123357	Soil	0.7	32.5	10.0	60	0.2	26.5	10.5	519	2.42	8.6	1.8	4.8	3.8	43	0.3	0.8	0.2	47	0.79	0.071
113851	Soil	4.5	58.5	13.6	206	1.0	73.1	14.2	923	3.57	8.9	2.0	7.9	4.8	19	0.7	1.0	0.2	78	0.13	0.075
113852	Soil	2.5	37.9	10.4	128	0.3	43.6	11.8	448	2.86	9.4	1.1	5.6	4.4	17	0.4	0.7	0.2	73	0.19	0.045
113853	Soil	2.2	46.0	10.1	121	0.4	51.8	12.1	341	3.23	11.5	1.3	6.6	5.2	16	0.2	0.9	0.2	71	0.13	0.032
113854	Soil	2.1	39.7	9.4	106	0.5	44.4	9.8	467	2.90	10.1	1.1	7.4	4.2	20	0.4	0.8	0.2	66	0.20	0.044
113855	Soil	2.6	35.3	11.1	124	0.6	55.7	10.6	383	3.02	9.3	1.0	4.9	3.7	21	0.7	0.9	0.2	68	0.17	0.043
113856	Soil	0.7	21.9	9.1	65	0.1	21.2	8.2	333	2.18	6.7	0.8	3.2	3.8	32	0.2	0.6	0.2	45	0.43	0.073
113857	Soil	1.1	34.8	10.6	74	0.2	28.6	11.6	421	2.72	10.3	1.1	4.8	4.1	49	0.3	0.8	0.2	53	0.70	0.066
113858	Soil	0.8	38.7	9.6	78	0.2	31.4	11.9	570	2.61	9.9	1.1	4.6	3.8	54	0.4	0.8	0.2	53	1.09	0.087
113859	Soil	1.2	33.9	9.8	74	0.2	28.9	10.9	502	2.55	10.1	1.0	4.2	4.6	54	0.4	0.8	0.2	50	1.27	0.080
113860	Soil	1.0	31.4	10.4	74	0.2	27.1	10.7	485	2.50	9.9	0.8	4.1	4.5	49	0.5	0.9	0.2	49	1.14	0.075
113861	Soil	1.2	32.0	10.0	75	0.1	27.2	10.3	476	2.44	10.3	0.8	2.3	4.6	61	0.4	0.9	0.2	46	1.63	0.081

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
123339	Soil	22	47	0.67	254	0.062	<1	1.63	0.006	0.35	<0.1	0.02	7.2	0.3	<0.05	7	0.6	<0.2
123340	Soil	23	56	0.70	258	0.064	1	1.74	0.007	0.40	<0.1	0.02	7.6	0.3	<0.05	8	0.7	<0.2
123341	Soil	24	38	0.54	257	0.072	1	1.38	0.008	0.32	<0.1	0.02	6.5	0.2	<0.05	7	<0.5	<0.2
123342	Soil	9	85	0.91	566	0.213	<1	1.87	0.012	0.87	<0.1	0.02	11.3	0.4	<0.05	10	<0.5	<0.2
123343	Soil	12	45	0.66	329	0.148	<1	1.32	0.008	0.64	<0.1	0.01	9.3	0.4	<0.05	8	<0.5	<0.2
123344	Soil	22	37	0.68	312	0.069	<1	1.54	0.006	0.35	<0.1	0.02	6.8	0.3	<0.05	7	<0.5	<0.2
123345	Soil	23	32	0.51	223	0.068	<1	1.26	0.007	0.33	<0.1	0.01	5.2	0.3	<0.05	6	<0.5	<0.2
123346	Soil	34	38	0.59	246	0.063	<1	1.48	0.006	0.28	<0.1	0.02	7.2	0.3	<0.05	7	<0.5	<0.2
123347	Soil	19	33	0.54	317	0.066	2	1.42	0.020	0.11	0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
123348	Soil	27	43	0.55	238	0.053	<1	1.43	0.005	0.26	<0.1	0.03	6.8	0.2	<0.05	7	<0.5	<0.2
123349	Soil	30	47	0.64	282	0.065	1	1.63	0.005	0.29	<0.1	0.02	7.7	0.3	<0.05	7	<0.5	<0.2
123350	Soil	25	35	0.54	247	0.046	<1	1.47	0.005	0.23	<0.1	0.01	6.2	0.2	<0.05	7	<0.5	<0.2
123351	Soil	38	46	0.58	224	0.064	<1	1.53	0.005	0.34	<0.1	0.01	6.3	0.3	<0.05	7	<0.5	<0.2
123352	Soil	29	66	0.52	201	0.020	1	1.50	0.007	0.27	<0.1	0.07	6.8	0.2	<0.05	7	0.7	<0.2
123353	Soil	22	34	0.49	279	0.049	2	1.35	0.012	0.15	<0.1	0.04	4.8	0.2	<0.05	5	0.5	<0.2
123354	Soil	20	33	0.49	358	0.057	2	1.44	0.013	0.11	0.1	0.03	4.6	0.1	<0.05	5	0.7	<0.2
123355	Soil	17	33	0.50	304	0.056	1	1.53	0.013	0.11	0.1	0.03	4.8	0.1	<0.05	6	<0.5	<0.2
123356	Soil	15	29	0.42	295	0.051	2	1.30	0.012	0.10	0.1	0.04	4.5	<0.1	<0.05	5	0.7	<0.2
123357	Soil	14	27	0.48	375	0.050	2	1.32	0.016	0.04	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
113851	Soil	16	36	0.20	376	0.039	2	0.76	0.008	0.08	0.1	0.07	4.2	0.1	0.07	3	0.6	<0.2
113852	Soil	13	42	0.46	307	0.066	1	1.24	0.010	0.07	0.1	0.04	3.7	<0.1	<0.05	4	0.8	<0.2
113853	Soil	11	41	0.53	315	0.070	2	1.64	0.012	0.08	0.1	0.04	4.2	0.1	<0.05	5	<0.5	<0.2
113854	Soil	13	39	0.51	322	0.070	1	1.48	0.009	0.08	0.2	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
113855	Soil	12	43	0.43	639	0.058	<1	1.44	0.012	0.09	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
113856	Soil	15	24	0.49	276	0.065	2	1.15	0.021	0.06	0.2	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
113857	Soil	14	29	0.60	367	0.063	2	1.39	0.023	0.05	0.2	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
113858	Soil	13	27	0.75	254	0.078	4	1.19	0.036	0.09	0.2	0.03	3.5	<0.1	0.07	4	0.7	<0.2
113859	Soil	14	26	0.79	299	0.077	3	1.24	0.033	0.09	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
113860	Soil	14	26	0.69	414	0.071	3	1.25	0.024	0.07	0.3	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
113861	Soil	14	24	0.72	339	0.070	2	1.12	0.024	0.09	0.2	0.03	3.0	<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	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
113862	Soil		1.1	29.2	9.5	69	0.1	26.3	9.8	446	2.35	9.9	0.6	2.6	4.8	65	0.4	0.8	0.2	41	1.92	0.078
113863	Soil		0.8	33.5	10.3	74	0.1	28.7	10.6	399	2.45	9.5	0.7	4.9	4.9	48	0.4	0.8	0.2	51	0.72	0.074
113864	Soil		1.1	31.2	9.3	70	0.1	28.3	10.4	411	2.44	9.3	0.6	4.4	4.3	49	0.4	0.7	0.2	51	1.42	0.078
113865	Soil		1.4	36.5	9.9	83	0.2	30.7	11.3	431	2.60	10.4	0.7	2.7	4.6	55	0.4	1.0	0.2	51	1.11	0.083
113866	Soil		1.9	63.3	11.6	125	<0.1	64.5	15.9	324	4.51	7.0	1.7	8.3	4.7	13	0.1	0.5	0.3	104	0.15	0.050
113867	Soil		1.8	61.8	23.4	136	<0.1	65.1	16.2	168	5.16	6.0	0.7	2.4	2.4	14	<0.1	0.3	0.4	148	0.15	0.045
113868	Soil		1.6	59.8	7.3	104	0.4	64.2	12.7	265	3.72	7.5	1.5	5.2	5.1	15	0.2	0.6	0.1	81	0.19	0.031
113869	Soil		1.8	78.5	11.6	165	0.2	72.9	14.7	355	3.84	9.5	1.3	7.3	4.3	13	0.4	0.8	0.3	95	0.13	0.035
113870	Soil		1.9	85.6	12.0	206	0.2	80.8	14.1	280	4.06	6.5	1.5	6.9	4.9	17	0.4	0.9	0.3	98	0.21	0.043
113871	Soil		1.6	68.8	13.6	147	0.2	78.7	17.1	347	4.64	7.6	1.2	5.6	3.2	13	0.2	0.6	0.3	102	0.25	0.066
113872	Soil		2.5	93.1	14.4	185	0.7	97.7	14.3	361	4.31	10.2	1.6	11.3	4.7	16	0.2	1.3	0.3	131	0.33	0.038
113873	Soil		1.0	21.3	16.4	85	<0.1	32.4	12.6	436	4.16	3.1	0.9	3.3	8.6	9	<0.1	0.4	0.2	56	0.09	0.020
113874	Soil		1.2	46.1	12.4	136	0.1	77.1	13.5	489	4.34	4.9	1.4	9.1	12.2	15	0.2	1.2	0.2	78	0.25	0.031
113875	Soil		1.0	41.2	9.2	56	<0.1	31.6	9.4	233	2.52	11.1	1.0	4.3	5.1	23	<0.1	0.7	0.2	55	0.24	0.022
113876	Soil		1.6	105.8	8.5	156	0.1	69.4	14.6	349	5.25	13.6	1.7	6.7	5.5	30	0.2	1.4	0.3	115	0.13	0.055
113877	Soil		1.3	103.3	12.2	118	0.2	71.8	23.0	504	4.00	7.5	2.0	5.8	13.4	12	0.1	0.4	0.3	75	0.23	0.076
113878	Soil		1.4	52.9	9.8	56	0.3	28.3	9.9	271	2.92	10.7	2.1	10.6	7.3	15	<0.1	0.5	0.2	57	0.16	0.027
113879	Soil		1.3	66.6	10.6	69	<0.1	36.4	13.2	395	3.57	13.5	2.0	8.2	7.7	20	<0.1	0.6	0.3	65	0.17	0.027
113880	Soil		4.0	39.5	20.6	73	0.4	24.7	10.0	242	3.07	26.3	1.9	27.1	12.6	12	<0.1	1.8	0.3	35	0.11	0.037
113881	Soil		1.1	27.6	13.1	105	<0.1	35.2	18.8	674	4.97	6.8	3.1	4.2	28.4	17	<0.1	0.3	0.4	38	0.20	0.063
113882	Soil		0.7	18.6	18.4	65	<0.1	44.9	13.9	511	3.97	11.9	1.0	5.6	11.8	16	<0.1	0.2	0.2	55	0.18	0.023
113883	Soil		0.4	44.2	20.0	84	<0.1	117.4	24.6	1099	4.38	94.0	1.2	3.3	15.9	17	0.1	0.4	0.2	80	0.50	0.075
113884	Soil		1.4	36.3	18.9	114	<0.1	38.0	18.0	390	3.19	6.4	5.1	3.5	23.9	12	<0.1	0.5	0.1	13	0.17	0.039
113885	Soil		0.8	75.6	22.7	147	<0.1	68.8	27.8	607	5.35	2.8	2.2	3.5	11.3	15	<0.1	0.3	0.5	52	0.22	0.037
113886	Soil		1.4	64.7	13.9	107	<0.1	53.2	20.6	400	4.57	7.1	2.2	9.9	12.0	11	<0.1	0.6	0.4	37	0.16	0.041
113887	Soil		0.9	44.9	16.0	104	<0.1	41.6	18.9	628	4.38	3.2	1.5	1.7	14.5	15	<0.1	0.3	0.3	48	0.24	0.048
113888	Soil		0.7	52.8	24.7	111	<0.1	42.1	19.6	699	4.89	4.5	2.1	2.8	18.7	19	<0.1	0.1	0.4	47	0.26	0.043
113889	Soil		1.1	42.4	16.8	94	<0.1	37.0	19.5	677	4.29	6.4	1.2	3.4	9.6	11	<0.1	0.2	0.4	52	0.12	0.051
113890	Soil		1.1	38.2	14.8	88	<0.1	34.1	16.9	416	4.16	5.8	1.2	5.9	10.0	9	<0.1	0.2	0.4	51	0.08	0.030
113891	Soil		1.0	27.9	13.9	85	<0.1	30.0	15.2	478	4.03	6.8	1.0	1.0	10.0	13	<0.1	0.3	0.3	55	0.14	0.031

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
113862	Soil	13	24	0.82	328	0.067	2	1.01	0.022	0.10	0.2	0.03	3.0	<0.1	<0.05	3	0.8	<0.2
113863	Soil	16	27	0.56	400	0.074	2	1.29	0.024	0.08	0.3	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
113864	Soil	13	27	0.70	337	0.082	2	1.18	0.025	0.08	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
113865	Soil	14	28	0.70	390	0.075	3	1.26	0.024	0.09	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
113866	Soil	17	59	0.68	453	0.179	<1	1.76	0.009	0.56	<0.1	0.02	6.5	0.3	<0.05	7	<0.5	<0.2
113867	Soil	6	85	1.28	532	0.390	2	3.35	0.016	1.37	0.1	<0.01	6.5	0.8	<0.05	11	<0.5	<0.2
113868	Soil	15	55	0.66	517	0.149	<1	1.58	0.008	0.46	0.1	0.03	5.2	0.3	<0.05	6	1.1	<0.2
113869	Soil	11	64	0.85	816	0.203	<1	1.62	0.007	0.82	0.1	0.04	5.3	0.6	<0.05	6	1.1	<0.2
113870	Soil	14	66	0.94	918	0.207	1	1.70	0.008	0.74	<0.1	0.02	5.2	0.6	0.06	6	0.7	<0.2
113871	Soil	10	68	1.19	693	0.264	<1	2.42	0.014	1.00	0.2	0.04	6.7	0.6	<0.05	8	<0.5	<0.2
113872	Soil	11	95	1.02	675	0.231	<1	1.87	0.010	0.82	0.2	0.12	6.2	0.8	0.08	7	2.3	<0.2
113873	Soil	16	47	0.96	409	0.306	<1	2.46	0.006	1.23	0.1	0.03	5.1	0.7	<0.05	10	<0.5	<0.2
113874	Soil	24	78	1.12	1342	0.293	<1	2.29	0.009	0.99	0.1	0.08	6.8	1.0	<0.05	9	0.7	<0.2
113875	Soil	19	35	0.51	650	0.079	1	1.42	0.012	0.08	0.1	0.03	5.8	<0.1	<0.05	4	<0.5	<0.2
113876	Soil	10	60	0.70	614	0.120	<1	1.42	0.012	0.49	0.1	0.08	7.3	0.5	0.15	7	<0.5	0.3
113877	Soil	40	55	1.05	285	0.205	<1	2.37	0.009	1.00	<0.1	0.16	5.7	0.7	<0.05	8	1.0	<0.2
113878	Soil	23	34	0.52	214	0.079	<1	1.89	0.008	0.13	0.2	0.42	4.5	0.2	<0.05	5	1.0	<0.2
113879	Soil	27	41	0.64	331	0.094	2	2.04	0.009	0.15	0.1	0.36	7.7	0.2	<0.05	6	<0.5	<0.2
113880	Soil	31	22	0.27	150	0.035	<1	1.02	0.005	0.09	0.1	0.31	3.4	0.2	<0.05	3	0.6	<0.2
113881	Soil	81	40	1.05	270	0.331	<1	2.70	0.012	1.65	0.1	0.38	3.8	0.9	<0.05	8	<0.5	<0.2
113882	Soil	32	76	1.24	216	0.184	2	3.19	0.009	1.03	0.1	0.01	5.6	0.6	<0.05	9	<0.5	<0.2
113883	Soil	60	200	1.98	356	0.095	<1	3.02	0.009	0.94	<0.1	0.04	9.6	0.5	<0.05	10	<0.5	<0.2
113884	Soil	60	11	0.42	153	0.007	<1	1.52	0.006	0.16	<0.1	0.98	2.4	0.2	<0.05	6	<0.5	<0.2
113885	Soil	30	43	1.21	222	0.166	<1	2.78	0.008	1.02	<0.1	0.07	5.7	0.5	<0.05	9	<0.5	<0.2
113886	Soil	37	38	0.89	208	0.138	<1	2.13	0.005	0.76	<0.1	0.16	5.2	0.5	<0.05	7	0.5	<0.2
113887	Soil	24	49	1.17	232	0.230	<1	2.65	0.007	1.29	0.4	0.04	5.7	0.7	<0.05	8	<0.5	<0.2
113888	Soil	42	48	1.28	297	0.231	<1	2.89	0.011	1.33	<0.1	0.05	6.9	0.8	<0.05	10	<0.5	<0.2
113889	Soil	28	38	0.85	129	0.155	<1	2.38	0.007	0.65	0.2	0.02	3.8	0.5	<0.05	8	<0.5	<0.2
113890	Soil	23	41	0.86	142	0.180	<1	2.45	0.006	0.63	0.2	0.01	3.9	0.4	<0.05	8	<0.5	<0.2
113891	Soil	20	42	0.87	147	0.183	<1	2.41	0.007	0.70	0.4	0.01	4.0	0.5	<0.05	8	<0.5	<0.2

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
113892	Soil	1.2	49.8	22.6	105	<0.1	40.1	19.4	575	5.23	4.7	2.1	11.7	17.9	16	<0.1	0.2	0.3	45	0.17	0.031
113893	Soil	0.9	48.3	24.0	108	<0.1	39.5	20.9	756	5.30	3.6	2.3	8.2	21.7	16	<0.1	0.2	0.3	45	0.18	0.036
113894	Soil	0.9	31.9	14.8	80	<0.1	32.0	15.5	376	3.88	5.7	1.0	2.6	8.9	11	<0.1	0.3	0.3	51	0.11	0.022
113895	Soil	1.0	59.0	16.3	97	<0.1	50.6	21.1	775	5.00	8.2	2.3	3.6	20.3	22	<0.1	0.2	0.5	61	0.27	0.047
113896	Soil	0.8	45.1	17.6	101	<0.1	35.6	19.0	729	4.45	5.0	1.6	2.2	15.9	19	<0.1	0.2	0.3	55	0.28	0.052
113897	Soil	0.8	37.1	17.8	102	<0.1	38.0	19.3	598	4.33	3.7	1.1	<0.5	12.7	10	<0.1	0.2	0.5	53	0.12	0.042
113898	Soil	1.1	45.6	15.2	107	<0.1	36.0	17.0	408	4.12	5.0	1.6	1.4	12.5	15	0.1	0.3	0.3	54	0.17	0.046
113899	Soil	0.9	38.9	14.5	89	<0.1	33.7	16.3	466	3.71	4.8	1.5	3.7	12.8	14	<0.1	0.4	0.3	46	0.17	0.026
113900	Soil	0.8	42.6	14.9	98	<0.1	39.2	16.9	475	4.18	3.9	1.3	1.5	14.3	17	<0.1	0.3	0.3	48	0.27	0.052
113901	Soil	0.9	22.8	11.2	58	0.1	20.1	7.7	151	2.46	7.1	1.0	2.0	3.6	20	0.2	0.5	0.2	46	0.25	0.045
102902	Soil	0.6	9.0	4.7	39	<0.1	10.1	9.5	237	3.08	6.1	0.8	<0.5	4.2	30	<0.1	0.4	0.1	39	0.27	0.055
102903	Soil	0.6	9.2	3.2	73	<0.1	6.4	10.0	447	4.39	3.0	0.8	0.8	3.2	19	<0.1	0.4	<0.1	59	0.26	0.049
102904	Soil	0.6	12.3	5.2	43	<0.1	9.9	9.0	290	3.25	5.0	1.0	2.8	4.2	20	<0.1	0.4	0.2	48	0.17	0.020
102905	Soil	1.0	9.3	6.6	55	<0.1	10.7	8.5	330	3.97	8.0	0.6	3.8	2.8	10	<0.1	0.4	0.1	59	0.14	0.034
102906	Soil	0.7	4.9	4.2	20	<0.1	6.4	7.8	201	3.45	3.5	0.5	<0.5	2.1	10	<0.1	0.3	<0.1	33	0.31	0.054
102907	Soil	0.6	5.8	3.5	63	<0.1	3.2	6.9	293	4.47	5.7	1.3	<0.5	3.7	18	<0.1	2.0	<0.1	23	0.27	0.033
102908	Soil	0.4	7.5	2.9	66	<0.1	5.0	14.1	366	4.46	3.6	0.3	<0.5	1.1	16	<0.1	0.3	<0.1	62	0.37	0.050
102909	Soil	0.2	26.3	2.3	87	<0.1	3.6	12.4	516	4.51	1.5	0.4	1.2	1.7	21	<0.1	0.1	<0.1	41	0.60	0.109
102910	Soil	0.4	6.7	4.1	40	<0.1	3.2	8.0	748	4.78	2.2	2.0	2.0	10.9	9	<0.1	0.3	<0.1	20	0.09	0.042
102911	Soil	0.4	17.0	10.6	58	<0.1	12.4	11.9	233	1.89	4.5	1.2	2.8	4.8	45	0.2	0.4	0.2	35	0.46	0.029
102912	Soil	1.3	10.4	12.9	38	<0.1	10.2	3.7	183	1.61	7.8	1.3	<0.5	3.9	96	<0.1	0.4	0.2	33	0.29	0.021
102913	Soil	1.7	8.7	22.5	37	<0.1	10.6	3.7	227	1.32	6.9	2.0	1.0	3.6	175	<0.1	0.3	0.2	21	0.45	0.031
102914	Soil	1.6	19.8	18.8	42	<0.1	19.4	5.6	260	1.84	7.1	4.6	2.5	5.5	106	<0.1	0.4	0.2	33	0.48	0.035
102915	Soil	1.9	12.7	25.5	54	<0.1	19.9	4.6	388	1.83	8.4	2.1	0.7	5.8	187	<0.1	0.4	0.2	30	0.51	0.052
102916	Soil	3.6	14.1	13.3	25	<0.1	8.0	5.0	219	1.27	5.7	1.1	79.0	2.0	6	<0.1	0.3	0.1	20	0.08	0.019
102917	Soil	0.2	12.2	14.4	21	<0.1	3.6	3.8	15	0.18	2.1	1.4	14.7	7.8	8	<0.1	0.2	0.2	13	0.07	0.004
102918	Soil	0.6	9.6	13.3	56	<0.1	5.1	4.5	75	1.24	2.1	2.5	<0.5	10.2	9	<0.1	0.3	0.3	27	0.08	0.007
102919	Soil	0.2	2.4	2.7	73	<0.1	2.1	5.6	396	3.48	<0.5	0.6	<0.5	6.1	20	<0.1	0.2	<0.1	24	0.31	0.055
102920	Soil	1.0	13.4	4.6	60	<0.1	2.6	4.6	194	3.55	9.0	1.3	0.6	5.2	97	<0.1	1.2	<0.1	20	0.23	0.038
102921	Soil	0.4	16.5	6.1	70	<0.1	11.2	10.1	401	3.94	3.2	1.2	1.1	5.6	24	<0.1	0.3	<0.1	42	0.34	0.043

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
113892	Soil	41	44	1.02	270	0.166	<1	2.83	0.008	0.81	<0.1	0.09	6.3	0.5	<0.05	8	0.6	<0.2
113893	Soil	35	45	1.08	292	0.189	1	2.77	0.009	0.98	0.1	0.08	6.1	0.6	<0.05	9	<0.5	<0.2
113894	Soil	26	39	0.80	155	0.162	1	2.38	0.006	0.54	0.1	0.01	3.9	0.4	<0.05	7	<0.5	<0.2
113895	Soil	73	110	1.41	282	0.245	<1	3.11	0.009	1.24	0.2	0.03	8.0	0.9	<0.05	9	<0.5	<0.2
113896	Soil	37	51	1.11	290	0.219	<1	2.79	0.008	1.01	0.2	0.03	6.8	0.7	<0.05	9	<0.5	<0.2
113897	Soil	20	54	0.98	153	0.207	<1	2.60	0.006	0.87	0.4	<0.01	4.1	0.5	<0.05	9	<0.5	<0.2
113898	Soil	36	40	0.97	164	0.155	<1	2.45	0.008	0.73	0.3	0.01	4.0	0.5	<0.05	7	<0.5	<0.2
113899	Soil	41	38	0.85	176	0.123	<1	2.30	0.007	0.47	0.1	<0.01	4.3	0.4	<0.05	7	<0.5	<0.2
113900	Soil	28	44	1.02	213	0.170	<1	2.44	0.006	0.87	0.1	0.01	5.0	0.6	<0.05	8	0.6	<0.2
113901	Soil	19	28	0.44	214	0.062	2	1.66	0.009	0.08	0.2	0.10	2.9	0.1	<0.05	5	<0.5	<0.2
102902	Soil	11	17	0.68	438	0.102	<1	1.85	0.013	0.26	<0.1	<0.01	5.1	<0.1	<0.05	7	<0.5	<0.2
102903	Soil	11	13	1.08	408	0.196	<1	2.48	0.011	0.78	<0.1	<0.01	5.9	0.2	<0.05	10	<0.5	<0.2
102904	Soil	11	19	0.57	222	0.083	<1	1.71	0.011	0.16	<0.1	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
102905	Soil	7	18	0.78	268	0.166	<1	2.31	0.008	0.43	<0.1	0.01	5.0	0.2	<0.05	8	<0.5	<0.2
102906	Soil	5	7	0.45	207	0.081	<1	2.49	0.024	0.29	<0.1	0.02	4.0	<0.1	<0.05	8	<0.5	<0.2
102907	Soil	10	7	0.43	71	0.072	<1	1.58	0.007	0.15	<0.1	0.04	2.2	<0.1	<0.05	8	<0.5	<0.2
102908	Soil	4	9	1.08	328	0.160	<1	2.85	0.015	0.49	<0.1	0.01	5.8	0.2	<0.05	9	<0.5	<0.2
102909	Soil	6	5	0.96	267	0.133	<1	2.19	0.009	0.95	<0.1	0.02	6.8	0.3	<0.05	8	<0.5	<0.2
102910	Soil	45	7	0.12	77	0.002	<1	1.11	0.005	0.14	<0.1	0.01	5.6	<0.1	<0.05	5	0.6	<0.2
102911	Soil	20	14	0.33	137	0.011	1	1.17	0.007	0.17	<0.1	0.06	5.3	0.2	<0.05	4	<0.5	<0.2
102912	Soil	13	19	0.29	569	0.030	1	1.40	0.015	0.10	<0.1	<0.01	2.2	0.2	<0.05	4	<0.5	<0.2
102913	Soil	14	13	0.30	1141	0.016	<1	1.36	0.022	0.19	<0.1	0.01	1.6	0.3	<0.05	3	<0.5	<0.2
102914	Soil	17	27	0.38	636	0.027	<1	1.58	0.018	0.09	<0.1	0.03	3.2	0.2	<0.05	4	<0.5	<0.2
102915	Soil	20	25	0.34	1284	0.009	<1	1.44	0.016	0.18	<0.1	0.01	3.0	0.4	<0.05	4	<0.5	<0.2
102916	Soil	5	15	0.06	86	0.008	<1	0.61	0.001	0.03	<0.1	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
102917	Soil	26	8	0.04	65	0.003	<1	0.30	0.001	0.04	<0.1	0.04	2.3	0.2	<0.05	2	<0.5	<0.2
102918	Soil	28	4	0.18	121	0.053	<1	0.71	0.003	0.22	<0.1	0.05	6.8	0.2	<0.05	4	<0.5	<0.2
102919	Soil	39	5	0.93	125	0.110	<1	1.90	0.008	1.03	<0.1	0.02	9.1	0.3	<0.05	11	<0.5	<0.2
102920	Soil	38	4	0.41	157	0.025	<1	1.22	0.044	0.39	<0.1	0.09	5.2	0.1	0.35	9	<0.5	<0.2
102921	Soil	17	15	0.69	200	0.031	<1	1.83	0.008	0.24	<0.1	<0.01	5.6	<0.1	<0.05	8	<0.5	<0.2



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 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
102922	Soil	0.2	22.7	2.1	66	<0.1	15.3	22.0	588	4.08	1.0	0.5	0.6	1.0	45	<0.1	0.2	<0.1	76	0.60	0.056
102923	Soil	0.5	4.6	2.6	39	<0.1	3.0	5.6	364	4.35	3.5	1.3	<0.5	6.1	170	<0.1	2.2	<0.1	27	0.19	0.066
102924	Soil	0.5	6.1	3.5	86	<0.1	6.1	17.4	933	5.15	3.2	0.9	<0.5	2.9	24	<0.1	0.8	<0.1	76	0.54	0.091
102925	Soil	0.7	22.6	7.4	46	<0.1	16.3	10.4	339	3.03	5.2	1.0	1.3	3.8	33	<0.1	0.4	<0.1	56	0.36	0.038
102926	Soil	1.4	17.9	35.4	56	<0.1	20.7	6.8	177	2.50	11.7	3.6	2.3	34.3	13	<0.1	0.7	0.3	47	0.10	0.013
102927	Soil	1.5	11.1	18.8	38	<0.1	16.8	4.9	181	1.82	7.5	1.6	3.3	12.4	13	<0.1	0.4	0.2	38	0.14	0.015
102928	Soil	1.2	12.3	21.0	45	0.2	15.7	8.4	288	2.62	9.3	1.3	1.4	10.5	13	<0.1	0.5	0.3	60	0.12	0.018
102929	Soil	1.3	25.1	17.3	49	<0.1	24.6	8.1	295	2.49	10.6	1.5	2.1	10.3	19	<0.1	0.6	0.2	53	0.19	0.013
102930	Soil	2.3	76.6	17.7	133	<0.1	63.4	17.1	626	3.65	19.4	2.5	4.6	11.5	21	0.5	1.1	0.4	66	0.22	0.030
102931	Soil	0.4	33.3	6.4	34	<0.1	20.0	17.3	184	2.41	41.7	1.3	63.1	5.0	37	<0.1	0.2	0.2	62	0.55	0.040
102932	Soil	0.5	52.8	8.7	68	<0.1	103.6	30.8	442	4.23	26.0	0.6	26.7	6.0	27	<0.1	0.3	0.2	82	0.68	0.053
102933	Soil	0.4	58.2	5.3	68	<0.1	102.3	32.1	774	4.56	87.5	0.5	19.2	4.1	31	0.1	0.2	0.4	103	1.36	0.091
102934	Soil	0.8	65.4	15.6	109	<0.1	88.5	28.0	1077	5.70	14.8	0.8	3.1	9.6	27	<0.1	0.3	<0.1	112	0.98	0.149
102935	Soil	7.9	105.9	24.8	290	0.3	97.8	22.6	406	3.87	16.4	3.3	2.1	6.7	16	1.3	0.6	0.3	73	0.11	0.062
102936	Soil	2.7	41.2	12.7	126	0.4	39.7	8.0	210	2.98	6.6	1.9	7.8	8.7	11	0.4	0.3	0.3	35	0.05	0.052
102937	Soil	15.5	41.8	28.3	137	0.7	37.2	18.6	236	3.04	24.2	2.9	2.0	4.0	13	0.7	1.2	0.5	48	0.04	0.071
102938	Soil	4.1	77.3	22.0	210	0.3	79.4	14.4	415	4.28	34.1	1.8	2.6	11.1	51	0.5	0.4	0.5	113	0.18	0.090
102939	Soil	3.0	87.0	11.5	210	0.2	308.0	32.9	491	4.82	97.5	3.0	3.8	7.4	31	0.6	0.3	0.3	193	0.53	0.182
102940	Soil	5.5	85.1	14.2	234	0.3	98.8	13.2	353	3.86	55.4	2.7	0.9	8.0	9	0.7	0.4	0.3	131	0.24	0.119
102941	Soil	6.9	88.0	20.0	285	0.3	115.3	14.7	383	3.74	43.3	2.8	1.8	7.1	10	0.7	0.3	0.3	159	0.26	0.120
102942	Soil	7.9	111.2	13.7	188	0.9	29.4	4.4	416	4.02	37.4	3.1	2.1	5.4	15	0.3	0.2	0.3	239	0.05	0.086
102943	Soil	4.0	75.6	18.2	278	0.3	95.4	13.0	223	3.77	13.7	2.0	1.3	7.3	22	0.6	0.5	0.3	107	0.13	0.065
102944	Soil	3.7	88.4	15.4	176	0.1	55.7	12.9	287	3.97	31.7	2.2	3.4	9.0	18	0.3	0.2	0.3	108	0.09	0.045
102945	Soil	3.1	67.1	12.5	209	<0.1	137.1	15.4	306	3.51	7.7	1.7	3.1	7.8	11	0.5	0.2	0.3	96	0.24	0.083
102946	Soil	3.4	82.7	17.9	248	0.3	87.9	17.3	460	4.40	21.1	1.7	2.2	7.9	26	0.8	0.5	0.3	104	0.21	0.123
102947	Soil	2.1	50.4	15.0	167	0.1	54.7	13.2	270	3.72	12.5	2.7	7.2	6.0	26	0.7	0.4	0.2	51	0.16	0.078
102948	Soil	4.7	87.6	16.6	331	0.2	111.8	16.6	641	3.82	18.2	2.9	9.0	8.5	19	1.3	1.2	0.3	85	0.07	0.065
102949	Soil	5.5	79.9	22.3	251	0.6	85.1	13.1	410	3.29	28.5	2.2	6.6	8.1	19	1.8	1.6	0.3	132	0.07	0.056
102950	Soil	3.3	122.4	19.4	194	0.2	64.6	19.4	609	4.33	596.3	1.8	1.4	10.1	15	0.9	0.9	0.3	102	0.18	0.067
102951	Soil	3.3	85.5	11.1	86	0.5	19.5	2.6	117	3.46	6.0	2.2	6.5	11.4	24	0.4	0.3	0.4	77	0.18	0.058

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 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001145.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
102922	Soil	9	91	1.21	260	0.011	<1	1.88	0.015	0.02	<0.1	0.05	9.7	<0.1	<0.05	7	<0.5	<0.2
102923	Soil	25	6	0.58	260	0.169	<1	1.39	0.084	0.77	<0.1	0.02	9.1	0.1	0.51	9	<0.5	<0.2
102924	Soil	11	9	1.21	295	0.147	<1	2.59	0.007	0.07	<0.1	<0.01	3.3	<0.1	<0.05	10	<0.5	<0.2
102925	Soil	14	32	0.74	294	0.094	<1	1.62	0.016	0.10	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
102926	Soil	26	33	0.35	191	0.042	<1	1.73	0.006	0.06	0.1	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
102927	Soil	21	29	0.34	223	0.036	1	1.11	0.006	0.04	0.1	0.01	1.8	0.1	<0.05	4	<0.5	<0.2
102928	Soil	13	29	0.31	215	0.046	<1	1.92	0.008	0.04	0.1	0.02	2.1	0.1	<0.05	6	<0.5	<0.2
102929	Soil	19	37	0.43	384	0.046	<1	1.70	0.009	0.06	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
102930	Soil	34	62	0.26	175	0.005	7	1.02	0.005	0.05	<0.1	0.04	6.8	0.2	<0.05	4	1.1	<0.2
102931	Soil	17	39	1.31	302	0.051	<1	2.01	0.044	0.07	<0.1	0.01	5.2	0.1	<0.05	5	<0.5	<0.2
102932	Soil	22	334	3.00	1111	0.165	<1	3.08	0.014	0.83	<0.1	<0.01	8.2	0.4	<0.05	9	<0.5	<0.2
102933	Soil	15	281	3.18	843	0.110	<1	3.00	0.015	0.60	<0.1	0.01	13.0	0.3	<0.05	9	<0.5	<0.2
102934	Soil	37	189	2.47	777	0.182	<1	3.71	0.016	1.07	<0.1	0.01	8.9	0.7	<0.05	11	<0.5	<0.2
102935	Soil	13	41	0.17	125	0.014	<1	0.63	0.002	0.09	<0.1	0.02	4.1	0.3	<0.05	2	1.6	0.2
102936	Soil	23	17	0.11	183	0.007	<1	0.47	0.003	0.14	<0.1	0.11	4.3	0.3	0.07	2	2.2	<0.2
102937	Soil	10	31	0.20	195	0.020	1	1.04	0.004	0.11	0.2	0.05	2.2	0.4	0.07	3	8.1	<0.2
102938	Soil	59	84	1.61	441	0.142	<1	2.36	0.012	1.06	<0.1	0.02	6.0	0.9	0.09	9	1.8	<0.2
102939	Soil	43	440	3.68	1214	0.165	<1	4.10	0.014	1.15	<0.1	0.02	10.6	0.7	<0.05	14	1.7	0.2
102940	Soil	14	89	1.13	505	0.103	<1	2.21	0.006	0.56	0.1	0.01	5.3	0.6	<0.05	8	0.6	<0.2
102941	Soil	13	90	1.27	608	0.106	<1	2.11	0.007	0.59	0.1	<0.01	4.9	0.7	<0.05	8	0.8	<0.2
102942	Soil	21	110	1.39	625	0.199	<1	2.01	0.012	1.25	0.2	0.01	5.8	1.1	0.40	9	6.9	<0.2
102943	Soil	19	84	0.89	312	0.113	<1	1.76	0.006	0.46	<0.1	0.01	5.5	0.6	<0.05	7	1.2	<0.2
102944	Soil	22	67	1.16	556	0.168	<1	2.20	0.010	1.00	<0.1	0.01	4.4	0.7	<0.05	8	1.4	<0.2
102945	Soil	21	135	1.46	408	0.118	<1	2.35	0.005	0.78	<0.1	0.01	5.0	0.5	<0.05	9	<0.5	<0.2
102946	Soil	25	66	0.97	387	0.124	<1	1.64	0.005	0.84	<0.1	0.02	6.3	0.8	<0.05	6	2.2	<0.2
102947	Soil	16	20	0.34	220	0.046	1	0.89	0.003	0.24	<0.1	0.40	5.3	0.4	<0.05	3	0.9	<0.2
102948	Soil	31	44	0.31	238	0.028	<1	0.76	0.003	0.13	0.1	0.24	5.1	0.7	<0.05	3	1.7	<0.2
102949	Soil	55	78	0.64	203	0.038	1	1.20	0.003	0.15	0.1	0.08	5.1	0.6	0.09	4	2.4	<0.2
102950	Soil	30	62	1.65	706	0.202	<1	2.72	0.010	1.30	0.1	0.01	5.5	0.7	<0.05	10	1.4	<0.2
102951	Soil	42	37	0.93	468	0.094	<1	1.70	0.007	0.67	<0.1	0.02	3.7	0.7	0.34	6	1.1	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
102952	Soil	3.5	90.8	9.2	111	0.4	14.1	3.5	257	3.51	79.1	2.0	2.9	6.5	12	0.1	0.3	0.4	84	0.10	0.034
102953	Soil	5.8	83.0	11.7	100	0.2	27.2	3.0	163	3.16	10.3	1.5	3.6	11.9	17	0.5	0.5	0.4	88	0.11	0.036
102954	Soil	0.7	46.5	9.9	57	0.1	64.6	20.2	426	3.59	19.6	0.6	2.5	5.0	31	<0.1	0.3	0.2	72	0.57	0.068
102955	Soil	0.9	21.0	5.3	69	<0.1	143.7	29.4	707	4.54	14.1	1.3	0.6	7.7	31	<0.1	0.2	0.1	91	0.68	0.069
102956	Soil	0.5	27.9	9.3	45	<0.1	42.6	24.4	828	3.73	3.9	0.5	2.4	10.7	38	0.1	0.1	0.2	81	2.46	0.141
102957	Soil	1.6	11.6	20.7	40	<0.1	14.3	5.2	201	1.88	13.1	1.9	1.2	11.4	12	<0.1	0.6	0.6	36	0.10	0.016
102958	Soil	0.8	27.1	22.9	35	<0.1	12.1	2.2	185	1.49	47.8	7.0	1.2	42.0	11	<0.1	1.2	2.2	17	0.08	0.008
102959	Soil	1.2	18.2	58.4	88	<0.1	13.1	3.5	1303	2.36	21.0	7.8	0.6	83.1	8	0.1	2.7	1.2	12	0.19	0.016
102960	Soil	1.0	15.9	18.1	44	<0.1	12.3	4.6	190	1.73	9.3	4.9	3.5	19.7	16	<0.1	0.7	0.2	34	0.15	0.014
129273	Soil	0.4	26.4	2.6	41	<0.1	19.5	19.8	376	3.08	1.9	0.4	<0.5	2.0	27	<0.1	0.2	<0.1	60	0.45	0.054
129274	Soil	1.1	12.7	11.2	47	<0.1	10.9	11.9	324	3.36	6.0	0.9	<0.5	3.7	25	<0.1	0.3	<0.1	47	0.23	0.027
129275	Soil	1.3	11.8	6.5	51	<0.1	14.8	11.5	295	3.72	6.8	0.7	<0.5	3.3	17	<0.1	0.3	<0.1	59	0.21	0.032
129276	Soil	1.2	7.6	10.1	61	<0.1	5.4	8.8	520	4.39	5.8	0.9	<0.5	3.1	17	<0.1	1.2	<0.1	56	0.20	0.060
129277	Soil	0.9	7.2	5.9	53	<0.1	6.8	8.7	431	4.02	6.2	0.7	<0.5	3.0	11	<0.1	0.6	<0.1	38	0.14	0.040
129278	Soil	0.7	17.0	5.3	60	<0.1	17.6	16.5	482	4.16	6.4	0.4	<0.5	1.0	34	<0.1	0.5	<0.1	103	0.62	0.049
129279	Soil	0.7	9.8	8.4	53	<0.1	9.2	8.5	371	2.80	5.5	0.4	0.5	2.1	14	<0.1	0.3	0.1	58	0.20	0.028
129280	Soil	0.3	6.3	3.9	81	<0.1	4.5	5.9	459	2.18	1.3	0.6	0.9	1.6	25	0.1	0.1	<0.1	25	0.74	0.117
129281	Soil	1.0	22.8	8.2	60	<0.1	10.2	8.6	398	3.64	7.3	0.7	0.7	2.6	16	<0.1	0.5	<0.1	47	0.19	0.038
129282	Soil	0.4	30.8	6.7	86	<0.1	81.8	28.7	906	5.91	2.6	0.9	1.2	3.2	32	<0.1	0.3	<0.1	90	0.78	0.056
129283	Soil	0.6	23.3	8.6	84	<0.1	11.3	7.3	329	2.93	5.0	0.6	<0.5	4.3	14	<0.1	0.4	<0.1	36	0.18	0.029
129284	Soil	1.0	9.8	7.1	55	<0.1	7.7	6.8	666	2.81	4.1	1.1	4.8	6.7	10	<0.1	0.5	0.1	26	0.11	0.022
129285	Soil	1.0	11.5	12.7	37	<0.1	10.6	4.1	205	1.63	5.2	1.8	2.5	4.5	122	<0.1	0.3	0.3	31	0.46	0.032
129286	Soil	0.5	5.5	5.3	81	<0.1	6.1	6.5	570	2.80	1.7	0.6	2.2	3.8	12	<0.1	0.1	0.1	30	0.19	0.030
129287	Soil	0.8	12.0	7.8	48	<0.1	13.4	9.1	417	2.73	4.5	0.4	1.7	2.5	15	<0.1	0.3	0.1	55	0.25	0.024
129288	Soil	0.6	8.9	7.8	63	<0.1	9.9	10.1	341	3.16	4.0	0.5	2.6	2.6	19	<0.1	0.2	0.1	50	0.37	0.049
129289	Soil	0.9	9.6	8.6	63	<0.1	14.4	8.0	430	2.88	6.7	0.6	2.2	2.9	17	0.1	0.4	0.1	48	0.27	0.042
129290	Soil	1.0	10.6	8.4	64	<0.1	17.3	7.8	294	3.02	8.0	0.5	1.3	2.7	15	<0.1	0.4	0.1	51	0.21	0.033
129291	Soil	0.6	19.1	6.6	85	<0.1	14.3	11.7	443	3.97	6.3	0.4	1.6	2.3	13	<0.1	0.3	0.1	48	0.24	0.044
129292	Soil	0.7	10.3	7.2	82	<0.1	12.3	9.1	413	3.70	4.5	0.6	0.9	2.3	18	<0.1	0.4	0.1	43	0.31	0.064
129293	Soil	0.4	7.9	4.0	76	<0.1	4.3	8.5	506	4.03	1.9	0.8	1.3	4.7	17	<0.1	0.4	<0.1	36	0.24	0.020

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
102952	Soil	21	56	1.23	662	0.168	<1	2.02	0.010	1.01	<0.1	<0.01	4.7	0.7	0.15	8	2.4	<0.2
102953	Soil	26	48	0.95	464	0.117	<1	1.78	0.007	0.81	<0.1	0.01	4.1	0.7	0.06	7	4.0	<0.2
102954	Soil	15	175	2.25	557	0.145	<1	2.79	0.019	0.49	0.2	<0.01	7.3	0.2	<0.05	8	<0.5	<0.2
102955	Soil	16	261	2.65	414	0.169	<1	3.56	0.010	0.44	0.1	<0.01	7.8	0.4	<0.05	12	<0.5	<0.2
102956	Soil	29	77	1.40	601	0.055	1	1.43	0.005	0.65	<0.1	<0.01	13.4	0.4	<0.05	5	<0.5	<0.2
102957	Soil	13	23	0.22	148	0.030	<1	1.09	0.004	0.05	0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
102958	Soil	36	12	0.12	94	0.015	2	0.56	0.003	0.04	<0.1	0.04	2.3	<0.1	<0.05	2	<0.5	<0.2
102959	Soil	169	11	0.08	185	0.003	2	0.81	0.002	0.09	0.3	0.16	3.7	0.2	<0.05	2	<0.5	<0.2
102960	Soil	41	19	0.28	181	0.049	<1	1.01	0.007	0.04	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
129273	Soil	9	47	1.04	323	0.097	<1	1.95	0.028	0.19	<0.1	<0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
129274	Soil	11	22	0.79	443	0.126	<1	2.26	0.015	0.24	<0.1	0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
129275	Soil	10	28	0.87	296	0.128	<1	2.53	0.019	0.20	<0.1	<0.01	7.0	<0.1	<0.05	9	<0.5	<0.2
129276	Soil	11	11	0.51	124	0.155	<1	1.80	0.012	0.53	<0.1	<0.01	4.7	0.2	<0.05	10	<0.5	<0.2
129277	Soil	6	13	0.55	152	0.158	<1	1.93	0.009	0.71	0.1	<0.01	3.5	0.3	<0.05	8	<0.5	<0.2
129278	Soil	4	41	0.96	223	0.096	<1	2.41	0.021	0.09	<0.1	0.01	6.6	<0.1	<0.05	10	<0.5	<0.2
129279	Soil	8	17	0.49	246	0.108	<1	1.65	0.012	0.21	<0.1	<0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
129280	Soil	8	6	0.66	170	0.036	1	1.72	0.006	0.34	<0.1	<0.01	6.4	0.1	<0.05	5	<0.5	<0.2
129281	Soil	8	17	0.63	251	0.144	<1	2.10	0.008	0.59	<0.1	0.01	5.1	0.2	<0.05	8	<0.5	<0.2
129282	Soil	15	190	1.27	193	0.075	<1	2.43	0.015	0.20	<0.1	0.03	13.4	<0.1	<0.05	9	<0.5	<0.2
129283	Soil	16	16	0.41	184	0.063	<1	1.87	0.008	0.40	<0.1	<0.01	3.9	0.2	<0.05	7	<0.5	<0.2
129284	Soil	26	14	0.33	95	0.011	1	1.23	0.006	0.38	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
129285	Soil	19	20	0.36	802	0.018	2	1.55	0.017	0.09	<0.1	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
129286	Soil	8	14	0.64	166	0.160	2	1.78	0.007	0.78	<0.1	<0.01	6.9	0.2	0.08	8	<0.5	<0.2
129287	Soil	9	23	0.49	154	0.105	1	1.41	0.013	0.21	<0.1	0.01	3.2	<0.1	0.06	5	<0.5	<0.2
129288	Soil	9	23	0.65	169	0.057	2	1.89	0.008	0.15	<0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
129289	Soil	8	25	0.50	154	0.103	1	1.52	0.007	0.32	<0.1	0.02	3.1	<0.1	0.07	6	<0.5	<0.2
129290	Soil	8	28	0.53	136	0.094	1	1.61	0.006	0.28	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
129291	Soil	5	23	0.69	419	0.140	1	2.08	0.008	0.53	<0.1	0.02	3.7	0.1	<0.05	7	<0.5	<0.2
129292	Soil	7	23	0.54	180	0.099	<1	1.72	0.007	0.37	<0.1	0.02	3.3	<0.1	0.06	8	<0.5	<0.2
129293	Soil	16	12	0.64	207	0.154	<1	2.34	0.009	0.69	<0.1	0.03	5.1	0.2	0.08	10	<0.5	<0.2

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Project: Montana
 Report Date: September 19, 2011

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
129294	Soil	0.5	8.6	3.3	64	<0.1	7.5	8.6	473	3.76	3.0	0.6	0.6	2.9	8	<0.1	0.4	<0.1	46	0.12	0.018
129295	Soil	0.3	4.4	2.6	65	<0.1	10.5	10.9	298	3.33	0.9	0.9	1.1	7.9	26	<0.1	0.2	<0.1	45	0.41	0.021
129296	Soil	0.6	21.8	4.0	40	<0.1	13.4	11.8	312	3.06	2.9	0.5	0.9	2.6	25	<0.1	0.3	<0.1	59	0.26	0.016
129297	Soil	0.5	8.1	4.1	83	<0.1	5.7	10.3	510	4.15	3.2	0.6	1.6	3.8	64	<0.1	0.3	0.2	44	0.24	0.035
129298	Soil	0.9	35.2	13.2	61	<0.1	25.9	9.1	315	2.83	10.2	2.8	7.8	8.9	25	<0.1	0.7	0.2	55	0.32	0.029
129299	Soil	0.9	22.0	17.2	47	<0.1	14.4	4.5	242	2.08	9.9	4.6	2.1	19.0	14	<0.1	1.6	0.2	30	0.16	0.018
129300	Soil	1.0	20.3	17.0	31	<0.1	12.7	5.7	219	1.70	13.3	3.9	2.0	27.7	11	<0.1	1.8	0.3	21	0.12	0.007
129301	Soil	0.8	18.1	18.3	37	<0.1	14.9	5.8	237	1.72	10.3	5.6	2.7	17.8	11	<0.1	0.5	0.2	31	0.12	0.010
129302	Soil	0.6	19.0	7.2	35	<0.1	14.7	6.9	167	1.58	19.7	1.8	1.8	8.0	8	<0.1	0.6	0.3	19	0.03	0.008
129303	Soil	1.6	59.9	14.0	60	<0.1	32.3	13.2	393	3.19	21.2	1.9	2.1	11.4	7	<0.1	0.9	0.4	31	0.07	0.017
129304	Soil	0.6	22.0	18.6	81	<0.1	42.6	18.5	627	4.83	4.3	2.0	2.0	18.7	10	<0.1	0.2	0.3	53	0.19	0.027
129305	Soil	1.3	29.0	21.4	69	<0.1	30.4	14.4	326	3.96	8.9	0.8	1.5	10.6	13	<0.1	0.4	0.3	51	0.17	0.030
129306	Soil	0.6	26.4	5.2	70	<0.1	160.3	36.4	1441	5.44	21.2	1.0	0.6	7.7	26	<0.1	0.4	0.2	129	0.61	0.051
129307	Soil	0.7	76.7	6.5	31	<0.1	44.8	21.3	377	3.07	52.8	0.7	3.8	5.1	38	<0.1	0.1	0.5	94	0.62	0.064
129308	Soil	2.7	42.5	11.3	86	0.4	32.2	10.9	322	3.31	26.5	1.0	1.7	3.7	16	0.5	0.7	0.2	84	0.20	0.056
129309	Soil	1.8	60.9	8.6	143	<0.1	67.7	20.8	548	5.26	6.0	2.1	1.8	11.8	19	<0.1	0.2	0.2	119	0.47	0.132
129310	Soil	3.9	96.4	11.4	252	0.1	100.3	21.5	347	4.39	9.3	2.9	4.2	9.5	20	0.3	0.4	0.2	113	0.16	0.043
129311	Soil	4.6	56.8	11.6	144	0.4	46.1	9.4	223	3.12	10.4	1.9	7.5	6.5	23	0.3	0.5	0.2	66	0.17	0.062
129312	Soil	3.9	54.3	11.8	175	0.3	67.2	12.6	319	3.57	27.3	2.0	5.2	3.1	25	0.8	0.6	0.2	62	0.18	0.083
129313	Soil	4.1	68.1	10.7	227	0.4	69.5	11.2	196	3.18	20.9	1.5	5.1	3.7	24	1.0	0.7	0.2	62	0.14	0.079
129314	Soil	4.5	95.7	15.0	250	0.5	96.3	10.6	310	4.39	9.0	3.3	3.5	8.5	37	0.8	0.2	0.3	136	0.34	0.115
129315	Soil	1.6	43.1	10.2	99	0.2	34.9	10.5	340	2.98	9.8	1.1	3.1	5.5	29	0.4	0.6	0.2	60	0.49	0.068
129316	Soil	1.8	43.5	9.5	100	0.2	38.0	9.1	218	3.07	9.5	1.6	3.8	5.9	22	0.4	0.5	0.2	69	0.33	0.059
129317	Soil	2.3	45.8	9.3	108	0.2	35.4	9.6	210	3.35	8.7	2.1	4.3	7.2	22	0.2	0.3	0.2	72	0.29	0.052
129318	Soil	3.5	90.2	14.1	239	0.3	65.5	13.4	383	4.67	6.6	3.0	5.5	9.5	41	0.4	0.3	0.3	127	0.31	0.088
129319	Soil	4.1	94.9	12.1	110	<0.1	23.8	6.1	144	3.46	22.6	1.8	5.1	11.1	10	0.2	0.3	0.4	87	0.14	0.045
129320	Soil	0.8	66.6	5.5	55	<0.1	68.5	22.1	448	3.74	54.8	1.2	10.7	6.7	26	<0.1	0.2	0.4	103	0.57	0.103
129321	Soil	0.6	36.0	5.7	50	<0.1	37.1	19.7	344	3.41	6.1	0.6	1.0	5.2	21	<0.1	<0.1	0.6	97	0.34	0.051
129322	Soil	0.4	57.5	13.4	100	<0.1	50.0	20.5	249	4.41	7.0	3.0	4.6	31.3	14	<0.1	0.2	0.5	45	0.24	0.044
129323	Soil	0.3	32.8	15.0	83	<0.1	31.3	15.2	216	3.72	9.8	1.2	<0.5	19.7	10	<0.1	0.2	0.4	29	0.17	0.042

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
129294	Soil	7	14	0.60	173	0.203	<1	1.90	0.008	0.67	<0.1	0.02	5.4	0.2	0.10	8	<0.5	<0.2
129295	Soil	33	28	1.03	387	0.095	<1	2.54	0.011	0.28	<0.1	0.02	9.0	<0.1	0.09	9	<0.5	<0.2
129296	Soil	10	34	0.74	409	0.134	<1	1.77	0.014	0.25	<0.1	0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
129297	Soil	11	13	0.92	660	0.211	<1	2.64	0.012	0.71	<0.1	0.01	9.9	0.1	0.07	11	<0.5	<0.2
129298	Soil	25	37	0.53	374	0.079	1	1.78	0.014	0.08	0.1	0.05	5.2	<0.1	0.09	5	<0.5	<0.2
129299	Soil	37	20	0.25	192	0.030	2	0.94	0.006	0.05	<0.1	0.07	3.3	<0.1	<0.05	3	<0.5	<0.2
129300	Soil	25	17	0.15	147	0.013	1	0.73	0.004	0.04	<0.1	0.06	3.6	<0.1	<0.05	2	<0.5	<0.2
129301	Soil	33	24	0.27	155	0.042	<1	1.01	0.006	0.04	<0.1	0.06	3.3	<0.1	<0.05	3	<0.5	<0.2
129302	Soil	7	19	0.09	59	0.009	<1	0.61	0.002	0.03	<0.1	0.05	3.4	<0.1	<0.05	2	<0.5	<0.2
129303	Soil	22	20	0.10	159	0.009	<1	0.78	0.003	0.05	<0.1	0.06	3.8	0.1	<0.05	3	<0.5	<0.2
129304	Soil	57	59	0.96	523	0.172	1	2.17	0.009	0.87	<0.1	0.02	8.2	0.6	<0.05	9	<0.5	<0.2
129305	Soil	10	44	0.80	267	0.138	<1	2.69	0.006	0.48	<0.1	<0.01	3.6	0.3	0.08	7	<0.5	<0.2
129306	Soil	20	707	4.35	205	0.076	<1	3.54	0.006	0.05	<0.1	<0.01	17.8	<0.1	<0.05	11	<0.5	<0.2
129307	Soil	9	78	1.76	732	0.120	<1	3.07	0.036	0.24	<0.1	0.01	6.6	0.1	<0.05	7	<0.5	<0.2
129308	Soil	11	44	0.73	301	0.082	<1	2.00	0.007	0.21	0.2	0.02	3.5	0.1	0.09	6	<0.5	<0.2
129309	Soil	58	94	1.83	566	0.322	<1	3.30	0.010	1.27	<0.1	0.01	6.7	0.5	0.11	12	0.6	<0.2
129310	Soil	50	73	1.23	624	0.171	<1	2.37	0.009	0.70	<0.1	0.02	6.0	0.5	0.10	9	1.4	<0.2
129311	Soil	23	45	0.63	235	0.072	<1	1.36	0.008	0.24	<0.1	0.07	3.0	0.4	0.18	4	2.6	<0.2
129312	Soil	17	40	0.33	248	0.044	<1	0.88	0.005	0.20	<0.1	0.12	3.7	0.6	0.11	3	1.7	<0.2
129313	Soil	12	38	0.30	197	0.048	<1	0.86	0.004	0.17	<0.1	0.10	3.2	0.5	0.07	3	2.4	<0.2
129314	Soil	42	149	1.61	535	0.123	<1	2.32	0.011	0.89	<0.1	0.03	6.1	0.6	0.31	9	2.1	<0.2
129315	Soil	19	37	0.63	339	0.097	<1	1.66	0.018	0.14	0.1	0.10	4.4	0.2	0.09	5	0.5	<0.2
129316	Soil	20	47	0.68	396	0.116	<1	1.72	0.011	0.26	0.1	0.07	4.3	0.2	0.07	6	0.7	<0.2
129317	Soil	24	44	0.81	345	0.110	<1	1.78	0.011	0.36	<0.1	0.02	3.7	0.3	0.11	6	0.6	<0.2
129318	Soil	42	85	1.38	684	0.168	<1	2.53	0.024	1.05	<0.1	0.03	6.6	0.7	0.32	10	1.8	<0.2
129319	Soil	38	54	0.83	384	0.112	<1	1.74	0.006	0.62	<0.1	0.01	3.4	0.6	0.11	6	3.2	<0.2
129320	Soil	35	212	1.96	695	0.167	<1	2.60	0.021	0.69	0.2	0.02	8.9	0.4	<0.05	8	<0.5	<0.2
129321	Soil	20	130	1.73	515	0.198	<1	2.90	0.016	0.74	0.2	<0.01	4.2	0.4	<0.05	8	<0.5	<0.2
129322	Soil	422	41	1.12	189	0.162	1	2.73	0.008	0.88	<0.1	0.03	6.9	0.8	<0.05	8	0.6	<0.2
129323	Soil	47	31	0.90	214	0.135	<1	2.25	0.008	0.74	<0.1	0.01	3.1	0.7	<0.05	7	<0.5	<0.2

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 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
129324	Soil			0.5	52.6	19.1	116	<0.1	46.2	23.2	408	4.67	4.2	2.2	<0.5	26.8	10	<0.1	0.3	0.5	40	0.16	0.037
129325	Soil			1.4	27.6	14.2	65	<0.1	26.9	10.8	349	3.13	15.3	0.7	1.9	4.3	15	0.2	0.8	0.2	58	0.12	0.035
129326	Soil			2.6	19.4	18.8	37	0.1	15.9	36.9	2599	2.33	14.1	1.0	1.0	2.9	20	0.2	0.6	0.3	55	0.16	0.050
129327	Soil			0.7	31.0	16.6	59	<0.1	20.4	8.6	271	2.66	31.0	4.9	2.9	14.2	15	<0.1	0.7	0.4	40	0.17	0.030
129328	Soil			0.9	34.8	23.3	95	<0.1	32.3	13.3	229	3.52	21.8	2.4	2.4	17.1	13	<0.1	0.4	0.2	40	0.17	0.026
129329	Soil			0.6	30.2	69.4	217	<0.1	55.0	17.3	571	4.88	21.7	3.6	4.2	10.0	56	1.1	0.2	0.3	112	0.80	0.183
129330	Soil			1.5	40.4	14.4	166	<0.1	36.6	20.7	385	3.58	9.1	3.4	4.1	20.5	9	0.5	0.3	0.6	30	0.09	0.035
129331	Soil			1.4	42.1	11.1	44	<0.1	24.8	10.6	274	2.04	11.0	5.0	3.0	22.9	14	<0.1	0.5	0.3	21	0.14	0.054
114606	Soil			0.8	13.9	6.0	47	<0.1	10.5	8.7	365	2.83	3.7	0.9	2.2	3.5	26	<0.1	0.3	<0.1	52	0.38	0.052
114607	Soil			0.4	7.9	1.3	81	<0.1	3.4	12.7	663	5.24	0.9	0.6	0.8	3.9	19	<0.1	0.1	<0.1	82	0.41	0.089
114608	Soil			0.8	22.4	7.8	57	<0.1	15.8	9.5	332	2.76	7.3	0.9	92.9	4.0	27	<0.1	0.5	0.2	51	0.33	0.041
114609	Soil			1.0	14.0	6.9	48	<0.1	11.8	6.9	263	2.81	7.8	0.6	2.5	3.0	18	<0.1	0.4	0.1	54	0.21	0.030
114610	Soil			1.1	22.6	10.3	55	<0.1	17.1	9.5	419	3.08	7.5	1.3	8.7	4.7	30	<0.1	0.7	0.2	54	0.33	0.027
114611	Soil			0.6	15.9	5.4	58	<0.1	14.6	8.1	384	3.53	4.6	0.9	1.6	4.9	26	<0.1	0.4	<0.1	40	0.26	0.035
114612	Soil			0.7	10.5	5.6	66	<0.1	8.0	8.9	418	3.58	4.4	0.8	0.7	4.2	17	<0.1	0.3	<0.1	42	0.33	0.057
114613	Soil			0.9	9.5	7.2	51	<0.1	8.9	7.2	341	2.95	6.4	0.4	<0.5	2.2	16	<0.1	0.3	0.1	51	0.21	0.043
114614	Soil			1.3	11.2	8.0	81	<0.1	8.1	9.0	265	4.43	9.2	0.6	0.8	3.0	9	<0.1	0.4	0.1	61	0.10	0.040
114615	Soil			0.9	28.2	2.9	99	<0.1	4.3	9.1	537	5.63	2.8	0.7	<0.5	4.5	16	<0.1	0.3	<0.1	62	0.23	0.044
114616	Soil			0.5	16.3	3.4	73	<0.1	3.9	5.6	526	3.41	1.0	0.6	5.6	5.0	27	<0.1	<0.1	<0.1	30	0.35	0.050
114617	Soil			2.0	23.4	5.8	119	<0.1	17.0	24.8	806	4.84	1.9	1.0	1.4	2.2	52	<0.1	0.4	<0.1	75	0.69	0.032
114618	Soil			0.6	7.5	5.8	28	<0.1	8.7	4.1	164	1.58	4.7	0.5	1.1	3.0	19	<0.1	0.3	0.1	28	0.27	0.018
114619	Soil			1.8	9.2	9.4	33	<0.1	6.5	7.7	899	1.87	4.0	0.4	0.8	2.6	14	0.1	0.3	0.2	48	0.15	0.025
114620	Soil			1.1	23.7	10.5	59	0.1	19.1	8.2	406	2.25	7.9	2.0	1.6	2.9	62	0.4	0.5	0.2	42	0.65	0.082
114621	Soil			1.0	21.3	8.7	49	<0.1	20.1	7.9	279	2.37	5.4	1.5	2.1	2.4	45	0.1	0.3	0.1	46	0.41	0.047
114622	Soil			0.2	9.4	3.2	66	<0.1	4.9	16.4	362	4.00	1.0	1.0	<0.5	3.2	42	<0.1	0.1	<0.1	72	0.58	0.080
114623	Soil			1.0	24.1	12.6	52	0.1	18.7	8.6	342	2.26	7.7	2.7	1.7	4.1	66	0.2	0.6	0.2	42	0.60	0.067
114624	Soil			1.8	23.8	20.5	42	<0.1	23.1	8.7	1323	1.46	5.8	2.3	1.8	6.0	121	0.3	0.5	0.3	24	0.73	0.098
114625	Soil			1.0	12.1	20.9	42	<0.1	12.4	4.8	486	1.62	6.0	3.0	1.0	5.7	91	0.1	0.3	0.3	21	0.61	0.042
114626	Soil			0.7	20.4	16.2	57	0.1	16.2	7.6	301	2.14	6.0	2.5	0.8	7.7	53	<0.1	0.5	0.2	38	0.49	0.048
114627	Soil			0.7	11.0	15.2	38	<0.1	4.2	4.2	144	1.33	1.6	2.2	<0.5	8.9	12	<0.1	0.3	0.3	32	0.11	0.012

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Project: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
129324	Soil	82	37	0.73	288	0.153	2	2.05	0.007	0.66	<0.1	0.02	6.0	0.6	<0.05	7	<0.5	<0.2
129325	Soil	11	36	0.45	260	0.045	2	2.09	0.008	0.07	0.2	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
129326	Soil	14	23	0.17	223	0.055	2	1.02	0.006	0.07	0.2	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
129327	Soil	37	36	0.33	220	0.028	<1	1.22	0.005	0.10	<0.1	0.04	5.7	0.2	<0.05	4	<0.5	<0.2
129328	Soil	29	28	0.46	182	0.053	1	1.56	0.006	0.23	<0.1	0.02	4.2	0.4	<0.05	4	<0.5	<0.2
129329	Soil	69	182	1.62	446	0.098	<1	2.96	0.009	0.70	<0.1	0.01	11.9	0.5	<0.05	9	0.6	<0.2
129330	Soil	58	23	0.24	158	0.022	<1	1.26	0.004	0.14	<0.1	0.01	3.3	0.3	<0.05	4	0.6	<0.2
129331	Soil	77	14	0.09	131	0.007	1	0.75	0.003	0.11	0.1	0.03	5.0	0.2	<0.05	2	<0.5	<0.2
114606	Soil	13	19	0.55	221	0.128	1	1.40	0.020	0.28	<0.1	0.02	5.3	0.1	<0.05	6	<0.5	<0.2
114607	Soil	13	4	0.97	415	0.225	<1	2.16	0.016	1.01	0.1	<0.01	13.6	0.2	<0.05	11	<0.5	<0.2
114608	Soil	14	25	0.51	289	0.086	1	1.59	0.016	0.11	0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
114609	Soil	11	24	0.47	175	0.083	<1	1.50	0.009	0.13	0.1	0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
114610	Soil	18	29	0.50	282	0.117	2	1.80	0.015	0.16	0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
114611	Soil	20	31	0.63	313	0.133	<1	1.93	0.012	0.47	<0.1	0.03	7.0	0.2	<0.05	8	<0.5	<0.2
114612	Soil	15	14	0.68	243	0.137	<1	1.89	0.010	0.45	0.1	0.01	7.0	0.2	<0.05	8	<0.5	<0.2
114613	Soil	10	17	0.62	152	0.118	<1	1.82	0.008	0.22	0.1	0.02	3.7	0.1	<0.05	7	<0.5	<0.2
114614	Soil	10	20	1.13	207	0.171	1	2.76	0.010	0.56	0.1	0.01	7.7	0.2	<0.05	12	<0.5	<0.2
114615	Soil	8	7	0.93	278	0.232	<1	2.48	0.009	1.01	<0.1	0.03	13.6	0.3	<0.05	11	<0.5	<0.2
114616	Soil	21	4	0.59	265	0.138	<1	1.81	0.009	0.87	<0.1	0.02	6.3	0.2	<0.05	8	<0.5	<0.2
114617	Soil	17	41	1.28	370	0.072	<1	2.62	0.008	0.11	<0.1	0.13	10.7	<0.1	<0.05	13	<0.5	<0.2
114618	Soil	10	15	0.27	135	0.040	<1	1.21	0.004	0.03	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
114619	Soil	11	16	0.18	232	0.064	<1	1.07	0.007	0.08	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
114620	Soil	15	23	0.43	305	0.044	3	1.26	0.016	0.06	<0.1	0.04	3.8	<0.1	<0.05	4	0.6	<0.2
114621	Soil	14	44	0.62	274	0.054	2	1.62	0.011	0.12	<0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
114622	Soil	11	11	1.06	381	0.080	2	2.12	0.014	0.53	<0.1	<0.01	8.0	0.1	<0.05	7	<0.5	<0.2
114623	Soil	19	24	0.42	385	0.036	2	1.42	0.017	0.05	0.1	0.04	3.9	0.1	<0.05	4	<0.5	<0.2
114624	Soil	20	10	0.36	574	0.007	4	1.54	0.017	0.13	<0.1	0.04	2.9	0.9	<0.05	4	<0.5	<0.2
114625	Soil	19	10	0.30	337	0.008	3	1.38	0.013	0.10	<0.1	0.02	2.2	0.3	<0.05	4	0.6	<0.2
114626	Soil	21	18	0.38	347	0.032	3	1.30	0.012	0.13	<0.1	0.09	6.1	0.2	<0.05	5	<0.5	<0.2
114627	Soil	18	6	0.14	98	0.042	2	0.68	0.003	0.13	<0.1	0.05	6.2	0.3	<0.05	4	<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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
114628	Soil	0.8	12.6	7.4	89	<0.1	5.7	8.9	638	3.60	2.6	1.9	1.3	5.8	11	<0.1	0.2	0.3	42	0.15	0.027
114629	Soil	0.8	19.4	5.9	51	<0.1	2.7	5.4	516	2.37	0.6	1.1	22.9	7.7	23	<0.1	0.1	0.3	11	0.29	0.018
114630	Soil	0.3	23.6	3.0	82	<0.1	17.0	21.6	993	5.43	2.1	0.9	3.4	2.6	27	<0.1	0.3	<0.1	117	0.70	0.054
114631	Soil	0.4	10.0	5.8	37	<0.1	5.1	6.4	322	1.69	<0.5	1.1	5.1	2.2	22	0.1	0.2	0.3	18	0.22	0.022
114632	Soil	0.2	42.1	2.2	81	<0.1	4.3	10.5	1443	3.49	<0.5	0.6	1.5	7.4	13	0.1	<0.1	0.1	29	0.23	0.023
114633	Soil	0.3	3.4	3.8	38	<0.1	3.4	3.0	486	2.92	0.8	0.4	1.0	2.5	27	<0.1	0.3	0.1	16	0.51	0.037
114634	Soil	<0.1	14.1	4.8	82	<0.1	0.8	7.5	1126	4.31	<0.5	0.4	2.3	4.5	16	<0.1	<0.1	<0.1	15	0.41	0.065
114635	Soil	0.4	14.2	2.4	72	<0.1	4.1	7.8	282	2.29	1.6	0.3	0.6	1.3	19	<0.1	0.2	<0.1	19	0.38	0.043
114636	Soil	0.9	19.1	7.5	59	<0.1	18.4	9.3	343	3.18	8.5	0.5	2.9	3.7	12	<0.1	0.5	0.1	54	0.13	0.018
114637	Soil	0.7	18.3	5.3	46	<0.1	15.4	10.0	277	3.08	4.2	0.5	1.4	2.6	18	<0.1	0.3	<0.1	57	0.24	0.020
114638	Soil	0.7	16.8	4.9	59	<0.1	12.3	11.5	441	3.80	3.4	1.1	2.0	4.6	22	<0.1	0.4	<0.1	55	0.30	0.037
114639	Soil	1.0	19.0	8.6	51	<0.1	16.6	9.8	330	3.06	6.9	1.1	2.5	4.1	22	<0.1	0.5	0.1	53	0.29	0.023
114640	Soil	1.0	18.5	8.4	47	<0.1	16.1	10.0	328	3.15	6.8	1.1	0.9	4.1	23	<0.1	0.5	0.1	57	0.31	0.025
114641	Soil	0.9	14.4	7.2	57	<0.1	10.2	10.9	436	3.44	4.2	1.5	<0.5	4.5	23	<0.1	0.3	0.2	62	0.36	0.037
114642	Soil	0.9	10.8	8.6	49	<0.1	7.6	10.0	359	2.66	3.8	1.2	2.0	4.2	14	<0.1	0.3	0.2	46	0.21	0.035



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Project: Montana
 Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001145.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
114628	Soil	26	7	0.62	168	0.151	<1	2.10	0.008	0.52	<0.1	0.02	7.1	0.6	<0.05	9	<0.5	<0.2
114629	Soil	30	4	0.75	110	0.061	2	1.83	0.010	0.49	<0.1	0.02	6.5	0.2	<0.05	6	<0.5	<0.2
114630	Soil	12	47	0.72	324	0.035	1	2.30	0.013	0.27	<0.1	0.37	14.6	<0.1	<0.05	9	<0.5	<0.2
114631	Soil	30	8	0.20	134	0.031	2	0.75	0.005	0.18	<0.1	0.02	4.1	0.2	0.08	5	<0.5	<0.2
114632	Soil	26	6	0.91	162	0.087	2	1.59	0.010	0.77	<0.1	<0.01	13.2	0.3	<0.05	8	<0.5	<0.2
114633	Soil	12	5	1.03	97	0.034	2	1.85	0.007	0.42	<0.1	<0.01	3.2	0.1	<0.05	6	<0.5	<0.2
114634	Soil	23	2	0.47	132	0.073	1	1.73	0.009	0.73	<0.1	0.05	7.4	0.2	0.08	10	<0.5	<0.2
114635	Soil	7	10	0.81	109	0.090	<1	2.00	0.006	0.43	<0.1	0.01	2.7	0.2	0.08	6	<0.5	<0.2
114636	Soil	9	29	0.59	198	0.108	<1	1.90	0.009	0.24	<0.1	<0.01	3.8	0.1	<0.05	6	<0.5	<0.2
114637	Soil	11	32	0.77	272	0.123	<1	1.73	0.013	0.20	<0.1	0.01	4.5	0.1	<0.05	6	<0.5	<0.2
114638	Soil	23	21	0.74	372	0.183	<1	1.88	0.013	0.46	<0.1	0.02	7.4	0.2	<0.05	8	<0.5	<0.2
114639	Soil	15	29	0.57	319	0.119	<1	1.83	0.012	0.18	0.1	0.01	5.7	<0.1	<0.05	6	<0.5	<0.2
114640	Soil	15	28	0.59	320	0.127	<1	1.84	0.012	0.20	0.2	<0.01	5.8	0.1	<0.05	6	<0.5	<0.2
114641	Soil	22	21	0.52	218	0.068	<1	1.84	0.008	0.18	<0.1	0.04	8.0	0.2	0.08	8	<0.5	<0.2
114642	Soil	16	16	0.37	149	0.057	1	1.38	0.007	0.13	<0.1	0.02	5.4	0.1	0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11001145.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
145514	Soil	0.8	29.1	8.7	78	<0.1	45.6	11.4	349	3.75	9.7	1.1	1.4	6.5	20	0.2	0.3	0.2	78	0.45	0.076
REP 145514	QC	0.8	27.4	8.8	74	<0.1	44.4	11.2	334	3.58	9.5	1.1	1.6	6.3	19	0.2	0.3	0.2	76	0.44	0.075
145524	Soil	1.0	50.9	7.7	112	<0.1	38.4	10.8	570	2.92	5.2	0.9	1.9	5.1	21	0.2	0.2	0.2	90	0.36	0.076
REP 145524	QC	1.2	52.9	7.8	118	<0.1	40.7	11.5	588	2.95	4.9	1.0	2.4	5.2	22	0.2	0.2	0.2	91	0.38	0.080
123294	Soil	0.9	30.4	13.8	47	0.2	24.9	7.9	460	2.34	12.9	5.1	3.7	8.8	26	0.1	0.6	0.3	48	0.30	0.022
REP 123294	QC	1.0	30.3	13.7	47	0.2	25.0	8.0	458	2.31	12.7	5.0	5.1	9.1	26	<0.1	0.6	0.3	49	0.29	0.021
123320	Soil	0.8	14.8	14.9	38	<0.1	12.9	4.5	222	1.72	14.6	2.5	3.2	10.9	16	0.2	0.6	0.5	34	0.16	0.017
REP 123320	QC	0.8	13.6	14.1	37	<0.1	11.8	4.1	206	1.62	14.1	2.4	<0.5	11.1	15	0.2	0.5	0.5	33	0.15	0.015
123333	Soil	1.0	29.6	11.7	77	0.2	25.2	9.5	341	2.67	10.3	0.8	3.7	5.2	31	0.3	0.8	0.2	44	0.65	0.065
REP 123333	QC	1.0	28.8	11.3	76	0.2	24.3	9.2	338	2.63	10.5	0.8	3.9	5.2	29	0.3	0.7	0.2	44	0.64	0.061
123349	Soil	0.6	33.9	14.6	68	<0.1	25.1	11.5	314	3.77	2.7	2.0	7.9	12.3	19	<0.1	0.5	0.3	51	0.31	0.038
REP 123349	QC	0.5	33.6	14.6	66	<0.1	25.4	11.7	308	3.70	2.3	2.0	6.6	11.8	19	<0.1	0.5	0.3	49	0.31	0.038
113853	Soil	2.2	46.0	10.1	121	0.4	51.8	12.1	341	3.23	11.5	1.3	6.6	5.2	16	0.2	0.9	0.2	71	0.13	0.032
REP 113853	QC	2.1	46.0	10.3	122	0.5	49.5	11.9	321	3.18	11.7	1.2	6.7	5.1	16	0.2	1.0	0.2	71	0.13	0.032
113884	Soil	1.4	36.3	18.9	114	<0.1	38.0	18.0	390	3.19	6.4	5.1	3.5	23.9	12	<0.1	0.5	0.1	13	0.17	0.039
REP 113884	QC	1.4	35.0	17.2	113	0.1	36.7	17.8	396	3.27	5.9	5.0	3.0	23.9	12	<0.1	0.5	0.1	13	0.17	0.039
102911	Soil	0.4	17.0	10.6	58	<0.1	12.4	11.9	233	1.89	4.5	1.2	2.8	4.8	45	0.2	0.4	0.2	35	0.46	0.029
REP 102911	QC	0.5	16.9	10.7	59	<0.1	12.0	11.4	230	1.89	4.1	1.2	1.0	4.9	44	<0.1	0.5	0.2	37	0.47	0.029
102921	Soil	0.4	16.5	6.1	70	<0.1	11.2	10.1	401	3.94	3.2	1.2	1.1	5.6	24	<0.1	0.3	<0.1	42	0.34	0.043
REP 102921	QC	0.4	16.4	5.8	68	<0.1	11.3	10.0	386	3.81	3.1	1.2	0.6	5.4	23	<0.1	0.3	<0.1	41	0.32	0.042
102945	Soil	3.1	67.1	12.5	209	<0.1	137.1	15.4	306	3.51	7.7	1.7	3.1	7.8	11	0.5	0.2	0.3	96	0.24	0.083
REP 102945	QC	2.9	66.1	12.6	205	<0.1	135.7	15.4	304	3.52	7.5	1.7	2.1	8.0	11	0.5	0.2	0.3	94	0.22	0.083
129281	Soil	1.0	22.8	8.2	60	<0.1	10.2	8.6	398	3.64	7.3	0.7	0.7	2.6	16	<0.1	0.5	<0.1	47	0.19	0.038
REP 129281	QC	0.9	22.0	8.2	62	<0.1	10.1	8.7	397	3.63	7.7	0.7	1.1	2.8	15	<0.1	0.4	<0.1	47	0.19	0.039
129298	Soil	0.9	35.2	13.2	61	<0.1	25.9	9.1	315	2.83	10.2	2.8	7.8	8.9	25	<0.1	0.7	0.2	55	0.32	0.029
REP 129298	QC	0.9	36.1	13.4	61	<0.1	26.6	9.1	311	2.83	9.7	2.9	3.0	9.2	25	<0.1	0.7	0.2	54	0.32	0.029
129314	Soil	4.5	95.7	15.0	250	0.5	96.3	10.6	310	4.39	9.0	3.3	3.5	8.5	37	0.8	0.2	0.3	136	0.34	0.115
REP 129314	QC	4.6	96.2	15.2	260	0.6	95.6	11.0	317	4.46	9.1	3.4	3.0	8.7	37	0.9	0.2	0.3	137	0.34	0.119

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QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	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
Pulp Duplicates																				
145514	Soil			27	66	1.04	285	0.169	<1	2.33	0.010	0.62	0.1	0.01	4.4	0.3	<0.05	8	<0.5	<0.2
REP 145514	QC			26	63	1.00	273	0.161	<1	2.20	0.010	0.60	0.1	0.01	4.2	0.3	<0.05	8	<0.5	<0.2
145524	Soil			14	58	1.06	581	0.146	<1	1.88	0.006	0.52	<0.1	<0.01	4.3	0.3	<0.05	6	0.7	<0.2
REP 145524	QC			15	58	1.07	592	0.156	<1	1.92	0.006	0.53	0.1	<0.01	4.2	0.3	<0.05	6	0.8	0.2
123294	Soil			19	28	0.41	382	0.055	<1	1.38	0.013	0.05	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
REP 123294	QC			20	29	0.41	388	0.058	<1	1.42	0.014	0.05	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
123320	Soil			21	18	0.28	189	0.039	1	0.97	0.006	0.05	0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
REP 123320	QC			20	17	0.27	178	0.038	<1	0.94	0.006	0.05	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
123333	Soil			17	28	0.57	371	0.054	3	1.31	0.016	0.08	0.1	0.05	3.9	<0.1	<0.05	4	0.7	<0.2
REP 123333	QC			16	28	0.55	359	0.050	1	1.24	0.016	0.07	0.1	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
123349	Soil			30	47	0.64	282	0.065	1	1.63	0.005	0.29	<0.1	0.02	7.7	0.3	<0.05	7	<0.5	<0.2
REP 123349	QC			29	46	0.63	273	0.068	1	1.59	0.005	0.29	<0.1	0.03	7.2	0.3	<0.05	8	<0.5	<0.2
113853	Soil			11	41	0.53	315	0.070	2	1.64	0.012	0.08	0.1	0.04	4.2	0.1	<0.05	5	<0.5	<0.2
REP 113853	QC			11	40	0.51	311	0.067	1	1.60	0.010	0.07	0.2	0.06	4.2	0.1	<0.05	5	0.5	<0.2
113884	Soil			60	11	0.42	153	0.007	<1	1.52	0.006	0.16	<0.1	0.98	2.4	0.2	<0.05	6	<0.5	<0.2
REP 113884	QC			60	15	0.43	149	0.006	<1	1.55	0.007	0.17	<0.1	1.02	2.4	0.2	<0.05	6	<0.5	<0.2
102911	Soil			20	14	0.33	137	0.011	1	1.17	0.007	0.17	<0.1	0.06	5.3	0.2	<0.05	4	<0.5	<0.2
REP 102911	QC			21	15	0.32	137	0.013	1	1.25	0.006	0.17	<0.1	0.05	5.5	0.2	<0.05	5	<0.5	<0.2
102921	Soil			17	15	0.69	200	0.031	<1	1.83	0.008	0.24	<0.1	<0.01	5.6	<0.1	<0.05	8	<0.5	<0.2
REP 102921	QC			16	15	0.66	193	0.028	<1	1.77	0.008	0.23	<0.1	<0.01	5.5	<0.1	<0.05	8	<0.5	<0.2
102945	Soil			21	135	1.46	408	0.118	<1	2.35	0.005	0.78	<0.1	0.01	5.0	0.5	<0.05	9	<0.5	<0.2
REP 102945	QC			22	128	1.46	408	0.115	<1	2.35	0.005	0.78	<0.1	<0.01	5.1	0.5	<0.05	8	0.6	<0.2
129281	Soil			8	17	0.63	251	0.144	<1	2.10	0.008	0.59	<0.1	0.01	5.1	0.2	<0.05	8	<0.5	<0.2
REP 129281	QC			8	17	0.62	255	0.142	<1	2.06	0.007	0.58	<0.1	0.01	4.8	0.2	<0.05	8	<0.5	<0.2
129298	Soil			25	37	0.53	374	0.079	1	1.78	0.014	0.08	0.1	0.05	5.2	<0.1	0.09	5	<0.5	<0.2
REP 129298	QC			25	35	0.51	386	0.075	1	1.70	0.013	0.08	0.1	0.05	5.1	<0.1	<0.05	5	<0.5	<0.2
129314	Soil			42	149	1.61	535	0.123	<1	2.32	0.011	0.89	<0.1	0.03	6.1	0.6	0.31	9	2.1	<0.2
REP 129314	QC			42	151	1.65	533	0.125	<1	2.39	0.012	0.94	<0.1	0.03	6.3	0.6	0.37	9	2.1	<0.2

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 Report Date: September 19, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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
114609	Soil	1.0	14.0	6.9	48	<0.1	11.8	6.9	263	2.81	7.8	0.6	2.5	3.0	18	<0.1	0.4	0.1	54	0.21	0.030
REP 114609	QC	0.9	13.9	6.9	48	<0.1	11.9	6.9	265	2.79	7.4	0.6	1.9	3.0	18	0.1	0.4	0.1	53	0.21	0.031
114622	Soil	0.2	9.4	3.2	66	<0.1	4.9	16.4	362	4.00	1.0	1.0	<0.5	3.2	42	<0.1	0.1	<0.1	72	0.58	0.080
REP 114622	QC	0.2	9.4	3.0	65	<0.1	4.8	16.7	365	4.02	0.8	1.0	<0.5	3.2	41	<0.1	<0.1	<0.1	73	0.58	0.082
114638	Soil	0.7	16.8	4.9	59	<0.1	12.3	11.5	441	3.80	3.4	1.1	2.0	4.6	22	<0.1	0.4	<0.1	55	0.30	0.037
REP 114638	QC	0.7	17.6	5.2	61	<0.1	12.9	12.0	461	3.98	3.5	1.1	1.5	4.7	23	<0.1	0.4	<0.1	57	0.31	0.038
Reference Materials																					
STD DS8	Standard	13.8	115.5	129.6	323	1.9	40.7	8.2	640	2.55	25.8	2.9	114.8	7.1	70	2.5	5.9	6.5	44	0.72	0.081
STD DS8	Standard	12.3	98.4	116.7	290	1.7	35.6	7.0	551	2.26	23.5	2.7	100.0	6.8	63	2.2	5.2	6.7	38	0.62	0.071
STD DS8	Standard	12.6	108.4	126.6	314	1.9	38.1	7.7	605	2.43	25.4	2.8	108.9	6.4	68	2.5	6.1	6.6	41	0.67	0.081
STD DS8	Standard	12.9	107.1	123.9	313	1.9	37.7	7.6	614	2.47	25.2	2.8	110.5	6.6	67	2.2	5.8	6.6	41	0.66	0.081
STD DS8	Standard	11.0	92.7	109.9	275	1.6	31.5	6.4	527	2.13	22.2	2.5	104.3	6.1	58	2.0	4.6	5.6	35	0.58	0.071
STD DS8	Standard	11.8	103.4	117.7	306	1.7	34.8	6.9	568	2.33	25.8	2.5	102.0	6.2	62	2.2	5.2	6.4	37	0.63	0.075
STD DS8	Standard	13.1	106.1	124.7	306	1.7	35.9	7.2	603	2.43	25.2	2.8	114.7	7.0	65	2.5	6.1	7.0	42	0.66	0.079
STD DS8	Standard	13.1	110.1	125.9	307	1.7	37.5	7.6	628	2.47	25.7	3.0	114.7	7.4	73	2.2	5.9	7.6	43	0.70	0.080
STD DS8	Standard	13.9	111.9	122.7	316	1.8	40.2	8.1	641	2.54	24.7	2.7	115.8	6.5	60	2.3	4.9	6.1	44	0.72	0.078
STD DS8	Standard	14.9	123.7	133.5	340	2.0	44.3	8.9	675	2.74	26.2	2.9	127.7	7.5	64	2.5	5.5	6.5	44	0.76	0.084
STD DS8	Standard	12.7	107.7	123.4	310	1.8	38.3	7.4	588	2.35	22.8	2.6	99.7	6.2	60	2.1	5.1	5.8	41	0.64	0.075
STD DS8	Standard	13.2	117.8	119.7	315	1.8	42.3	8.7	620	2.55	24.1	2.5	111.2	6.0	61	2.5	5.5	6.9	48	0.69	0.081
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Montana
 Report Date: September 19, 2011

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QUALITY CONTROL REPORT

WHI11001145.1

		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
114609	Soil	11	24	0.47	175	0.083	<1	1.50	0.009	0.13	0.1	0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
REP 114609	QC	11	24	0.46	172	0.083	1	1.48	0.009	0.13	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
114622	Soil	11	11	1.06	381	0.080	2	2.12	0.014	0.53	<0.1	<0.01	8.0	0.1	<0.05	7	<0.5	<0.2
REP 114622	QC	11	11	1.06	395	0.081	2	2.16	0.015	0.54	<0.1	<0.01	8.0	0.1	<0.05	7	<0.5	<0.2
114638	Soil	23	21	0.74	372	0.183	<1	1.88	0.013	0.46	<0.1	0.02	7.4	0.2	<0.05	8	<0.5	<0.2
REP 114638	QC	24	21	0.77	381	0.186	<1	1.98	0.014	0.47	<0.1	0.02	7.7	0.2	<0.05	8	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	120	0.63	285	0.123	3	0.95	0.090	0.42	3.0	0.19	2.3	5.7	0.10	5	5.9	5.3
STD DS8	Standard	13	105	0.55	254	0.097	3	0.84	0.096	0.41	2.8	0.18	2.0	5.1	0.14	4	4.8	4.7
STD DS8	Standard	15	115	0.61	288	0.116	2	0.90	0.087	0.42	3.1	0.19	2.1	5.4	0.14	4	5.2	5.0
STD DS8	Standard	15	114	0.61	276	0.116	2	0.89	0.086	0.42	3.2	0.19	2.2	5.3	0.14	4	5.0	5.1
STD DS8	Standard	13	101	0.53	241	0.100	2	0.77	0.071	0.36	2.6	0.16	1.8	4.7	0.11	4	3.6	4.3
STD DS8	Standard	13	107	0.56	263	0.105	3	0.83	0.083	0.40	2.8	0.20	1.9	4.9	0.11	4	4.3	4.3
STD DS8	Standard	14	114	0.61	280	0.110	2	0.90	0.089	0.41	3.0	0.21	1.8	5.2	0.15	5	4.9	4.9
STD DS8	Standard	16	119	0.62	275	0.128	2	0.97	0.090	0.41	3.0	0.20	2.3	5.3	0.15	5	5.2	4.8
STD DS8	Standard	15	126	0.64	268	0.118	2	0.94	0.082	0.40	2.9	0.20	2.4	5.4	0.28	5	5.2	4.9
STD DS8	Standard	16	134	0.68	291	0.123	3	1.01	0.093	0.45	3.2	0.22	2.5	5.9	0.22	5	6.0	5.4
STD DS8	Standard	14	118	0.59	267	0.109	2	0.86	0.084	0.39	3.0	0.19	1.9	5.4	0.15	4	4.9	4.8
STD DS8	Standard	14	127	0.63	264	0.124	3	0.91	0.083	0.40	3.0	0.20	2.1	5.4	0.20	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
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: Montana

Report Date: September 19, 2011

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QUALITY CONTROL REPORT

WHI11001145.1

		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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QUALITY CONTROL REPORT

WHI11001145.1

		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



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Submitted By: Lauren Wilson
Receiving Lab: Canada-Whitehorse
Received: August 22, 2011
Report Date: November 20, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11001202.1

CLIENT JOB INFORMATION

Project: Montana
Shipment ID: 2011081844337
P.O. Number
Number of Samples: 241

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: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Greg Davidson
Mark Fekete

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	241	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	241	Dry at 60C			WHI
1DX2	241	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: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

WHI11001202.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
115690	Soil	0.8	13.7	8.3	63	<0.1	16.8	8.1	321	3.18	8.8	0.9	2.4	6.6	12	<0.1	0.5	0.2	59	0.12	0.032
115691	Soil	1.1	18.4	2.7	69	<0.1	5.3	8.1	571	3.70	3.9	1.8	1.0	8.5	8	<0.1	0.8	0.1	52	0.11	0.031
115692	Soil	0.2	17.5	2.3	38	<0.1	11.0	14.8	274	2.36	2.5	0.4	0.5	3.8	8	<0.1	0.1	<0.1	73	0.24	0.045
115693	Soil	0.8	26.2	5.4	58	<0.1	16.3	11.0	300	3.35	7.6	0.9	1.0	4.3	20	<0.1	0.6	0.1	92	0.18	0.034
115694	Soil	0.3	21.5	1.9	51	<0.1	10.3	14.3	319	3.30	2.9	0.4	1.2	2.9	15	<0.1	0.2	<0.1	99	0.33	0.038
115695	Soil	0.6	39.3	2.2	40	<0.1	7.8	19.9	307	3.63	3.3	0.5	<0.5	3.5	22	<0.1	0.2	<0.1	184	0.36	0.027
115696	Soil	0.8	16.3	6.3	63	<0.1	17.6	11.3	725	3.40	5.2	0.6	0.9	3.5	20	0.1	0.5	0.1	78	0.29	0.031
115697	Soil	1.0	17.4	7.7	69	<0.1	20.0	10.6	363	3.85	5.8	0.6	0.8	5.7	15	<0.1	0.4	0.1	91	0.23	0.029
115698	Soil	0.4	27.4	2.6	40	<0.1	13.1	14.2	310	3.02	4.4	0.5	<0.5	2.4	9	<0.1	0.2	<0.1	86	0.47	0.111
115699	Soil	0.7	17.4	5.0	42	<0.1	11.5	11.0	418	2.88	3.5	0.6	0.6	3.5	11	<0.1	0.4	<0.1	72	0.20	0.052
115700	Soil	0.9	25.6	5.9	103	<0.1	14.4	13.8	2349	5.18	1.2	1.2	3.5	3.9	24	0.3	0.2	0.2	90	0.48	0.067
115701	Soil	1.3	11.0	5.9	49	<0.1	11.5	7.7	286	3.21	6.4	0.7	2.3	4.6	15	<0.1	0.5	0.1	73	0.20	0.025
115702	Soil	0.8	16.9	4.3	77	<0.1	10.0	10.8	525	4.19	3.3	1.5	<0.5	9.1	17	<0.1	0.5	<0.1	76	0.33	0.046
115703	Soil	0.7	15.4	6.5	47	<0.1	14.6	8.6	298	2.78	5.6	0.6	1.3	4.1	19	<0.1	0.4	0.1	62	0.28	0.023
115704	Soil	0.6	14.6	2.8	93	<0.1	8.5	15.2	667	5.42	2.7	1.0	1.0	5.0	16	<0.1	0.2	<0.1	94	0.36	0.089
115705	Soil	0.6	27.5	5.5	68	<0.1	27.3	14.8	418	4.24	5.7	0.8	2.8	4.0	27	<0.1	0.6	<0.1	90	0.46	0.043
115706	Soil	0.7	27.4	7.3	50	<0.1	16.8	9.4	370	2.72	7.1	1.1	3.4	4.4	30	<0.1	0.4	0.1	59	0.42	0.056
115707	Soil	1.0	18.7	3.8	76	<0.1	11.7	15.6	699	4.67	3.6	0.7	1.7	3.5	17	<0.1	0.3	<0.1	79	0.38	0.090
145613	Soil	0.5	18.1	5.2	46	0.1	9.8	7.9	348	2.66	3.0	1.7	1.6	3.2	29	<0.1	0.2	<0.1	60	0.45	0.069
145614	Soil	0.9	14.8	7.6	53	<0.1	17.2	11.8	570	3.15	6.0	0.6	0.8	3.2	33	<0.1	0.5	0.1	74	0.30	0.019
145615	Soil	0.8	32.6	5.8	65	<0.1	15.1	11.6	307	4.19	6.0	0.5	1.1	3.1	16	<0.1	0.4	<0.1	96	0.48	0.054
145616	Soil	0.9	12.5	6.1	46	<0.1	14.5	11.9	1478	2.81	2.9	0.3	0.9	2.8	22	<0.1	0.3	0.1	62	0.32	0.046
145617	Soil	1.1	17.6	8.0	64	<0.1	12.0	9.2	612	3.09	3.5	0.6	0.9	3.5	28	<0.1	0.3	0.2	48	0.36	0.046
145618	Soil	0.9	10.7	6.3	62	<0.1	11.8	7.3	390	3.47	4.8	0.8	1.5	6.9	14	<0.1	0.3	0.1	63	0.18	0.038
145619	Soil	0.9	15.9	8.5	63	<0.1	18.8	10.4	390	3.26	7.9	0.6	1.1	6.0	12	<0.1	0.5	0.2	70	0.15	0.041
145620	Soil	1.8	38.5	8.2	74	0.1	9.7	8.2	369	3.54	4.3	1.0	7.1	9.2	13	0.1	0.3	0.3	58	0.15	0.040
145621	Soil	0.8	11.0	7.7	48	<0.1	17.1	8.2	320	2.44	6.1	0.4	0.7	3.9	16	<0.1	0.5	0.1	51	0.18	0.028
145622	Soil	0.9	22.1	4.9	49	<0.1	15.0	10.6	253	3.01	3.3	0.4	1.3	2.5	15	<0.1	0.3	<0.1	69	0.25	0.030
145623	Soil	0.5	39.5	3.5	44	<0.1	18.0	11.8	211	2.49	2.5	0.4	<0.5	2.0	12	<0.1	0.3	<0.1	65	0.28	0.033
145624	Soil	0.7	11.2	5.5	56	<0.1	13.2	10.6	345	2.94	5.8	0.3	3.2	2.2	16	0.1	0.4	<0.1	69	0.28	0.032

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 Report Date: November 20, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
115690	Soil	15	27	0.63	153	0.108	1	2.01	0.011	0.32	0.1	0.02	4.5	0.1	<0.05	7	0.8	<0.2
115691	Soil	24	8	0.66	161	0.184	<1	1.67	0.006	1.00	0.1	0.07	12.0	0.4	<0.05	9	<0.5	<0.2
115692	Soil	4	77	1.18	183	0.157	<1	1.66	0.011	0.73	<0.1	<0.01	3.7	0.3	<0.05	5	<0.5	<0.2
115693	Soil	14	24	0.78	269	0.137	<1	1.86	0.013	0.39	<0.1	0.03	7.8	0.2	<0.05	6	<0.5	<0.2
115694	Soil	10	18	1.69	367	0.191	<1	2.20	0.018	0.73	<0.1	0.02	7.4	0.3	<0.05	7	<0.5	<0.2
115695	Soil	7	16	1.22	279	0.128	<1	2.41	0.026	0.46	<0.1	0.01	7.5	0.2	<0.05	7	<0.5	<0.2
115696	Soil	14	29	0.72	365	0.114	<1	1.88	0.012	0.32	<0.1	0.02	8.3	0.1	<0.05	7	0.6	<0.2
115697	Soil	15	34	0.83	297	0.153	<1	2.25	0.013	0.58	<0.1	0.02	10.4	0.2	<0.05	9	<0.5	<0.2
115698	Soil	7	27	0.82	145	0.078	<1	1.44	0.031	0.30	<0.1	<0.01	5.9	0.1	<0.05	5	<0.5	<0.2
115699	Soil	11	22	0.72	177	0.092	<1	1.48	0.011	0.25	<0.1	0.01	6.1	<0.1	<0.05	6	<0.5	<0.2
115700	Soil	14	22	0.64	367	0.005	<1	1.92	0.009	0.03	<0.1	0.08	16.3	<0.1	<0.05	8	<0.5	<0.2
115701	Soil	16	22	0.58	163	0.115	<1	1.72	0.008	0.29	<0.1	0.02	5.9	0.2	<0.05	7	<0.5	<0.2
115702	Soil	29	22	0.86	228	0.153	<1	2.05	0.009	0.65	<0.1	0.07	9.0	0.3	<0.05	9	<0.5	<0.2
115703	Soil	13	28	0.61	227	0.094	<1	1.48	0.011	0.19	<0.1	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
115704	Soil	14	17	1.22	386	0.270	<1	2.57	0.016	1.36	<0.1	0.02	11.5	0.3	<0.05	10	<0.5	<0.2
115705	Soil	16	36	1.16	238	0.063	<1	2.11	0.012	0.10	<0.1	0.04	10.2	<0.1	<0.05	7	<0.5	<0.2
115706	Soil	16	26	0.68	379	0.094	<1	1.52	0.018	0.11	0.1	0.04	6.3	<0.1	<0.05	5	0.7	<0.2
115707	Soil	9	21	1.06	230	0.098	<1	2.35	0.014	0.36	<0.1	0.02	7.8	0.1	<0.05	10	0.6	<0.2
145613	Soil	19	21	0.72	268	0.083	<1	1.62	0.017	0.21	0.1	0.11	8.5	0.1	<0.05	6	0.6	<0.2
145614	Soil	8	31	0.61	338	0.048	<1	1.82	0.012	0.10	<0.1	0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
145615	Soil	6	24	0.65	186	0.106	<1	1.94	0.036	0.38	<0.1	0.02	8.2	0.1	<0.05	7	0.8	<0.2
145616	Soil	8	25	0.51	415	0.091	<1	1.66	0.016	0.23	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
145617	Soil	13	18	0.63	584	0.124	1	1.82	0.009	0.44	<0.1	0.02	6.5	0.1	<0.05	8	<0.5	<0.2
145618	Soil	23	18	0.67	260	0.174	<1	1.88	0.007	0.52	<0.1	<0.01	6.8	0.2	<0.05	8	<0.5	<0.2
145619	Soil	12	32	0.61	204	0.110	1	2.18	0.009	0.25	<0.1	0.01	5.3	0.1	<0.05	7	<0.5	<0.2
145620	Soil	21	16	0.68	189	0.157	<1	1.99	0.009	0.62	0.1	0.02	6.4	0.2	<0.05	8	<0.5	<0.2
145621	Soil	11	27	0.48	182	0.076	<1	1.40	0.009	0.27	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
145622	Soil	7	23	0.62	335	0.112	<1	1.84	0.015	0.11	<0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
145623	Soil	7	31	0.53	248	0.075	<1	1.34	0.019	0.17	<0.1	<0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
145624	Soil	6	22	0.83	287	0.118	<1	1.91	0.013	0.38	<0.1	0.01	4.0	0.1	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
145625	Soil	0.6	25.2	3.9	44	<0.1	7.8	11.2	504	2.88	2.5	0.4	0.6	1.7	31	<0.1	0.2	<0.1	66	0.45	0.041
145626	Soil	0.5	29.7	4.1	45	<0.1	16.6	13.3	299	3.17	3.0	1.0	1.6	2.7	36	<0.1	0.4	<0.1	92	0.54	0.044
145627	Soil	0.7	15.1	7.7	37	<0.1	13.7	7.5	196	2.37	5.4	0.4	4.6	2.4	20	<0.1	0.4	0.1	60	0.27	0.024
145628	Soil	0.7	22.9	5.6	42	<0.1	12.4	8.7	274	2.47	4.5	0.3	0.8	2.0	21	<0.1	0.4	<0.1	60	0.31	0.032
145629	Soil	0.7	25.0	4.5	41	<0.1	10.8	10.0	281	2.56	3.6	0.3	<0.5	1.9	30	<0.1	0.3	<0.1	65	0.44	0.038
145630	Soil	0.6	32.3	5.0	53	<0.1	17.6	14.5	339	3.65	6.0	0.4	<0.5	2.8	22	<0.1	0.5	<0.1	100	0.44	0.025
133001	Soil	0.8	10.8	6.3	65	<0.1	9.0	7.7	574	3.49	3.2	0.8	1.7	8.3	12	<0.1	0.3	0.1	44	0.23	0.031
133002	Soil	0.8	6.5	7.2	68	<0.1	7.4	6.0	415	2.48	3.4	0.6	0.7	7.0	10	<0.1	0.2	0.1	31	0.15	0.025
133003	Soil	0.7	10.8	6.9	78	<0.1	11.6	8.9	469	2.97	6.3	0.7	1.5	6.1	10	<0.1	0.3	<0.1	38	0.12	0.023
133004	Soil	0.6	48.0	1.7	19	<0.1	11.3	8.5	101	1.54	2.5	0.1	1.3	0.6	9	<0.1	0.1	<0.1	44	0.25	0.026
133005	Soil	8.0	13.0	3.0	62	<0.1	3.6	5.9	482	3.23	1.9	2.9	0.7	6.3	8	<0.1	0.2	<0.1	35	0.16	0.041
133006	Soil	1.0	22.7	5.2	47	<0.1	9.9	8.8	329	2.88	3.1	1.2	1.5	5.5	13	<0.1	0.3	<0.1	49	0.24	0.023
133007	Soil	1.2	37.8	6.6	55	<0.1	17.4	15.0	1280	3.44	4.7	1.7	1.7	10.0	17	<0.1	0.3	<0.1	58	0.33	0.052
133008	Soil	0.6	25.2	2.6	47	<0.1	15.5	11.4	376	3.03	2.5	0.8	1.8	3.0	15	<0.1	0.2	<0.1	77	0.33	0.033
133009	Soil	0.9	30.7	10.0	72	<0.1	10.4	7.8	471	2.95	4.1	0.8	1.3	6.1	11	<0.1	0.3	0.1	48	0.18	0.029
133010	Soil	0.6	11.7	5.5	78	<0.1	9.9	8.5	592	3.25	4.4	1.1	1.0	7.3	11	<0.1	0.3	<0.1	45	0.18	0.045
133011	Soil	0.5	48.7	4.6	28	<0.1	18.0	12.5	255	2.25	5.0	0.5	1.0	2.0	32	<0.1	0.3	<0.1	65	0.33	0.022
133012	Soil	0.9	16.1	8.2	58	<0.1	19.6	10.5	596	2.65	5.2	0.5	0.8	3.2	21	<0.1	0.4	0.1	54	0.27	0.034
133013	Soil	0.7	27.2	5.7	42	<0.1	15.5	9.3	266	2.48	5.2	0.6	<0.5	2.1	13	<0.1	0.3	<0.1	63	0.34	0.040
133014	Soil	0.6	13.0	3.0	82	<0.1	12.0	16.9	498	4.86	2.9	0.7	<0.5	3.5	13	<0.1	0.1	<0.1	92	0.28	0.044
133015	Soil	0.8	28.9	9.1	61	<0.1	26.8	19.8	370	3.95	30.2	1.0	1.4	3.3	25	<0.1	0.5	<0.1	99	0.47	0.036
133016	Soil	0.8	15.8	6.9	59	<0.1	16.4	9.1	351	2.85	5.5	0.5	6.0	3.4	17	<0.1	0.4	0.1	57	0.27	0.025
133017	Soil	0.6	12.3	7.1	46	<0.1	15.3	6.5	267	2.27	5.3	0.4	<0.5	4.0	12	<0.1	0.3	<0.1	41	0.13	0.012
133018	Soil	0.7	20.2	5.2	46	<0.1	13.2	10.2	638	2.75	6.9	0.9	2.8	2.9	27	0.1	0.4	<0.1	50	0.42	0.058
133019	Soil	0.6	29.0	5.7	70	<0.1	14.0	11.6	491	4.04	1.4	0.9	<0.5	4.9	12	<0.1	0.2	0.1	82	0.32	0.054
133020	Soil	0.7	19.4	8.8	44	<0.1	16.6	7.7	323	2.45	6.0	0.7	2.8	4.4	23	<0.1	0.4	0.1	55	0.31	0.016
133021	Soil	0.8	19.8	9.8	44	<0.1	16.9	9.9	360	2.67	7.5	1.8	2.3	4.9	19	<0.1	0.4	0.2	57	0.25	0.024
110813	Soil	0.2	28.6	16.2	71	0.3	25.2	13.3	648	3.27	1.7	1.3	7.3	14.1	13	0.1	0.4	0.3	157	0.30	0.032
110814	Soil	0.2	26.4	15.5	77	0.2	29.1	16.7	790	4.91	1.0	1.2	4.0	10.9	19	0.1	0.3	0.3	53	0.26	0.012
110815	Soil	<0.1	20.1	12.6	63	0.1	22.3	13.5	758	4.00	<0.5	1.0	4.2	9.8	12	0.1	0.2	0.3	42	0.27	0.020

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
145625	Soil	5	19	0.91	359	0.104	<1	1.93	0.017	0.21	<0.1	0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
145626	Soil	15	32	0.88	271	0.052	<1	1.92	0.031	0.04	<0.1	0.03	10.5	<0.1	<0.05	6	<0.5	<0.2
145627	Soil	9	26	0.48	253	0.061	1	1.54	0.012	0.05	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
145628	Soil	6	34	0.53	248	0.071	<1	1.70	0.015	0.12	<0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
145629	Soil	5	33	0.61	305	0.084	<1	1.87	0.023	0.18	<0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
145630	Soil	8	34	0.96	221	0.117	<1	2.24	0.032	0.22	<0.1	0.02	8.3	<0.1	<0.05	7	<0.5	<0.2
133001	Soil	18	13	0.79	252	0.156	1	2.00	0.008	0.82	0.1	0.01	9.1	0.3	<0.05	8	<0.5	<0.2
133002	Soil	20	13	0.42	176	0.100	<1	1.56	0.007	0.47	<0.1	<0.01	5.1	0.3	<0.05	6	<0.5	<0.2
133003	Soil	8	18	0.57	235	0.144	1	1.92	0.007	0.53	0.1	<0.01	5.3	0.3	<0.05	7	<0.5	<0.2
133004	Soil	4	15	0.42	89	0.045	<1	0.84	0.018	0.02	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
133005	Soil	20	6	0.58	142	0.149	<1	1.52	0.005	0.55	<0.1	0.02	7.4	0.2	<0.05	8	<0.5	<0.2
133006	Soil	11	14	0.61	183	0.096	<1	1.50	0.010	0.33	<0.1	0.01	5.1	0.2	<0.05	6	<0.5	<0.2
133007	Soil	17	17	0.70	291	0.088	<1	1.55	0.011	0.41	<0.1	0.01	5.0	0.2	<0.05	6	<0.5	<0.2
133008	Soil	7	20	0.71	224	0.100	<1	1.49	0.018	0.29	<0.1	0.01	6.9	0.1	<0.05	5	<0.5	<0.2
133009	Soil	12	16	0.54	174	0.136	<1	1.66	0.007	0.61	<0.1	0.01	6.3	0.3	<0.05	7	<0.5	<0.2
133010	Soil	12	15	0.60	165	0.153	<1	1.80	0.007	0.77	<0.1	<0.01	5.4	0.3	<0.05	8	<0.5	<0.2
133011	Soil	7	24	0.48	261	0.050	<1	1.32	0.015	0.05	<0.1	0.02	6.3	<0.1	<0.05	4	<0.5	<0.2
133012	Soil	15	27	0.42	300	0.070	<1	1.51	0.009	0.17	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
133013	Soil	8	23	0.47	198	0.079	<1	1.34	0.021	0.14	<0.1	0.01	5.1	<0.1	<0.05	4	<0.5	<0.2
133014	Soil	9	34	1.26	410	0.268	<1	2.58	0.017	1.08	<0.1	<0.01	8.5	0.3	<0.05	10	<0.5	<0.2
133015	Soil	21	60	0.58	199	0.011	<1	2.17	0.013	0.10	<0.1	0.03	12.2	0.4	<0.05	7	<0.5	<0.2
133016	Soil	10	36	0.57	191	0.103	<1	1.69	0.009	0.34	0.1	0.02	4.9	0.1	<0.05	6	<0.5	<0.2
133017	Soil	15	21	0.42	160	0.087	<1	1.41	0.008	0.17	<0.1	<0.01	4.4	0.1	<0.05	5	<0.5	<0.2
133018	Soil	16	20	0.48	257	0.074	<1	1.21	0.017	0.11	0.2	0.05	4.4	<0.1	<0.05	4	<0.5	<0.2
133019	Soil	24	13	0.90	268	0.201	<1	2.02	0.013	0.78	<0.1	0.03	10.9	0.3	<0.05	10	<0.5	<0.2
133020	Soil	17	27	0.45	246	0.089	<1	1.59	0.020	0.12	0.1	0.02	4.5	0.1	<0.05	5	<0.5	<0.2
133021	Soil	18	30	0.48	258	0.074	<1	1.66	0.015	0.10	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
110813	Soil	30	45	0.60	165	0.044	<1	1.46	0.006	0.36	<0.1	0.05	7.3	0.3	<0.05	8	<0.5	<0.2
110814	Soil	14	56	0.77	206	0.078	<1	1.91	0.008	0.47	<0.1	0.03	8.2	0.3	<0.05	11	<0.5	<0.2
110815	Soil	14	46	0.60	145	0.062	<1	1.43	0.006	0.45	<0.1	0.02	6.4	0.3	<0.05	9	<0.5	<0.2

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Project: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

WHI11001202.1

Method	Analyte	Unit	MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
110816	Soil			0.2	27.2	13.6	72	<0.1	26.4	17.3	549	5.75	1.9	1.4	6.8	14.0	24	0.1	0.3	0.3	72	0.38	0.057
110817	Soil			0.2	27.4	13.5	55	<0.1	24.6	12.8	406	4.58	8.8	1.7	9.0	13.8	18	<0.1	0.7	0.2	45	0.25	0.034
110818	Soil			0.4	30.2	12.0	65	<0.1	26.6	11.8	484	4.50	2.5	1.5	13.9	15.2	17	<0.1	0.4	0.3	49	0.26	0.025
110819	Soil			0.3	26.0	16.3	61	<0.1	23.8	11.8	456	3.64	2.6	1.6	6.6	12.0	15	<0.1	0.4	0.3	46	0.25	0.030
110820	Soil			0.5	28.7	13.2	64	0.1	30.5	16.8	911	4.11	2.4	1.6	6.9	12.4	18	<0.1	0.4	0.3	59	0.49	0.049
110821	Soil			0.8	30.4	12.0	56	0.1	27.2	11.9	413	3.29	7.1	1.9	4.3	8.1	26	<0.1	0.6	0.2	53	0.46	0.036
110822	Soil			0.5	27.9	13.7	74	0.1	23.9	12.1	414	3.05	7.3	1.1	6.2	9.0	13	<0.1	0.7	0.2	67	0.36	0.016
110823	Soil			0.2	43.9	18.7	87	0.1	44.0	18.6	785	4.83	1.3	1.2	7.9	12.7	22	0.2	0.4	0.3	96	0.62	0.051
110824	Soil			0.4	31.9	15.2	65	<0.1	28.0	11.7	319	3.14	2.6	1.1	10.8	9.6	27	<0.1	0.4	0.3	61	0.60	0.025
110825	Soil			0.5	31.7	13.6	76	0.1	28.6	12.2	349	3.30	4.0	1.0	59.7	7.8	23	<0.1	0.4	0.2	79	0.47	0.020
110826	Soil			0.8	41.1	13.1	63	0.2	27.3	9.3	347	2.81	6.5	3.3	4.6	5.5	36	<0.1	0.6	0.3	58	0.71	0.035
110827	Soil			1.2	39.4	22.0	64	0.3	26.7	11.7	732	3.04	5.8	3.7	4.4	9.5	53	0.2	0.7	0.4	50	0.68	0.054
110828	Soil			1.8	30.8	13.0	52	0.3	23.7	25.6	3976	3.18	9.3	3.5	3.2	2.1	47	0.7	0.6	0.3	43	0.56	0.096
110829	Soil			0.8	28.0	15.7	55	0.2	19.3	8.0	308	2.66	8.3	3.2	3.2	6.0	29	0.2	0.5	0.3	46	0.36	0.033
110830	Soil			1.0	23.8	11.7	53	<0.1	18.5	8.0	318	2.61	7.4	2.5	2.1	5.5	21	<0.1	0.5	0.2	49	0.29	0.025
110831	Soil			1.3	13.7	11.5	54	<0.1	12.2	6.6	183	1.96	6.1	1.0	1.6	2.9	23	0.2	0.4	0.3	45	0.16	0.022
110832	Soil			0.7	18.1	11.4	47	<0.1	17.2	6.8	212	2.27	8.0	0.9	<0.5	4.8	18	<0.1	0.6	0.2	46	0.22	0.019
110833	Soil			0.9	26.8	15.4	46	0.1	18.1	8.4	303	2.43	7.5	2.3	4.2	5.1	32	0.1	0.4	0.3	46	0.46	0.034
110834	Soil			1.6	32.6	23.7	56	0.2	22.9	13.1	919	3.43	12.7	3.1	3.4	11.7	50	0.2	0.6	0.4	48	0.46	0.053
110835	Soil			1.9	40.0	27.4	70	0.5	25.7	11.0	672	3.57	8.7	4.0	5.7	13.5	69	0.3	0.9	0.6	42	0.66	0.067
110836	Soil			1.1	41.7	18.1	63	0.2	34.8	13.9	687	3.13	7.8	3.1	2.7	8.0	58	0.3	0.7	0.3	62	1.01	0.051
110837	Soil			0.5	34.3	12.0	64	0.1	31.4	12.7	469	3.26	7.3	2.0	2.8	6.3	34	0.1	0.5	0.2	69	0.79	0.030
110839	Soil			0.6	33.2	13.7	66	0.1	28.0	13.4	435	3.35	7.1	2.8	10.2	10.0	26	<0.1	0.5	0.2	83	0.60	0.023
110840	Soil			0.6	34.4	13.1	69	0.1	29.2	14.1	477	3.64	7.6	2.7	6.7	9.8	24	<0.1	0.5	0.3	86	0.54	0.026
110841	Soil			0.4	29.6	14.1	61	<0.1	25.0	11.6	380	3.04	4.1	2.4	4.8	8.4	38	<0.1	0.5	0.2	67	1.00	0.030
110842	Soil			0.7	31.2	12.3	58	0.1	28.8	13.6	523	3.36	7.0	2.9	7.6	7.0	39	<0.1	0.5	0.2	61	0.73	0.037
110843	Soil			1.2	33.4	16.2	64	<0.1	31.7	13.4	510	3.51	6.7	2.0	5.5	8.3	31	0.1	0.5	0.2	59	0.51	0.031
110844	Soil			0.8	34.0	15.1	66	<0.1	30.1	13.3	539	3.86	6.3	2.0	1.3	9.6	31	<0.1	0.5	0.2	68	0.51	0.028
110845	Soil			1.0	34.6	16.4	76	<0.1	35.3	14.8	496	4.05	3.1	1.7	2.7	11.6	29	0.1	0.4	0.3	69	0.41	0.024
115708	Soil			0.8	16.1	4.3	69	<0.1	11.9	12.0	476	4.14	4.7	1.0	<0.5	6.7	13	<0.1	0.3	<0.1	72	0.18	0.030

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Project: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

WHI11001202.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
110816	Soil	23	61	0.93	258	0.058	<1	2.53	0.009	0.38	<0.1	0.03	9.4	0.4	<0.05	11	<0.5	<0.2
110817	Soil	23	48	0.78	164	0.075	<1	2.06	0.008	0.37	<0.1	0.03	6.9	0.3	<0.05	9	<0.5	<0.2
110818	Soil	22	63	0.77	225	0.054	<1	1.90	0.006	0.31	<0.1	0.04	8.9	0.4	<0.05	9	<0.5	<0.2
110819	Soil	16	55	0.61	208	0.051	<1	1.58	0.006	0.38	<0.1	0.02	7.7	0.3	<0.05	8	<0.5	<0.2
110820	Soil	22	81	0.66	193	0.028	<1	1.89	0.007	0.34	<0.1	0.03	10.4	0.3	<0.05	8	<0.5	<0.2
110821	Soil	22	46	0.58	293	0.060	1	1.64	0.016	0.13	<0.1	0.04	6.5	0.2	<0.05	6	<0.5	<0.2
110822	Soil	29	45	0.59	214	0.065	<1	1.58	0.006	0.31	<0.1	0.04	7.0	0.3	<0.05	8	<0.5	<0.2
110823	Soil	31	127	1.41	271	0.058	<1	2.81	0.009	0.43	<0.1	0.02	11.3	0.3	<0.05	10	<0.5	<0.2
110824	Soil	27	68	0.84	244	0.054	<1	2.28	0.010	0.30	<0.1	0.02	7.2	0.3	<0.05	8	<0.5	<0.2
110825	Soil	18	80	0.81	244	0.056	<1	2.14	0.010	0.35	<0.1	0.03	7.7	0.3	<0.05	8	<0.5	<0.2
110826	Soil	19	42	0.55	340	0.069	2	1.55	0.012	0.17	<0.1	0.06	6.2	0.2	<0.05	6	<0.5	<0.2
110827	Soil	26	33	0.41	315	0.053	2	1.26	0.009	0.15	<0.1	0.10	5.5	0.3	<0.05	5	0.7	<0.2
110828	Soil	23	25	0.17	479	0.010	2	1.00	0.006	0.05	<0.1	0.15	4.2	0.2	0.08	5	1.5	<0.2
110829	Soil	16	27	0.30	232	0.022	2	1.05	0.008	0.07	<0.1	0.08	5.9	0.1	<0.05	5	0.9	<0.2
110830	Soil	16	27	0.40	255	0.030	2	1.25	0.008	0.06	<0.1	0.05	6.1	0.1	<0.05	4	<0.5	<0.2
110831	Soil	11	18	0.17	216	0.016	<1	0.89	0.005	0.05	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
110832	Soil	11	27	0.43	166	0.046	<1	1.28	0.007	0.06	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
110833	Soil	15	26	0.29	253	0.019	2	1.09	0.008	0.06	<0.1	0.08	5.9	0.1	<0.05	5	0.8	<0.2
110834	Soil	27	28	0.30	280	0.024	1	1.13	0.007	0.08	<0.1	0.10	6.6	0.2	<0.05	6	1.4	<0.2
110835	Soil	33	27	0.31	316	0.023	2	1.12	0.008	0.09	<0.1	0.15	5.9	0.2	<0.05	5	0.9	<0.2
110836	Soil	21	41	0.52	363	0.055	2	1.54	0.011	0.14	<0.1	0.08	5.9	0.2	0.05	6	1.1	<0.2
110837	Soil	18	57	0.70	316	0.058	1	1.95	0.018	0.14	0.1	0.04	6.4	0.1	<0.05	7	0.9	<0.2
110839	Soil	26	66	0.76	280	0.037	<1	2.00	0.011	0.27	<0.1	0.03	7.4	0.2	<0.05	8	<0.5	<0.2
110840	Soil	25	75	0.88	289	0.044	<1	2.10	0.011	0.29	<0.1	0.04	8.0	0.2	<0.05	8	0.6	<0.2
110841	Soil	24	52	0.68	259	0.049	1	1.88	0.010	0.24	<0.1	0.03	6.2	0.2	0.05	7	0.5	<0.2
110842	Soil	21	48	0.67	334	0.054	<1	1.82	0.014	0.11	0.1	0.05	6.5	0.1	<0.05	7	<0.5	<0.2
110843	Soil	21	56	0.70	309	0.063	<1	1.85	0.013	0.19	<0.1	0.04	7.1	0.1	<0.05	7	0.9	<0.2
110844	Soil	17	72	0.77	303	0.072	1	2.10	0.011	0.20	<0.1	0.04	8.8	0.2	0.05	9	0.6	<0.2
110845	Soil	17	81	0.89	219	0.059	<1	2.19	0.009	0.38	<0.1	0.03	9.0	0.2	<0.05	10	<0.5	<0.2
115708	Soil	16	25	0.86	259	0.188	<1	2.01	0.008	0.84	<0.1	<0.01	7.4	0.2	<0.05	8	<0.5	<0.2

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 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
115709	Soil	2.0	6.1	2.0	78	<0.1	7.1	22.1	500	4.19	2.3	0.7	<0.5	5.2	11	<0.1	0.2	<0.1	113	0.28	0.031
115710	Soil	0.8	29.2	4.0	66	<0.1	13.9	12.5	506	4.36	3.8	0.9	<0.5	7.0	11	<0.1	0.6	<0.1	99	0.15	0.037
115711	Soil	1.6	10.6	6.2	73	<0.1	11.3	11.2	587	4.60	7.7	1.5	<0.5	11.3	13	0.1	1.2	<0.1	84	0.19	0.041
115712	Soil	0.3	18.4	1.4	60	<0.1	5.2	13.2	440	4.24	1.4	0.6	<0.5	3.4	8	<0.1	0.2	<0.1	70	0.54	0.109
115713	Soil	0.5	26.5	3.8	48	<0.1	14.2	12.2	303	2.81	3.3	0.4	<0.5	2.4	13	<0.1	0.2	<0.1	71	0.38	0.062
115714	Soil	0.5	16.5	1.8	51	<0.1	5.9	14.5	399	3.66	2.3	0.6	0.8	4.2	10	<0.1	0.1	<0.1	106	0.39	0.067
115715	Soil	1.1	8.7	3.4	81	<0.1	7.7	8.3	564	3.88	4.4	1.0	<0.5	8.0	8	<0.1	0.4	<0.1	45	0.12	0.029
115716	Soil	1.5	30.3	10.1	72	0.1	32.3	10.8	295	4.11	11.8	0.8	<0.5	6.7	20	<0.1	0.7	0.2	91	0.24	0.034
115717	Soil	0.3	13.0	1.7	62	<0.1	5.9	13.3	380	3.32	2.8	0.4	<0.5	2.4	12	<0.1	0.2	<0.1	83	0.47	0.052
115718	Soil	0.2	32.0	1.4	33	<0.1	10.1	13.5	250	2.48	3.2	0.3	<0.5	1.8	8	<0.1	0.1	<0.1	79	0.30	0.037
115719	Soil	0.7	27.8	6.1	48	<0.1	20.8	8.6	301	2.84	8.3	0.7	6.5	4.0	25	<0.1	0.6	0.1	62	0.35	0.060
115720	Soil	1.0	13.4	5.3	72	<0.1	12.4	10.2	683	4.01	4.5	0.8	<0.5	7.3	10	<0.1	0.4	<0.1	70	0.14	0.036
101993	Soil	0.5	6.1	1.9	52	<0.1	3.7	4.5	352	2.47	1.9	0.7	<0.5	5.7	6	<0.1	<0.1	<0.1	22	0.08	0.017
101994	Soil	1.0	38.4	3.8	64	<0.1	19.8	22.6	1149	4.59	2.5	0.5	<0.5	3.1	29	0.1	0.2	<0.1	122	0.76	0.065
101995	Soil	0.8	29.5	7.8	55	<0.1	25.4	10.1	431	2.61	9.3	0.6	2.7	4.1	33	0.2	0.5	<0.1	57	0.54	0.075
101996	Soil	0.3	7.2	2.1	68	<0.1	3.8	5.8	499	3.13	1.2	0.8	<0.5	8.3	9	<0.1	<0.1	<0.1	27	0.16	0.020
101997	Soil	0.7	16.2	3.7	50	<0.1	10.9	7.6	324	2.84	3.1	1.6	0.5	11.8	11	<0.1	0.2	<0.1	54	0.16	0.017
101998	Soil	0.3	9.7	4.2	83	<0.1	3.9	6.0	477	2.77	1.0	0.7	<0.5	8.0	8	0.1	0.2	0.2	43	0.19	0.031
101999	Soil	0.5	50.7	2.3	38	<0.1	18.3	18.6	508	2.92	0.6	0.4	0.7	0.8	12	<0.1	0.2	<0.1	82	0.58	0.053
145631	Soil	0.9	17.9	7.5	44	<0.1	16.8	9.8	391	2.63	7.2	0.4	0.7	2.9	22	<0.1	0.5	0.1	56	0.35	0.027
145632	Soil	0.7	17.6	5.7	39	<0.1	13.3	7.3	244	2.49	5.6	0.3	2.8	2.5	19	<0.1	0.4	0.1	53	0.30	0.034
145633	Soil	0.7	20.4	5.9	55	<0.1	14.9	10.2	344	3.20	5.8	0.6	<0.5	3.9	16	<0.1	0.5	0.1	69	0.21	0.024
145634	Soil	0.8	23.9	4.8	50	<0.1	16.2	11.3	345	3.15	4.8	0.5	2.8	2.9	15	<0.1	0.3	<0.1	73	0.29	0.035
145635	Soil	0.7	39.4	4.5	53	<0.1	20.1	10.5	277	3.42	5.5	0.4	<0.5	1.7	16	<0.1	0.3	<0.1	70	0.33	0.051
145636	Soil	1.3	11.6	6.5	75	<0.1	9.0	10.1	671	3.73	4.1	1.5	<0.5	9.3	13	<0.1	0.5	0.2	52	0.16	0.039
145637	Soil	0.8	17.0	7.4	49	<0.1	18.4	7.5	264	2.63	8.0	0.6	4.2	4.6	17	<0.1	0.5	0.1	51	0.19	0.027
145638	Soil	1.5	28.0	8.6	81	<0.1	17.8	8.8	365	3.71	8.2	1.0	<0.5	6.8	16	<0.1	0.5	0.5	69	0.22	0.024
145639	Soil	0.8	31.1	7.2	61	<0.1	22.8	10.2	242	3.39	7.7	1.1	1.1	4.4	17	<0.1	0.6	0.1	82	0.25	0.026
145640	Soil	1.1	33.1	8.5	63	<0.1	25.5	12.7	575	2.99	7.3	0.6	2.7	5.2	27	0.1	0.7	0.1	62	0.39	0.025
145641	Soil	0.8	17.5	3.8	68	<0.1	12.7	10.2	456	3.66	3.0	0.7	1.0	4.2	17	<0.1	0.3	<0.1	76	0.41	0.052

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Project: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
115709	Soil	10	7	1.12	184	0.176	<1	2.08	0.017	0.82	<0.1	0.02	7.2	0.6	<0.05	9	<0.5	<0.2
115710	Soil	12	24	1.00	299	0.258	<1	2.38	0.009	1.07	0.1	0.02	6.9	0.4	<0.05	10	<0.5	<0.2
115711	Soil	25	18	0.83	228	0.223	<1	2.13	0.009	0.82	<0.1	0.05	9.5	0.2	<0.05	10	<0.5	<0.2
115712	Soil	11	10	0.81	136	0.084	<1	1.69	0.044	0.20	<0.1	0.01	9.3	0.1	<0.05	8	<0.5	<0.2
115713	Soil	7	32	0.82	144	0.073	<1	1.57	0.019	0.17	<0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
115714	Soil	10	12	1.15	245	0.168	<1	2.02	0.031	0.63	<0.1	<0.01	8.0	0.2	<0.05	7	<0.5	<0.2
115715	Soil	19	12	0.68	235	0.169	1	1.73	0.008	0.80	0.1	<0.01	11.1	0.2	<0.05	10	0.5	<0.2
115716	Soil	16	44	0.77	320	0.141	1	2.86	0.008	0.31	0.1	0.02	7.3	0.1	<0.05	8	0.5	<0.2
115717	Soil	10	11	1.10	120	0.091	<1	1.79	0.033	0.20	<0.1	<0.01	6.9	<0.1	<0.05	6	<0.5	<0.2
115718	Soil	6	18	0.94	155	0.118	<1	1.65	0.018	0.36	<0.1	0.01	5.7	0.1	<0.05	5	<0.5	<0.2
115719	Soil	15	29	0.62	213	0.081	<1	1.34	0.022	0.09	0.1	0.06	5.2	<0.1	<0.05	4	<0.5	<0.2
115720	Soil	19	18	0.76	212	0.195	<1	1.94	0.009	0.79	0.2	0.02	9.4	0.3	<0.05	9	<0.5	<0.2
101993	Soil	25	6	0.49	144	0.107	<1	1.30	0.006	0.65	<0.1	<0.01	6.0	0.2	<0.05	7	<0.5	<0.2
101994	Soil	13	35	1.18	383	0.070	<1	2.24	0.027	0.31	<0.1	0.02	12.1	0.1	<0.05	8	0.5	<0.2
101995	Soil	15	27	0.57	264	0.080	1	1.30	0.026	0.10	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
101996	Soil	27	5	1.00	158	0.136	<1	1.75	0.007	0.79	<0.1	<0.01	8.8	0.3	<0.05	10	<0.5	<0.2
101997	Soil	31	17	0.54	153	0.084	<1	1.45	0.006	0.39	<0.1	0.02	8.2	0.2	<0.05	7	<0.5	<0.2
101998	Soil	25	5	0.47	170	0.083	<1	1.09	0.006	0.32	<0.1	0.04	7.9	0.1	<0.05	6	<0.5	<0.2
101999	Soil	7	32	0.72	159	0.031	<1	1.28	0.018	0.11	<0.1	0.05	8.1	<0.1	<0.05	4	<0.5	<0.2
145631	Soil	8	29	0.43	248	0.070	1	1.47	0.012	0.11	0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
145632	Soil	8	24	0.55	227	0.083	<1	1.27	0.012	0.15	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
145633	Soil	9	26	0.59	298	0.106	<1	1.67	0.009	0.33	<0.1	0.04	5.8	0.1	<0.05	6	<0.5	<0.2
145634	Soil	10	27	0.76	300	0.113	<1	1.64	0.021	0.34	<0.1	0.02	5.8	0.1	<0.05	5	<0.5	<0.2
145635	Soil	5	32	0.76	263	0.117	1	1.58	0.016	0.39	<0.1	0.01	4.4	0.2	<0.05	5	<0.5	<0.2
145636	Soil	27	13	0.54	268	0.150	<1	1.68	0.006	0.50	<0.1	0.01	6.2	0.3	<0.05	7	<0.5	<0.2
145637	Soil	12	27	0.49	180	0.098	<1	1.40	0.008	0.22	0.1	0.02	4.2	0.1	<0.05	5	<0.5	<0.2
145638	Soil	18	25	0.66	290	0.170	<1	2.05	0.008	0.60	0.1	0.01	6.7	0.2	<0.05	8	<0.5	<0.2
145639	Soil	20	35	0.67	158	0.100	<1	1.75	0.011	0.13	0.1	0.03	9.5	<0.1	<0.05	6	<0.5	<0.2
145640	Soil	19	31	0.60	330	0.087	1	1.59	0.015	0.11	0.1	0.05	5.8	<0.1	<0.05	6	<0.5	<0.2
145641	Soil	18	21	0.86	213	0.107	<1	1.59	0.015	0.30	<0.1	0.02	10.2	0.1	<0.05	7	<0.5	<0.2

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Project: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	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
145642	Soil	0.5	24.8	3.9	41	<0.1	16.2	12.2	251	2.98	4.9	0.5	0.8	2.5	18	<0.1	0.4	<0.1	71	0.33	0.054
145643	Soil	0.7	16.8	4.4	43	<0.1	12.1	10.4	351	2.62	3.5	0.7	0.8	3.2	18	<0.1	0.2	<0.1	64	0.33	0.035
145644	Soil	0.8	14.8	7.0	50	<0.1	15.5	9.4	391	2.82	6.0	0.4	<0.5	3.4	13	<0.1	0.6	0.1	56	0.16	0.023
145645	Soil	0.8	9.5	7.0	48	<0.1	16.2	8.9	209	2.75	5.5	0.3	<0.5	2.4	14	<0.1	0.4	0.1	63	0.17	0.023
110846	Soil	0.4	27.9	13.3	72	<0.1	28.0	13.1	370	3.93	5.2	1.9	22.4	8.5	38	0.1	0.5	0.3	60	0.83	0.025
110847	Soil	0.4	27.3	15.3	72	<0.1	27.5	13.8	504	4.43	3.9	1.4	3.3	9.7	35	<0.1	0.4	0.3	58	0.46	0.028
110848	Soil	1.0	28.5	13.3	63	0.1	29.8	12.6	468	3.46	6.3	1.8	5.3	6.9	36	<0.1	0.5	0.2	50	0.56	0.036
110849	Soil	0.6	29.8	12.9	50	0.2	27.2	11.0	496	2.75	5.7	5.3	5.7	6.4	52	<0.1	0.6	0.2	61	1.18	0.039
110850	Soil	1.3	33.2	13.5	59	0.2	31.9	10.9	437	2.68	11.4	1.5	3.2	6.2	33	0.2	0.7	0.2	50	0.61	0.036
110851	Soil	0.8	33.8	12.4	51	0.1	29.7	9.6	377	2.49	6.9	7.7	2.8	4.4	60	0.2	0.6	0.2	44	1.16	0.049
110852	Soil	1.3	35.0	11.1	56	0.2	30.1	9.8	418	2.49	7.4	4.0	2.3	3.9	46	0.1	0.6	0.2	51	0.80	0.080
110853	Soil	1.2	35.6	14.2	87	0.2	31.3	10.2	368	2.76	9.0	1.9	2.6	5.3	35	0.2	0.6	0.2	50	0.62	0.058
110854	Soil	0.9	43.6	9.3	51	0.2	33.9	10.6	438	2.63	8.9	1.7	2.2	2.5	43	0.2	0.7	0.1	52	1.64	0.059
110855	Soil	1.1	34.4	12.2	75	0.2	30.9	10.3	453	2.68	11.1	0.6	4.2	3.8	39	0.2	0.9	0.2	48	1.82	0.058
110856	Soil	0.9	38.8	9.8	70	0.2	30.9	10.0	467	2.54	10.7	1.4	3.8	2.5	72	0.3	0.9	0.2	51	3.88	0.069
146400	Soil	0.8	35.9	8.9	51	0.1	26.6	12.0	598	2.44	9.9	1.4	1.7	2.6	41	0.4	0.8	0.2	45	0.79	0.086
146401	Soil	0.7	29.7	9.4	53	0.1	25.1	10.0	500	2.38	8.4	1.8	1.0	2.6	48	0.3	0.7	0.2	49	0.93	0.076
146402	Soil	1.1	36.7	12.2	70	0.2	31.2	11.6	465	2.68	16.0	2.0	3.0	4.7	39	0.3	0.9	0.2	48	0.74	0.054
146403	Soil	1.5	35.9	14.4	100	0.2	34.3	12.3	201	3.10	2.8	1.5	3.2	8.6	17	0.1	0.2	0.2	40	0.23	0.054
146404	Soil	1.0	25.5	12.4	84	0.2	23.6	8.8	286	2.58	7.6	1.2	1.9	6.7	21	0.1	0.6	0.2	38	0.35	0.069
146405	Soil	2.0	50.4	13.4	107	0.1	45.0	13.0	239	3.59	9.1	1.3	9.5	6.0	8	0.1	0.2	0.3	71	0.16	0.074
146406	Soil	1.3	41.5	13.7	115	0.2	37.9	11.6	335	3.13	6.6	1.4	4.3	6.8	15	0.1	0.2	0.3	64	0.26	0.073
146407	Soil	0.8	40.4	11.0	75	0.1	41.0	13.9	871	2.79	12.8	1.4	2.8	6.2	33	0.3	0.6	0.2	42	0.67	0.074
146408	Soil	1.1	40.8	21.3	88	<0.1	37.6	17.4	307	4.30	5.2	1.7	<0.5	13.4	10	<0.1	0.3	0.3	45	0.17	0.037
146409	Soil	1.8	58.4	20.0	128	<0.1	42.5	13.9	389	3.67	5.6	2.0	10.0	10.1	17	<0.1	0.3	0.3	71	0.13	0.081
146410	Soil	2.8	52.7	14.6	130	<0.1	51.5	13.8	296	3.62	2.6	1.3	2.2	9.9	5	<0.1	0.2	0.2	80	0.10	0.051
146411	Soil	0.9	32.6	8.6	58	<0.1	27.8	8.7	227	2.67	2.2	1.3	5.3	9.2	6	<0.1	<0.1	0.2	59	0.17	0.066
146412	Soil	1.7	26.7	65.2	48	0.4	18.5	6.1	128	2.39	2.5	0.9	3.5	6.2	10	<0.1	0.2	0.3	31	0.13	0.029
146413	Soil	0.8	37.4	12.7	67	<0.1	31.4	12.9	330	3.59	21.5	2.3	28.2	21.9	11	<0.1	0.5	0.8	64	0.17	0.038
146414	Soil	0.8	32.5	19.3	65	0.4	29.5	12.6	382	3.32	9.5	2.1	10.4	11.3	22	<0.1	0.6	0.3	73	0.51	0.034

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
145642	Soil	7	23	0.70	201	0.089	<1	1.43	0.018	0.17	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
145643	Soil	15	20	0.70	244	0.114	<1	1.39	0.014	0.24	0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
145644	Soil	9	25	0.51	248	0.078	<1	1.41	0.008	0.18	0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
145645	Soil	9	24	0.54	279	0.088	<1	1.45	0.007	0.22	<0.1	<0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
110846	Soil	13	69	0.78	214	0.058	1	2.07	0.011	0.33	<0.1	0.03	7.6	0.2	<0.05	9	0.7	<0.2
110847	Soil	15	68	0.75	197	0.063	1	2.00	0.010	0.42	<0.1	0.03	8.3	0.3	<0.05	10	<0.5	<0.2
110848	Soil	15	49	0.60	265	0.060	2	1.50	0.012	0.20	0.1	0.03	6.4	0.2	<0.05	7	0.6	<0.2
110849	Soil	20	37	0.52	322	0.038	2	1.39	0.011	0.10	<0.1	0.06	5.1	<0.1	0.07	6	1.0	<0.2
110850	Soil	19	39	0.52	278	0.056	1	1.46	0.013	0.13	0.1	0.04	5.1	0.1	<0.05	6	0.6	<0.2
110851	Soil	18	31	0.52	337	0.050	2	1.44	0.013	0.14	0.1	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
110852	Soil	16	32	0.48	364	0.081	1	1.43	0.016	0.12	0.2	0.03	3.6	0.1	<0.05	5	0.6	<0.2
110853	Soil	22	31	0.57	338	0.079	1	1.59	0.013	0.18	0.2	0.05	4.0	0.2	<0.05	5	1.0	<0.2
110854	Soil	14	31	0.53	500	0.055	2	1.36	0.014	0.05	0.2	0.04	3.9	<0.1	<0.05	4	1.2	<0.2
110855	Soil	15	27	0.62	412	0.058	2	1.31	0.019	0.06	0.1	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
110856	Soil	12	29	0.70	420	0.053	2	1.43	0.028	0.06	0.2	0.03	3.3	<0.1	0.06	4	<0.5	<0.2
146400	Soil	13	26	0.38	402	0.033	1	1.21	0.012	0.04	0.2	0.05	3.2	<0.1	<0.05	4	0.9	<0.2
146401	Soil	13	27	0.45	346	0.043	2	1.36	0.014	0.05	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
146402	Soil	17	30	0.52	409	0.053	2	1.35	0.016	0.09	0.2	0.05	4.7	<0.1	<0.05	5	0.6	<0.2
146403	Soil	28	31	0.57	138	0.060	<1	1.52	0.008	0.33	<0.1	0.01	2.7	0.3	<0.05	5	0.6	<0.2
146404	Soil	28	24	0.55	240	0.054	1	1.24	0.009	0.14	0.1	0.04	2.6	0.1	<0.05	4	0.6	<0.2
146405	Soil	18	44	0.74	200	0.142	<1	1.91	0.012	0.65	<0.1	0.02	3.0	0.4	<0.05	7	0.5	<0.2
146406	Soil	22	39	0.70	214	0.119	<1	1.63	0.011	0.60	<0.1	0.01	2.8	0.4	<0.05	6	<0.5	<0.2
146407	Soil	41	35	0.66	446	0.087	1	1.42	0.014	0.20	0.1	0.05	3.6	0.2	<0.05	5	<0.5	<0.2
146408	Soil	46	41	0.95	215	0.204	<1	2.64	0.009	0.86	<0.1	<0.01	3.9	0.6	<0.05	8	<0.5	<0.2
146409	Soil	30	45	0.69	164	0.099	1	2.00	0.007	0.47	<0.1	0.01	3.1	0.3	<0.05	7	0.7	<0.2
146410	Soil	38	49	0.88	204	0.188	<1	2.01	0.007	0.78	<0.1	0.01	4.5	0.6	<0.05	6	0.8	<0.2
146411	Soil	35	37	0.67	163	0.135	<1	1.58	0.008	0.43	<0.1	0.01	3.2	0.4	<0.05	5	<0.5	<0.2
146412	Soil	21	22	0.40	115	0.047	<1	1.03	0.006	0.22	<0.1	0.02	2.0	0.4	<0.05	7	0.5	<0.2
146413	Soil	34	50	0.52	159	0.061	<1	1.38	0.004	0.18	<0.1	0.03	10.6	0.3	<0.05	10	<0.5	<0.2
146414	Soil	28	56	0.63	295	0.062	<1	1.73	0.008	0.25	<0.1	0.06	8.4	0.2	<0.05	8	<0.5	<0.2

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Project: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

WHI11001202.1

Method Analyte Unit MDL	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	
146415	Soil	0.3	32.3	22.2	83	0.2	28.7	15.6	818	4.26	5.1	1.3	6.5	16.2	19	0.2	0.3	0.4	63	0.52	0.044
146416	Soil	0.6	29.1	8.2	87	<0.1	29.5	11.0	161	2.82	1.3	1.9	3.9	11.5	10	<0.1	0.1	0.2	47	0.20	0.050
146417	Soil	1.1	37.3	18.7	117	<0.1	51.8	13.1	250	3.75	13.6	1.3	11.0	7.3	10	<0.1	0.1	0.2	93	0.26	0.067
146418	Soil	0.9	39.1	11.1	101	<0.1	51.4	14.1	173	4.21	6.5	1.5	10.2	4.6	9	<0.1	0.2	0.3	95	0.25	0.075
146419	Soil	0.5	32.7	20.2	78	<0.1	33.8	14.8	466	3.74	4.5	1.5	6.3	19.5	16	<0.1	0.3	0.3	53	0.30	0.041
146420	Soil	1.2	29.5	12.5	67	<0.1	31.4	8.6	281	2.75	3.3	1.9	4.8	15.3	14	<0.1	0.2	0.2	61	0.34	0.063
146421	Soil	2.7	56.4	7.7	104	0.7	42.6	13.9	543	2.02	11.2	1.1	5.9	1.3	65	0.4	0.6	0.2	88	6.47	0.144
146422	Soil	2.9	59.5	11.5	142	0.7	48.0	11.7	229	3.64	9.2	1.1	2.4	5.5	10	0.4	0.6	0.3	83	0.11	0.056
146423	Soil	2.4	55.0	9.2	101	0.6	42.7	10.6	275	2.62	16.8	1.1	7.7	3.8	47	0.4	0.5	0.2	98	3.76	0.047
146424	Soil	1.3	43.2	7.8	66	0.2	31.7	10.2	300	2.21	9.4	1.1	5.4	2.4	116	0.3	0.7	0.2	54	7.79	0.044
146425	Soil	0.7	35.1	6.7	47	0.2	25.6	8.9	378	2.02	9.8	0.8	3.4	2.0	90	0.3	0.7	0.1	43	5.33	0.089
146426	Soil	1.1	38.9	14.5	79	0.1	35.9	14.2	320	3.19	9.0	1.8	3.5	10.5	20	<0.1	0.4	0.2	56	0.39	0.046
146427	Soil	1.1	44.5	9.8	62	0.2	33.3	9.9	171	2.75	5.3	7.1	3.8	5.7	42	<0.1	0.4	0.2	63	0.78	0.053
146428	Soil	1.1	39.2	9.9	92	0.1	34.0	10.0	235	3.06	3.4	1.5	3.2	8.6	23	<0.1	0.3	0.2	66	0.37	0.041
146429	Soil	0.7	33.9	12.6	69	0.2	27.9	11.6	365	3.33	10.6	1.0	22.6	10.0	23	0.1	0.6	0.2	72	0.41	0.038
146430	Soil	1.0	34.2	12.5	73	0.2	31.0	12.1	485	3.01	12.2	1.7	6.0	7.6	29	0.2	0.8	0.2	64	0.56	0.046
146431	Soil	0.8	37.4	14.1	72	0.2	30.1	11.4	368	3.02	12.6	1.0	6.5	7.8	27	0.2	0.8	0.2	75	0.49	0.046
146432	Soil	0.9	36.9	11.0	56	0.2	29.1	12.8	642	2.75	12.6	2.4	4.0	5.1	52	0.3	0.8	0.2	60	1.07	0.056
146433	Soil	0.7	33.3	10.3	53	0.2	26.9	12.2	516	2.72	8.7	2.2	3.5	5.5	41	0.2	0.7	0.2	64	0.89	0.060
146434	Soil	0.8	36.0	10.0	56	0.2	28.9	11.7	489	2.90	9.1	3.5	6.2	5.2	45	0.2	0.7	0.2	60	0.75	0.060
146435	Soil	0.6	34.5	10.4	59	0.1	28.7	12.1	458	2.84	9.1	2.2	9.1	5.2	52	0.2	0.7	0.2	61	0.87	0.055
146436	Soil	0.5	30.7	11.3	60	0.1	25.9	12.6	586	3.24	7.2	3.7	5.0	6.6	46	0.2	0.5	0.2	64	0.86	0.044
100649	Soil	0.3	24.7	1.5	55	<0.1	9.4	14.7	465	3.61	2.1	0.5	0.6	2.4	57	<0.1	0.2	<0.1	101	0.36	0.043
100650	Soil	0.6	31.8	4.0	59	<0.1	16.7	11.3	346	3.96	4.0	1.1	2.5	5.9	18	<0.1	0.4	<0.1	77	0.26	0.022
100651	Soil	0.6	28.0	5.6	49	<0.1	16.0	12.3	420	2.95	6.5	0.8	1.7	4.2	25	<0.1	0.4	0.1	72	0.42	0.054
100652	Soil	0.9	17.7	3.7	78	<0.1	14.0	10.7	579	4.15	3.8	1.1	1.3	6.9	14	<0.1	0.4	<0.1	65	0.17	0.027
100653	Soil	0.9	11.0	7.0	70	<0.1	9.1	9.7	580	3.76	5.2	1.3	0.6	8.0	14	0.2	1.3	0.1	52	0.21	0.079
100654	Soil	0.9	16.5	5.9	75	<0.1	11.8	10.7	423	3.74	5.6	1.5	0.9	13.9	16	<0.1	0.9	0.1	62	0.22	0.045
100655	Soil	0.6	43.5	2.7	66	<0.1	22.6	18.7	462	4.90	4.1	0.6	<0.5	1.9	22	<0.1	0.3	<0.1	151	0.47	0.060
100656	Soil	0.4	47.8	1.7	63	<0.1	18.7	15.1	480	4.00	1.7	0.6	1.5	1.6	19	0.1	0.3	<0.1	96	0.53	0.083

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Project: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

WHI11001202.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
146415	Soil	29	49	0.65	250	0.056	<1	1.68	0.007	0.41	<0.1	0.02	9.8	0.3	<0.05	9	<0.5	<0.2
146416	Soil	43	35	0.63	76	0.060	<1	1.42	0.006	0.22	<0.1	0.02	3.4	0.2	<0.05	5	<0.5	<0.2
146417	Soil	22	61	1.05	202	0.197	<1	2.27	0.010	0.79	<0.1	0.02	5.4	0.6	<0.05	8	0.5	<0.2
146418	Soil	15	58	1.11	247	0.213	<1	2.41	0.013	0.79	<0.1	0.02	5.5	0.6	<0.05	8	0.5	<0.2
146419	Soil	66	53	1.04	214	0.196	<1	2.35	0.009	0.73	0.1	0.01	6.1	0.6	<0.05	10	<0.5	<0.2
146420	Soil	54	42	0.56	190	0.078	<1	1.54	0.010	0.24	<0.1	0.02	4.9	0.3	<0.05	6	0.7	<0.2
146421	Soil	11	30	0.28	276	0.023	2	0.97	0.011	0.05	0.2	0.12	2.7	0.2	0.10	3	1.3	<0.2
146422	Soil	13	45	0.55	359	0.083	<1	1.97	0.007	0.23	0.1	0.01	3.2	0.3	<0.05	6	1.6	<0.2
146423	Soil	19	32	0.30	301	0.029	1	1.24	0.009	0.07	0.2	0.08	4.0	0.1	0.06	4	1.3	<0.2
146424	Soil	11	28	0.71	436	0.053	<1	1.26	0.024	0.07	0.2	0.04	3.0	0.1	0.10	4	0.8	<0.2
146425	Soil	11	24	0.67	434	0.049	2	0.89	0.021	0.06	0.2	0.05	2.7	<0.1	0.08	3	<0.5	<0.2
146426	Soil	33	42	0.78	323	0.124	<1	2.01	0.012	0.55	<0.1	0.02	4.4	0.4	<0.05	7	<0.5	<0.2
146427	Soil	25	37	0.60	208	0.117	<1	1.78	0.013	0.43	0.1	0.04	4.3	0.3	<0.05	5	1.4	<0.2
146428	Soil	34	43	0.66	224	0.105	<1	1.83	0.011	0.34	<0.1	0.02	3.9	0.3	<0.05	6	<0.5	<0.2
146429	Soil	25	53	0.64	253	0.071	<1	1.91	0.014	0.23	<0.1	0.04	7.6	0.2	<0.05	8	<0.5	<0.2
146430	Soil	23	42	0.54	351	0.064	<1	1.58	0.014	0.11	0.1	0.05	6.4	0.1	<0.05	6	0.5	<0.2
146431	Soil	23	42	0.58	335	0.065	<1	1.66	0.018	0.14	0.1	0.05	6.4	0.1	<0.05	6	<0.5	<0.2
146432	Soil	18	35	0.50	391	0.060	1	1.60	0.015	0.09	0.1	0.05	5.4	<0.1	<0.05	5	0.6	<0.2
146433	Soil	17	36	0.52	282	0.061	1	1.54	0.015	0.08	0.2	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
146434	Soil	16	39	0.54	322	0.066	1	1.53	0.017	0.09	0.1	0.06	5.4	<0.1	<0.05	5	0.7	<0.2
146435	Soil	16	39	0.58	345	0.073	2	1.66	0.018	0.10	0.2	0.04	5.3	<0.1	<0.05	5	0.6	<0.2
146436	Soil	15	51	0.63	242	0.067	3	1.75	0.018	0.16	0.1	0.04	6.0	0.1	0.07	7	0.6	<0.2
100649	Soil	8	23	1.29	357	0.181	<1	1.96	0.021	0.73	<0.1	0.01	8.4	0.2	<0.05	7	<0.5	<0.2
100650	Soil	25	23	0.76	287	0.137	<1	1.97	0.013	0.39	<0.1	0.05	13.2	0.2	<0.05	9	<0.5	<0.2
100651	Soil	14	30	0.68	226	0.094	<1	1.52	0.023	0.13	<0.1	0.05	6.6	<0.1	<0.05	5	<0.5	<0.2
100652	Soil	30	22	0.69	197	0.156	<1	1.94	0.010	0.61	<0.1	0.03	13.1	0.2	<0.05	9	<0.5	<0.2
100653	Soil	18	14	0.29	203	0.038	<1	1.33	0.007	0.23	<0.1	0.02	8.9	0.1	<0.05	7	<0.5	<0.2
100654	Soil	36	18	0.57	139	0.106	<1	1.86	0.008	0.52	<0.1	0.06	9.7	0.2	<0.05	8	<0.5	<0.2
100655	Soil	6	65	1.07	308	0.076	<1	2.35	0.019	0.29	<0.1	0.01	14.5	<0.1	<0.05	8	<0.5	<0.2
100656	Soil	10	38	0.89	238	0.081	<1	1.95	0.021	0.27	<0.1	0.04	10.5	0.1	<0.05	7	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
100657	Soil	0.6	10.5	1.7	63	<0.1	7.0	11.3	501	3.78	1.7	0.7	2.4	6.1	16	<0.1	0.3	<0.1	59	0.29	0.034
100658	Soil	0.6	30.2	3.9	73	<0.1	9.9	11.0	550	3.69	4.2	0.5	1.6	4.2	16	<0.1	0.4	0.1	66	0.31	0.053
100659	Soil	0.6	26.0	6.6	48	<0.1	18.6	9.3	378	2.83	7.7	0.7	3.7	4.4	21	<0.1	0.5	0.2	58	0.32	0.029
100660	Soil	0.7	26.7	4.8	44	<0.1	14.5	11.5	350	3.01	6.0	0.4	2.3	3.0	25	<0.1	0.5	0.1	72	0.37	0.021
100661	Soil	0.6	19.1	4.7	37	<0.1	11.5	9.4	282	2.42	5.3	0.3	2.7	2.5	21	<0.1	0.4	0.1	53	0.33	0.019
100662	Soil	0.8	20.2	5.1	38	<0.1	11.6	8.6	550	2.23	4.0	0.4	1.4	1.8	29	<0.1	0.3	0.1	54	0.46	0.026
100663	Soil	0.4	22.3	2.7	50	<0.1	8.0	9.7	230	3.09	3.9	0.5	0.8	2.8	37	<0.1	0.4	<0.1	60	0.51	0.075
100664	Soil	0.6	13.4	4.8	41	<0.1	14.3	8.9	213	2.77	6.1	0.6	1.7	3.1	18	<0.1	0.3	0.1	76	0.33	0.049
100665	Soil	0.5	13.0	1.4	60	<0.1	7.2	10.4	289	3.88	2.5	0.3	1.0	1.7	20	<0.1	0.2	<0.1	70	0.53	0.077
100666	Soil	0.7	26.5	8.2	54	0.1	18.2	9.5	315	2.56	7.7	1.3	2.2	3.3	36	0.1	0.6	0.2	50	0.60	0.059
100667	Soil	0.9	27.2	8.0	55	0.1	20.4	10.2	407	2.47	8.7	1.3	4.4	3.3	40	0.1	0.6	0.2	49	0.68	0.071
100668	Soil	0.7	28.6	8.6	59	0.1	20.2	8.7	352	2.40	8.7	0.7	2.8	3.2	32	0.2	0.6	0.2	45	0.56	0.059
100669	Soil	0.4	32.4	3.2	51	<0.1	8.7	15.5	404	3.39	2.9	0.6	2.1	1.7	40	<0.1	0.5	<0.1	67	0.62	0.069
100670	Soil	0.4	31.7	3.3	53	<0.1	9.8	14.4	616	3.76	3.8	0.6	4.4	1.9	34	<0.1	0.4	<0.1	79	0.61	0.040
100671	Soil	0.5	28.9	2.7	43	<0.1	6.1	12.4	301	3.29	4.7	0.3	0.6	1.6	15	<0.1	0.2	<0.1	80	0.33	0.039
100672	Soil	0.8	13.0	5.3	55	<0.1	11.2	10.3	461	3.03	6.0	0.4	1.3	2.1	18	<0.1	0.4	0.1	73	0.28	0.035
100673	Soil	0.5	19.9	4.7	68	<0.1	9.8	9.0	459	3.67	4.8	0.9	<0.5	9.6	15	<0.1	0.5	<0.1	42	0.24	0.032
100674	Soil	0.6	25.5	6.6	48	<0.1	19.7	7.6	272	2.55	8.9	0.5	3.0	4.0	21	<0.1	0.6	0.1	49	0.29	0.037
100675	Soil	0.6	20.9	5.0	64	<0.1	14.1	13.8	855	4.06	4.1	0.8	1.9	4.4	24	<0.1	0.4	<0.1	76	0.48	0.031
100676	Soil	0.8	39.0	5.2	58	<0.1	20.9	14.2	852	3.75	6.7	1.1	1.9	4.1	27	<0.1	0.5	0.1	87	0.39	0.036
100677	Soil	0.6	30.2	3.9	78	<0.1	11.3	13.0	614	4.34	3.9	1.5	2.2	8.4	17	<0.1	0.3	<0.1	72	0.22	0.024
100678	Soil	0.7	15.3	4.4	38	<0.1	10.3	8.4	371	2.88	5.7	0.7	1.3	3.0	28	<0.1	0.2	<0.1	48	0.38	0.059
100679	Soil	0.5	27.4	6.3	51	0.1	16.0	8.8	357	2.58	5.5	1.2	3.4	3.6	35	<0.1	0.4	0.1	56	0.50	0.060
100680	Soil	0.5	24.0	2.7	53	<0.1	12.7	18.3	631	3.70	3.5	0.6	1.6	3.5	26	<0.1	0.3	<0.1	104	0.62	0.050
131066	Soil	0.9	35.9	11.9	61	0.1	29.1	11.2	452	2.74	9.5	2.9	4.0	5.4	44	0.2	0.7	0.2	48	0.81	0.054
131067	Soil	0.7	35.3	10.9	62	0.2	28.1	11.1	476	2.71	9.2	1.5	7.9	5.3	42	0.3	0.8	0.2	50	0.71	0.053
131068	Soil	0.5	28.6	10.5	49	0.1	23.3	10.7	515	2.40	11.1	1.8	3.7	3.3	41	0.2	0.7	0.2	45	0.74	0.046
131069	Soil	0.5	36.2	10.5	53	0.2	29.1	11.2	480	2.64	12.0	1.7	6.5	4.7	43	0.3	0.8	0.2	49	0.80	0.049
131070	Soil	0.6	28.4	9.3	47	0.2	21.3	9.3	381	2.33	9.9	2.4	11.0	3.4	55	0.2	0.8	0.2	48	1.04	0.055
131071	Soil	0.6	33.3	10.7	59	0.2	28.1	11.8	555	2.81	9.7	2.7	4.3	4.9	54	0.3	0.8	0.2	47	0.87	0.050

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Project: Montana
 Report Date: November 20, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
100657	Soil	20	11	1.11	347	0.138	1	2.17	0.009	0.81	<0.1	0.06	6.0	0.2	<0.05	8	<0.5	<0.2
100658	Soil	6	15	0.78	219	0.091	<1	1.82	0.011	0.47	<0.1	0.05	6.0	0.1	<0.05	8	<0.5	<0.2
100659	Soil	15	27	0.60	270	0.081	1	1.60	0.013	0.19	<0.1	0.04	5.9	<0.1	<0.05	5	<0.5	<0.2
100660	Soil	7	25	0.64	259	0.072	2	1.74	0.019	0.11	<0.1	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2
100661	Soil	6	22	0.58	206	0.071	1	1.39	0.021	0.07	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
100662	Soil	9	21	0.56	313	0.057	<1	1.28	0.017	0.11	<0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
100663	Soil	6	15	0.80	516	0.119	<1	2.08	0.019	0.53	<0.1	<0.01	5.6	0.2	<0.05	6	<0.5	<0.2
100664	Soil	8	28	0.51	178	0.058	<1	1.63	0.022	0.07	<0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
100665	Soil	5	15	0.93	267	0.104	<1	1.97	0.024	0.16	<0.1	<0.01	6.8	<0.1	<0.05	7	<0.5	<0.2
100666	Soil	12	25	0.53	340	0.062	<1	1.46	0.019	0.06	0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
100667	Soil	13	23	0.52	332	0.058	2	1.42	0.020	0.05	0.2	0.05	3.4	<0.1	<0.05	4	0.6	<0.2
100668	Soil	13	23	0.53	321	0.053	1	1.29	0.019	0.05	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
100669	Soil	7	36	0.85	329	0.048	<1	1.88	0.025	0.08	<0.1	0.06	8.6	<0.1	<0.05	6	<0.5	<0.2
100670	Soil	7	16	1.18	291	0.038	<1	2.13	0.017	0.05	<0.1	0.05	9.1	<0.1	<0.05	7	<0.5	<0.2
100671	Soil	3	16	1.08	243	0.111	<1	2.06	0.014	0.36	<0.1	0.01	5.1	0.1	<0.05	6	<0.5	<0.2
100672	Soil	5	18	0.75	350	0.106	<1	1.66	0.015	0.36	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
100673	Soil	15	12	0.58	246	0.042	<1	2.06	0.007	0.38	<0.1	0.04	5.8	<0.1	<0.05	10	<0.5	<0.2
100674	Soil	13	30	0.54	153	0.050	<1	1.25	0.014	0.05	0.1	0.04	4.8	<0.1	<0.05	4	<0.5	<0.2
100675	Soil	14	17	1.12	310	0.038	<1	2.04	0.013	0.15	<0.1	0.05	8.6	<0.1	<0.05	7	<0.5	<0.2
100676	Soil	18	29	0.74	293	0.067	<1	1.74	0.017	0.19	<0.1	0.05	9.4	<0.1	<0.05	7	0.7	<0.2
100677	Soil	30	14	1.02	258	0.151	<1	2.24	0.008	0.97	<0.1	0.04	11.6	0.3	<0.05	10	0.5	<0.2
100678	Soil	12	16	0.54	243	0.080	<1	1.16	0.013	0.20	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
100679	Soil	17	22	0.68	326	0.086	1	1.51	0.017	0.18	0.1	0.05	5.2	<0.1	<0.05	5	<0.5	<0.2
100680	Soil	13	26	1.39	388	0.103	<1	2.04	0.020	0.37	<0.1	<0.01	8.9	0.1	<0.05	7	<0.5	<0.2
131066	Soil	20	28	0.58	346	0.076	1	1.60	0.016	0.18	0.2	0.04	3.7	0.1	<0.05	5	0.6	<0.2
131067	Soil	17	30	0.58	353	0.064	<1	1.59	0.018	0.13	0.1	0.05	4.1	0.1	<0.05	5	<0.5	<0.2
131068	Soil	14	27	0.50	298	0.045	<1	1.45	0.016	0.06	0.2	0.05	3.6	<0.1	<0.05	5	0.9	<0.2
131069	Soil	16	29	0.53	351	0.055	1	1.53	0.017	0.07	0.1	0.05	4.3	<0.1	<0.05	5	0.6	<0.2
131070	Soil	12	26	0.46	309	0.044	<1	1.34	0.014	0.04	0.2	0.06	3.6	<0.1	0.10	4	0.8	<0.2
131071	Soil	14	31	0.54	321	0.050	2	1.43	0.014	0.11	0.1	0.05	4.2	<0.1	<0.05	5	0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
131072	Soil		0.5	31.8	10.6	55	0.1	25.9	11.0	421	2.66	8.5	3.9	4.3	4.5	63	0.2	0.7	0.2	47	1.02	0.050
131073	Soil		0.6	26.5	10.3	52	0.1	20.7	10.4	872	2.47	7.3	4.0	2.0	3.7	69	0.2	0.6	0.2	42	1.28	0.045
131074	Soil		0.7	37.5	11.0	62	0.1	30.6	11.5	471	2.87	9.3	1.1	5.5	5.5	34	0.2	0.8	0.2	52	0.58	0.044
131075	Soil		0.5	35.2	11.2	57	0.1	29.3	12.0	500	2.77	9.2	1.8	5.0	5.2	44	0.3	0.8	0.2	51	0.73	0.047
131076	Soil		0.5	36.9	11.8	58	0.2	29.3	11.6	465	3.00	7.8	2.8	6.0	6.1	48	0.1	0.8	0.2	54	0.81	0.048
131077	Soil		0.7	34.2	11.8	58	0.2	31.2	12.3	441	2.89	7.8	3.9	5.4	6.1	43	0.2	0.7	0.2	55	0.78	0.049
131078	Soil		0.7	34.1	11.4	53	0.1	29.0	11.8	511	2.79	7.7	4.1	5.8	5.9	43	0.1	0.7	0.2	59	0.86	0.046
131079	Soil		0.7	42.1	11.3	72	0.1	41.6	11.8	457	3.16	5.8	4.3	4.2	5.0	39	0.2	0.6	0.2	70	0.77	0.048
131080	Soil		1.0	36.1	14.9	71	0.2	35.4	12.4	511	3.02	9.9	2.4	4.7	7.8	41	0.2	0.6	0.3	57	0.50	0.039
131081	Soil		1.0	32.0	15.2	60	0.1	22.8	9.0	321	2.37	9.4	2.2	3.9	8.1	43	0.1	0.5	0.3	44	0.45	0.028
131082	Soil		0.9	18.8	11.5	48	<0.1	16.4	6.9	174	1.98	5.5	1.5	1.6	4.8	22	<0.1	0.3	0.2	39	0.26	0.016
131083	Soil		0.7	17.3	8.3	38	<0.1	9.4	4.7	161	1.46	4.7	1.8	1.6	5.9	21	<0.1	0.4	0.2	30	0.31	0.015
131084	Soil		0.7	25.8	14.3	50	0.2	14.0	5.9	285	1.85	5.3	3.0	3.5	6.6	35	0.3	0.5	0.3	41	0.38	0.041
131085	Soil		0.5	21.3	6.0	65	<0.1	13.4	14.6	541	3.84	4.7	1.3	4.0	3.1	30	0.3	0.4	0.1	50	0.51	0.074
131086	Soil		0.5	28.2	7.2	49	<0.1	15.9	11.1	396	2.99	6.5	1.4	1.8	3.2	28	0.2	0.4	0.1	63	0.53	0.053
131087	Soil		0.3	29.6	5.8	47	<0.1	16.6	11.1	436	2.93	4.7	1.3	1.7	3.3	22	<0.1	0.4	<0.1	61	0.54	0.048
131088	Soil		0.5	26.8	5.3	53	<0.1	15.4	12.5	673	3.49	4.3	1.4	1.7	2.6	28	<0.1	0.4	<0.1	54	0.67	0.062
131089	Soil		0.5	23.9	6.0	51	<0.1	18.0	10.3	458	3.34	5.4	1.6	1.5	3.1	34	<0.1	0.5	0.1	54	0.65	0.058
131090	Soil		0.6	22.8	5.6	51	<0.1	17.3	10.0	426	3.34	5.0	1.6	3.0	3.3	31	<0.1	0.4	0.1	52	0.59	0.057
131091	Soil		1.0	31.7	15.2	58	0.2	21.1	6.6	194	2.23	5.7	2.7	2.8	5.4	33	0.2	0.6	0.4	43	0.46	0.036
131092	Soil		1.0	25.5	13.7	47	0.1	17.5	7.6	225	2.89	9.6	2.5	5.4	5.5	33	0.1	0.6	0.2	51	0.40	0.047
131093	Soil		1.2	34.6	15.2	52	0.2	22.4	8.7	334	2.56	18.2	4.9	4.4	9.5	47	0.1	0.6	0.3	46	0.65	0.044
131094	Soil		1.1	30.4	16.3	64	0.2	19.6	9.8	360	2.77	13.2	1.7	4.1	12.1	43	0.1	0.5	0.3	46	0.35	0.029
131095	Soil		0.9	28.9	13.2	45	0.1	27.9	10.4	556	2.45	8.1	4.7	2.1	5.7	54	0.2	0.5	0.2	45	1.23	0.044
131096	Soil		0.6	37.4	13.9	60	0.1	33.6	13.3	358	3.15	5.4	4.7	5.5	8.2	36	0.1	0.7	0.2	87	0.87	0.027
131097	Soil		0.8	30.9	10.1	46	0.1	27.6	12.3	531	2.69	6.8	4.4	4.1	4.9	58	0.2	0.7	0.2	53	1.29	0.048
131098	Soil		0.7	34.3	11.3	59	0.1	31.3	12.0	531	2.87	6.8	3.4	7.8	6.3	38	0.2	0.7	0.2	58	0.84	0.043
131099	Soil		0.4	27.6	11.1	60	0.1	26.5	13.9	401	3.05	4.4	2.5	7.0	7.3	34	<0.1	0.5	0.2	65	0.72	0.046
131100	Soil		0.5	28.0	12.0	57	<0.1	28.9	14.3	451	3.30	5.5	2.6	4.8	8.0	47	0.1	0.5	0.2	66	0.80	0.045
131101	Soil		0.5	34.8	9.9	45	0.2	28.6	11.2	660	2.57	4.7	14.3	3.2	4.3	96	0.3	0.6	0.2	49	1.95	0.056

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
131072	Soil	13	33	0.56	300	0.048	2	1.52	0.017	0.07	0.2	0.04	4.3	<0.1	0.05	5	0.7	<0.2
131073	Soil	12	32	0.55	240	0.048	3	1.35	0.017	0.09	0.1	0.04	3.7	<0.1	0.06	5	0.7	<0.2
131074	Soil	16	38	0.62	372	0.061	<1	1.61	0.020	0.11	0.2	0.04	4.7	<0.1	<0.05	5	0.5	<0.2
131075	Soil	16	36	0.59	343	0.061	1	1.62	0.020	0.10	0.2	0.05	4.5	<0.1	<0.05	5	0.8	<0.2
131076	Soil	20	45	0.67	340	0.052	2	1.79	0.016	0.12	0.1	0.05	5.3	0.1	<0.05	6	0.8	<0.2
131077	Soil	19	49	0.65	331	0.049	<1	1.72	0.014	0.11	0.1	0.05	5.4	0.1	<0.05	6	0.6	<0.2
131078	Soil	19	48	0.58	330	0.047	<1	1.83	0.014	0.10	0.1	0.04	5.3	0.1	<0.05	6	<0.5	<0.2
131079	Soil	17	51	0.65	352	0.084	<1	1.78	0.014	0.29	0.1	0.04	6.7	0.2	<0.05	6	0.5	<0.2
131080	Soil	19	37	0.43	271	0.057	<1	1.38	0.013	0.19	<0.1	0.05	6.5	0.2	<0.05	6	<0.5	<0.2
131081	Soil	19	25	0.25	228	0.026	1	1.01	0.010	0.10	<0.1	0.08	6.6	0.3	<0.05	6	<0.5	<0.2
131082	Soil	15	24	0.28	161	0.028	<1	1.01	0.008	0.06	<0.1	0.02	4.3	0.1	<0.05	5	<0.5	<0.2
131083	Soil	17	16	0.11	134	0.003	<1	0.62	0.004	0.07	<0.1	0.01	4.1	0.1	<0.05	3	<0.5	<0.2
131084	Soil	20	26	0.26	251	0.018	<1	1.16	0.009	0.07	<0.1	0.08	5.9	0.2	<0.05	5	<0.5	<0.2
131085	Soil	14	21	0.40	260	0.030	<1	1.29	0.014	0.04	<0.1	0.04	7.0	<0.1	0.06	5	<0.5	<0.2
131086	Soil	15	23	0.39	217	0.034	<1	1.36	0.013	0.04	<0.1	0.05	7.0	<0.1	<0.05	5	<0.5	<0.2
131087	Soil	16	20	0.47	181	0.032	<1	1.46	0.013	0.06	<0.1	0.04	7.9	<0.1	<0.05	5	<0.5	<0.2
131088	Soil	15	18	0.57	251	0.025	<1	1.60	0.013	0.07	<0.1	0.04	8.4	<0.1	<0.05	6	<0.5	<0.2
131089	Soil	16	22	0.62	332	0.060	<1	1.59	0.015	0.11	0.1	0.04	8.4	<0.1	<0.05	7	<0.5	<0.2
131090	Soil	16	22	0.64	328	0.064	<1	1.62	0.016	0.13	0.1	0.03	8.8	<0.1	<0.05	7	<0.5	<0.2
131091	Soil	21	25	0.35	284	0.018	<1	1.39	0.012	0.10	<0.1	0.08	6.2	0.2	<0.05	6	<0.5	<0.2
131092	Soil	17	27	0.33	251	0.027	<1	1.27	0.010	0.06	<0.1	0.05	5.2	0.1	<0.05	5	<0.5	<0.2
131093	Soil	25	29	0.30	272	0.032	1	1.28	0.010	0.11	<0.1	0.08	6.5	0.3	<0.05	6	<0.5	<0.2
131094	Soil	24	29	0.25	238	0.034	1	1.10	0.009	0.13	<0.1	0.07	7.2	0.3	<0.05	7	<0.5	<0.2
131095	Soil	16	27	0.39	298	0.034	2	1.30	0.015	0.10	<0.1	0.05	5.3	0.2	0.08	5	0.6	<0.2
131096	Soil	19	64	0.70	328	0.054	<1	2.17	0.019	0.23	<0.1	0.04	7.4	0.2	0.05	7	<0.5	<0.2
131097	Soil	18	47	0.55	343	0.043	<1	1.57	0.015	0.10	<0.1	0.04	5.2	0.1	0.06	5	0.5	<0.2
131098	Soil	22	53	0.67	344	0.046	<1	1.89	0.016	0.15	<0.1	0.04	5.8	0.1	<0.05	6	<0.5	<0.2
131099	Soil	25	69	0.77	275	0.048	<1	2.01	0.014	0.17	<0.1	0.04	6.6	0.2	<0.05	6	<0.5	<0.2
131100	Soil	24	68	0.76	300	0.054	<1	2.09	0.018	0.18	<0.1	0.03	7.1	0.2	<0.05	7	<0.5	<0.2
131101	Soil	17	46	0.63	366	0.042	2	1.62	0.017	0.11	<0.1	0.04	5.0	0.1	0.11	5	0.6	<0.2

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Project: Montana
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CERTIFICATE OF ANALYSIS

WHI11001202.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	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	
131102	Soil	1.9	35.0	21.0	62	0.2	39.0	12.8	623	3.30	7.5	2.5	3.9	7.6	41	0.1	0.7	0.2	59	0.72	0.038



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CERTIFICATE OF ANALYSIS

WHI11001202.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
131102	Soil	18	68	0.65	283	0.059	<1	1.86	0.023	0.16	0.3	0.04	6.3	0.1	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11001202.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
115701	Soil	1.3	11.0	5.9	49	<0.1	11.5	7.7	286	3.21	6.4	0.7	2.3	4.6	15	<0.1	0.5	0.1	73	0.20	0.025
REP 115701	QC	1.2	11.3	5.9	51	<0.1	10.7	7.6	291	3.20	6.3	0.8	<0.5	4.5	15	<0.1	0.5	0.1	73	0.20	0.025
145629	Soil	0.7	25.0	4.5	41	<0.1	10.8	10.0	281	2.56	3.6	0.3	<0.5	1.9	30	<0.1	0.3	<0.1	65	0.44	0.038
REP 145629	QC	0.6	25.5	4.4	40	<0.1	10.4	9.7	276	2.52	3.8	0.3	<0.5	1.8	29	<0.1	0.3	<0.1	63	0.43	0.037
133016	Soil	0.8	15.8	6.9	59	<0.1	16.4	9.1	351	2.85	5.5	0.5	6.0	3.4	17	<0.1	0.4	0.1	57	0.27	0.025
REP 133016	QC	0.8	15.6	6.7	56	<0.1	16.7	9.1	351	2.90	5.6	0.5	0.8	3.5	17	<0.1	0.4	0.1	57	0.27	0.026
133020	Soil	0.7	19.4	8.8	44	<0.1	16.6	7.7	323	2.45	6.0	0.7	2.8	4.4	23	<0.1	0.4	0.1	55	0.31	0.016
REP 133020	QC	0.7	19.1	8.5	42	<0.1	15.9	7.6	315	2.38	5.8	0.7	1.1	4.2	22	<0.1	0.4	0.1	52	0.31	0.015
110837	Soil	0.5	34.3	12.0	64	0.1	31.4	12.7	469	3.26	7.3	2.0	2.8	6.3	34	0.1	0.5	0.2	69	0.79	0.030
REP 110837	QC	0.5	35.5	12.3	62	0.1	31.7	12.9	457	3.28	7.1	2.0	4.3	6.5	34	<0.1	0.5	0.2	66	0.78	0.029
101997	Soil	0.7	16.2	3.7	50	<0.1	10.9	7.6	324	2.84	3.1	1.6	0.5	11.8	11	<0.1	0.2	<0.1	54	0.16	0.017
REP 101997	QC	0.8	17.5	3.6	52	<0.1	12.0	8.2	344	2.95	3.5	1.7	<0.5	11.9	12	<0.1	0.3	<0.1	58	0.18	0.019
101999	Soil	0.5	50.7	2.3	38	<0.1	18.3	18.6	508	2.92	0.6	0.4	0.7	0.8	12	<0.1	0.2	<0.1	82	0.58	0.053
REP 101999	QC	0.5	49.6	2.6	40	<0.1	17.8	18.5	509	2.98	0.7	0.5	2.1	0.8	12	<0.1	0.2	<0.1	83	0.60	0.054
146408	Soil	1.1	40.8	21.3	88	<0.1	37.6	17.4	307	4.30	5.2	1.7	<0.5	13.4	10	<0.1	0.3	0.3	45	0.17	0.037
REP 146408	QC	1.0	38.7	21.0	85	<0.1	34.7	16.7	302	4.18	5.0	1.6	2.2	13.5	10	<0.1	0.3	0.3	41	0.16	0.034
146415	Soil	0.3	32.3	22.2	83	0.2	28.7	15.6	818	4.26	5.1	1.3	6.5	16.2	19	0.2	0.3	0.4	63	0.52	0.044
REP 146415	QC	0.4	33.7	22.6	85	0.2	29.8	16.0	850	4.38	5.1	1.3	6.3	16.2	20	0.2	0.3	0.4	67	0.55	0.043
100654	Soil	0.9	16.5	5.9	75	<0.1	11.8	10.7	423	3.74	5.6	1.5	0.9	13.9	16	<0.1	0.9	0.1	62	0.22	0.045
REP 100654	QC	0.9	16.2	6.0	76	<0.1	11.6	10.7	422	3.76	5.9	1.5	0.7	13.9	16	<0.1	0.9	0.1	63	0.22	0.046
100661	Soil	0.6	19.1	4.7	37	<0.1	11.5	9.4	282	2.42	5.3	0.3	2.7	2.5	21	<0.1	0.4	0.1	53	0.33	0.019
REP 100661	QC	0.6	19.0	4.6	38	<0.1	11.5	9.1	275	2.38	5.2	0.3	5.1	2.6	20	<0.1	0.3	0.1	55	0.33	0.018
100678	Soil	0.7	15.3	4.4	38	<0.1	10.3	8.4	371	2.88	5.7	0.7	1.3	3.0	28	<0.1	0.2	<0.1	48	0.38	0.059
REP 100678	QC	0.8	15.5	4.5	37	<0.1	10.2	8.8	389	2.98	5.6	0.8	1.6	3.2	28	<0.1	0.3	<0.1	50	0.42	0.060
Reference Materials																					
STD DS8	Standard	13.2	105.1	120.0	298	1.8	36.9	7.4	588	2.38	24.5	2.8	116.5	6.8	71	2.2	5.7	7.0	41	0.68	0.080
STD DS8	Standard	13.8	111.7	125.8	311	1.7	38.4	7.5	627	2.49	24.1	2.8	101.2	6.9	69	2.2	5.7	6.9	43	0.73	0.078
STD DS8	Standard	13.0	109.0	124.0	316	1.7	38.1	7.4	597	2.41	23.1	2.6	107.9	6.3	62	2.2	5.3	6.6	42	0.68	0.076

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Project: Montana
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QUALITY CONTROL REPORT

WHI11001202.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	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																		
115701	Soil	16	22	0.58	163	0.115	<1	1.72	0.008	0.29	<0.1	0.02	5.9	0.2	<0.05	7	<0.5	<0.2
REP 115701	QC	16	21	0.57	162	0.116	<1	1.75	0.008	0.27	<0.1	0.03	5.7	0.2	<0.05	7	<0.5	<0.2
145629	Soil	5	33	0.61	305	0.084	<1	1.87	0.023	0.18	<0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
REP 145629	QC	5	31	0.57	299	0.081	<1	1.77	0.022	0.19	<0.1	0.01	4.8	0.1	<0.05	5	<0.5	<0.2
133016	Soil	10	36	0.57	191	0.103	<1	1.69	0.009	0.34	0.1	0.02	4.9	0.1	<0.05	6	<0.5	<0.2
REP 133016	QC	10	36	0.58	188	0.103	<1	1.70	0.009	0.34	<0.1	0.02	4.9	0.1	<0.05	6	<0.5	<0.2
133020	Soil	17	27	0.45	246	0.089	<1	1.59	0.020	0.12	0.1	0.02	4.5	0.1	<0.05	5	<0.5	<0.2
REP 133020	QC	16	26	0.44	235	0.084	<1	1.53	0.013	0.11	0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
110837	Soil	18	57	0.70	316	0.058	1	1.95	0.018	0.14	0.1	0.04	6.4	0.1	<0.05	7	0.9	<0.2
REP 110837	QC	18	57	0.72	320	0.059	2	1.93	0.014	0.15	<0.1	0.05	6.5	0.1	<0.05	7	0.5	<0.2
101997	Soil	31	17	0.54	153	0.084	<1	1.45	0.006	0.39	<0.1	0.02	8.2	0.2	<0.05	7	<0.5	<0.2
REP 101997	QC	34	18	0.59	164	0.097	<1	1.49	0.006	0.43	<0.1	0.04	8.3	0.2	<0.05	7	<0.5	<0.2
101999	Soil	7	32	0.72	159	0.031	<1	1.28	0.018	0.11	<0.1	0.05	8.1	<0.1	<0.05	4	<0.5	<0.2
REP 101999	QC	7	34	0.72	160	0.032	<1	1.31	0.016	0.11	<0.1	0.04	8.6	<0.1	<0.05	4	<0.5	<0.2
146408	Soil	46	41	0.95	215	0.204	<1	2.64	0.009	0.86	<0.1	<0.01	3.9	0.6	<0.05	8	<0.5	<0.2
REP 146408	QC	46	40	0.96	212	0.196	<1	2.56	0.009	0.83	<0.1	0.01	3.8	0.6	<0.05	8	<0.5	<0.2
146415	Soil	29	49	0.65	250	0.056	<1	1.68	0.007	0.41	<0.1	0.02	9.8	0.3	<0.05	9	<0.5	<0.2
REP 146415	QC	30	53	0.67	250	0.058	<1	1.72	0.007	0.41	<0.1	0.02	10.2	0.3	<0.05	10	<0.5	<0.2
100654	Soil	36	18	0.57	139	0.106	<1	1.86	0.008	0.52	<0.1	0.06	9.7	0.2	<0.05	8	<0.5	<0.2
REP 100654	QC	36	18	0.58	139	0.108	<1	1.96	0.009	0.52	<0.1	0.06	10.0	0.2	<0.05	9	<0.5	<0.2
100661	Soil	6	22	0.58	206	0.071	1	1.39	0.021	0.07	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
REP 100661	QC	6	22	0.58	204	0.072	<1	1.38	0.018	0.07	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
100678	Soil	12	16	0.54	243	0.080	<1	1.16	0.013	0.20	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
REP 100678	QC	13	17	0.54	242	0.081	<1	1.21	0.014	0.21	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	112	0.61	282	0.115	3	0.96	0.112	0.44	2.9	0.21	3.2	5.2	0.09	5	4.2	5.3
STD DS8	Standard	18	122	0.62	270	0.121	2	0.94	0.101	0.42	2.9	0.21	2.5	5.4	0.16	5	4.8	4.7
STD DS8	Standard	15	118	0.60	268	0.113	2	0.90	0.098	0.40	2.9	0.21	2.4	5.3	0.15	5	5.4	4.7

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QUALITY CONTROL REPORT

WHI11001202.1

		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
STD DS8	Standard	12.5	110.0	127.9	319	1.8	38.0	7.6	621	2.48	26.0	2.9	115.1	6.8	66	2.4	6.0	7.2	41	0.68	0.081
STD DS8	Standard	14.5	115.7	129.1	335	1.9	40.6	7.9	627	2.57	26.4	2.9	121.9	7.2	66	2.4	5.6	6.9	46	0.71	0.081
STD DS8	Standard	13.1	110.2	121.9	300	1.8	38.0	8.0	605	2.43	24.5	2.8	117.2	6.6	63	2.2	5.3	6.2	46	0.69	0.089
STD DS8	Standard	13.2	108.3	122.0	311	1.8	38.0	7.6	601	2.44	23.8	2.6	123.6	6.2	66	2.3	5.3	6.5	40	0.67	0.078
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



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Report Date: November 20, 2011

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QUALITY CONTROL REPORT

WHI11001202.1

		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
STD DS8	Standard	14	114	0.61	272	0.105	2	0.87	0.105	0.43	3.0	0.21	2.2	5.4	0.11	5	5.8	5.1
STD DS8	Standard	16	119	0.64	281	0.119	3	0.97	0.095	0.41	3.2	0.23	2.5	5.5	0.18	5	5.3	4.8
STD DS8	Standard	16	120	0.59	261	0.118	2	0.91	0.094	0.41	3.0	0.20	2.5	5.2	0.19	5	5.1	4.9
STD DS8	Standard	14	117	0.61	276	0.114	2	0.93	0.108	0.43	2.9	0.18	3.1	5.5	0.12	5	4.7	4.9
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2