

# 2011 Soil Geochemical Survey

On the

## Rosebute Property

Bute 1 to 10	YC87401 to YC87410
Bute 11 to 12	YC96443 to YC96544
Bute 13 to 22	YC87977 to YC87986
Bute 23	YC95496
Bute 24	YC95580
Bute 25 to 62	YC96359 to YC96396
Rose 1 to 24	YC87106 to YC87129
Rose 25 to 28	YC96397 to YC96400
Rose 29 to 36	YC96349 to YC96356
Rose 37 to 120	YD13038 to YD13121
Rose 121 to 351	YD43401 to YD43631
Rose 352	YC95483
Rose 353 to 412	YD43633 to YD43692
RS 1 to 48	YD15751 to YD15798
RS 51 to 72	YD92271 to YD92292

**Dawson Mining District, Yukon  
NTS Sheet 115O05, O06, O11 & O12  
139°30'W., 63°28'N.**

**Operated by and Recorded to**



**By  
Mark Fekete, P.Geo.  
and  
Marty Huber, GIT**

**January 31, 2012**

## Summary

From July 6, 2011 to August 19, 2011 Taku Gold Corp. completed a surface exploration program on the 544-claim (11,261ha) Rosebute property located at the headwaters of Rosebute Creek, a tributary to the Yukon River, some 64km south of Dawson City, Yukon. The work included a deep auger-type soil geochemical survey. The goal of the work was to identify potential gold-bearing structures by outlining geochemical trends.

Taku holds an option to acquire a 100% interest the Rosebute property in consideration for \$325,000 in cash payments, the issuance of 1,000,000 common shares and the completion of \$1,000,000 in exploration expenditures over a four year period. The Property is subject to 2% Net Smelter Return royalty of which Taku has the right to purchase 1% for \$2,000,000.

The Property is located in an isolated part of the Yukon with little local resources or infrastructure. There are no roads to the Property and access is by helicopter only. In 2010 Taku Gold Corp. carried out an airborne geophysical and surface exploration program over a large portion of the Property. Previous to this very little work has been done.

The Property lies within the Yukon-Tanana Terrane which consists of several successions of complexly deformed Late Proterozoic to Late Permian sedimentary and volcanic rocks 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 Property lies in the underexplored Klondike-White Gold district of the loosely defined Tintina Gold Belt. Taku's exploration effort at Rosebute 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 30km south of Rosebute. 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.

A total of 2,356 reconnaissance soil samples were taken with hand augers at 50m intervals on predetermined GPS ridge and spur traverses. On the Norwest zone, an additional 457 soil samples were taken between the 2010 grid lines.

Excellent gold-in-soil results up to a maximum of 1,343ppb or 1.3gpt Au were obtained over the Norwest grid where three distinct gold anomalies within a 200-hectare area were defined. Gold shows excellent overall correlation with silver and/or arsenic and/or antimony. Although these metals do not correspond perfectly, together they point to several strong targets for testing by trenching and drilling. Moreover, Norwest zone sits on the margins of two rounded total count radiometric anomalies, and there is prominent magnetic high that cuts at approximately 100° through the most anomalous part of the area. In summary, the Norwest zone is an excellent, very prospective area for gold mineralization.

The reconnaissance ridge and spur sampling also returned encouraging results. A gold value of 3,430ppb or 3.4gpt Au was returned from a sample collected approximately 3km north of the Norwest zone, and a small cluster of anomalous gold results was also identified 2.4 km southeast of the Norwest zone with maximum values up to 491ppb or 0.5gpt Au.

The surface work met its primary goal of outlining geochemical trends that may potentially be gold-bearing structures. It is recommended that work be concentrated on the Norwest zone starting with prospecting, followed by trenching and finally drilling for a total estimated cost of \$570,000. Detailed soil sampling and possibly trenching will also be undertaken at the two new gold targets mentioned above at an estimated cost of \$30,000. The total estimated cost of the 2012 work program is \$600,000, which includes 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 Rosebute property on numerous occasions including most recently in July 2011;
3. I co-wrote and I am, as the qualified person, responsible for the contents of this technical report entitled "2011 Soil Geochemical Survey On the Rosebute Property, Dawson Mining District, Yukon, NTS Sheets 115O05, O06, O11 & O12, 139°30'W., 63°28'N.," 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 Rosebute property as a result of any prior involvement with the property; and
7. I have read, and this report has not been prepared in full compliance with, National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 31<sup>st</sup> day of January 2012,  
(s) "**Mark Fekete**"

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Mark Fekete, P.Geo.

## Certificate of Qualifications

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

1. I obtained a Bachelor of Science Degree in Geology from Acadia University in May 2011, I have been engaged as a Geologist in Training (“GIT”) continuously since May 2011 and I am not a “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have not visited the Rosebute property;
3. I co-wrote this technical report entitled “2011 Soil Geochemical Survey On the Rosebute Property, Dawson Mining District, Yukon, NTS Sheets 115O05, O06, O11 & O12, 139°30’W., 63°28’N.,” 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 Rosebute property as a result of any prior involvement with the property; and
7. I have read, and this report has not been prepared in full compliance with, National Instrument 43-101 and according to Form 43-101F1

Respectfully submitted this 31<sup>st</sup> day of January 2012,

(s) “*Marty Huber*”

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Marty Huber

## Table of Contents

Summary .....	ii
Certificate of Qualifications .....	iii
Certificate of Qualifications .....	iv
Table of Contents .....	v
List of Figures .....	v
List of Tables .....	v
1. Introduction and Terms of Reference .....	1
2. Reliance on Other Experts .....	1
3. Location and Property Description .....	1
4. Accessibility, Local Resources, Infrastructure, Physiography and Climate .....	5
5. Exploration History .....	5
6. Geology .....	6
7. Deposit Types .....	6
8. Adjacent Properties .....	6
9. Mineralization .....	6
10. 2011 Exploration Work .....	11
10.1. Introduction .....	11
10.2. Sampling and Analytical Procedures .....	11
10.3. Data Verification .....	11
10.4. Results .....	11
11. Mineral Processing and Metallurgical Testing .....	12
12. Mineral Resource and Mineral Reserve Estimates .....	12
13. Other Relevant Data and Information .....	12
14. Interpretation of Results and Conclusions .....	12
15. Recommendations .....	20
16. References .....	20

Appendix A - Statement of Work Expenditures

Appendix B - Sample Locations and Descriptions

Appendix C - Analytical Certificates

## List of Figures

Figure 1 - General Location .....	3
Figure 2 - Claim Map .....	4
Figure 3 - Yukon Tectonic Map .....	7
Figure 4 - Regional Geology .....	8
Figure 5 - Property Geology .....	10
Figure 6 - 2011 Soil Locations I .....	13
Figure 7 - 2011 Soil Locations II .....	14
Figure 8 - 2010 Soil Locations III .....	15
Figure 9 - 2011 Soil Gold Anomalies .....	16
Figure 10 - Interpretation Map, Norwest Zone .....	17
Figure 11 - Total Count Radiometric Map .....	18
Figure 12 - Total Field Magnetic Map .....	19

## List of Tables

Table 1 - List of Claims .....	2
Table 2 - Previous Assessment Work Files .....	5
Table 3 - MINFILE Showings .....	5
Table 4 - Anomalous Results .....	12
Table 5 - Cost Estimate 2012 .....	20

## **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 the surface exploration work carried out on the Rosebute property (“Rosebute” or the “Property”) in Yukon in 2011. The Report describes the soil geochemical sampling completed.

The goal of the surface work was to identify 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 30km due south of the Property.

The Report is based primarily on the results of the work completed on Rosebute in 2011 but also contains information obtained from a review of relevant reports and maps cited throughout the Report. The Report was prepared by Geologist in Training Marty Huber (the “Junior Author”) under the supervision of Professional Geologist Mark Fekete (the “Senior Author”). The Senior Author has 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 the technical data and interpretation 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 11,261 hectares within the Dawson Mining Division of Yukon. It is located at the headwaters of Rosebute Creek, a tributary of the Yukon River, about 64km south of Dawson City (Figure 1). The approximate centre of the Property is described by 63°28’00” North Latitude and 139°30’00” West Longitude on N.T.S. Sheets 115O05(Excelsior Creek), 115O06 (Stewart River), 115O11 (Reindeer Mountain) & 115O12 (Ogilvie). The Property includes 544 contiguous, un-surveyed mineral titles (Figure 2) more fully described in Table 1 below.

On March 30, 2010, Taku entered into an option agreement to acquire a 100% interest in 120 claims known as the Rose Property and 62 claims known as the Bute Property, both located south of Dawson City in the White Gold district of Yukon Territory. Under the terms of the agreement, Taku has the option to earn a 100% interest in the Rose and Bute Property for a total consideration of \$325,000 in cash payments, the issuance of 1,000,000 common shares and the completion of \$1,000,000 in exploration expenditures on the Property over a four year period. The Property is subject to two per cent (2%) Net Smelter Return (“NSR”) of which Taku has the right to buy back the first one per cent (1%) for two million dollars (\$2,000,000). On April 12, 2010 Taku acquired an additional 292 claims through staking to expand the Property to 474 claims. On March 9, 2011 Taku acquired 70 new claims to the north end of the Property by staking, expanding the property to 544 claims.

**Table 1 - List of Claims**

<b>Claim Name No.</b>	<b>Tag No.</b>	<b>Expiry Date</b>	<b>#</b>
Bute 1 to 10	YC87401 to YC87410	25-Mar-15	10
Bute 11 to 12	YC96443 to YC96544	25-Mar-15	2
Bute 13 to 22	YC87977 to YC87986	25-Mar-15	10
Bute 23	YC95496	25-Mar-15	1
Bute 24	YC95580	25-Mar-15	1
Bute 25 to 62	YC96359 to YC96396	25-Mar-15	38
Rose 1 to 24	YC87106 to YC87129	25-Mar-15	24
Rose 25 to 28	YC96397 to YC96400	25-Mar-15	4
Rose 29 to 36	YC96349 to YC96356	25-Mar-15	8
Rose 37 to 120	YD13038 to YD13121	25-Mar-15	84
Rose 121 to 351	YD43401 to YD43631	25-Mar-15	231
Rose 352	YC95483	25-Mar-15	1
Rose 353 to 412	YD43633 to YD43692	25-Mar-15	60
RS 1 to 48	YD15751 to YD15798	9-Mar-12	48
RS 51 to 72	YD92271 to YD92292	9-Mar-12	22

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**544**

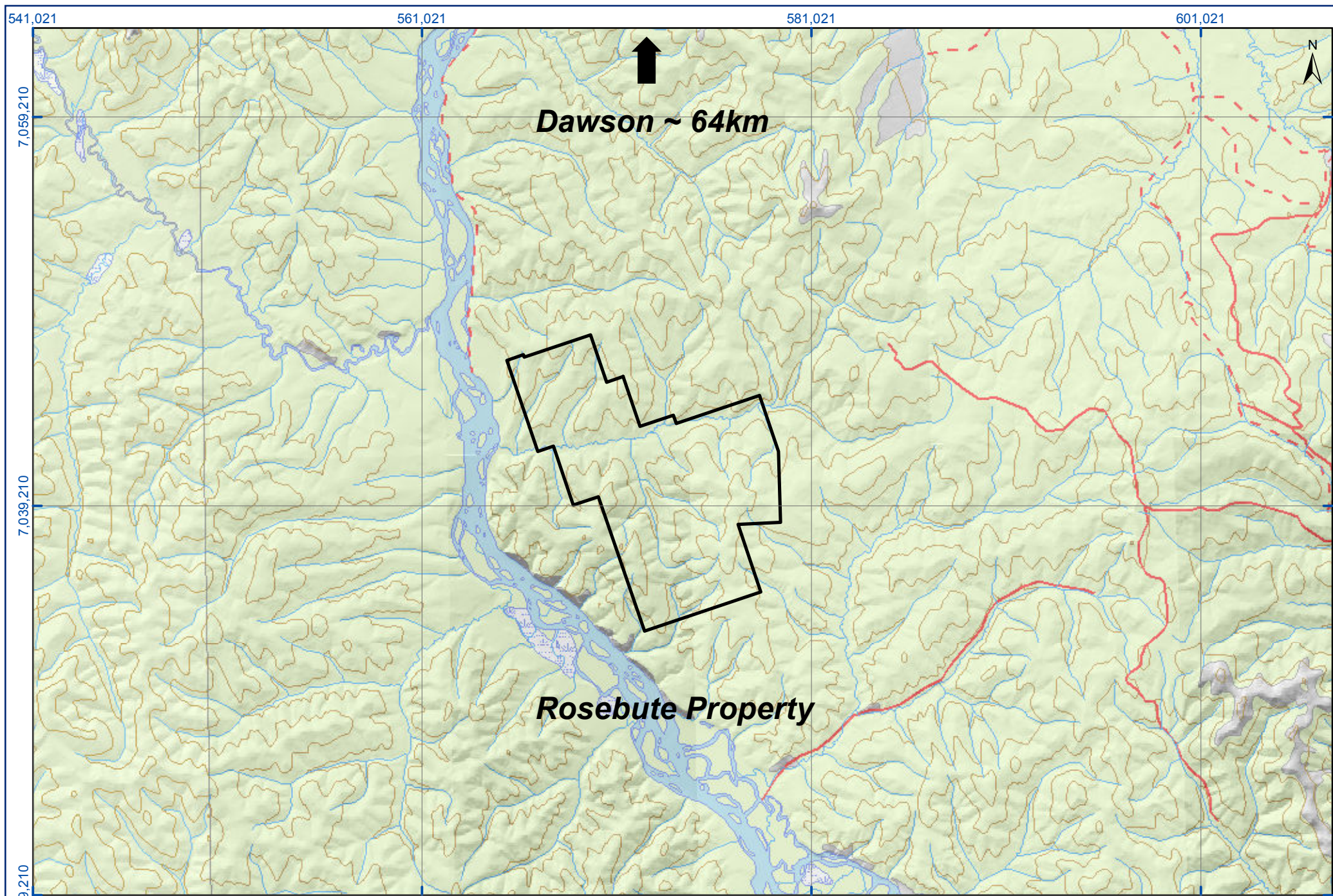
The mineral claims included in the Property were acquired under the Yukon Quartz Mining Act which grants only the hard rock mineral rights to the claim holder. The surface rights for the area of the Property are held by the Crown. To maintain the claims in good standing, a minimum of \$100 assessment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

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.

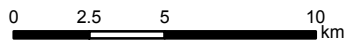
All Class 3 and Class 4 programs require submission of a detailed “Operating Plan” to the Mining Lands Office. A YESAA assessment is required. The Operating Plan must be approved before any exploration activities can be undertaken. Operating Plans may entail multi-year exploration programs to allow greater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

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

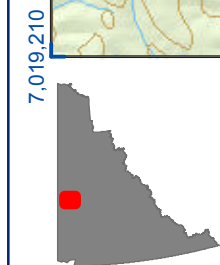


**ROSEBUTE PROPERTY**  
**Figure 1. GENERAL LOCATION**

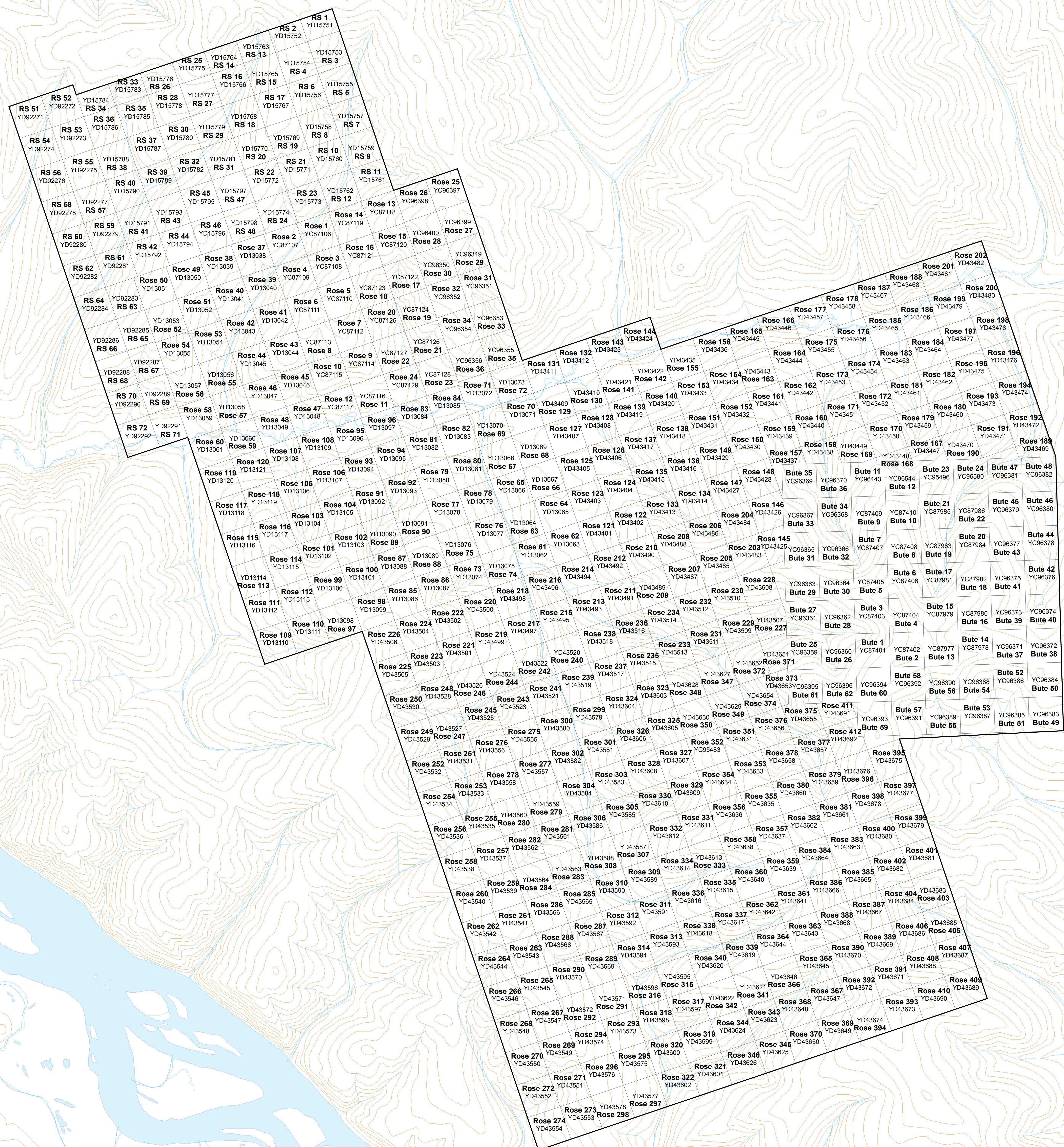
Universal Transverse Mercator Zone 7  
World Geodetic System 1984  
Scale 1:250 000



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

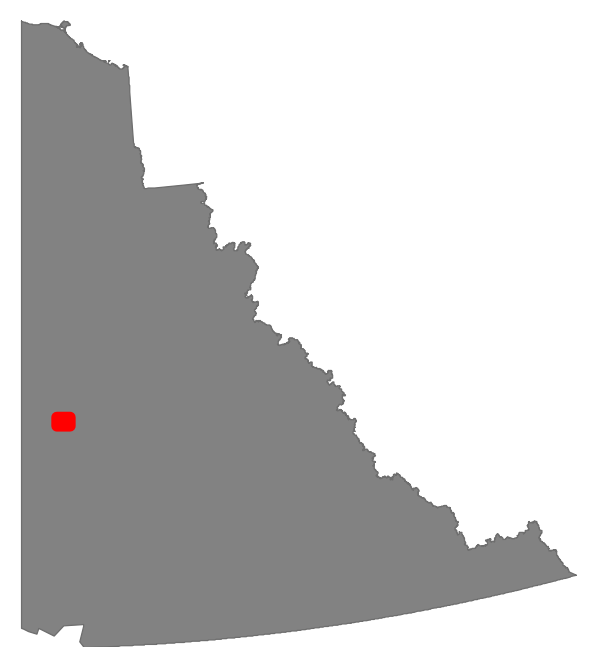
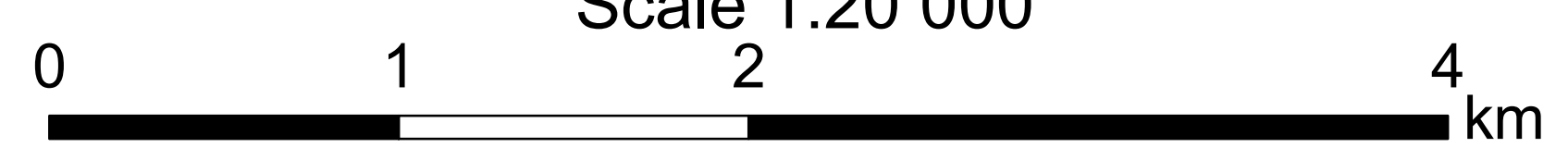






**ROSEBUTE PROPERTY**  
**Figure 2. CLAIM MAP**

Universal Transverse Mercator Zone 7  
 World Geodetic System 1984  
 Scale 1:20 000



Rosebute Property  
 Figure 2. Claim Map  
 Taku Gold Corp.  
 NTS Sheet: 1150/05, 06, 11 & 12  
 Date: November 2, 2011

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

There is no road access to the Property. Access to the claims is by helicopter, which can be chartered year round from Dawson City. The Rosebute property is located in an isolated part of Yukon with relatively few local resources or infrastructure. The Property can be worked by helicopter from Dawson City or 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 locally available including line-cutting, geophysics, drilling, assaying, aircraft charters etc.

The Property covers the headwaters of Rosebute Creek in the Dawson Range of Yukon. 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 400m to 1100m 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 work on the property. 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
Kennecott Canada Exploration Inc.	2003	094441	Roger Hulstein	Soil Geochem	<a href="#">094441</a>
Copper Ridge Explorations Inc.	2005	094511	J. Greg Dawson	Soil Geochem	<a href="#">094511</a>

There is one mineral showings documented within the area of the Property listed in Table 3 below:

Table 3 - MINFILE Showings

MINFILE No.	MINEFILE Name	Link
1150 167	LJS	<a href="#">1150 167</a>

In 2002, Kennecott carried out a soil sampling survey over and adjacent to an aeromagnetic high identified by the Geological Survey of Canada in 2001. An additional 40 claims were staked in response to the discovery of a sulfidic kill zone. (AFR No. 094441)

In 2004, Copper Ridge carried out a soil sampling, geological mapping and prospecting survey in the vicinity of a geochemical anomaly and a “sulfidic kill zone” identified by Kennecott in 2003. (AFR No. 094511).

In 2010, Taku Gold carried out a soil sampling and airborne geophysical surveys over most of the Property (Fekete and Huber, 2011).

## 6. Geology

The Property lies within the Yukon-Tanana Terrane (Figure 3) 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 most recent regional mapping and compilation work in the Stewart River area (Ryan and Gordey, 2004) indicates that the area of the Property (Figures 4 and 5) is underlain mainly by Devonian to Mississippian undivided orthogneiss (DMogg). This unit consists primarily of pink to orange k-feldspar rich granitic orthogneiss commonly with biotite, which is generally banded to layered. An eastern portion of the property is underlain by Devonian to Mississippian amphibolite schist or gneiss associated with psammite or interlayered with orthogneiss (DMA). Also in this area of the property is a Cretaceous porphyritic Granite pluton (Kg).

## 7. Deposit Types

The Property lies within an underexplored part of the loosely defined Tintina Gold Belt. This metallogical 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 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 Rosebute 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 Shawn Ryan's success on the White and Coffee properties. The Dawson Range generally shows deeply weathered, oxidized soils in an unglaciated 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. Adjacent Properties

No gold deposits are known to exist on the properties immediately adjacent to the Property. Significant gold mineralization has been reported approximately 30km south of Rosebute 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 hold of 15.5m over 17.1gpt Au at the Supremo zone (Kaminak Press Release - May 26, 2010) is located approximately 60km south from Rosebute.

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

## 9. Mineralization

Very little *in situ* mineralization has been identified on Property to date due primarily to the lack of outcrop. No significant mineralization or alteration was noted.

**Legend**

**Outboard**

**CG** Chugach

**YA** Yakutat

**Insular**

**WR** Wrangellia

**AX** Alexander

**KS** Kluane schist

**Arctic**

**AA** Arctic Alaska

**Intermontane**

**CC** Cache Creek

**ST** Stikinia

**QN** Quesnellia

**YT** Yukon-Tanana

**SM** Slide Mountain

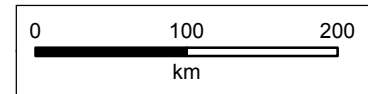
**Ancestral North America**

**CA** Cassiar

**NAb** basinal facies

**NAp** shelf facies

**NAC** craton & cover



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Yukon Geological Survey

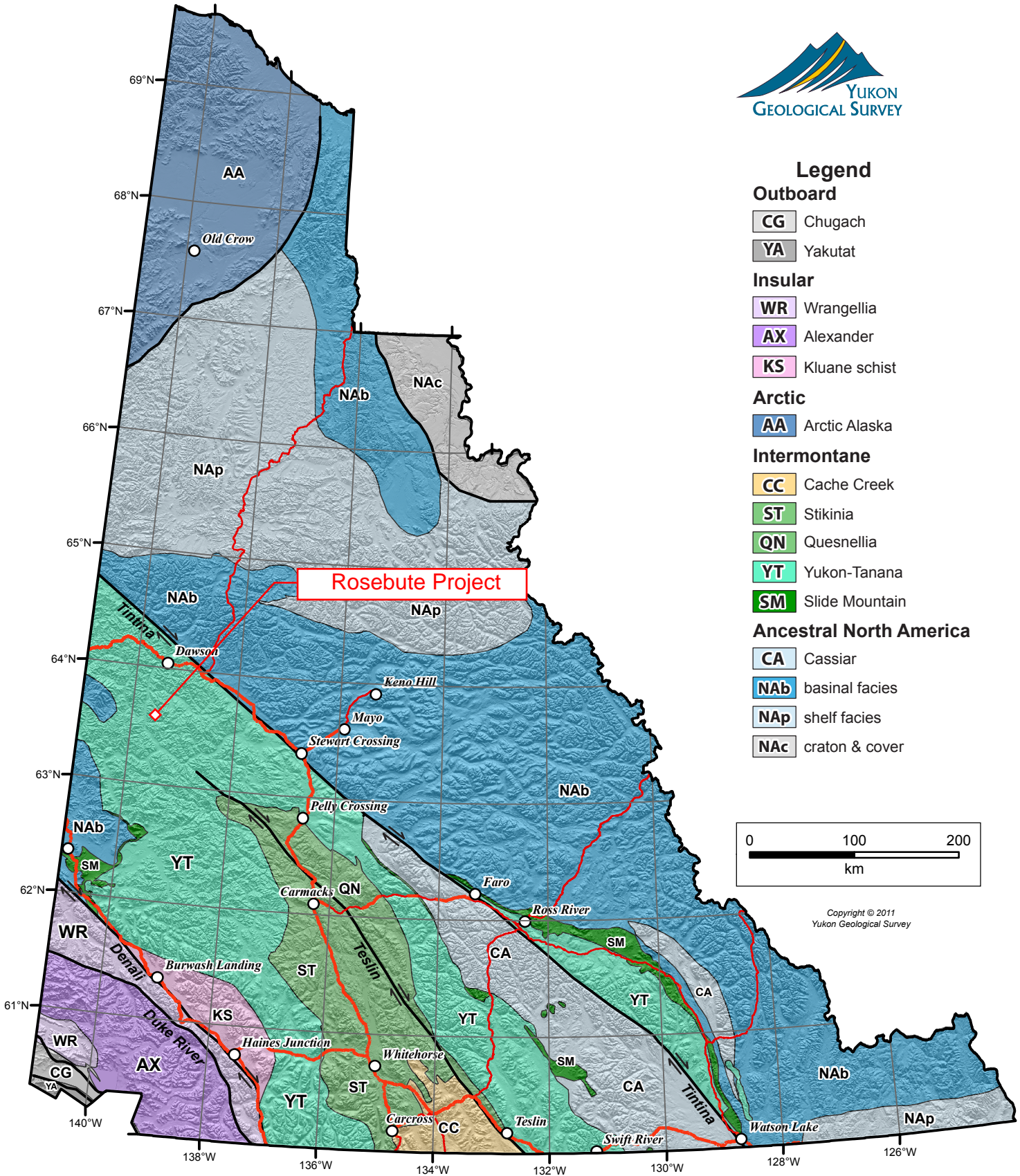
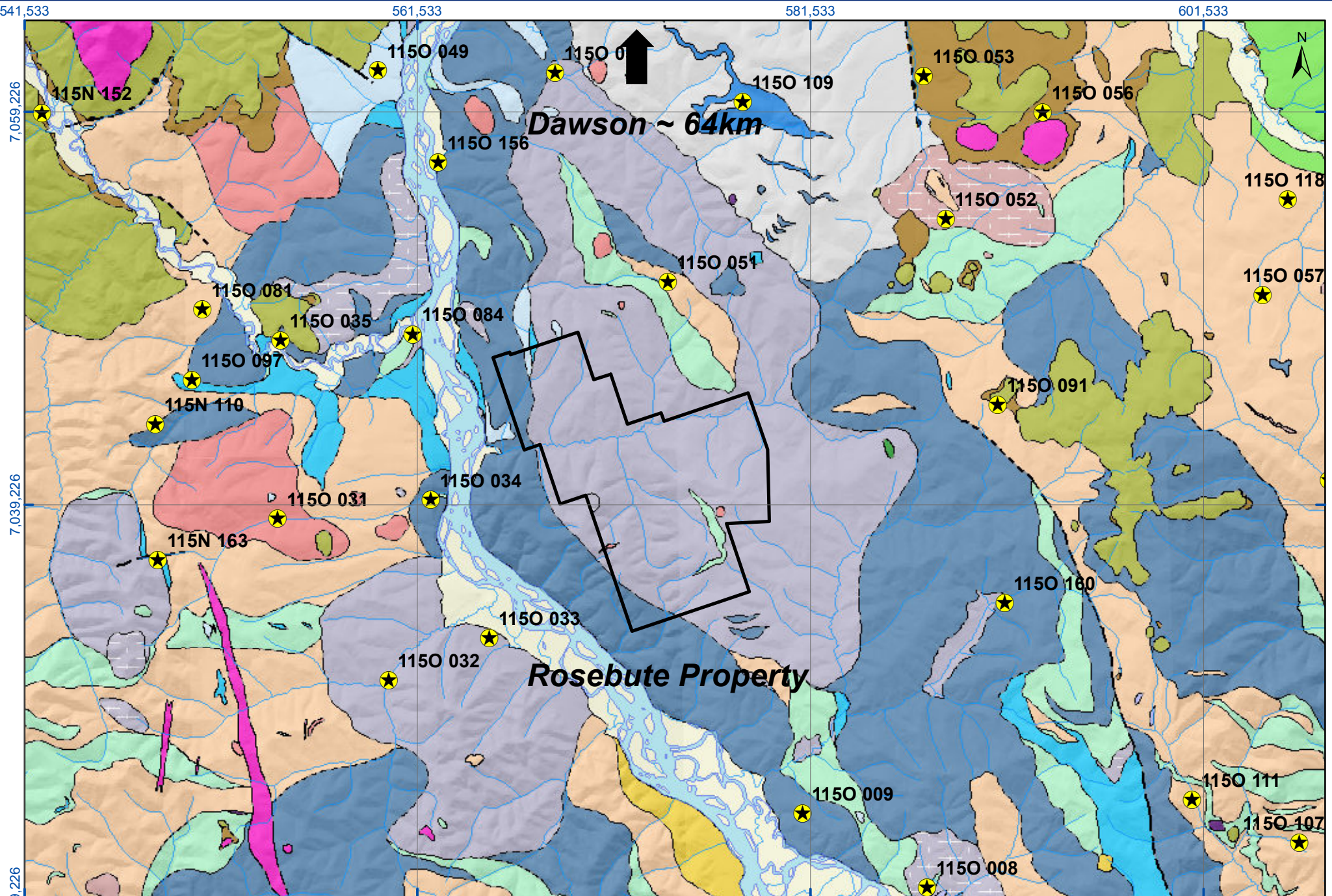


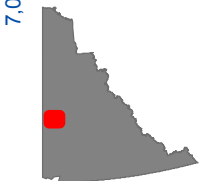
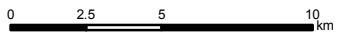
Figure 3 - Yukon Tectonic Map



**ROSEBUTE PROPERTY**  
**Figure 3. REGIONAL GEOLOGY**



★ Mineral Occurrence

Universal Transverse Mercator Zone 7  
 World Geodetic System 1984  
 Scale 1:250 000




Rosebute Property  
 Figure 3. Regional Geology  
 Taku Gold Corp.  
 NTS Sheet: 1150  
 Date: November 2, 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
--	---------------

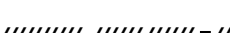
	DMps Quartz-Mica schist
---	----------------------------


	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)


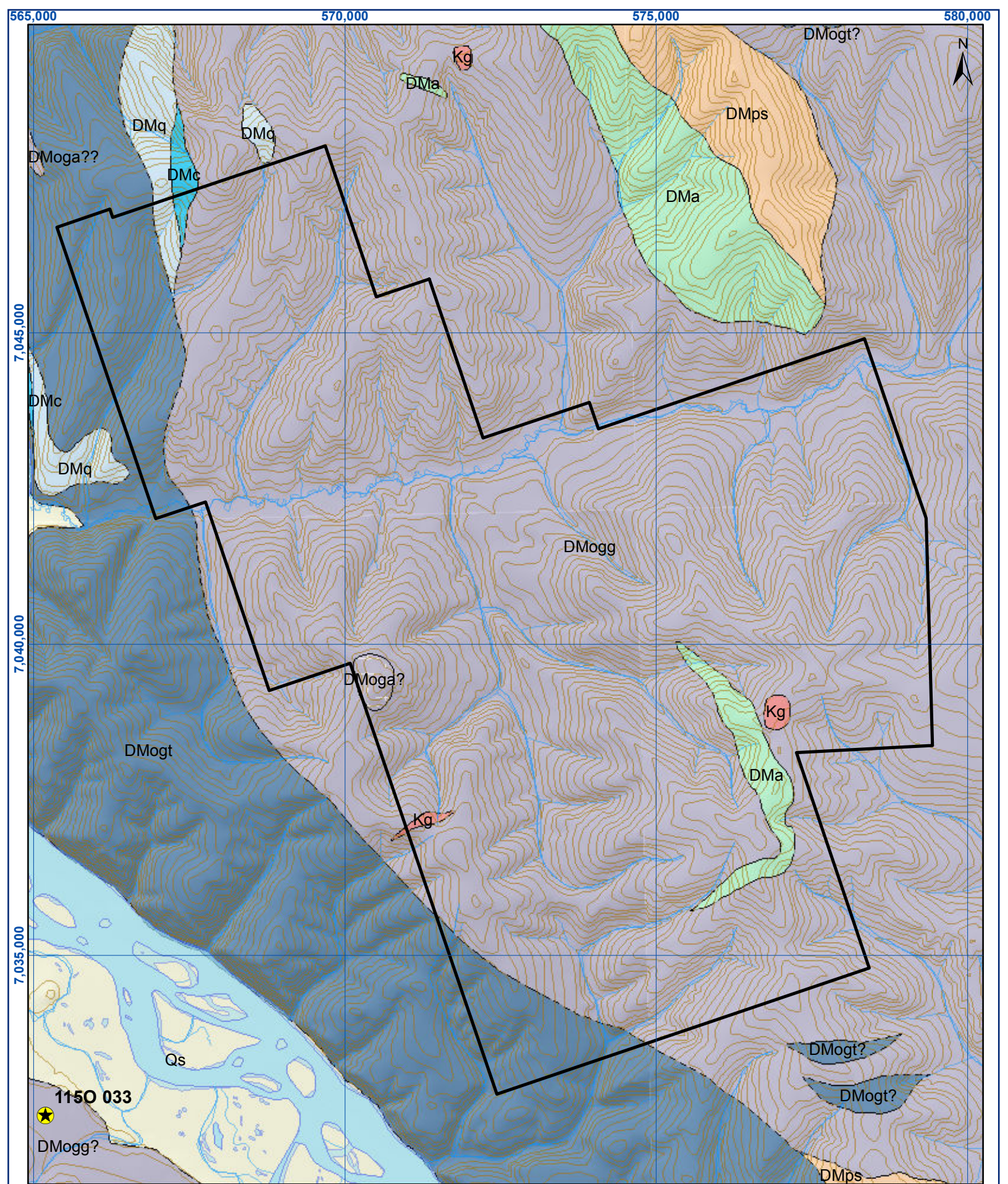
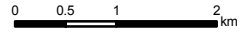
 Fault, low-angle normal  
(teeth on upper plate)  
(approximate, assumed)


Figure 3 continued. Legend for Regional Geology



**ROSEBUTE PROPERTY**  
**Figure 4. PROPERTY GEOLOGY**

Universal Transverse Mercator Zone 7  
 World Geodetic System 1984  
 Scale 1:250 000



 Mineral Occurrence

Rosebute Property  
 Figure 4. Property Geology  
 Taku Gold Corp.  
 NTS Sheet: 1150/05, 06, 11 & 12  
 Date: November 2, 2011



## **10. 2011 Exploration Work**

### **10.1. Introduction**

Exploration work in 2011 included reconnaissance, ridge and spur, deep auger-type, soil geochemical traverses over the entire Property, and a detailed soil geochemical grid over an anomalous gold area located in the northwestern part of the Property (the “Norwest” zone) outlined by grid soil sampling in 2010 (Fekete and Huber, 2011). Limited prospecting and sampling was completed as well. Field work commenced on July 6, 2011 and was completed on July 14, 2011, and the analytical work was done by Acme Analytical Laboratories Ltd. from July 21, to August 19, 2011. The Junior Author compiled the field data into digital maps and wrote this Report up to January 31, 2012. A detailed Statement of Work is included herein as Appendix A.

### **10.2. Sampling and Analytical Procedures**

The work was done on foot by crews flown in by helicopter every day from Taku’s camp on Dominion Creek located approximately 35km east of the Property. A total of 2,356 reconnaissance soil samples were taken with hand augers at 50m intervals on predetermined GPS ridge and spur traverses. These samples were taken to provide preliminary coverage over parts of the property not sampled in 2010. On the Norwest zone, an additional 457 soil samples were taken between the 2010 grid lines in order to obtain a density of 50m sample stations on lines spaced at 50m apart.

Sample locations were tagged in the field and recorded with HP iPAQ 200 series field computers running GeoInfoMobile and Tierra Mapper software paired with Holux GPS receivers in map datum UTM NAD 83 Zone 7. Sample locations (Figure 6, 7 and 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 20 to 120cm with an average depth of 60cm.

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.

### **10.3. Data Verification**

It is the Authors’ opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the soil samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Authors have relied upon the adequacy and accuracy of the analytical results provided by Acme. Independent verification of those results has not been undertaken. The Junior Author reconciled the field data with the analytical results and found 29 discrepancies (samples 103749, 104744-104745, 110375-110399 and 113317). It appears as if these samples were not collected in the field and/or not shipped to Acme as no analytical results were received. Accordingly these samples were eliminated from the database.

### **10.4. Results**

The soil samples returned gold values ranging from below the detection limit (i.e. <5 parts per billion gold) to a maximum of 1,343ppb Au (Figure 9). Excellent results were obtained over the Norwest grid where a 200-hectare gold-in-soil zone was better defined. The 2011 results were well above the 2010 results and three distinct gold anomalies were delineated. The first anomaly is located in the northern part of the gridded area. It is well defined over an east trending length of 900m and shows maximum values up to 212 parts per billion gold (ppb Au) or 0.2 grams per tonne gold (gpt Au). The second anomaly is located in the southern part of the gridded area. It is well defined over an east trending length of 500m and shows maximum values up to 1,343ppb Au or 1.3gpt Au. The third anomaly is located in the eastern part of the gridded area. It is well defined over an east trending length of 450m and shows maximum values up to 254ppb Au or 0.3gpt Au. The first and third anomalies line up in a west to east trend and may in fact



identify one gold-bearing zone up to 1.8km long. More work will have to be done to establish if this is a valid interpretation.

The reconnaissance ridge and spur sampling also returned encouraging results. A gold value of 3,430ppb or 3.4gpt Au was returned from a sample collected approximately 3km north of the Norwest zone, and a small cluster of anomalous gold results was also identified 2.4 km southeast of the Norwest zone with maximum values up to 491ppb or 0.5gpt Au.

## 11. Mineral Processing and Metallurgical Testing

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

## 12. Mineral Resource and Mineral Reserve Estimates

To date no mineral resource or mineral reserve estimates have been completed at Rosebute. 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

For the purpose of interpretation, the 2010 and 2011 soil geochemical results were compiled into a single database, and a statistical study of gold, silver, arsenic and antimony was completed. Sample results less than the detection limit of a given metal were entered as half the detection limit (e.g. Au entered at 2.5 ppb or ½ detection limit of 5ppb Au). The silver, arsenic and antimony results were classified by percentile breaks into a) < 70<sup>th</sup> percentile below background; b) ≥ 70<sup>th</sup> percentile above background; c) ≥ 90<sup>th</sup> percentile weakly anomalous; ≥ 95<sup>th</sup> percentile moderately anomalous; and e) ≥ 98<sup>th</sup> percentile strongly anomalous. For gold, arbitrary breaks\* based on Breakaway’s ~40,000 point Yukon database were used.

**Table 4 - Anomalous Results**

<b>Metal</b>	<b>Max.</b>	<b>70<sup>th</sup> %tile</b>	<b>90<sup>th</sup> %tile</b>	<b>95<sup>th</sup> %tile</b>	<b>98<sup>th</sup> %tile</b>
Ag ppm	17.3	0.1	0.2	0.3	0.5
As ppm	635.9	7.1	9.4	10.6	13.2
Sb ppm	33.2	0.6	1.0	1.6	2.8
Au ppb	3430.3	3.2	6.7	10.6	19.3
Au ppb*	3430.3	10	20	30	60

The soil geochemical data was interpolated into MapInfo/Discover which allowed for the data to be spatially represented as interactive grids by point range method for gold, and inverse distance weighting for silver, arsenic and antimony. The data was contoured and anomalous areas outlined on the Norwest zone (Figure 10). Finally the soil geochemical data was compared to the 2010 airborne magnetic and radiometric data (Figures 11 and 12) to see if there were any coincident trends.

Gold shows excellent overall correlation with silver and/or arsenic and/or antimony. Although these metals do not correspond perfectly, together they point to several strong targets for testing by trenching and drilling. Moreover, Norwest zone sits on the margins of two rounded total count radiometric anomalies (Figure 11), and there is prominent magnetic high that cuts at approximately 100° through the most anomalous part of the area. In summary, the Norwest zone is an excellent, very prospective area for gold mineralization.

The two new target areas identified by the 2011 reconnaissance ridge and spur sampling do not have enough data points to merit trenching and/or drilling at this time. However both areas show very strong initial gold values and deserve to be covered with detailed soil grids.

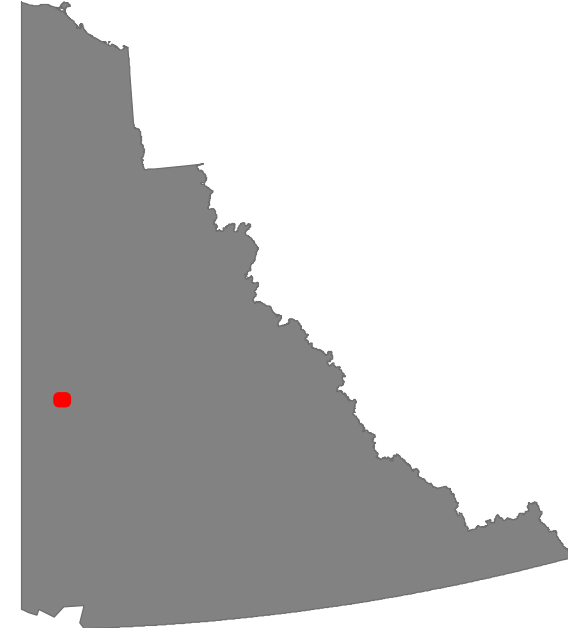
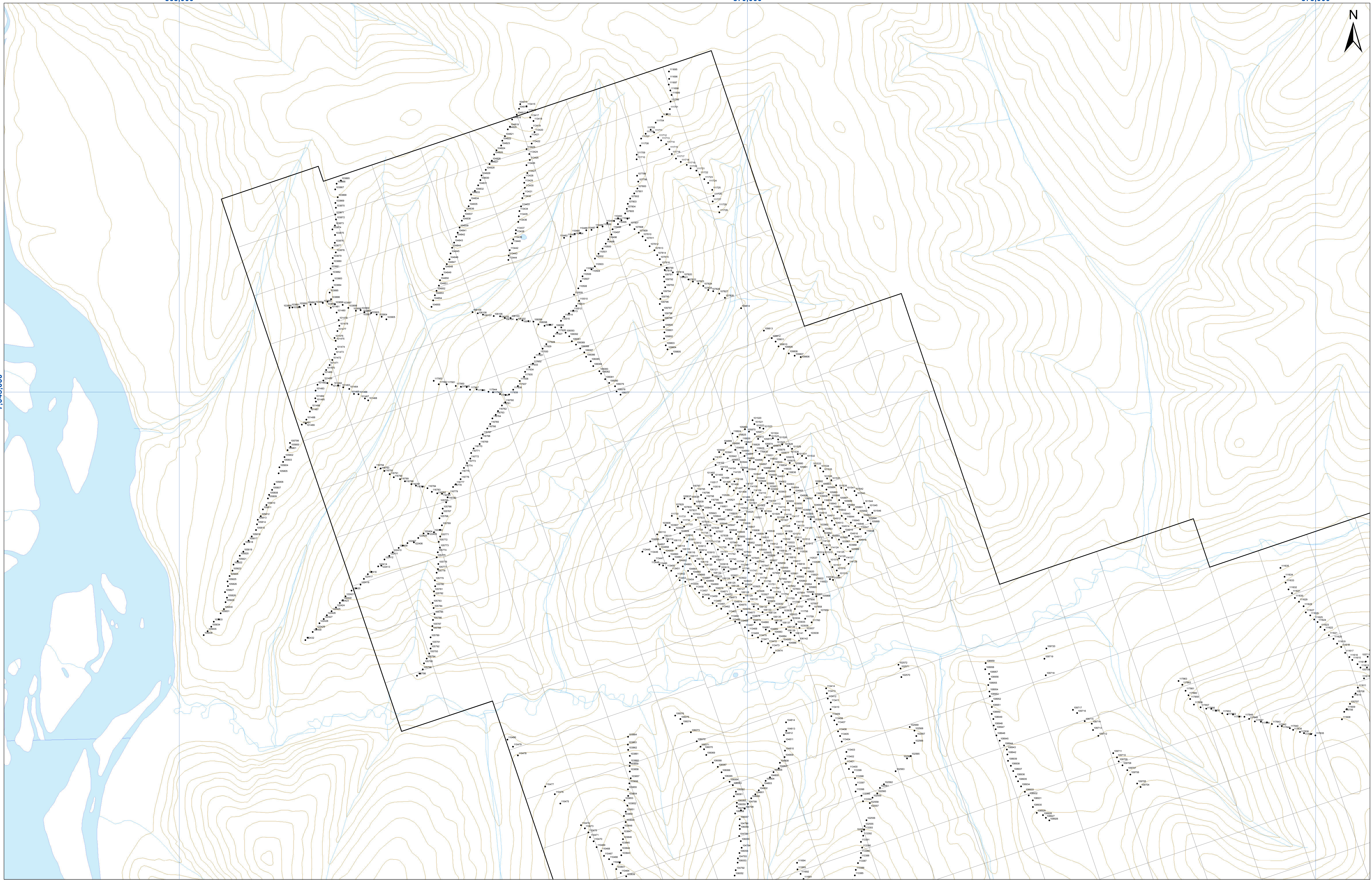
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570,000

575,000

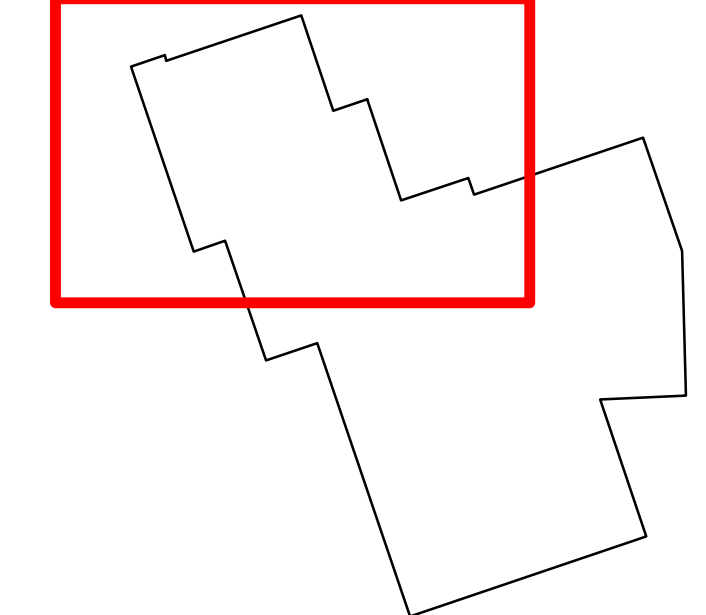
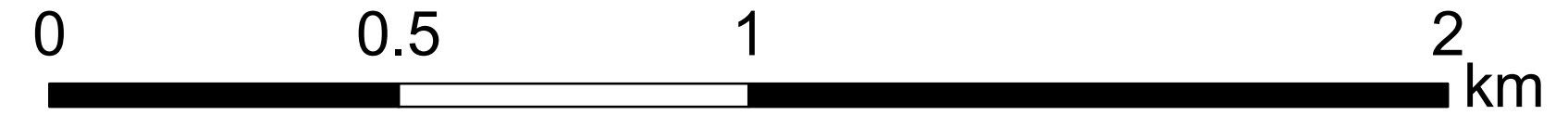


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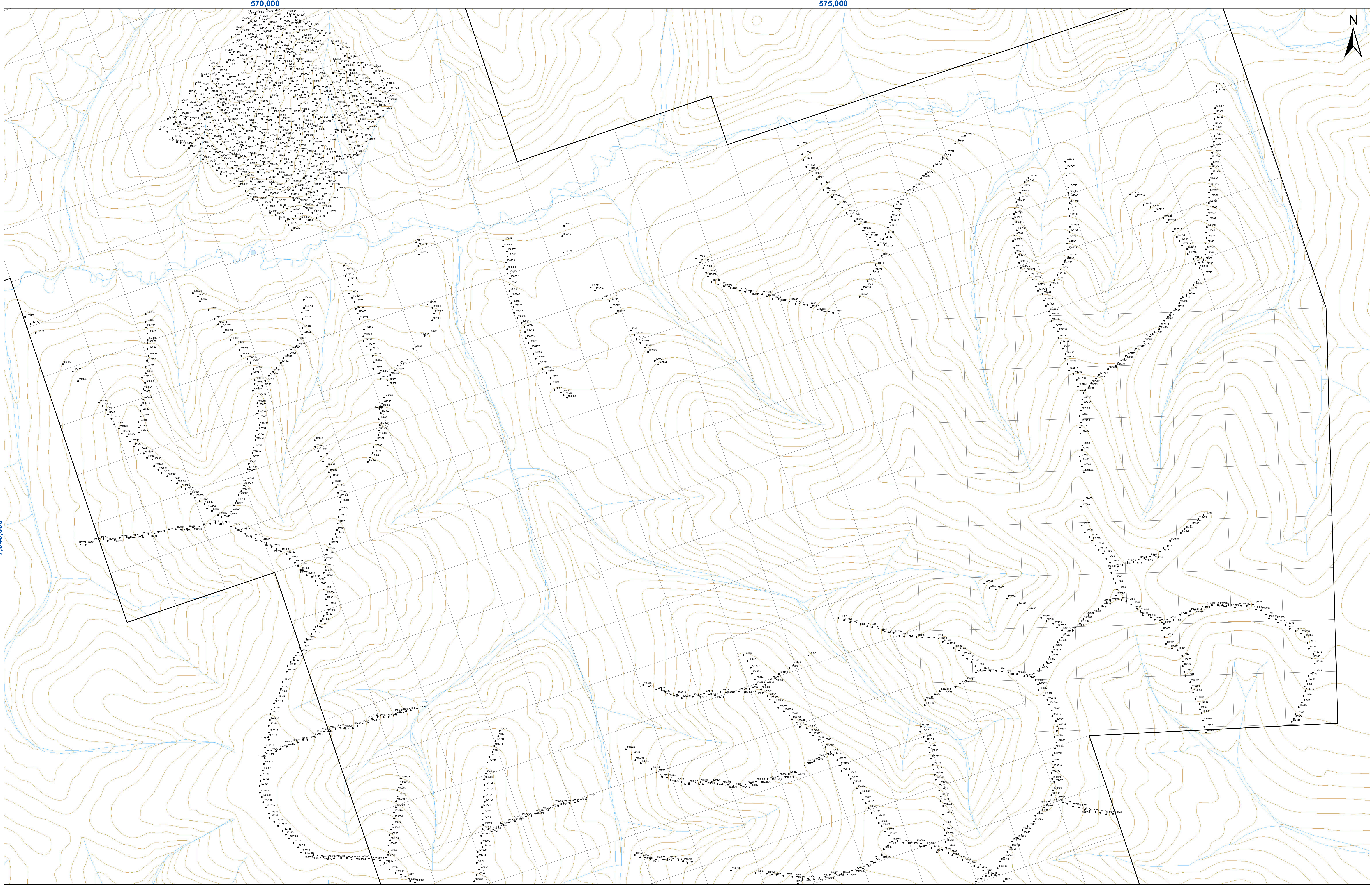


**ROSEBUTE PROPERTY**  
**Figure 5. SAMPLE LOCATIONS I**

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



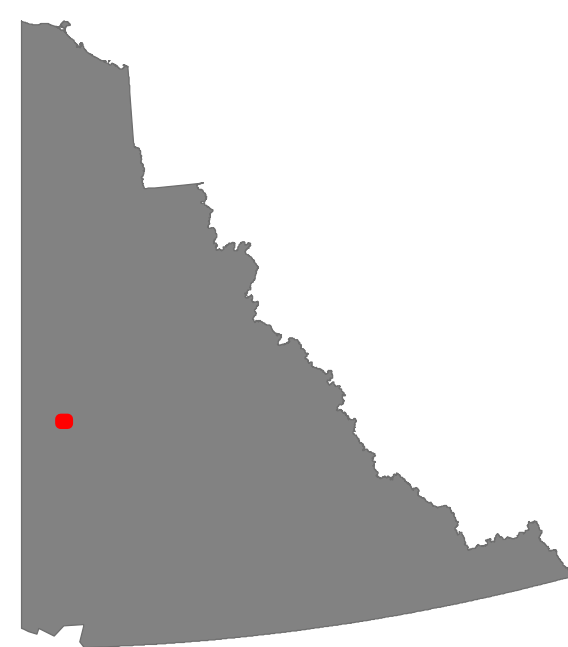
Rosebute Property  
Figure 5. Sample Locations I  
Taku Gold Corp.  
NTS Sheet: 1150/05, 06, 11 & 12  
Date: November 2, 2011



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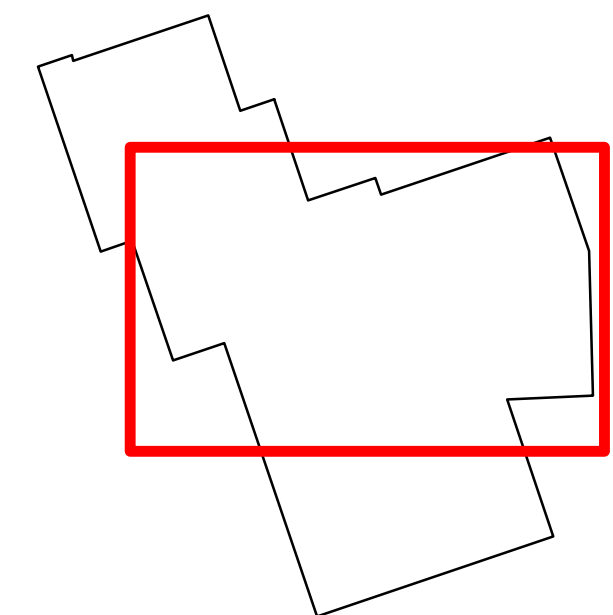
570,000

575,000



**ROSEBUTE PROPERTY**  
**Figure 6. SAMPLE LOCATIONS II**

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



Rosebute Property  
 Figure 6. Sample Locations II  
 Taku Gold Corp.  
 NTS Sheet: 1150/05, 06, 11 & 12  
 Date: November 2, 2011

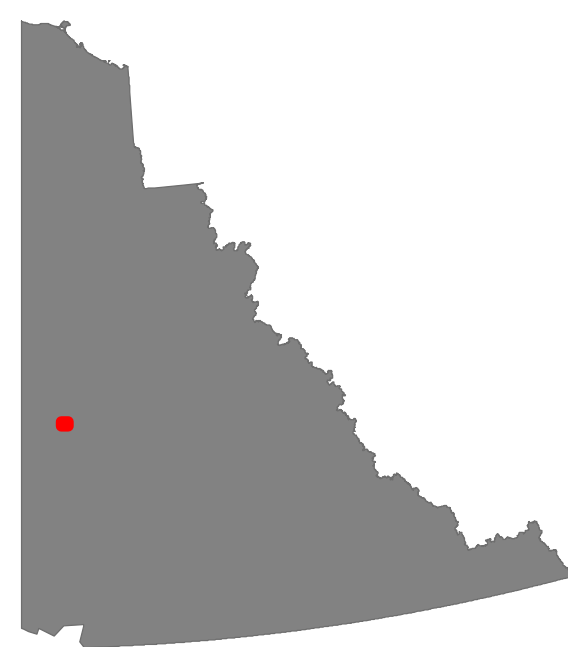
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575,000

580,000

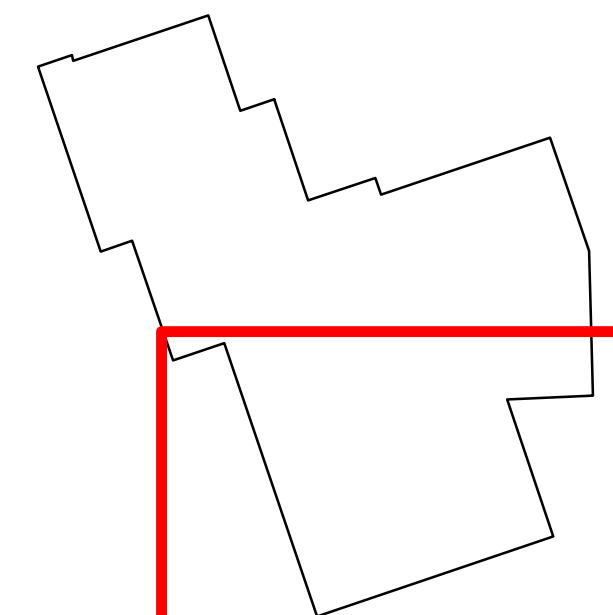
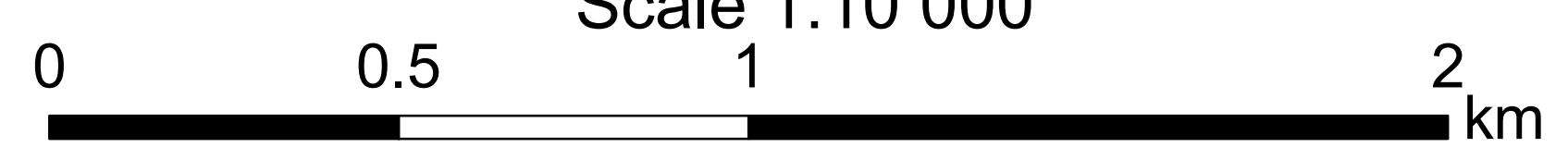


7,035,000

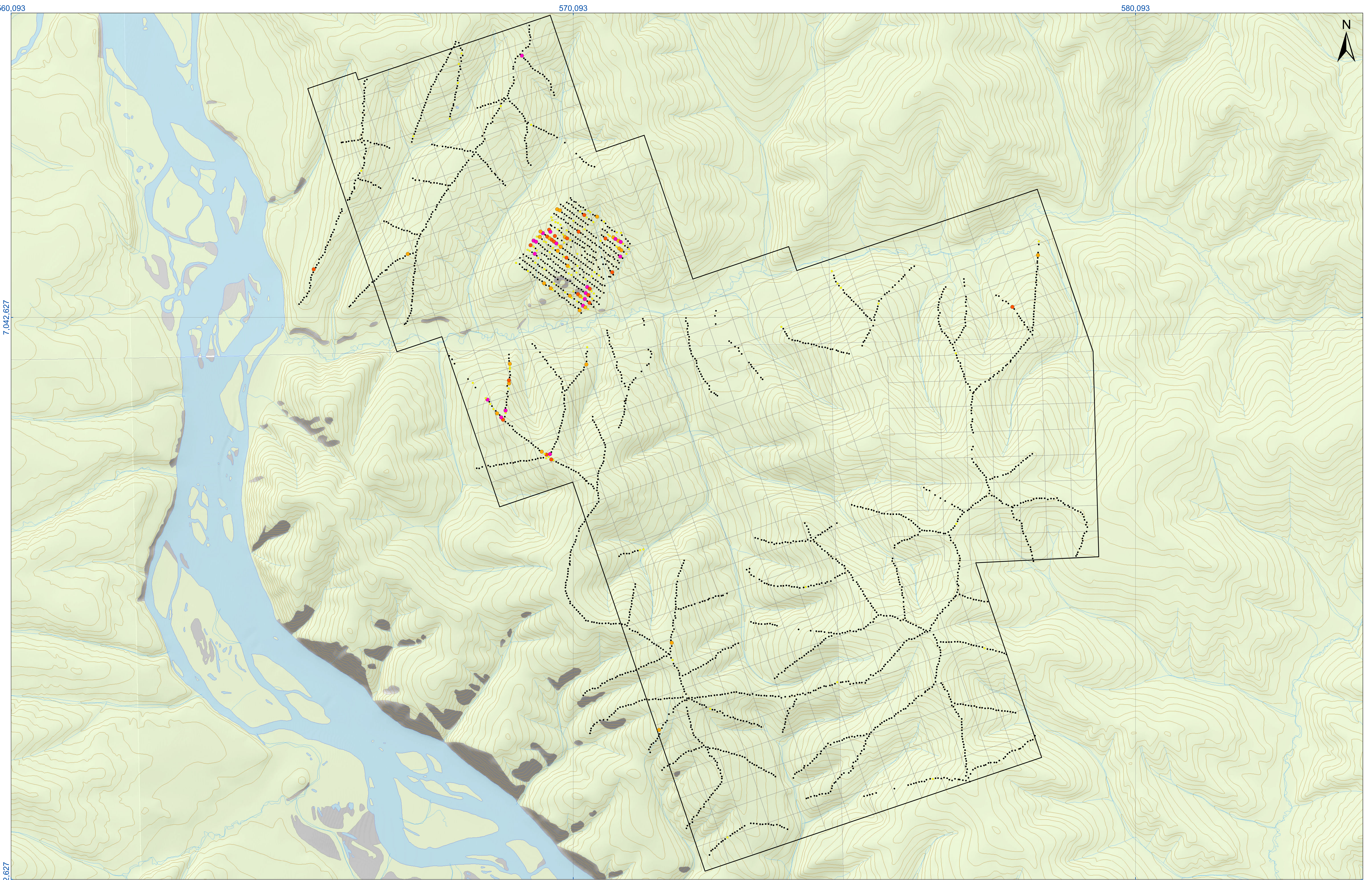


**ROSEBUTE PROPERTY**  
**Figure 7. SAMPLE LOCATIONS III**

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



Rosebute Property  
Figure 7. Sample Locations III  
Taku Gold Corp.  
NTS Sheet: 1150/05, 06, 11 & 12  
Date: November 2, 2011



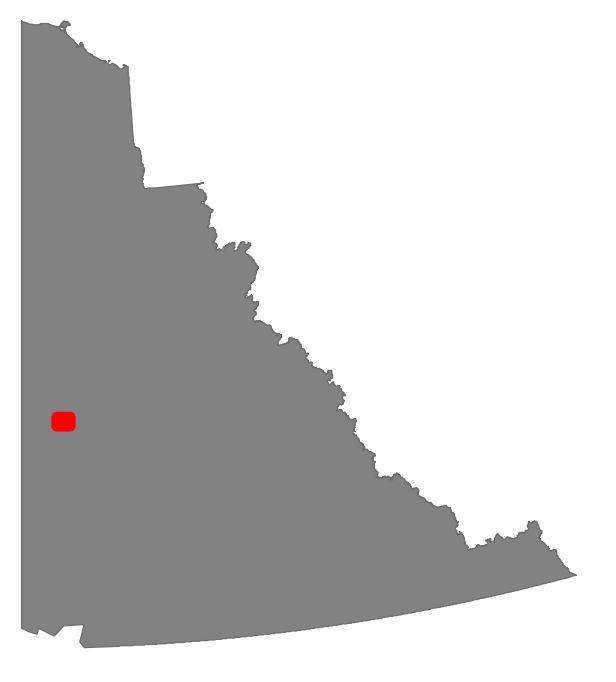
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570,093

580,093

7,042,627

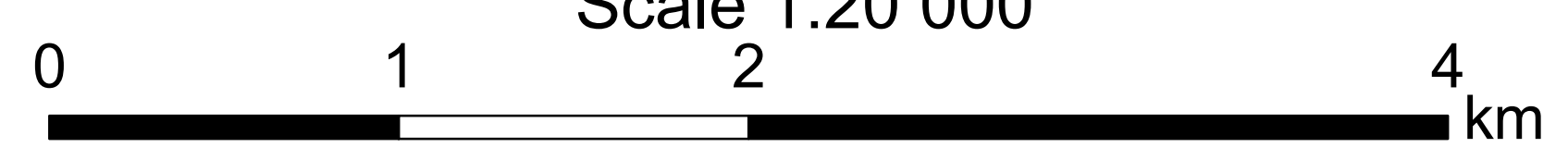
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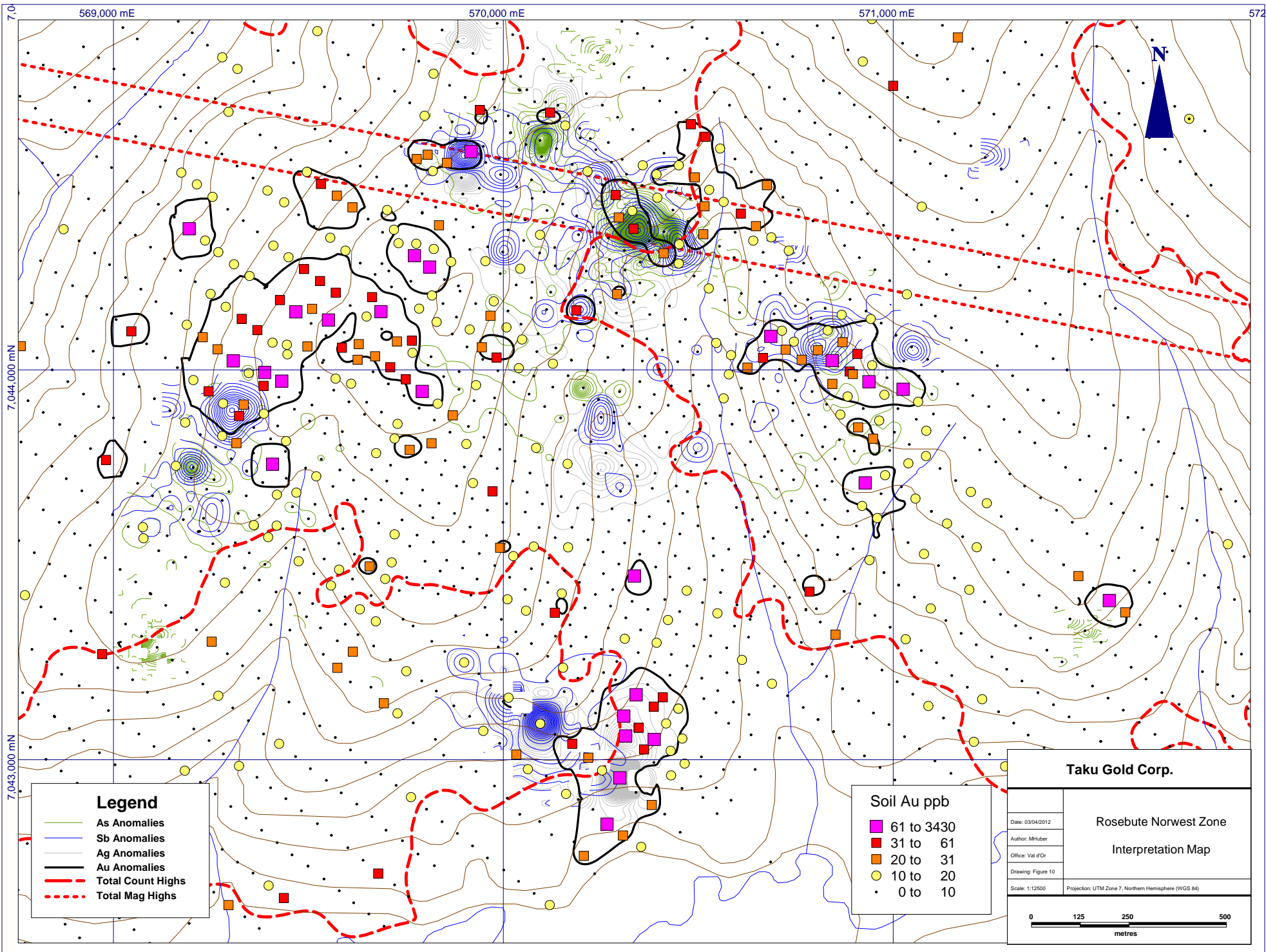
- Soil Au ppb**
- 0 - 10
  - 10 - 20
  - 20 - 30
  - 30 - 60
  - > 60

**ROSEBUTE PROPERTY**  
**Figure 8. DETAILED GOLD ANOMOLY MAP**

Universal Transverse Mercator Zone 7  
 World Geodetic System 1984  
 Scale 1:20 000

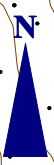


Rosebute Property  
 Figure 8. Detailed Gold Anomaly Map  
 Taku Gold Corp.  
 NTS Sheet: 1150/05, 06, 11 & 12  
 Date: November 2, 2011



7,044,000 mN  
7,043,000 mN

569,000 mE 570,000 mE 571,000 mE 572



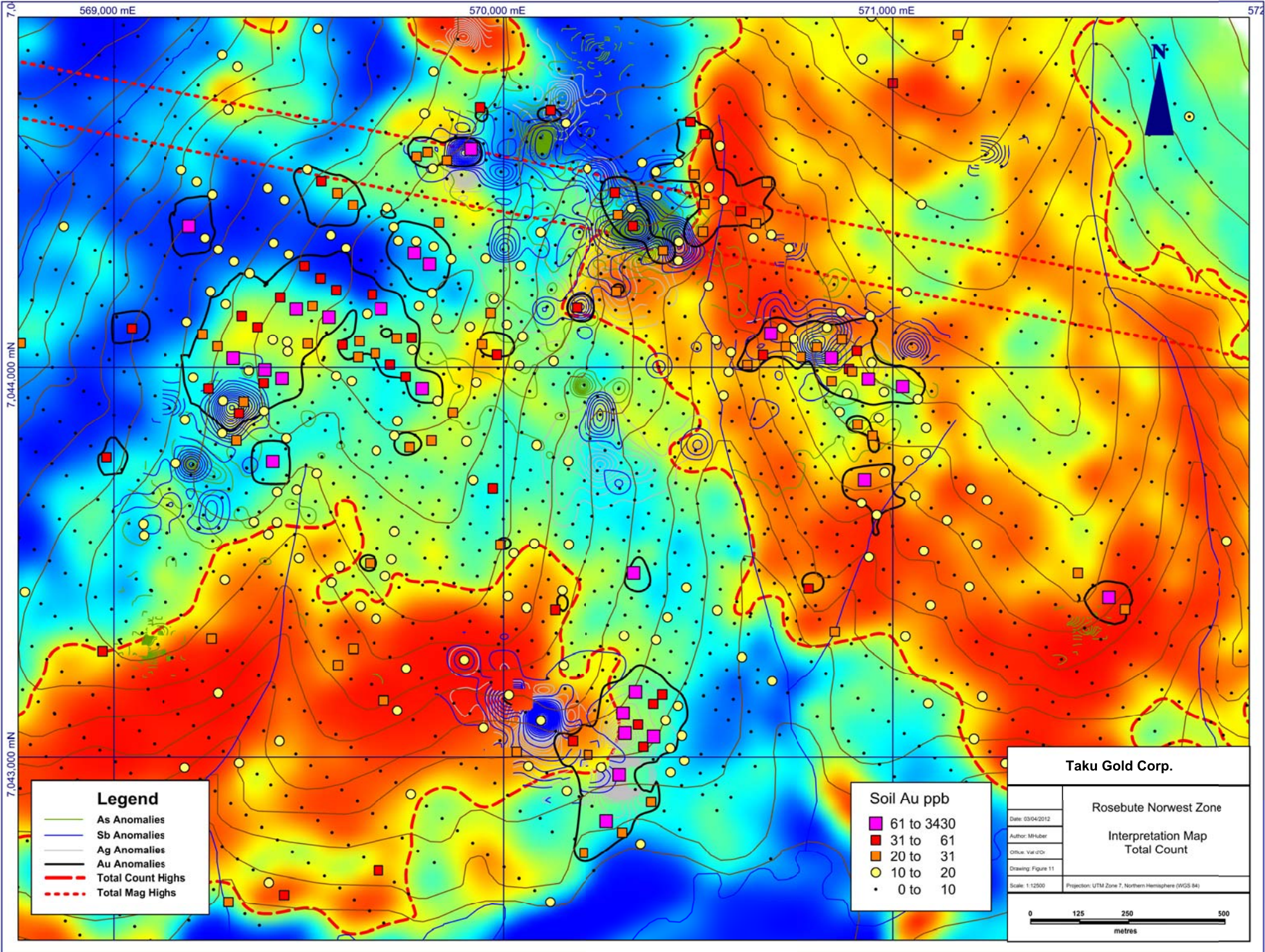
**Legend**

- As Anomalies
- Sb Anomalies
- Ag Anomalies
- Au Anomalies
- - - Total Count Highs
- - - Total Mag Highs

**Soil Au ppb**

- 61 to 3430
- 31 to 61
- 20 to 31
- 10 to 20
- 0 to 10

<b>Taku Gold Corp.</b>	
Date: 03/04/2012	Rosebute Norwest Zone
Author: MHuber	Interpretation Map
Office: Val d'Or	
Drawing: Figure 10	
Scale: 1:12500	Projection: UTM Zone 7, Northern Hemisphere (WGS 84)



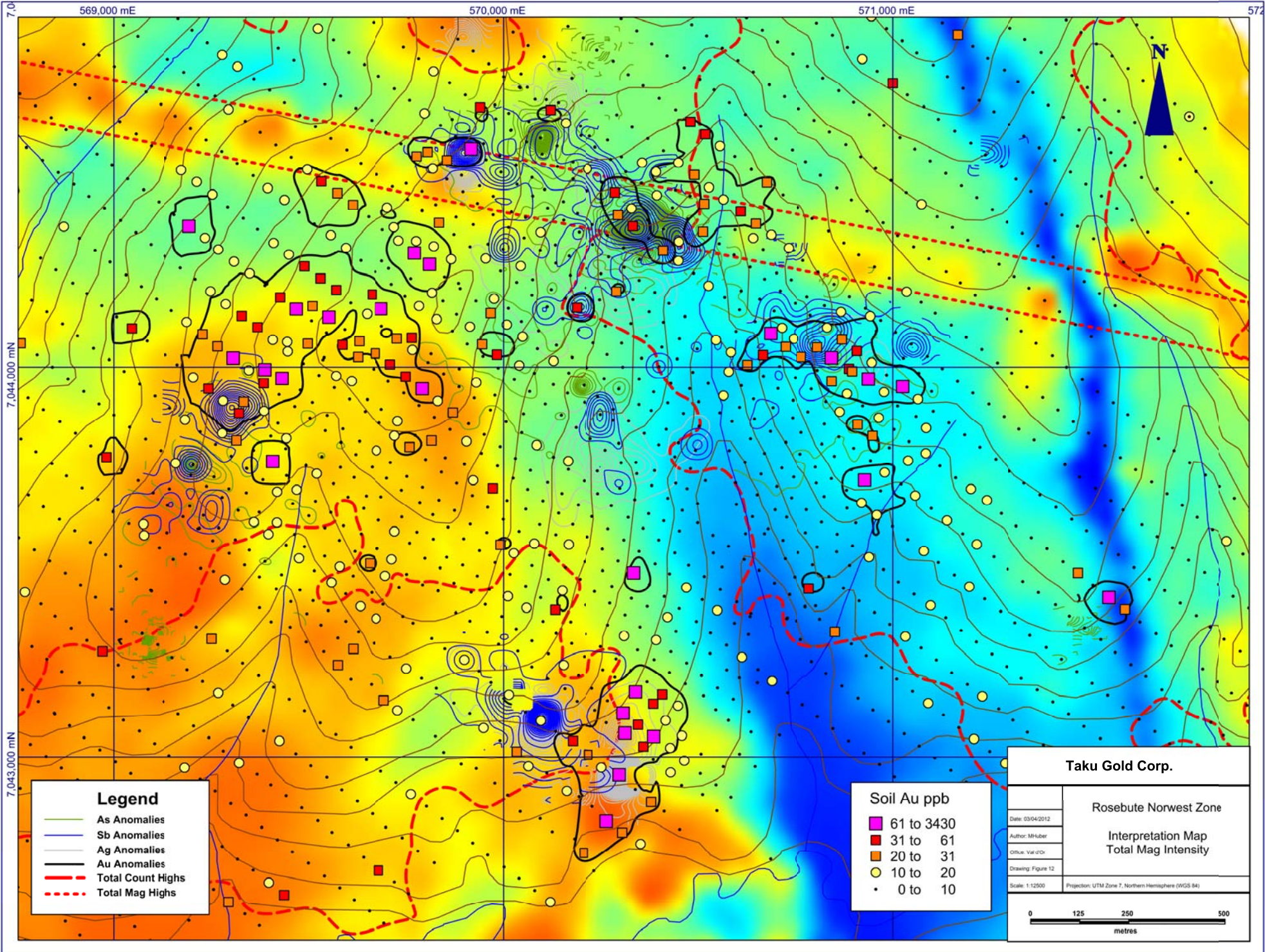
**Legend**

- As Anomalies
- Sb Anomalies
- Ag Anomalies
- Au Anomalies
- Total Count Highs
- Total Mag Highs

**Soil Au ppb**

- 61 to 3430
- 31 to 61
- 20 to 31
- 10 to 20
- 0 to 10

<b>Taku Gold Corp.</b>	
Rosebute Norwest Zone	
Interpretation Map Total Count	
Date: 03/04/2012	Author: MHuber
Offici: Val O'D	Drawing: Figure 11
Scale: 1:12500	Projection: UTM Zone 7, Northern Hemisphere (WGS 84)





## 15. Recommendations

The surface work met its primary goal of outlining geochemical trends that may potentially be gold-bearing structures. It is the Senior Author's opinion that the Rosebute property is of sufficient merit to recommend that further surface exploration work continue. It is recommended that work be concentrated on the Norwest zone starting with prospecting, followed by trenching and finally drilling for a total estimated cost of \$570,000. Detailed soil sampling and possibly trenching will also be undertaken at the two new gold targets mentioned above at an estimated cost of \$30,000. The total estimated cost of the 2012 work program is \$600,000, which includes 15% for contingencies due to weather, shortage of contractors, equipment breakdown etc. The recommended program is outlined in the following table:

**Table 5 - Cost Estimate 2012**

Soil Survey	500	samples @	\$60	\$30,000
Trenching	10	days @	\$2,000	\$20,000
Prospecting	10	days @	\$1,000	\$10,000
Drilling	900	m @	\$600	\$540,000
Total				\$600,000

## 16. References

- 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).
- Fekete, M. and Huber, M. (2011): Report on the Surface Work Performed from July 6, 2011 to August 19, 2011 on the Rosebute Property by Taku Gold Corp. (unpubl.)

## **Appendix A - Statement of Work Expenditures**

I, \_\_\_\_\_,  
TAKU GOLD CORP.  
\_\_\_\_\_

of 680 Third Ave., Suite 203 Val d'Or, Quebec J9P 1S5  
\_\_\_\_\_

Phone 819 874 8182  
\_\_\_\_\_

make oath and say that:

Office Date Stamp

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- 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 of claims  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

situated at Headwaters of Rosebute Creek Claim sheet No. 115005, 006, 011, & 012

in the Dawson Mining District, to the value of at least \$143,271.79 dollars,

since the 1<sup>st</sup> day of April 2011,

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

See attached list of claims  
\_\_\_\_\_  
Please group all claims.  
\_\_\_\_\_  
Please renew and common date all claims to March 9, 2017  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- 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).

8180-sample soil geochemical survey  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sworn before me at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_.

\_\_\_\_\_  
Notary Public Owner or Authorized Agent

Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Renewal		
	Grant No.	Claim Name	Claim No.	Expiry Date		Years	Annual Fee	Total
Quartz	YC87401	Bute	1	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87402	Bute	2	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87403	Bute	3	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87404	Bute	4	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87405	Bute	5	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87406	Bute	6	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87407	Bute	7	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87408	Bute	8	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87409	Bute	9	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87410	Bute	10	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96443	Bute	11	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96544	Bute	12	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87977	Bute	13	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
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Quartz	YC96393	Bute	59	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96394	Bute	60	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96395	Bute	61	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96396	Bute	62	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87106	Rose	1	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87107	Rose	2	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87108	Rose	3	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87109	Rose	4	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87110	Rose	5	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87111	Rose	6	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87112	Rose	7	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87113	Rose	8	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87114	Rose	9	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87115	Rose	10	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87116	Rose	11	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87117	Rose	12	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87118	Rose	13	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87119	Rose	14	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87120	Rose	15	25-Mar-15		2	\$ 5.00	\$ 10.00

Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Years	Renewal	
	Grant No.	Claim Name	Claim No.	Expiry Date			Annual Fee	Total
Quartz	YC87121	Rose	16	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87122	Rose	17	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87123	Rose	18	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87124	Rose	19	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87125	Rose	20	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87126	Rose	21	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87127	Rose	22	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC87128	Rose	23	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC87129	Rose	24	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96397	Rose	25	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96398	Rose	26	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96399	Rose	27	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96400	Rose	28	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96349	Rose	29	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96350	Rose	30	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96351	Rose	31	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96352	Rose	32	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96353	Rose	33	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96354	Rose	34	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC96355	Rose	35	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YC96356	Rose	36	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13038	Rose	37	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13039	Rose	38	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13040	Rose	39	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13041	Rose	40	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13042	Rose	41	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13043	Rose	42	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13044	Rose	43	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13045	Rose	44	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13046	Rose	45	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13047	Rose	46	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13048	Rose	47	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13049	Rose	48	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13050	Rose	49	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13051	Rose	50	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13052	Rose	51	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13053	Rose	52	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13054	Rose	53	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13055	Rose	54	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13056	Rose	55	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13057	Rose	56	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13058	Rose	57	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13059	Rose	58	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13060	Rose	59	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13061	Rose	60	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13062	Rose	61	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13063	Rose	62	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13064	Rose	63	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13065	Rose	64	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13066	Rose	65	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13067	Rose	66	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13068	Rose	67	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13069	Rose	68	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13070	Rose	69	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13071	Rose	70	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13072	Rose	71	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13073	Rose	72	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13074	Rose	73	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13075	Rose	74	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13076	Rose	75	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13077	Rose	76	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13078	Rose	77	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13079	Rose	78	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13080	Rose	79	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13081	Rose	80	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13082	Rose	81	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13083	Rose	82	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13084	Rose	83	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13085	Rose	84	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13086	Rose	85	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13087	Rose	86	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13088	Rose	87	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13089	Rose	88	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13090	Rose	89	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13091	Rose	90	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13092	Rose	91	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13093	Rose	92	25-Mar-15		2	\$ 5.00	\$ 10.00

Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Years	Renewal	
	Grant No.	Claim Name	Claim No.	Expiry Date			Annual Fee	Total
Quartz	YD13094	Rose	93	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13095	Rose	94	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13096	Rose	95	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13097	Rose	96	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13098	Rose	97	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13099	Rose	98	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13100	Rose	99	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13101	Rose	100	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13102	Rose	101	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13103	Rose	102	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13104	Rose	103	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13105	Rose	104	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13106	Rose	105	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13107	Rose	106	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13108	Rose	107	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13109	Rose	108	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13110	Rose	109	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13111	Rose	110	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13112	Rose	111	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13113	Rose	112	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13114	Rose	113	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13115	Rose	114	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13116	Rose	115	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD13117	Rose	116	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13118	Rose	117	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13119	Rose	118	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13120	Rose	119	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD13121	Rose	120	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43401	Rose	121	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43402	Rose	122	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43403	Rose	123	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43404	Rose	124	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43405	Rose	125	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43406	Rose	126	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43407	Rose	127	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43408	Rose	128	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43409	Rose	129	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43410	Rose	130	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43411	Rose	131	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43412	Rose	132	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43413	Rose	133	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43414	Rose	134	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43415	Rose	135	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43416	Rose	136	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43417	Rose	137	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43418	Rose	138	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43419	Rose	139	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43420	Rose	140	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43421	Rose	141	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43422	Rose	142	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43423	Rose	143	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43424	Rose	144	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43425	Rose	145	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43426	Rose	146	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43427	Rose	147	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43428	Rose	148	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43429	Rose	149	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43430	Rose	150	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43431	Rose	151	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43432	Rose	152	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43433	Rose	153	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43434	Rose	154	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43435	Rose	155	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43436	Rose	156	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43437	Rose	157	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43438	Rose	158	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43439	Rose	159	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43440	Rose	160	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43441	Rose	161	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43442	Rose	162	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43443	Rose	163	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43444	Rose	164	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43445	Rose	165	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43446	Rose	166	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43447	Rose	167	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43448	Rose	168	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43449	Rose	169	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00

Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Years	Renewal	
	Grant No.	Claim Name	Claim No.	Expiry Date			Annual Fee	Total
Quartz	YD43450	Rose	170	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43451	Rose	171	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43452	Rose	172	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43453	Rose	173	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43454	Rose	174	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43455	Rose	175	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43456	Rose	176	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43457	Rose	177	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43458	Rose	178	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43459	Rose	179	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43460	Rose	180	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43461	Rose	181	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43462	Rose	182	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43463	Rose	183	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43464	Rose	184	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43465	Rose	185	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43466	Rose	186	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43467	Rose	187	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43468	Rose	188	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43469	Rose	189	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43470	Rose	190	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43471	Rose	191	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43472	Rose	192	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43473	Rose	193	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43474	Rose	194	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43475	Rose	195	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43476	Rose	196	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43477	Rose	197	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43478	Rose	198	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43479	Rose	199	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43480	Rose	200	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43481	Rose	201	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43482	Rose	202	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43483	Rose	203	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43484	Rose	204	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43485	Rose	205	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43486	Rose	206	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43487	Rose	207	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43488	Rose	208	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43489	Rose	209	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43490	Rose	210	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43491	Rose	211	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43492	Rose	212	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43493	Rose	213	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43494	Rose	214	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43495	Rose	215	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43496	Rose	216	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43497	Rose	217	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43498	Rose	218	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43499	Rose	219	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43500	Rose	220	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43501	Rose	221	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43502	Rose	222	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43503	Rose	223	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43504	Rose	224	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43505	Rose	225	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43506	Rose	226	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43507	Rose	227	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43508	Rose	228	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43509	Rose	229	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43510	Rose	230	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43511	Rose	231	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43512	Rose	232	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43513	Rose	233	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43514	Rose	234	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43515	Rose	235	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43516	Rose	236	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43517	Rose	237	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43518	Rose	238	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43519	Rose	239	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43520	Rose	240	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43521	Rose	241	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43522	Rose	242	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43523	Rose	243	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43524	Rose	244	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43525	Rose	245	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43526	Rose	246	25-Mar-15		2	\$ 5.00	\$ 10.00

Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Years	Renewal	
	Grant No.	Claim Name	Claim No.	Expiry Date			Annual Fee	Total
Quartz	YD43527	Rose	247	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43528	Rose	248	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43529	Rose	249	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43530	Rose	250	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43531	Rose	251	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43532	Rose	252	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43533	Rose	253	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43534	Rose	254	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43535	Rose	255	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43536	Rose	256	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43537	Rose	257	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43538	Rose	258	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43539	Rose	259	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43540	Rose	260	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43541	Rose	261	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43542	Rose	262	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43543	Rose	263	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43544	Rose	264	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43545	Rose	265	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43546	Rose	266	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43547	Rose	267	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43548	Rose	268	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43549	Rose	269	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43550	Rose	270	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43551	Rose	271	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43552	Rose	272	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43553	Rose	273	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43554	Rose	274	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43555	Rose	275	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43556	Rose	276	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43557	Rose	277	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43558	Rose	278	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43559	Rose	279	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43560	Rose	280	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43561	Rose	281	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43562	Rose	282	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43563	Rose	283	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43564	Rose	284	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43565	Rose	285	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43566	Rose	286	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43567	Rose	287	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43568	Rose	288	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43569	Rose	289	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43570	Rose	290	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43571	Rose	291	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43572	Rose	292	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43573	Rose	293	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43574	Rose	294	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43575	Rose	295	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43576	Rose	296	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43577	Rose	297	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43578	Rose	298	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43579	Rose	299	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43580	Rose	300	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43581	Rose	301	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43582	Rose	302	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43583	Rose	303	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43584	Rose	304	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43585	Rose	305	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43586	Rose	306	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43587	Rose	307	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43588	Rose	308	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43589	Rose	309	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43590	Rose	310	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43591	Rose	311	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43592	Rose	312	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43593	Rose	313	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43594	Rose	314	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43595	Rose	315	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43596	Rose	316	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43597	Rose	317	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43598	Rose	318	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43599	Rose	319	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43600	Rose	320	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43601	Rose	321	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43602	Rose	322	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43603	Rose	323	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00



Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Years	Renewal	
	Grant No.	Claim Name	Claim No.	Expiry Date			Annual Fee	Total
Quartz	YD43604	Rose	324	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43605	Rose	325	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43606	Rose	326	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43607	Rose	327	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43608	Rose	328	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43609	Rose	329	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43610	Rose	330	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43611	Rose	331	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43612	Rose	332	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43613	Rose	333	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43614	Rose	334	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43615	Rose	335	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43616	Rose	336	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43617	Rose	337	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43618	Rose	338	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43619	Rose	339	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43620	Rose	340	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43621	Rose	341	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43622	Rose	342	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43623	Rose	343	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43624	Rose	344	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43625	Rose	345	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43626	Rose	346	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43627	Rose	347	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43628	Rose	348	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43629	Rose	349	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43630	Rose	350	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43631	Rose	351	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YC95483	Rose	352	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43633	Rose	353	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43634	Rose	354	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43635	Rose	355	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43636	Rose	356	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43637	Rose	357	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43638	Rose	358	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43639	Rose	359	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43640	Rose	360	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43641	Rose	361	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43642	Rose	362	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43643	Rose	363	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43644	Rose	364	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43645	Rose	365	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43646	Rose	366	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43647	Rose	367	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43648	Rose	368	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43649	Rose	369	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43650	Rose	370	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43651	Rose	371	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43652	Rose	372	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43653	Rose	373	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43654	Rose	374	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43655	Rose	375	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43656	Rose	376	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43657	Rose	377	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43658	Rose	378	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43659	Rose	379	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43660	Rose	380	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43661	Rose	381	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43662	Rose	382	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43663	Rose	383	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43664	Rose	384	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43665	Rose	385	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43666	Rose	386	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43667	Rose	387	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43668	Rose	388	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43669	Rose	389	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43670	Rose	390	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43671	Rose	391	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43672	Rose	392	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43673	Rose	393	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43674	Rose	394	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43675	Rose	395	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43676	Rose	396	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43677	Rose	397	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43678	Rose	398	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43679	Rose	399	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43680	Rose	400	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00

Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Years	Renewal	
	Grant No.	Claim Name	Claim No.	Expiry Date			Annual Fee	Total
Quartz	YD43681	Rose	401	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43682	Rose	402	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43683	Rose	403	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43684	Rose	404	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43685	Rose	405	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43686	Rose	406	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43687	Rose	407	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43688	Rose	408	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43689	Rose	409	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43690	Rose	410	25-Mar-15	\$ 509.86	2	\$ 5.00	\$ 10.00
Quartz	YD43691	Rose	411	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD43692	Rose	412	25-Mar-15		2	\$ 5.00	\$ 10.00
Quartz	YD15751	RS	1	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15752	RS	2	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15753	RS	3	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15754	RS	4	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15755	RS	5	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15756	RS	6	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15757	RS	7	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15758	RS	8	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15759	RS	9	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15760	RS	10	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15761	RS	11	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15762	RS	12	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15763	RS	13	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15764	RS	14	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15765	RS	15	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15766	RS	16	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15767	RS	17	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15768	RS	18	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15769	RS	19	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15770	RS	20	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15771	RS	21	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15772	RS	22	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15773	RS	23	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15774	RS	24	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15775	RS	25	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15776	RS	26	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15777	RS	27	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15778	RS	28	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15779	RS	29	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15780	RS	30	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15781	RS	31	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15782	RS	32	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15783	RS	33	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15784	RS	34	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15785	RS	35	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15786	RS	36	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15787	RS	37	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15788	RS	38	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15789	RS	39	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15790	RS	40	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15791	RS	41	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15792	RS	42	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD15793	RS	43	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15794	RS	44	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15795	RS	45	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15796	RS	46	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15797	RS	47	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD15798	RS	48	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92271	RS	51	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92272	RS	52	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92273	RS	53	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92274	RS	54	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92275	RS	55	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92276	RS	56	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92277	RS	57	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92278	RS	58	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92279	RS	59	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92280	RS	60	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92281	RS	61	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92282	RS	62	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92283	RS	63	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92284	RS	64	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92285	RS	65	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92286	RS	66	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92287	RS	67	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00

Claim List for Cert of Work 2011 Rosebute

Type	Claim Information				Soil Geochem	Renewal		
	Grant No.	Claim Name	Claim No.	Expiry Date		Years	Annual Fee	Total
Quartz	YD92288	RS	68	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92289	RS	69	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92290	RS	70	9-Mar-12	\$ 509.86	5	\$ 5.00	\$ 25.00
Quartz	YD92291	RS	71	9-Mar-12		5	\$ 5.00	\$ 25.00
Quartz	YD92292	RS	72	9-Mar-12		5	\$ 5.00	\$ 25.00
				Column Total	\$ 143,271.79	1298		\$ 4,740.00
				From Statement of Costs	\$ 143,271.79			
				Check	\$ -			
				Claims with Work	281			
				Total Claims	544			
				Calculate Work Required for Renewal	\$ 129,800.00	Years * \$100		
				Excess (Short)	\$ 13,471.79			
<b>PLEASE COMMON DATE ALL CLAIMS TO MARCH 9, 2017</b>								
<b>PLEASE GROUP ALL CLAIMS</b>								

2011 Expenses Rosebute

Supplier	Invoice	Date	Geochem							Total
			Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	
Name	Ref No.	Date	5150	5151	5152	5153	5154	5155	5156	Total
1984 Enterprises	2010-1012	16-May-11	2324.80							2,324.80
1984 Enterprises	2010-1027	23-May-11	1099.67							1,099.67
1984 Enterprises	2010-1045	30-May-11	1078.42							1,078.42
1984 Enterprises	2010-1069	6-Jun-11	1043.96							1,043.96
1984 Enterprises	2010-1092	13-Jun-11	1196.42							1,196.42
1984 Enterprises	2010-1112	20-Jun-11	1214.00							1,214.00
1984 Enterprises	2010-1143	27-Jun-11	1092.28							1,092.28
1984 Enterprises	2010-1174	4-Jul-11	1252.01							1,252.01
1984 Enterprises	2010-1177	14-Jul-11	1881.37							1,881.37
Acklands Grainger	6081 0372470	25-Jul-11			33.72					33.72
Acme	VANI090555	8-Aug-11							5,472.00	5,472.00
Acme	VANI090560	8-Aug-11							5,437.80	5,437.80
Acme	VANI090804	9-Aug-11							5,420.70	5,420.70
Acme	VANI091503	16-Aug-11							5,472.00	5,472.00
Acme	VANI091510	16-Aug-11							5,388.40	5,388.40
Acme	VANI091813	17-Aug-11							5,112.90	5,112.90
Acme	VANI092122	18-Aug-11							5,454.90	5,454.90
Acme	VANI092124	18-Aug-11							4,822.20	4,822.20
Acme	VANI092354	19-Aug-11							5,472.00	5,472.00
AFD	IN016635	31-May-11				113.87				113.87
AFD	IN016797	31-May-11				13.22				13.22
AFD	IN020509	16-Jul-11				107.32				107.32
AFD	IN022782	15-Aug-11			102.13					102.13
AFD	IN024163	31-Aug-11				372.75				372.75
AFD	IN024164	31-Aug-11				26.54				26.54
AFD	IN20510	16-Jul-11				18.45				18.45
AFD	IN21562	31-Jul-11				229.42				229.42
AFD	IN21563	31-Jul-11				4.50				4.50
AFD	YT18327-2861	22-Jul-11				623.23				623.23
AFD	YT2087-4735	2-Aug-11				241.47				241.47
AFD	YT21913-4357	23-Aug-11			703.77					703.77
Arctic Inland	2082246	10-Aug-11				1.77				1.77
Arctic Inland	2082889	31-Aug-11				18.67				18.67
Arctic Inland	Stmt 09/01/11	1-Sep-11				21.46				21.46
Bonanza Market	Stmt 16/09/2011	16-Sep-11		104.38						104.38
Bonanza Gold Motel	2011058	12-Jun-11		155.09						155.09
Bonanza Gold Motel	2011081	1-Jul-11		221.56						221.56
Bonanza Gold Motel	2011-040	17-May-11		288.03						288.03
Bonanza Gold Motel	2011-048	27-May-11		221.56						221.56
Bonanza Gold Motel	2011-094	27-Jul-11		221.56						221.56
Bonanza Market	14140	1-Jun-11		180.20						180.20
Bonanza Market	14160	1-Jun-11		965.29						965.29
Bonanza Market	14208	2-Jun-11		21.68						21.68
Bonanza Market	14240	3-Jun-11		3.68						3.68
Bonanza Market	14284	4-Jun-11		57.75						57.75
Bonanza Market	14340	5-Jun-11		47.67						47.67
Bonanza Market	14501	9-Jun-11		1093.14						1,093.14
Bonanza Market	14517	10-Jun-11		8.11						8.11
Bonanza Market	14532	10-Jun-11		2.72						2.72
Bonanza Market	14693	10-Jun-11		18.18						18.18
Bonanza Market	16/06/2011	16-Jun-11		2483.17						2,483.17
Bonanza Market	01/07/2011	1-Jul-11		879.40						879.40
Bonanza Market	Stmt 01/08/2011	1-Aug-11		1,311.07						1,311.07
Bonanza Market	Stmt 01/09/2011	1-Sep-11		1,077.79						1,077.79
Bonanza Market	Stmt 16/08/2011	16-Aug-11		765.62						765.62
Bonanza Market	Stmt 19-Jul-11	19-Jul-11		1251.33						1,251.33
BXM	698	20-Sep-11	6862.41							6,862.41
BXM	698	20-Sep-11		1,611.19						1,611.19
BXM	698	20-Sep-11			621.26					621.26
BXM	698	20-Sep-11				4,572.88				4,572.88
BXM	698	20-Sep-11					66.12			66.12
BXM	727	31-Oct-11	2550.00	300.00						2,850.00
BXM	743	30-Nov-11	1350.00	300.00			45.00			1,695.00
Dawson Hardware	31/05/2011	31-May-11			681.91					681.91
Dawson Hardware	Stmt 31/07/2011	31-Jul-11			128.68					128.68
Dawson Hardware	Stmt 31/08/2011	31-Aug-11			234.59					234.59
EIS	0000119840	8-Aug-11					384.03			384.03
Greg Davison		30-Jun-11		48.78	141.28	3,500.68				3,690.75
Greg Davison		30-May-11		474.17	277.65	1,581.06				2,332.89
Heli Dynamics	11887	24-Aug-11				1,139.48				1,139.48
Heli Dynamics	11897	31-Aug-11				492.75				492.75
Heli-Dynamics	10476	11-Jul-11				4455.00				4,455.00
Heli-Dynamics	10478	12-Jul-11				2970.00				2,970.00
Heli-Dynamics	10479	13-Jul-11				2565.00				2,565.00
Heli-Dynamics	10480	14-Jul-11				1890.00				1,890.00
Heli-Dynamics	11027	22-Jun-11				1755.00				1,755.00

2011 Expenses Rosebute

Supplier	Invoice	Date	Geochem							Total
			Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	
Name	Ref No.	Date	5150	5151	5152	5153	5154	5155	5156	Total
Heli-Dynamics	11043	6-Jul-11				5400.00				5,400.00
Heli-Dynamics	11044	7-Jul-11				6615.00				6,615.00
Heli-Dynamics	11045	8-Jul-11				6615.00				6,615.00
Heli-Dynamics	11047	9-Jul-11				1890.00				1,890.00
Heli-Dynamics	Fuel-1000	6-Jul-11				2461.90				2,461.90
Jacobs Industries	68657	5-May-11					69.41			69.41
Kluane Freight Lines	155087	8-Jul-11				4.92				4.92
Kluane Freight Lines	156242	28-Jul-11				19.99				19.99
NIS	S014895	16-May-11			34.17					34.17
NIS	S015400	17-May-11			17.89					17.89
NIS	S016186	18-May-11			22.45					22.45
NIS	S017428	21-May-11			30.15					30.15
NIS	S018030	24-May-11			1.33					1.33
NIS	S018037	24-May-11			17.68					17.68
NIS	S018782	26-May-11			5.95					5.95
NIS	S020437	30-May-11			204.53					204.53
NIS	S022356	2-Jun-11			21.77					21.77
NIS	S023163	3-Jun-11			92.18					92.18
NIS	S027339	14-Jun-11			2.40					2.40
NIS	S046586	29-Jul-11			38.92					38.92
NIS	S046586	29-Jul-11			38.92					38.92
NIS	S047506	2-Aug-11			0.97					0.97
NIS	S047506	2-Aug-11			0.97					0.97
NIS	S048765	4-Aug-11			3.43					3.43
NIS	S049659	6-Aug-11			4.02					4.02
NIS	S058394	26-Aug-11			2.94					2.94
NIS	SC00631	21-May-11			-1.75					-1.75
NIS	SC00850	29-Jul-11			-79.44					-79.44
NIS	SC01903	6-Aug-11			(3.43)					-3.43
Pacesetter Petroleum	2011061401	14-Jun-11				2283.83				2,283.83
Pacesetter Petroleum	11070802C	8-Jul-11				(273.26)				-273.26
Pacesetter Petroleum	2011053110X	31-May-11				343.71				343.71
Pacesetter Petroleum	2011062107C	21-Jun-11				(17.72)				-17.72
Peacock Sales	IN075301	29-Aug-11			33.23					33.23
Peacock Sales	IN74803	7-Jul-11			26.73					26.73
Small's Exp.	K5253	28-Feb-11				5.29				5.29
Small's Exp.	K5277	1-Mar-11				89.98				89.98
Small's Exp.	K6945	31-Jul-11	44.31							44.31
Small's Exp.	K6964	31-Jul-11	62.04							62.04
Small's Exp.	K6982	31-Jul-11					11.08			11.08
Small's Exp.	K7045	1-Aug-11					51.70			51.70
Small's Exp.	K7276	24-Aug-11					91.59			91.59
Super Save Propane	13130	14-May-11				504.85				504.85
Super Save Propane	1216423	13-May-11				375.98				375.98
Super Save Propane	1216424	13-May-11				404.82				404.82
Super Save Propane	1217296	26-Jul-11				301.66				301.66
Super Save Propane	1216423A	13-May-11				38.46				38.46
Total North	11-1713	29-Aug-11					63.51			63.51
Xplornet	I-5212677	1-Aug-11					25.85			25.85
Xplornet	I-5212679	1-Aug-11					25.85			25.85
<b>XX Total XX</b>			<b>23,051.68</b>	<b>15,532.52</b>	<b>3,784.55</b>	<b>52,015.98</b>	<b>834.14</b>	<b>0.00</b>	<b>48,052.90</b>	<b>143,271.79</b>

# **2011 Soil Geochemical Survey**

## **On the Rosebute Property**

### **Volume II**

Bute 1 to 10	YC87401 to YC87410
Bute 11 to 12	YC96443 to YC96544
Bute 13 to 22	YC87977 to YC87986
Bute 23	YC95496
Bute 24	YC95580
Bute 25 to 62	YC96359 to YC96396
Rose 1 to 24	YC87106 to YC87129
Rose 25 to 28	YC96397 to YC96400
Rose 29 to 36	YC96349 to YC96356
Rose 37 to 120	YD13038 to YD13121
Rose 121 to 351	YD43401 to YD43631
Rose 352	YC95483
Rose 353 to 412	YD43633 to YD43692
RS 1 to 48	YD15751 to YD15798
RS 51 to 72	YD92271 to YD92292

**Dawson Mining District, Yukon  
NTS Sheet 115O05, O06, O11 & O12  
139°30'W., 63°28'N.**

**Operated by and Recorded to**



**TAKU GOLD  
CORP.**

**By  
Mark Fekete, P.Geo.  
and  
Marty Huber, GIT**

**January 31, 2012**

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
101347	06/07/2011	ShawnTaylor	577158	7034505	UTM27N_WGS84	Colluvium	RustyOrange	Sand		C	40	Moist	Excellent	ForestMixed
101348	06/07/2011	ShawnTaylor	577200	7034577	UTM27N_WGS84	Colluvium	Orange	Sand		C	40	Moist	Excellent	ForestMixed
101349	06/07/2011	ShawnTaylor	577239	7034607	UTM27N_WGS84	Colluvium	BrownLight	Sand		B	60	Moist	Excellent	ForestMixed
101350	06/07/2011	ShawnTaylor	577289	7034629	UTM27N_WGS84	Colluvium	Orange	Sand		C	90	Moist	Excellent	ForestMixed
101351	06/07/2011	ShawnTaylor	577342	7034644	UTM27N_WGS84	Colluvium	BrownLight	Sand		B	100	Moist	Good	ForestMixed
101352	06/07/2011	ShawnTaylor	577396	7034655	UTM27N_WGS84	Colluvium	BrownLight	Sand		B	60	Moist	Good	ForestMixed
101353	06/07/2011	ShawnTaylor	577427	7034666	UTM27N_WGS84	Colluvium	BrownLight	Sand		B	70	Moist	Good	ForestMixed
101354	06/07/2011	ShawnTaylor	577476	7034701	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101355	06/07/2011	ShawnTaylor	577516	7034704	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101356	06/07/2011	ShawnTaylor	577581	7034708	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Good	ForestMixed
101357	06/07/2011	ShawnTaylor	577620	7034707	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101358	06/07/2011	ShawnTaylor	577670	7034743	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101359	06/07/2011	ShawnTaylor	577748	7034779	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101360	06/07/2011	ShawnTaylor	577776	7034807	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101361	06/07/2011	ShawnTaylor	577814	7034859	UTM27N_WGS84	Colluvium	BrownLight	Sand		B	50	Moist	Good	ForestMixed
101362	06/07/2011	ShawnTaylor	577852	7034887	UTM27N_WGS84	Colluvium	Brown	Sand		C	40	Moist	Good	ForestMixed
101363	06/07/2011	ShawnTaylor	577896	7034915	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101364	06/07/2011	ShawnTaylor	577952	7034924	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101365	06/07/2011	ShawnTaylor	578021	7034948	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	52	Moist	Excellent	ForestMixed
101366	06/07/2011	ShawnTaylor	578046	7034957	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101367	06/07/2011	ShawnTaylor	578089	7034989	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101368	06/07/2011	ShawnTaylor	578125	7035031	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101369	06/07/2011	ShawnTaylor	578175	7035079	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101370	06/07/2011	ShawnTaylor	578224	7035099	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101371	06/07/2011	ShawnTaylor	578263	7035113	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101372	06/07/2011	ShawnTaylor	578305	7035183	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101459	04/09/2011	ShawnTaylor	566268	7045103	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	70	Moist	Excellent	ForestMixed
101460	04/09/2011	ShawnTaylor	566302	7045080	UTM27N_WGS84	Colluvium	BrownDark	Sand		B	50	Moist	Poor	ForestMixed
101461	04/09/2011	ShawnTaylor	566342	7045067	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101462	04/09/2011	ShawnTaylor	566398	7045060	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	80	Moist	Excellent	ForestMixed
101463	04/09/2011	ShawnTaylor	566442	7045043	UTM27N_WGS84	Colluvium	BrownDark	Sand		C	80	Moist	Excellent	ForestMixed
101464	04/09/2011	ShawnTaylor	566495	7045028	UTM27N_WGS84	Colluvium	BrownDark	Sand		C	80	Moist	Excellent	ForestMixed
101465	04/09/2011	ShawnTaylor	566537	7044985	UTM27N_WGS84	Colluvium	BrownDark	Sand		C	80	Moist	Excellent	ForestMixed
101466	04/09/2011	ShawnTaylor	566577	7044983	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101467	04/09/2011	ShawnTaylor	566633	7044945	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101468	04/09/2011	ShawnTaylor	566662	7044929	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	80	Moist	Excellent	ForestMixed
101469	04/09/2011	ShawnTaylor	566268	7045156	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101470	04/09/2011	ShawnTaylor	566292	7045195	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101471	12/07/2011	ShawnTaylor	566322	7045239	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101472	12/07/2011	ShawnTaylor	566346	7045284	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101473	12/07/2011	ShawnTaylor	566369	7045334	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101474	12/07/2011	ShawnTaylor	566379	7045379	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101475	12/07/2011	ShawnTaylor	566376	7045451	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101476	12/07/2011	ShawnTaylor	566366	7045477	UTM27N_WGS84	Colluvium	BrownDark	Sand		C	50	Moist	Excellent	ForestMixed
101477	12/07/2011	ShawnTaylor	566391	7045537	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101478	12/07/2011	ShawnTaylor	566408	7045583	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101479	12/07/2011	ShawnTaylor	566402	7045634	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101480	12/07/2011	ShawnTaylor	566384	7045700	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101481	12/07/2011	ShawnTaylor	566333	7045742	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101482	12/07/2011	ShawnTaylor	566216	7045065	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101483	12/07/2011	ShawnTaylor	566199	7045014	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101484	12/07/2011	ShawnTaylor	566197	7044946	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101485	12/07/2011	ShawnTaylor	566201	7044917	UTM27N_WGS84	Colluvium	BrownDark	Sand		C	40	Moist	Good	ForestMixed
101486	12/07/2011	ShawnTaylor	566161	7044863	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101487	12/07/2011	ShawnTaylor	566148	7044830	UTM27N_WGS84	Colluvium	Green	Sand		C	50	Moist	Excellent	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
101488	12/07/2011	ShawnTaylor	566118	7044759	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101489	12/07/2011	ShawnTaylor	566113	7044726	UTMZ7N_WGS84	Colluvium	Grey	Sand		C	50	Moist	Excellent	ForestMixed
101491	12/07/2011	ShawnTaylor	566078	7044715	UTMZ7N_WGS84	Colluvium	Green	Sand		C	50	Moist	Excellent	ForestMixed
101492	13/07/2011	ShawnTaylor	569689	7044273	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	40	Frozen	Excellent	ForestMixed
101493	13/07/2011	ShawnTaylor	569706	7044254	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101494	13/07/2011	ShawnTaylor	569763	7044227	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Frozen	Excellent	ForestMixed
101495	13/07/2011	ShawnTaylor	569817	7044191	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101496	13/07/2011	ShawnTaylor	569845	7044170	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101497	13/07/2011	ShawnTaylor	569880	7044135	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101498	13/07/2011	ShawnTaylor	569914	7044104	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	80	Moist	Excellent	ForestMixed
101499	13/07/2011	ShawnTaylor	569945	7044058	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	70	Moist	Excellent	ForestMixed
101500	13/07/2011	ShawnTaylor	569983	7044032	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	70	Moist	Excellent	ForestMixed
101501	13/07/2011	ShawnTaylor	570040	7044005	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101502	13/07/2011	ShawnTaylor	570078	7043985	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Frozen	Good	ForestMixed
101503	13/07/2011	ShawnTaylor	570127	7043956	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101504	13/07/2011	ShawnTaylor	570163	7043934	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101505	13/07/2011	ShawnTaylor	570207	7043910	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101506	13/07/2011	ShawnTaylor	570251	7043879	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101507	13/07/2011	ShawnTaylor	570283	7043864	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	80	Moist	Excellent	ForestMixed
101508	13/07/2011	ShawnTaylor	570298	7043805	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101509	13/07/2011	ShawnTaylor	570342	7043756	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	50	Moist	Excellent	ForestMixed
101510	13/07/2011	ShawnTaylor	570389	7043735	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	60	Moist	Excellent	ForestMixed
101511	13/07/2011	ShawnTaylor	570443	7043702	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101512	13/07/2011	ShawnTaylor	570472	7043688	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101513	13/07/2011	ShawnTaylor	570499	7043649	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	60	Frozen	Excellent	ForestMixed
101514	13/07/2011	ShawnTaylor	570621	7043572	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101515	13/07/2011	ShawnTaylor	570670	7043572	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	50	Moist	Excellent	ForestMixed
101516	13/07/2011	ShawnTaylor	570723	7043508	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
101517	13/07/2011	ShawnTaylor	570747	7043461	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	90	Moist	Excellent	ForestMixed
101518	13/07/2011	ShawnTaylor	570785	7043431	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101519	13/07/2011	ShawnTaylor	570803	7043387	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	60	Moist	Excellent	ForestMixed
101520	14/07/2011	ShawnTaylor	570044	7044753	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		B	70	Moist	Excellent	ForestMixed
101521	14/07/2011	ShawnTaylor	570060	7044719	UTMZ7N_WGS84	Colluvium	Orange	Sand		C	40	Moist	Excellent	ForestMixed
101522	14/07/2011	ShawnTaylor	570109	7044687	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		B	50	Moist	Good	ForestMixed
101523	14/07/2011	ShawnTaylor	570140	7044679	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101524	14/07/2011	ShawnTaylor	570196	7044619	UTMZ7N_WGS84	Colluvium	Green	Sand		C	60	Moist	Excellent	ForestMixed
101525	14/07/2011	ShawnTaylor	570223	7044594	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101526	14/07/2011	ShawnTaylor	570269	7044583	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101527	14/07/2011	ShawnTaylor	570305	7044540	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Moist	Excellent	ForestMixed
101528	14/07/2011	ShawnTaylor	570357	7044525	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101529	14/07/2011	ShawnTaylor	570393	7044502	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Moist	Excellent	ForestMixed
101530	14/07/2011	ShawnTaylor	570443	7044455	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	80	Moist	Excellent	ForestMixed
101531	14/07/2011	ShawnTaylor	570480	7044440	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	80	Moist	Excellent	ForestMixed
101532	14/07/2011	ShawnTaylor	570516	7044420	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	70	Moist	Excellent	ForestMixed
101533	14/07/2011	ShawnTaylor	570595	7044353	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	70	Moist	Excellent	ForestMixed
101534	14/07/2011	ShawnTaylor	570641	7044332	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101535	14/07/2011	ShawnTaylor	570666	7044302	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	80	Moist	Excellent	ForestMixed
101536	14/07/2011	ShawnTaylor	570701	7044242	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101537	14/07/2011	ShawnTaylor	570738	7044224	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	50	Moist	Excellent	ForestMixed
101538	14/07/2011	ShawnTaylor	570780	7044180	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	50	Moist	Excellent	ForestMixed
101539	14/07/2011	ShawnTaylor	570825	7044158	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101541	14/07/2011	ShawnTaylor	570868	7044142	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101542	14/07/2011	ShawnTaylor	570942	7044131	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101543	14/07/2011	ShawnTaylor	570958	7044092	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		B	50	Moist	Excellent	ForestMixed
101544	14/07/2011	ShawnTaylor	571027	7044023	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed



## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
101545	14/07/2011	ShawnTaylor	571066	7043984	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Moist	Excellent	ForestMixed
101546	14/07/2011	ShawnTaylor	571099	7043938	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	40	Moist	Excellent	ForestMixed
102385	06/07/2011	JBHebsgaard	576561	7036410	UTMZ7N_WGS84	Lithosoil	BrownDark	Silt	Ridge	C	30	Dry	Good	SubAlpineAlder
102386	06/07/2011	JBHebsgaard	576551	7036307	UTMZ7N_WGS84	Lithosoil	Brown	Silt	Ridge	C	30	Dry	Good	SubAlpineAlder
102387	06/07/2011	JBHebsgaard	576537	7036144	UTMZ7N_WGS84	Lithosoil	Brown	Silt	Ridge	B	30	Dry	Good	SubAlpineAlder
102388	06/07/2011	JBHebsgaard	576478	7036051	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	C	40	Dry	Good	SubAlpineAlder
102389	06/07/2011	JBHebsgaard	576423	7036022	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	50	Dry	Good	ForestAspen
102390	06/07/2011	JBHebsgaard	576356	7035976	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	40	Moist	Good	ForestMixed
102392	06/07/2011	JBHebsgaard	576289	7035897	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Moist	Good	ForestMixed
102393	06/07/2011	JBHebsgaard	576190	7035848	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry	Excellent	ForestPine
102394	06/07/2011	JBHebsgaard	576123	7035764	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Good	ForestMixed
102395	06/07/2011	JBHebsgaard	576045	7035713	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	40	Moist	Good	ForestMixed
102396	06/07/2011	JBHebsgaard	575968	7035657	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Moist	Good	ForestMixed
102397	06/07/2011	JBHebsgaard	575868	7035594	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Good	ForestMixed
102398	06/07/2011	JBHebsgaard	575805	7035535	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Good	ForestMixed
102399	06/07/2011	JBHebsgaard	575712	7035490	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	Flat	C	50	Dry	Good	ForestMixed
102400	06/07/2011	JBHebsgaard	575623	7035442	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	70	Dry	Good	ForestMixed
102401	06/07/2011	JBHebsgaard	575552	7035388	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Flat	B	40	Moist	Poor	ForestMixed
102402	06/07/2011	JBHebsgaard	575462	7035331	UTMZ7N_WGS84	Colluvium	Grey	Sand	Flat	C	40	Moist	Good	ForestMixed
102403	06/07/2011	JBHebsgaard	575319	7035135	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	50	Dry	Excellent	ForestMixed
102404	06/07/2011	JBHebsgaard	575292	7035038	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
102405	06/07/2011	JBHebsgaard	575266	7034944	UTMZ7N_WGS84	Colluvium	Blue	Silt	ModerateSW	C	50	Dry	Good	ForestMixed
102406	06/07/2011	JBHebsgaard	575203	7034864	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Good	ForestMixed
102407	06/07/2011	JBHebsgaard	575149	7034767	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Flat	B	30	Moist	Good	ForestMixed
102408	06/07/2011	JBHebsgaard	575074	7034709	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Flat	C	40	Dry	Good	ForestMixed
102409	06/07/2011	JBHebsgaard	575070	7034602	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
102410	06/07/2011	JBHebsgaard	574993	7034524	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	Flat	C	50	Dry	Good	ForestMixed
102411	06/07/2011	JBHebsgaard	574864	7034491	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
102412	06/07/2011	JBHebsgaard	574801	7034416	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	ModerateSW	C	60	Dry	Good	ForestMixed
102413	06/07/2011	JBHebsgaard	574735	7034343	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateSW	B	60	Dry	Poor	ForestMixed
102414	06/07/2011	JBHebsgaard	574690	7034249	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateSW	C	40	Dry	Good	ForestMixed
102415	06/07/2011	JBHebsgaard	574631	7034164	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Ridge	C	60	Dry	Good	ForestMixed
102416	06/07/2011	JBHebsgaard	574520	7034148	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
102417	06/07/2011	JBHebsgaard	574422	7034114	UTMZ7N_WGS84	Colluvium	RustyRed	Gravel	ModerateSW	C	50	Dry	Good	ForestMixed
102418	06/07/2011	JBHebsgaard	574318	7034100	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Good	ForestMixed
102419	06/07/2011	JBHebsgaard	574239	7034068	UTMZ7N_WGS84	Frostboil	Green	Sand	ModerateSW	C	60	Dry	Good	ForestMixed
102420	07/07/2011	JBHebsgaard	576391	7037032	UTMZ7N_WGS84	Lithosoil	Brown	Clay	Ridge	B	60	Dry	Poor	SubAlpineBrush
102421	07/07/2011	JBHebsgaard	576255	7036976	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	C	40	Dry	Good	SubAlpineBrush
102422	07/07/2011	JBHebsgaard	576161	7036915	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Good	SubAlpineBrush
102423	07/07/2011	JBHebsgaard	576065	7036905	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Dry	Excellent	SubAlpineBrush
102424	07/07/2011	JBHebsgaard	575974	7036839	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateS	C	50	Dry	Excellent	SubAlpineBrush
102425	07/07/2011	JBHebsgaard	575910	7036757	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateS	B	30	Moist	Good	ForestMixed
102426	07/07/2011	JBHebsgaard	575857	7036691	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	C	30	Dry	Excellent	ForestMixed
102427	07/07/2011	JBHebsgaard	575793	7036611	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Good	ForestMixed
102428	07/07/2011	JBHebsgaard	575725	7036531	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Flat	B	40	Dry	Poor	SubAlpineBrush
102429	07/07/2011	JBHebsgaard	575641	7036452	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	60	Dry	Good	SubAlpineBrush
102430	07/07/2011	JBHebsgaard	575588	7036375	UTMZ7N_WGS84	Colluvium	Brown	Clay	Flat	B	40	Moist	Poor	ForestAspen
102431	07/07/2011	JBHebsgaard	575513	7036328	UTMZ7N_WGS84	Soil	Brown	Clay	Flat	B	30	Moist	Poor	ForestMixed
102432	07/07/2011	JBHebsgaard	575427	7036255	UTMZ7N_WGS84	Soil	Brown	Clay	Flat	B	30	Moist	Poor	ForestMixed
102433	07/07/2011	JBHebsgaard	575347	7036197	UTMZ7N_WGS84	Soil	Brown	Clay	Flat	B	30	Moist	Poor	SubAlpineAlder
102434	07/07/2011	JBHebsgaard	575287	7036123	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	30	Dry	Good	ForestMixed
102435	07/07/2011	JBHebsgaard	575183	7036131	UTMZ7N_WGS84	Soil	Brown	Clay	Ridge	B	30	Moist	Poor	ForestAspen
102436	07/07/2011	JBHebsgaard	575075	7036113	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	20	Moist	Poor	ForestMixed
102437	07/07/2011	JBHebsgaard	574989	7036154	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	40	Moist	Good	ForestBirch
102438	07/07/2011	JBHebsgaard	574882	7036139	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateSW		20	Moist	Poor	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
102439	07/07/2011	JBHebsgaard	574788	7036138	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
102440	07/07/2011	JBHebsgaard	574695	7036086	UTMZ7N_WGS84	Colluvium	Blue	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
102441	07/07/2011	JBHebsgaard	574588	7036063	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	30	Moist	Poor	ForestMixed
102442	07/07/2011	JBHebsgaard	574489	7036039	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
102443	07/07/2011	JBHebsgaard	574405	7035993	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Dry	Good	ForestMixed
102444	07/07/2011	JBHebsgaard	574310	7035949	UTMZ7N_WGS84	Colluvium	Blue	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
102445	07/07/2011	JBHebsgaard	574216	7035918	UTMZ7N_WGS84	Colluvium	Blue	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
102446	07/07/2011	JBHebsgaard	574125	7035916	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	ForestMixed
102447	07/07/2011	JBHebsgaard	574080	7035916	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Good	ForestMixed
102448	07/07/2011	JBHebsgaard	574060	7035831	UTMZ7N_WGS84	Colluvium	Blue	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
102449	07/07/2011	JBHebsgaard	573943	7035669	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	ForestAspen
102450	07/07/2011	JBHebsgaard	573870	7035483	UTMZ7N_WGS84	Colluvium	Brown	Gravel	SteepS	C	30	Dry	Good	ForestAspen
102451	07/07/2011	JBHebsgaard	573847	7035328	UTMZ7N_WGS84	Colluvium	Brown	Gravel	SteepS	C	40	Moist	Good	ForestAspen
102452	07/07/2011	JBHebsgaard	573817	7035252	UTMZ7N_WGS84	Colluvium	Brown	Gravel	SteepS	C	20	Moist	Poor	ForestAspen
102453	08/07/2011	JBHebsgaard	575863	7037272	UTMZ7N_WGS84	Soil	Brown	Clay	Ridge	B	30	Dry	Good	SubAlpineBrush
102454	08/07/2011	JBHebsgaard	575772	7037312	UTMZ7N_WGS84	Soil	BrownDark	Silt	Ridge	C	40	Dry	Excellent	SubAlpineBrush
102455	08/07/2011	JBHebsgaard	575664	7037316	UTMZ7N_WGS84	Soil	BrownLight	Silt	Ridge	C	60	Dry	Excellent	SubAlpineBrush
102456	08/07/2011	JBHebsgaard	575563	7037335	UTMZ7N_WGS84	Soil	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineBrush
102457	08/07/2011	JBHebsgaard	575487	7037380	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	C	40	Dry	Good	SubAlpineBrush
102458	08/07/2011	JBHebsgaard	575425	7037463	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Poor	SubAlpineBrush
102459	08/07/2011	JBHebsgaard	575379	7037538	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Ridge	C	50	Moist	Good	SubAlpineBrush
102460	08/07/2011	JBHebsgaard	575337	7037580	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	B	40	Dry	Good	SubAlpineBrush
102461	08/07/2011	JBHebsgaard	575284	7037667	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Good	SubAlpineBrush
102462	08/07/2011	JBHebsgaard	575241	7037755	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Good	ForestBlackSpruce
102463	08/07/2011	JBHebsgaard	575176	7037842	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Good	ForestBlackSpruce
102464	08/07/2011	JBHebsgaard	575133	7037916	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Good	ForestBlackSpruce
102465	08/07/2011	JBHebsgaard	575058	7037999	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	ForestBlackSpruce
102466	08/07/2011	JBHebsgaard	575001	7038089	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Good	ForestBlackSpruce
102467	08/07/2011	JBHebsgaard	574929	7038160	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Good	ForestBlackSpruce
102468	08/07/2011	JBHebsgaard	574872	7038226	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Good	ForestBlackSpruce
102469	08/07/2011	JBHebsgaard	574795	7038288	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry	Good	ForestBlackSpruce
102470	08/07/2011	JBHebsgaard	574705	7038337	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Good	ForestBlackSpruce
102471	08/07/2011	JBHebsgaard	574876	7038068	UTMZ7N_WGS84	Soil	Brown	Silt	Ridge	C	60	Dry	Good	ForestBlackSpruce
102472	08/07/2011	JBHebsgaard	574794	7038022	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Good	ForestBlackSpruce
102473	08/07/2011	JBHebsgaard	574673	7037937	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Good	ForestBlackSpruce
102474	08/07/2011	JBHebsgaard	574577	7037899	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Good	ForestMixed
102475	08/07/2011	JBHebsgaard	574468	7037879	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	B	40	Moist	Poor	ForestBlackSpruce
102476	08/07/2011	JBHebsgaard	574372	7037854	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	ForestBlackSpruce
102477	08/07/2011	JBHebsgaard	574274	7037839	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	50	Moist	Good	ForestBlackSpruce
102478	08/07/2011	JBHebsgaard	574189	7037821	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	40	Moist	Good	ForestBlackSpruce
102479	08/07/2011	JBHebsgaard	574073	7037828	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateNW	B	40	Moist	Poor	ForestBlackSpruce
102480	08/07/2011	JBHebsgaard	573978	7037835	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	40	Moist	Poor	ForestBlackSpruce
102481	08/07/2011	JBHebsgaard	573881	7037859	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	40	Moist	Poor	ForestBlackSpruce
102482	08/07/2011	JBHebsgaard	573787	7037850	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateNW	C	50	Dry	Excellent	ForestBlackSpruce
102483	08/07/2011	JBHebsgaard	573664	7037850	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Good	ForestMixed
102484	08/07/2011	JBHebsgaard	573567	7037872	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	50	Dry	Good	ForestMixed
102485	08/07/2011	JBHebsgaard	573493	7037898	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateNW	C	50	Dry	Good	ForestMixed
102486	08/07/2011	JBHebsgaard	573402	7037966	UTMZ7N_WGS84	Colluvium	BrownDark	Clay	ModerateNW	B	40	Frozen	Good	ForestMixed
102487	08/07/2011	JBHebsgaard	573305	7038019	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	60	Dry	Good	ForestMixed
102488	08/07/2011	JBHebsgaard	573228	7038157	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	60	Moist	Poor	ForestMixed
102489	09/07/2011	JBHebsgaard	577201	7040330	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Poor	SubAlpineBrush
102490	09/07/2011	JBHebsgaard	577204	7040577	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	C	40	Dry	Good	SubAlpineBrush
102491	09/07/2011	JBHebsgaard	577175	7040675	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	C	50	Dry	Good	SubAlpineBrush
102493	09/07/2011	JBHebsgaard	577187	7040776	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	20	Dry	Good	SubAlpineBrush
102494	09/07/2011	JBHebsgaard	577175	7040920	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Poor	SubAlpineBrush

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
102495	09/07/2011	JBHebsgaard	577179	7041016	UTMZ7N_WGS84	Colluvium	BrownDark	Gravel	Ridge	B	20	Moist	Good	BurnOld
102496	09/07/2011	JBHebsgaard	577190	7041175	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Good	BurnOld
102497	09/07/2011	JBHebsgaard	577202	7041277	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	60	Dry	Excellent	BurnOld
102498	09/07/2011	JBHebsgaard	577252	7041336	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	50	Moist	Good	BurnOld
102499	09/07/2011	JBHebsgaard	577311	7041401	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	BurnOld
102500	09/07/2011	JBHebsgaard	577486	7041513	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	BurnOld
102501	09/07/2011	JBHebsgaard	577561	7041573	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Ridge	B	30	Dry	Poor	BurnOld
102502	09/07/2011	JBHebsgaard	577636	7041631	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	30	Moist	Good	BurnOld
102503	09/07/2011	JBHebsgaard	577724	7041691	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	30	Moist	Good	ForestBirch
102504	09/07/2011	JBHebsgaard	577785	7041771	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	Ridge	C	40	Dry	Good	ForestBirch
102505	09/07/2011	JBHebsgaard	577867	7041837	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	30	Dry	Good	ForestBirch
102506	09/07/2011	JBHebsgaard	577911	7041912	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	B	30	Dry	Good	ForestMixed
102507	09/07/2011	JBHebsgaard	577974	7041984	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	30	Dry	Good	ForestMixed
102508	09/07/2011	JBHebsgaard	578044	7042067	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Good	ForestMixed
102509	09/07/2011	JBHebsgaard	578109	7042138	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	30	Moist	Good	BurnOld
102510	09/07/2011	JBHebsgaard	578169	7042225	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Poor	ForestMixed
102511	09/07/2011	JBHebsgaard	578221	7042374	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	20	Moist	Poor	ForestBlackSpruce
102512	09/07/2011	JBHebsgaard	578167	7042455	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	Ridge	C	30	Dry	Good	ForestBlackSpruce
102513	09/07/2011	JBHebsgaard	578112	7042543	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Poor	ForestBlackSpruce
102514	09/07/2011	JBHebsgaard	578046	7042612	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	Ridge	C	40	Dry	Good	ForestBlackSpruce
102515	09/07/2011	JBHebsgaard	577990	7042697	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Moist	Good	ForestBlackSpruce
102516	09/07/2011	JBHebsgaard	577936	7042777	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Frozen	Good	ForestBlackSpruce
102517	09/07/2011	JBHebsgaard	577790	7042912	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	ModerateN	C	50	Moist	Good	ForestBlackSpruce
102518	09/07/2011	JBHebsgaard	577662	7043006	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Frozen	Good	ForestBlackSpruce
102554	11/07/2011	JBHebsgaard	571004	7041136	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
102555	11/07/2011	JBHebsgaard	571031	7041183	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	30	Moist	Good	ForestBlackSpruce
102556	11/07/2011	JBHebsgaard	571046	7041235	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	50	Wet	Poor	ForestBlackSpruce
102557	11/07/2011	JBHebsgaard	571078	7041342	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	40	Wet	Good	ForestBlackSpruce
102558	11/07/2011	JBHebsgaard	571077	7041386	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	60	Moist	Good	ForestMixed
102559	11/07/2011	JBHebsgaard	571100	7041433	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	40	Moist	Poor	ForestMixed
102560	11/07/2011	JBHebsgaard	571142	7041471	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	30	Moist	Poor	ForestMixed
102561	11/07/2011	JBHebsgaard	571166	7041518	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	60	Moist	Good	ForestMixed
102562	11/07/2011	JBHebsgaard	571201	7041551	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
102563	11/07/2011	JBHebsgaard	571304	7041666	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	70	Frozen	Poor	ForestBlackSpruce
102564	11/07/2011	LaurenWilson	571404	7041778	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	40	Moist	Poor	ForestMixed
102565	11/07/2011	LaurenWilson	571437	7041800	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	50	Moist	Poor	ForestMixed
102566	11/07/2011	LaurenWilson	571469	7041915	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	B	50	Moist	Poor	ForestMixed
102567	11/07/2011	LaurenWilson	571485	7041976	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	70	Dry	Good	ForestMixed
102568	11/07/2011	LaurenWilson	571470	7042023	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	50	Wet	Poor	ForestMixed
102569	11/07/2011	LaurenWilson	571428	7042054	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	C	50	Moist	Good	ForestMixed
102570	11/07/2011	LaurenWilson	571354	7042493	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	B	30	Dry	Good	ForestBlackSpruce
102571	11/07/2011	LaurenWilson	571347	7042569	UTMZ7N_WGS84	Alluvium	RustyOrange	Sand	ModerateN	B	40	Dry	Good	ForestBlackSpruce
102572	11/07/2011	LaurenWilson	571329	7042602	UTMZ7N_WGS84	Alluvium	Brown	Sand	ModerateN	B	40	Dry	Good	ForestBlackSpruce
103652	06/07/2011	ChrisErdman	575441	7035292	UTMZ7N_WGS84	Colluvium	Grey	Silt	Ridge	B	40	Dry	Excellent	ForestMixed
103653	06/07/2011	ChrisErdman	575388	7035247	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand		C	50	Dry	Excellent	ForestMixed
103654	06/07/2011	ChrisErdman	575361	7035213	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	ForestMixed
103655	06/07/2011	ChrisErdman	575310	7035215	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	ForestMixed
103656	06/07/2011	ChrisErdman	575258	7035189	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
103657	06/07/2011	ChrisErdman	575200	7035183	UTMZ7N_WGS84	Colluvium	Green	Silt		C	50	Dry	Poor	ForestMixed
103658	06/07/2011	ChrisErdman	575146	7035183	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	ForestMixed
103659	06/07/2011	ChrisErdman	575096	7035163	UTMZ7N_WGS84	Colluvium	Green	Silt		C	40	Dry	Excellent	ForestMixed
103660	06/07/2011	ChrisErdman	575049	7035171	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Good	ForestMixed
103661	06/07/2011	ChrisErdman	574997	7035157	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	ForestMixed
103662	06/07/2011	ChrisErdman	574955	7035146	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	ForestMixed
103663	06/07/2011	ChrisErdman	574908	7035127	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	40	Moist	Poor	ForestMixed

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103664	06/07/2011	ChrisErdman	574875	7035104	UTMZ7N_WGS84	Colluvium	Green	Silt		C	40	Dry	Excellent	ForestMixed
103665	06/07/2011	ChrisErdman	574823	7035089	UTMZ7N_WGS84	Colluvium	Orange	Silt		C	40	Dry	Excellent	ForestMixed
103666	06/07/2011	ChrisErdman	574784	7035078	UTMZ7N_WGS84	Colluvium	Pink	Silt		C	50	Dry	Excellent	ForestMixed
103667	06/07/2011	ChrisErdman	574731	7035067	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Excellent	ForestMixed
103668	06/07/2011	ChrisErdman	574669	7035025	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
103669	06/07/2011	ChrisErdman	574621	7035047	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	ForestMixed
103670	06/07/2011	ChrisErdman	574586	7034993	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Excellent	ForestMixed
103671	06/07/2011	ChrisErdman	574553	7034959	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	ForestMixed
103672	06/07/2011	ChrisErdman	574501	7034905	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	ForestMixed
103673	06/07/2011	ChrisErdman	574489	7034864	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
103674	06/07/2011	ChrisErdman	574432	7034846	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
103675	06/07/2011	ChrisErdman	574419	7034801	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
103676	06/07/2011	ChrisErdman	574380	7034773	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	ForestMixed
103677	06/07/2011	ChrisErdman	574347	7034735	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	ParklandPine
103678	06/07/2011	ChrisErdman	574304	7034696	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Good	ForestMixed
103679	06/07/2011	ChrisErdman	574262	7034654	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	ForestMixed
103680	06/07/2011	ChrisErdman	574204	7034647	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Excellent	ForestMixed
103681	06/07/2011	ChrisErdman	574195	7034612	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	ForestMixed
103682	06/07/2011	ChrisErdman	574151	7034570	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	ForestMixed
103683	06/07/2011	ChrisErdman	574106	7034548	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	ForestAspen
103684	06/07/2011	ChrisErdman	574067	7034531	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	ForestMixed
103685	06/07/2011	ChrisErdman	574033	7034503	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestMixed
103686	06/07/2011	ChrisErdman	574007	7034434	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	ForestMixed
103687	07/07/2011	ChrisErdman	576434	7037055	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	SubAlpineBrush
103688	07/07/2011	ChrisErdman	576447	7037094	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103689	07/07/2011	ChrisErdman	576466	7037155	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103691	07/07/2011	ChrisErdman	576503	7037187	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103692	07/07/2011	ChrisErdman	576532	7037239	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Poor	
103693	07/07/2011	ChrisErdman	576562	7037278	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Moist	Poor	
103694	07/07/2011	ChrisErdman	576572	7037329	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
103695	07/07/2011	ChrisErdman	576617	7037361	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Moist	Poor	
103696	07/07/2011	ChrisErdman	576656	7037391	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Moist	Good	
103697	07/07/2011	ChrisErdman	576664	7037430	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Moist	Good	
103698	07/07/2011	ChrisErdman	576709	7037463	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Good	
103699	07/07/2011	ChrisErdman	576765	7037505	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Good	
103700	07/07/2011	ChrisErdman	576776	7037555	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103701	07/07/2011	ChrisErdman	576814	7037587	UTMZ7N_WGS84	Colluvium	Yellow	Silt		C	60	Dry	Excellent	
103702	07/07/2011	ChrisErdman	576856	7037627	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	20	Dry	Poor	
103703	07/07/2011	ChrisErdman	576882	7037657	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103704	07/07/2011	ChrisErdman	576898	7037679	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Poor	
103705	07/07/2011	ChrisErdman	576919	7037737	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Good	
103706	07/07/2011	ChrisErdman	576933	7037781	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103707	07/07/2011	ChrisErdman	576944	7037853	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	30	Moist	Poor	
103708	07/07/2011	ChrisErdman	576925	7037880	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Good	
103709	07/07/2011	ChrisErdman	576919	7037932	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Moist	Good	
103710	07/07/2011	ChrisErdman	576932	7037982	UTMZ7N_WGS84	Colluvium	Brown			B	40	Dry	Good	
103711	07/07/2011	ChrisErdman	576934	7038031	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103712	07/07/2011	ChrisErdman	576931	7038088	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103713	07/07/2011	ChrisErdman	576963	7037699	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103714	07/07/2011	ChrisErdman	577020	7037675	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103715	07/07/2011	ChrisErdman	577058	7037661	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103716	07/07/2011	ChrisErdman	577109	7037637	UTMZ7N_WGS84	Colluvium	Brown			B	40	Dry	Excellent	
103717	07/07/2011	ChrisErdman	577159	7037630	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Good	
103718	07/07/2011	ChrisErdman	577212	7037608	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103719	07/07/2011	ChrisErdman	577256	7037601	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Excellent	

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103720	07/07/2011	ChrisErdman	577308	7037591	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	ForestMixed
103721	07/07/2011	ChrisErdman	577348	7037582	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103722	07/07/2011	ChrisErdman	577400	7037569	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103723	07/07/2011	ChrisErdman	577461	7037572	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103724	08/07/2011	ChrisErdman	571094	7037083	UTMZ7N_WGS84	Colluvium	Green	Silt		C	60	Dry	Excellent	
103725	08/07/2011	ChrisErdman	571194	7037039	UTMZ7N_WGS84	Colluvium	Green	Silt		C	40	Dry	Excellent	
103726	08/07/2011	ChrisErdman	571276	7036981	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103727	08/07/2011	ChrisErdman	571361	7036942	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103728	08/07/2011	ChrisErdman	571447	7036893	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103729	08/07/2011	ChrisErdman	571527	7036822	UTMZ7N_WGS84		Brown	Silt		C	40	Dry	Excellent	
103730	08/07/2011	ChrisErdman	571611	7036774	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103731	08/07/2011	ChrisErdman	571690	7036716	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103732	08/07/2011	ChrisErdman	571784	7036644	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103733	08/07/2011	ChrisErdman	571823	7036683	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103734	08/07/2011	ChrisErdman	571842	7036780	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40		Good	
103735	08/07/2011	ChrisErdman	571830	7036882	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103736	08/07/2011	ChrisErdman	571839	7036979	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103737	08/07/2011	ChrisErdman	571883	7037082	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Dry	Poor	
103738	08/07/2011	ChrisErdman	571866	7037194	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Poor	
103739	08/07/2011	ChrisErdman	571913	7037280	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103741	08/07/2011	ChrisErdman	571900	7037378	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103742	08/07/2011	ChrisErdman	571967	7037441	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	20	Dry	Poor	
103743	08/07/2011	ChrisErdman	572008	7037435	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103744	08/07/2011	ChrisErdman	572052	7037459	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103745	08/07/2011	ChrisErdman	572098	7037474	UTMZ7N_WGS84	Colluvium	Green	Silt		C	50	Dry	Excellent	ForestMixed
103746	08/07/2011	ChrisErdman	572146	7037497	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103747	08/07/2011	ChrisErdman	572197	7037505	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103748	08/07/2011	ChrisErdman	572252	7037529	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40		Good	
103749	08/07/2011	ChrisErdman	572296	7037550	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103750	08/07/2011	ChrisErdman	572343	7037555	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Frozen	Poor	
103751	08/07/2011	ChrisErdman	572391	7037575	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Frozen	Poor	
103752	08/07/2011	ChrisErdman	572432	7037584	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Frozen	Poor	
103753	08/07/2011	ChrisErdman	572491	7037604	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103754	08/07/2011	ChrisErdman	572510	7037627	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103755	08/07/2011	ChrisErdman	572580	7037640	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103756	08/07/2011	ChrisErdman	572624	7037667	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103757	08/07/2011	ChrisErdman	572676	7037670	UTMZ7N_WGS84	Colluvium	Green	Silt		C	50	Dry	Excellent	
103758	08/07/2011	ChrisErdman	572728	7037672	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103759	08/07/2011	ChrisErdman	572756	7037681	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	
103760	08/07/2011	ChrisErdman	572827	7037716	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103761	09/07/2011	ChrisErdman	577154	7041332	UTMZ7N_WGS84	Colluvium	Green	Sand		C	40	Dry	Excellent	
103762	09/07/2011	ChrisErdman	577112	7041444	UTMZ7N_WGS84	Colluvium	Green	Silt		C	40	Dry	Excellent	
103763	09/07/2011	ChrisErdman	577061	7041533	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
103764	09/07/2011	ChrisErdman	577043	7041618	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103765	09/07/2011	ChrisErdman	576999	7041716	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103766	09/07/2011	ChrisErdman	576976	7041818	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	60	Dry	Excellent	
103767	09/07/2011	ChrisErdman	576918	7041908	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	50	Dry	Excellent	
103768	09/07/2011	ChrisErdman	576898	7041991	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	40	Dry	Excellent	
103769	09/07/2011	ChrisErdman	576853	7042088	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	50		Excellent	
103770	09/07/2011	ChrisErdman	576801	7042174	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	50	Dry	Excellent	
103771	09/07/2011	ChrisErdman	576784	7042213	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40		Good	
103772	09/07/2011	ChrisErdman	576753	7042275	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	60	Dry	Excellent	
103773	09/07/2011	ChrisErdman	576725	7042307	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103774	09/07/2011	ChrisErdman	576697	7042345	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	40	Dry	Excellent	
103775	09/07/2011	ChrisErdman	576651	7042375	UTMZ7N_WGS84									

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103776	09/07/2011	ChrisErdman	576634	7042420	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	50	Dry	Excellent	
103777	09/07/2011	ChrisErdman	576618	7042471	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	60	Dry	Excellent	
103778	09/07/2011	ChrisErdman	576601	7042507	UTMZ7N_WGS84	Colluvium	Tan	Silt		C	40	Dry	Excellent	
103779	09/07/2011	ChrisErdman	576592	7042553	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103780	09/07/2011	ChrisErdman	576582	7042612	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103781	09/07/2011	ChrisErdman	576592	7042661	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103782	09/07/2011	ChrisErdman	576615	7042708	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103783	09/07/2011	ChrisErdman	576584	7042759	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103784	09/07/2011	ChrisErdman	576581	7042807	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Frozen	Excellent	
103785	09/07/2011	ChrisErdman	576589	7042851	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103786	09/07/2011	ChrisErdman	576596	7042899	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103787	09/07/2011	ChrisErdman	576610	7042955	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103788	09/07/2011	ChrisErdman	576639	7042990	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Dry	Good	
103789	09/07/2011	ChrisErdman	576644	7043037	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103791	09/07/2011	ChrisErdman	576664	7043083	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Frozen	Poor	
103792	09/07/2011	ChrisErdman	576684	7043131	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103793	09/07/2011	ChrisErdman	576716	7043170	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103830	11/07/2011	ChrisErdman	569616	7040184	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103831	11/07/2011	ChrisErdman	569531	7040238	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	
103832	11/07/2011	ChrisErdman	569465	7040297	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
103833	11/07/2011	ChrisErdman	569379	7040357	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
103834	11/07/2011	ChrisErdman	569298	7040430	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Frozen	Good	
103835	11/07/2011	ChrisErdman	569225	7040481	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
103836	11/07/2011	ChrisErdman	569137	7040542	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Frozen	Good	
103837	11/07/2011	ChrisErdman	569059	7040599	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103838	11/07/2011	ChrisErdman	569007	7040692	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103839	11/07/2011	ChrisErdman	568933	7040740	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70	Dry	Excellent	
103841	11/07/2011	ChrisErdman	568844	7040805	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103842	11/07/2011	ChrisErdman	568875	7040862	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103843	11/07/2011	ChrisErdman	568890	7040927	UTMZ7N_WGS84	Colluvium	Orange	Silt		C	50	Dry	Excellent	
103844	11/07/2011	ChrisErdman	568888	7040970	UTMZ7N_WGS84	Colluvium	Orange	Silt		B	50	Dry	Excellent	
103845	11/07/2011	ChrisErdman	568886	7041019	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103846	11/07/2011	ChrisErdman	568904	7041067	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103847	11/07/2011	ChrisErdman	568903	7041118	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	80	Dry	Good	
103848	11/07/2011	ChrisErdman	568908	7041168	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103849	11/07/2011	ChrisErdman	568928	7041218	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103850	11/07/2011	ChrisErdman	568912	7041271	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103851	11/07/2011	ChrisErdman	568929	7041310	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103852	11/07/2011	ChrisErdman	568943	7041363	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103853	11/07/2011	ChrisErdman	568916	7041409	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Good	
103854	11/07/2011	ChrisErdman	568950	7041450	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103855	11/07/2011	ChrisErdman	568948	7041506	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	
103856	11/07/2011	ChrisErdman	568960	7041558	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Moist	Good	
103857	11/07/2011	ChrisErdman	568972	7041603	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Frozen	Poor	
103858	11/07/2011	ChrisErdman	568964	7041663	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Moist	Poor	
103859	11/07/2011	ChrisErdman	568963	7041712	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	
103860	11/07/2011	ChrisErdman	568966	7041741	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Frozen	Poor	
103861	11/07/2011	ChrisErdman	568964	7041800	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Frozen	Good	
103862	11/07/2011	ChrisErdman	568950	7041854	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Frozen	Good	
103863	11/07/2011	ChrisErdman	568947	7041900	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
103864	11/07/2011	ChrisErdman	568949	7041969	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Moist	Good	
103865	12/07/2011	ChrisErdman	566422	7046861	UTMZ7N_WGS84	Colluvium	Green	Silt		C	60	Dry	Excellent	
103866	12/07/2011	ChrisErdman	566384	7046834	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103867	12/07/2011	ChrisErdman	566372	7046783	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Excellent	
103868	12/07/2011	ChrisErdman	566394	7046715	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70	Moist	Excellent	

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103869	12/07/2011	ChrisErdman	566374	7046665	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103870	12/07/2011	ChrisErdman	566378	7046622	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	30	Dry	Good	
103871	12/07/2011	ChrisErdman	566373	7046562	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103872	12/07/2011	ChrisErdman	566378	7046519	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Good	
103873	12/07/2011	ChrisErdman	566369	7046467	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103874	12/07/2011	ChrisErdman	566347	7046431	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103875	12/07/2011	ChrisErdman	566370	7046383	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103876	12/07/2011	ChrisErdman	566368	7046313	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103877	12/07/2011	ChrisErdman	566348	7046270	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Excellent	
103878	12/07/2011	ChrisErdman	566377	7046230	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103879	12/07/2011	ChrisErdman	566350	7046180	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103880	12/07/2011	ChrisErdman	566350	7046133	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Moist	Good	
103881	12/07/2011	ChrisErdman	566331	7046087	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103882	12/07/2011	ChrisErdman	566341	7046038	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103883	12/07/2011	ChrisErdman	566355	7045981	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103884	12/07/2011	ChrisErdman	566349	7045923	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103885	12/07/2011	ChrisErdman	566322	7045875	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103886	12/07/2011	ChrisErdman	566335	7045818	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103887	12/07/2011	ChrisErdman	566304	7045795	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103888	12/07/2011	ChrisErdman	565970	7045742	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	
103889	12/07/2011	ChrisErdman	565995	7045745	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	80	Dry	Good	
103891	12/07/2011	ChrisErdman	566056	7045751	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103892	12/07/2011	ChrisErdman	566097	7045761	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103893	12/07/2011	ChrisErdman	566155	7045770	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103894	12/07/2011	ChrisErdman	566197	7045775	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103895	12/07/2011	ChrisErdman	566263	7045784	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103896	12/07/2011	ChrisErdman	566369	7045772	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103897	12/07/2011	ChrisErdman	566437	7045768	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103898	12/07/2011	ChrisErdman	566487	7045741	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103899	12/07/2011	ChrisErdman	566554	7045717	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103900	12/07/2011	ChrisErdman	566595	7045721	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40		Good	
103901	12/07/2011	ChrisErdman	566628	7045703	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	80		Good	
103902	12/07/2011	ChrisErdman	566688	7045696	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	70	Moist	Poor	
103903	12/07/2011	ChrisErdman	566737	7045683	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
103904	12/07/2011	ChrisErdman	566781	7045663	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	
103905	12/07/2011	ChrisErdman	566822	7045641	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	80		Poor	
103906	13/07/2011	ChrisErdman	569279	7043830	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Poor	
103907	13/07/2011	ChrisErdman	569315	7043812	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	
103908	13/07/2011	ChrisErdman	569359	7043787	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	60	Dry	Excellent	
103909	13/07/2011	ChrisErdman	569408	7043758	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103910	13/07/2011	ChrisErdman	569443	7043722	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Moist	Good	
103911	13/07/2011	ChrisErdman	569469	7043685	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103912	13/07/2011	ChrisErdman	569517	7043655	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	70	Dry	Good	
103913	13/07/2011	ChrisErdman	569556	7043627	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103914	13/07/2011	ChrisErdman	569588	7043593	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Good	
103915	13/07/2011	ChrisErdman	569634	7043572	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Dry	Good	
103916	13/07/2011	ChrisErdman	569677	7043534	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	70	Dry	Good	
103917	13/07/2011	ChrisErdman	569714	7043506	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
103918	13/07/2011	ChrisErdman	569752	7043468	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	
103919	13/07/2011	ChrisErdman	569793	7043440	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103920	13/07/2011	ChrisErdman	569833	7043425	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103921	13/07/2011	ChrisErdman	569878	7043370	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103922	13/07/2011	ChrisErdman	569914	7043348	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Dry	Good	
103923	13/07/2011	ChrisErdman	569958	7043320	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103924	13/07/2011	ChrisErdman	569987	7043289	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
103925	13/07/2011	ChrisErdman	570036	7043272	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103926	13/07/2011	ChrisErdman	570072	7043231	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70		Excellent	
103927	13/07/2011	ChrisErdman	570111	7043201	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Good	
103928	13/07/2011	ChrisErdman	570156	7043175	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	40	Dry	Good	
103929	13/07/2011	ChrisErdman	570187	7043142	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Good	
103930	13/07/2011	ChrisErdman	570237	7043120	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	50	Dry	Good	
103931	13/07/2011	ChrisErdman	570266	7043088	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103932	13/07/2011	ChrisErdman	570314	7043061	UTMZ7N_WGS84	Colluvium	Brown	Silt		A	50	Dry	Good	
103933	13/07/2011	ChrisErdman	570361	7043026	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70		Excellent	
103934	13/07/2011	ChrisErdman	570386	7042993	UTMZ7N_WGS84	Colluvium	Grey	Silt		B	70	Frozen	Good	
103935	13/07/2011	ChrisErdman	570430	7042960	UTMZ7N_WGS84	Colluvium	Grey	Clay		B	100	Moist	Good	
103936	13/07/2011	ChrisErdman	570458	7042927	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	80	Moist	Good	
103937	13/07/2011	ChrisErdman	570512	7042903	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	80	Dry	Good	
103938	13/07/2011	ChrisErdman	570548	7042862	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
103939	14/07/2011	ChrisErdman	569751	7044473	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Frozen	Good	
103941	14/07/2011	ChrisErdman	569792	7044452	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Frozen	Poor	
103942	14/07/2011	ChrisErdman	569826	7044418	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Frozen	Good	
103943	14/07/2011	ChrisErdman	569878	7044386	UTMZ7N_WGS84	Colluvium	Orange	Silt		C	50	Dry	Excellent	
103944	14/07/2011	ChrisErdman	569922	7044366	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
103945	14/07/2011	ChrisErdman	569960	7044316	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	
103946	14/07/2011	ChrisErdman	569998	7044302	UTMZ7N_WGS84	Colluvium	Grey	Silt		C	60	Dry	Excellent	
103947	14/07/2011	ChrisErdman	570043	7044260	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
103948	14/07/2011	ChrisErdman	570074	7044225	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103949	14/07/2011	ChrisErdman	570121	7044199	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103950	14/07/2011	ChrisErdman	570157	7044177	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103951	14/07/2011	ChrisErdman	570187	7044153	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103952	14/07/2011	ChrisErdman	570227	7044128	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Moist	Poor	
103953	14/07/2011	ChrisErdman	570264	7044106	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
103954	14/07/2011	ChrisErdman	570305	7044061	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	80	Moist	Good	
103955	14/07/2011	ChrisErdman	570356	7044023	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Dry	Good	
103956	14/07/2011	ChrisErdman	570401	7044001	UTMZ7N_WGS84	Colluvium	Orange	Silt		C	80	Dry	Excellent	
103957	14/07/2011	ChrisErdman	570431	7043959	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60		Good	
103958	14/07/2011	ChrisErdman	570479	7043946	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	90	Dry	Excellent	
103959	14/07/2011	ChrisErdman	570502	7043911	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103960	14/07/2011	ChrisErdman	570556	7043883	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
103961	14/07/2011	ChrisErdman	570587	7043861	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	50	Dry	Good	
103962	14/07/2011	ChrisErdman	570634	7043816	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	70	Moist	Good	
103963	14/07/2011	ChrisErdman	570670	7043779	UTMZ7N_WGS84	Colluvium	BrownDark	Silt		B	60	Dry	Good	
103964	14/07/2011	ChrisErdman	570714	7043742	UTMZ7N_WGS84	Colluvium	BrownDark	Silt		B	80	Dry	Good	
103965	14/07/2011	ChrisErdman	570744	7043718	UTMZ7N_WGS84	Colluvium	Brown	Sand		B	50	Dry	Excellent	
103966	14/07/2011	ChrisErdman	570805	7043702	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103967	14/07/2011	ChrisErdman	570825	7043668	UTMZ7N_WGS84	Colluvium	Orange	Sand		C	60	Dry	Excellent	
103968	14/07/2011	ChrisErdman	570883	7043638	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	
103969	14/07/2011	ChrisErdman	570905	7043600	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Good	
104604	06/07/2011	MarkHiggins	576824	7035724	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104605	06/07/2011	MarkHiggins	576853	7035699	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104606	06/07/2011	MarkHiggins	576882	7035648	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	55	Dry	Excellent	SubAlpineBrush
104607	06/07/2011	MarkHiggins	576904	7035601	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	SubAlpineBrush
104608	06/07/2011	MarkHiggins	576938	7035572	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	SubAlpineBrush
104609	06/07/2011	MarkHiggins	576950	7035526	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineBrush
104610	06/07/2011	MarkHiggins	577000	7035484	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	RidgeAlpine	C	50	Moist	Excellent	SubAlpineBrush
104611	06/07/2011	MarkHiggins	576999	7035429	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	SubAlpineBrush
104612	06/07/2011	MarkHiggins	577001	7035384	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Moist	Excellent	SubAlpineBrush
104613	06/07/2011	MarkHiggins	577006	7035330	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineBrush
104614	06/07/2011	MarkHiggins	577003	7035283	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineBrush



## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
104615	06/07/2011	MarkHiggins	577009	7035222	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Frozen	Excellent	ForestMixed
104616	06/07/2011	MarkHiggins	577005	7035171	UTM27N_WGS84	Colluvium	Pink	Silt	Ridge	C	60	Dry	Excellent	SubAlpineBrush
104617	06/07/2011	MarkHiggins	577015	7035125	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineBrush
104618	06/07/2011	MarkHiggins	577024	7035077	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	SubAlpineBrush
104619	06/07/2011	MarkHiggins	577038	7035029	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104620	06/07/2011	MarkHiggins	577037	7034982	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineBrush
104621	06/07/2011	MarkHiggins	577060	7034928	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineBrush
104622	06/07/2011	MarkHiggins	577058	7034877	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104623	06/07/2011	MarkHiggins	577059	7034824	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	SubAlpineBrush
104624	06/07/2011	MarkHiggins	577074	7034776	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104625	06/07/2011	MarkHiggins	577082	7034735	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104626	06/07/2011	MarkHiggins	577082	7034681	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	45	Dry	Good	ForestMixed
104627	06/07/2011	MarkHiggins	577075	7034639	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Excellent	ForestMixed
104628	06/07/2011	MarkHiggins	577098	7034589	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	45	Dry	Excellent	SubAlpineBrush
104629	06/07/2011	MarkHiggins	577091	7034532	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Good	ForestMixed
104630	06/07/2011	MarkHiggins	577075	7034471	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	SubAlpineBrush
104631	06/07/2011	MarkHiggins	577120	7034435	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	SubAlpineBrush
104632	06/07/2011	MarkHiggins	577145	7034367	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	SubAlpineFir
104633	06/07/2011	MarkHiggins	577077	7034385	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104634	06/07/2011	MarkHiggins	577021	7034394	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104635	06/07/2011	MarkHiggins	576965	7034404	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Good	ForestMixed	
104636	06/07/2011	MarkHiggins	576942	7034406	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104637	06/07/2011	MarkHiggins	576882	7034417	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104638	06/07/2011	MarkHiggins	576830	7034390	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104639	06/07/2011	MarkHiggins	576780	7034402	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104640	06/07/2011	MarkHiggins	576741	7034428	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104642	07/07/2011	MarkHiggins	572148	7035857	UTM27N_WGS84	Colluvium	Orange	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104643	07/07/2011	MarkHiggins	572203	7035863	UTM27N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104644	07/07/2011	MarkHiggins	572257	7035854	UTM27N_WGS84	Colluvium	Orange	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104645	07/07/2011	MarkHiggins	572300	7035865	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
104646	07/07/2011	MarkHiggins	572344	7035869	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104647	07/07/2011	MarkHiggins	572396	7035878	UTM27N_WGS84	Colluvium	Orange	Sand	ModerateE	C	60	Dry	Excellent	ForestMixed
104648	07/07/2011	MarkHiggins	572450	7035877	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateE	C	80	Dry	Excellent	ForestMixed
104649	07/07/2011	MarkHiggins	572504	7035893	UTM27N_WGS84	Colluvium	Orange	Sand	ModerateE	C	60	Dry	Excellent	ForestMixed
104650	07/07/2011	MarkHiggins	572546	7035896	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104651	07/07/2011	MarkHiggins	572603	7035903	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	80	Dry	Excellent	ForestMixed
104652	07/07/2011	MarkHiggins	572648	7035910	UTM27N_WGS84	Colluvium	Green	Sand	ModerateE	C	90	Dry	Excellent	ForestMixed
104653	07/07/2011	MarkHiggins	572708	7035911	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
104654	07/07/2011	MarkHiggins	572742	7035920	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104655	07/07/2011	MarkHiggins	572791	7035927	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
104656	07/07/2011	MarkHiggins	572844	7035936	UTM27N_WGS84	Colluvium	Green	Sand	ModerateE	C	70	Dry	Excellent	ForestMixed
104657	07/07/2011	MarkHiggins	572904	7035951	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	70	Dry	Excellent	ForestMixed
104658	07/07/2011	MarkHiggins	572952	7035959	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104659	07/07/2011	MarkHiggins	572994	7035963	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104660	07/07/2011	MarkHiggins	573048	7035944	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104661	07/07/2011	MarkHiggins	573086	7035942	UTM27N_WGS84	Colluvium	Green	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104662	07/07/2011	MarkHiggins	573136	7035937	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	80	Dry	Excellent	ForestMixed
104663	07/07/2011	MarkHiggins	573191	7035920	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104664	07/07/2011	MarkHiggins	573232	7035910	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104665	07/07/2011	MarkHiggins	573282	7035926	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateE	C	70	Dry	Excellent	ForestMixed
104666	07/07/2011	MarkHiggins	573347	7035908	UTM27N_WGS84	Frostboil	Green	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104667	07/07/2011	MarkHiggins	573391	7035904	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
104668	07/07/2011	MarkHiggins	573435	7035899	UTM27N_WGS84	Colluvium	Orange	Silt	Ridge	C	70	Dry	Excellent	ForestMixed
104669	07/07/2011	MarkHiggins	573490	7035898	UTM27N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104670	07/07/2011	MarkHiggins	573529	7035893	UTM27N_WGS84	Colluvium	Orange	Silt	Ridge	C	40	Dry	Excellent	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
104671	07/07/2011	MarkHiggins	573600	7035893	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
104672	07/07/2011	MarkHiggins	573640	7035895	UTMZ7N_WGS84	Colluvium	Orange	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
104673	07/07/2011	MarkHiggins	573686	7035881	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104674	07/07/2011	MarkHiggins	573746	7035884	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104675	07/07/2011	MarkHiggins	573793	7035859	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Excellent	ForestMixed
104676	07/07/2011	MarkHiggins	573861	7035877	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104677	07/07/2011	MarkHiggins	573941	7035882	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104678	07/07/2011	MarkHiggins	573981	7035901	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	40	Moist	Excellent	ForestMixed
104679	07/07/2011	MarkHiggins	574031	7035889	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104680	07/07/2011	MarkHiggins	574018	7035748	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
104681	07/07/2011	MarkHiggins	573901	7035627	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
104682	07/07/2011	MarkHiggins	573896	7035535	UTMZ7N_WGS84	Colluvium	Orange	Silt	Flat	C	50	Dry	Excellent	ForestMixed
104683	07/07/2011	MarkHiggins	573856	7035391	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	SteepS	C	40	Dry	Excellent	ForestMixed
104684	08/07/2011	MarkHiggins	571146	7037051	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
104685	08/07/2011	MarkHiggins	571236	7037023	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104686	08/07/2011	MarkHiggins	571319	7036970	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104687	08/07/2011	MarkHiggins	571408	7036908	UTMZ7N_WGS84	Colluvium	Orange	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
104688	08/07/2011	MarkHiggins	571492	7036844	UTMZ7N_WGS84	Colluvium	Orange	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
104689	08/07/2011	MarkHiggins	571576	7036796	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104690	08/07/2011	MarkHiggins	571649	7036742	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104691	08/07/2011	MarkHiggins	571740	7036673	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104693	08/07/2011	MarkHiggins	571816	7036739	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104694	08/07/2011	MarkHiggins	571842	7036838	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104695	08/07/2011	MarkHiggins	571829	7036937	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104696	08/07/2011	MarkHiggins	571860	7037035	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104697	08/07/2011	MarkHiggins	571862	7037142	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104698	08/07/2011	MarkHiggins	571871	7037237	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104699	08/07/2011	MarkHiggins	571901	7037316	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104700	08/07/2011	MarkHiggins	571914	7037437	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104701	08/07/2011	MarkHiggins	571918	7037475	UTMZ7N_WGS84	Colluvium	Red	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104702	08/07/2011	MarkHiggins	571913	7037524	UTMZ7N_WGS84	Colluvium	Red	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104703	08/07/2011	MarkHiggins	571914	7037574	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104704	08/07/2011	MarkHiggins	571908	7037632	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104705	08/07/2011	MarkHiggins	571932	7037678	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104706	08/07/2011	MarkHiggins	571922	7037723	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104707	08/07/2011	MarkHiggins	571929	7037775	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104708	08/07/2011	MarkHiggins	571930	7037827	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104709	08/07/2011	MarkHiggins	571926	7037878	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104710	08/07/2011	MarkHiggins	571943	7037926	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104711	08/07/2011	MarkHiggins	571957	7038025	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104712	08/07/2011	MarkHiggins	571973	7038074	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104713	08/07/2011	MarkHiggins	571998	7038116	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104714	08/07/2011	MarkHiggins	572016	7038169	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104715	08/07/2011	MarkHiggins	572028	7038212	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
104716	08/07/2011	MarkHiggins	572051	7038256	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Frozen	Excellent	ForestMixed
104717	08/07/2011	MarkHiggins	572064	7038304	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
104718	09/07/2011	MarkHiggins	577143	7041390	UTMZ7N_WGS84	Colluvium	Colorless	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104719	09/07/2011	MarkHiggins	577075	7041473	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Dry	Excellent	ForestMixed
104720	09/07/2011	MarkHiggins	577039	7041577	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateN	C	60	Dry	Excellent	ForestAspen
104721	09/07/2011	MarkHiggins	577020	7041665	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104722	09/07/2011	MarkHiggins	576980	7041762	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	C	60	Dry	Excellent	ForestAspen
104723	09/07/2011	MarkHiggins	576939	7041852	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104724	09/07/2011	MarkHiggins	576909	7041956	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104725	09/07/2011	MarkHiggins	576870	7042040	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104726	09/07/2011	MarkHiggins	576839	7042147	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Dry	Excellent	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
104727	09/07/2011	MarkHiggins	576876	7042183	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104728	09/07/2011	MarkHiggins	576909	7042225	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104729	09/07/2011	MarkHiggins	576947	7042272	UTM27N_WGS84	Colluvium	Green	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104730	09/07/2011	MarkHiggins	576972	7042313	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104731	09/07/2011	MarkHiggins	576999	7042362	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104732	09/07/2011	MarkHiggins	577019	7042407	UTM27N_WGS84	Colluvium	Colorless	Silt	ModerateN	C	70	Moist	Excellent	ForestMixed
104733	09/07/2011	MarkHiggins	577040	7042443	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Wet	Good	ForestMixed
104734	09/07/2011	MarkHiggins	577069	7042474	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Wet	Good	ForestMixed
104735	09/07/2011	MarkHiggins	577065	7042538	UTM27N_WGS84	Colluvium	Green	Silt	ModerateN	C	50	Moist	Good	ForestMixed
104736	09/07/2011	MarkHiggins	577058	7042591	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	B	40	Moist	Good	ForestMixed
104737	09/07/2011	MarkHiggins	577061	7042634	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	70	Dry	Excellent	ForestBlackSpruce
104738	09/07/2011	MarkHiggins	577080	7042692	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
104739	09/07/2011	MarkHiggins	577083	7042736	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Dry	Poor	ForestBlackSpruce
104740	09/07/2011	MarkHiggins	577079	7042831	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	B	50	Moist	Good	ForestBlackSpruce
104741	09/07/2011	MarkHiggins	577069	7042897	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Dry	Excellent	SubAlpineBrush
104742	09/07/2011	MarkHiggins	577081	7042946	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Frozen	Good	ForestBlackSpruce
104743	09/07/2011	MarkHiggins	577077	7042996	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Moist	Good	ForestMixed
104744	09/07/2011	MarkHiggins	577069	7043036	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Moist	Excellent	ForestBlackSpruce
104745	09/07/2011	MarkHiggins	577069	7043084	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Moist	Good	ForestBlackSpruce
104746	09/07/2011	MarkHiggins	577051	7043187	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Dry	Good	ForestBlackSpruce
104747	09/07/2011	MarkHiggins	577045	7043251	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	40	Moist	Excellent	ForestMixed
104748	09/07/2011	MarkHiggins	577040	7043311	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Dry	Excellent	ForestBlackSpruce
104785	11/07/2011	MarkHiggins	569702	7040232	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
104786	11/07/2011	MarkHiggins	569749	7040323	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
104787	11/07/2011	MarkHiggins	569789	7040413	UTM27N_WGS84	Colluvium	Red	Sand	ModerateNE	C	60	Dry	Excellent	BurnOld
104788	11/07/2011	MarkHiggins	569825	7040505	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Moist	Good	BurnOld
104789	11/07/2011	MarkHiggins	569847	7040606	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104790	11/07/2011	MarkHiggins	569871	7040701	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	40	Dry	Excellent	ForestMixed
104792	11/07/2011	MarkHiggins	569897	7040795	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Excellent	ForestBlackSpruce
104793	11/07/2011	MarkHiggins	569916	7040898	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Dry	Excellent	ForestBlackSpruce
104794	11/07/2011	MarkHiggins	569949	7040993	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104795	11/07/2011	MarkHiggins	569927	7041096	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	70	Dry	Excellent	ForestMixed
104796	11/07/2011	MarkHiggins	569930	7041187	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104797	11/07/2011	MarkHiggins	569942	7041322	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Excellent	ForestMixed
104798	11/07/2011	MarkHiggins	569976	7041337	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	ForestBlackSpruce
104799	11/07/2011	MarkHiggins	570003	7041379	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Excellent	ForestMixed
104800	11/07/2011	MarkHiggins	570032	7041427	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104801	11/07/2011	MarkHiggins	570069	7041462	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Good	ForestMixed
104802	11/07/2011	MarkHiggins	570099	7041497	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	45	Moist	Excellent	ForestMixed
104803	11/07/2011	MarkHiggins	570138	7041540	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104804	11/07/2011	MarkHiggins	570160	7041581	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	ForestMixed
104805	11/07/2011	MarkHiggins	570198	7041611	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	B	50	Dry	Excellent	ForestMixed
104806	11/07/2011	MarkHiggins	570229	7041659	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Dry	Excellent	ForestMixed
104807	11/07/2011	MarkHiggins	570275	7041692	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	ForestMixed
104808	11/07/2011	MarkHiggins	570285	7041740	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	60	Moist	Excellent	ForestMixed
104809	11/07/2011	MarkHiggins	570326	7041790	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	70	Moist	Excellent	ForestMixed
104810	11/07/2011	MarkHiggins	570330	7041847	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Excellent	ForestMixed
104811	11/07/2011	MarkHiggins	570328	7041927	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	70	Dry	Excellent	ForestMixed
104812	11/07/2011	MarkHiggins	570320	7041983	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Excellent	ForestMixed
104813	11/07/2011	MarkHiggins	570342	7042022	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Moist	Excellent	ForestBlackSpruce
104814	11/07/2011	MarkHiggins	570339	7042096	UTM27N_WGS84	Colluvium	Brown	Silt	Flat	C	40	Frozen	Poor	ForestBlackSpruce
104815	12/07/2011	MarkHiggins	568000	7047533	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	BurnOld
104816	12/07/2011	MarkHiggins	567990	7047492	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Excellent	BurnOld
104817	12/07/2011	MarkHiggins	567970	7047441	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestMixed
104818	12/07/2011	MarkHiggins	567928	7047399	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Excellent	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
104819	12/07/2011	MarkHiggins	567910	7047336	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Moist	Excellent	ForestBlackSpruce
104820	12/07/2011	MarkHiggins	567890	7047312	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Moist	Excellent	ForestBlackSpruce
104821	12/07/2011	MarkHiggins	567865	7047253	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Frozen	Good	ForestBlackSpruce
104822	12/07/2011	MarkHiggins	567842	7047212	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104823	12/07/2011	MarkHiggins	567832	7047170	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104824	12/07/2011	MarkHiggins	567791	7047127	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	60	Moist	Good	ForestBlackSpruce
104825	12/07/2011	MarkHiggins	567770	7047090	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	60	Moist	Good	ForestFir
104826	12/07/2011	MarkHiggins	567750	7047036	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	40	Frozen	Excellent	ForestBlackSpruce
104827	12/07/2011	MarkHiggins	567730	7047007	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateS	C	45	Moist	Excellent	ForestBlackSpruce
104828	12/07/2011	MarkHiggins	567697	7046956	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	50	Moist	Good	ForestBlackSpruce
104829	12/07/2011	MarkHiggins	567660	7046906	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104830	12/07/2011	MarkHiggins	567649	7046866	UTM27N_WGS84	Colluvium	Red	Silt	Flat	C	70	Dry	Excellent	ForestBlackSpruce
104831	12/07/2011	MarkHiggins	567630	7046820	UTM27N_WGS84	Colluvium	BrownLight	Silt	Flat	B	50	Moist	Good	ForestBlackSpruce
104832	12/07/2011	MarkHiggins	567601	7046770	UTM27N_WGS84	Colluvium	Red	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
104833	12/07/2011	MarkHiggins	567567	7046739	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104834	12/07/2011	MarkHiggins	567558	7046686	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
104835	12/07/2011	MarkHiggins	567546	7046636	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Moist	Excellent	ForestMixed
104836	12/07/2011	MarkHiggins	567517	7046595	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
104837	12/07/2011	MarkHiggins	567503	7046548	UTM27N_WGS84	Colluvium	Red	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
104838	12/07/2011	MarkHiggins	567486	7046508	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Moist	Good	ForestMixed
104839	12/07/2011	MarkHiggins	567466	7046447	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
104841	12/07/2011	MarkHiggins	567450	7046403	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	40	Moist	Good	ForestMixed
104842	12/07/2011	MarkHiggins	567436	7046367	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	50	Moist	Good	ForestMixed
104843	12/07/2011	MarkHiggins	567418	7046316	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104844	12/07/2011	MarkHiggins	567400	7046270	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
104845	12/07/2011	MarkHiggins	567387	7046220	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestBlackSpruce
104846	12/07/2011	MarkHiggins	567377	7046169	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
104847	12/07/2011	MarkHiggins	567354	7046126	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104848	12/07/2011	MarkHiggins	567330	7046085	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104849	12/07/2011	MarkHiggins	567316	7046033	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	40	Moist	Good	ForestBlackSpruce
104850	12/07/2011	MarkHiggins	567293	7045985	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
104851	12/07/2011	MarkHiggins	567284	7045937	UTM27N_WGS84	Colluvium	Pink	Silt	ModerateS	C	50	Dry	Excellent	ForestBlackSpruce
104852	12/07/2011	MarkHiggins	567263	7045892	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Excellent	ForestBlackSpruce
104853	12/07/2011	MarkHiggins	567249	7045853	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateS	C	60	Dry	Excellent	ForestBlackSpruce
104854	12/07/2011	MarkHiggins	567234	7045808	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	65	Dry	Excellent	ForestMixed
104855	12/07/2011	MarkHiggins	567219	7045750	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestBlackSpruce
104856	13/07/2011	MarkHiggins	569144	7043687	UTM27N_WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	ForestBlackSpruce
104857	13/07/2011	MarkHiggins	569196	7043643	UTM27N_WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	ForestBlackSpruce
104858	13/07/2011	MarkHiggins	569231	7043619	UTM27N_WGS84	Colluvium	BrownLight	Sand	Flat	C	90	Dry	Excellent	ForestBlackSpruce
104859	13/07/2011	MarkHiggins	569270	7043587	UTM27N_WGS84	Colluvium	BrownLight	Sand	Flat	C	60	Dry	Excellent	ForestBlackSpruce
104860	13/07/2011	MarkHiggins	569312	7043557	UTM27N_WGS84	Colluvium	Orange	Sand	ModerateSE	C	60	Dry	Excellent	ForestMixed
104861	13/07/2011	MarkHiggins	569348	7043531	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104862	13/07/2011	MarkHiggins	569388	7043501	UTM27N_WGS84	Colluvium	Orange	Silt	SteepSE	C	70	Dry	Excellent	ForestMixed
104863	13/07/2011	MarkHiggins	569430	7043467	UTM27N_WGS84	Colluvium	Brown	Silt	Depression	B	50	Frozen	Good	ForestMixed
104864	13/07/2011	MarkHiggins	569477	7043427	UTM27N_WGS84	Colluvium	Brown	Silt	DrainageSeasonal	C	70	Dry	Excellent	ForestMixed
104865	13/07/2011	MarkHiggins	569511	7043401	UTM27N_WGS84	Colluvium	Yellow	Silt	ModerateNW	C	80	Dry	Excellent	ForestMixed
104866	13/07/2011	MarkHiggins	569549	7043375	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	70	Dry	Excellent	ForestMixed
104867	13/07/2011	MarkHiggins	569594	7043348	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateNE	C	70	Dry	Excellent	ForestMixed
104868	13/07/2011	MarkHiggins	569627	7043321	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	60	Dry	Excellent	ForestMixed
104869	13/07/2011	MarkHiggins	569667	7043292	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	50	Dry	Excellent	ForestMixed
104870	13/07/2011	MarkHiggins	569710	7043257	UTM27N_WGS84	Colluvium	Red	Silt	ModerateSW	C	50	Dry	Excellent	ForestMixed
104871	13/07/2011	MarkHiggins	569751	7043227	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	B	50	Moist	Good	ForestAspen
104872	13/07/2011	MarkHiggins	569790	7043202	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	50	Dry	Excellent	ForestMixed
104873	13/07/2011	MarkHiggins	569828	7043176	UTM27N_WGS84	Colluvium	BrownLight	Silt	SteepSW	B	60	Moist	Good	ForestAspen
104874	13/07/2011	MarkHiggins	569873	7043138	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	50	Dry	Excellent	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
104875	13/07/2011	MarkHiggins	569914	7043111	UTM27N_WGS84	Colluvium	BrownLight	Sand	SteepSE	C	80	Dry	Excellent	ForestAspen
104876	13/07/2011	MarkHiggins	569948	7043074	UTM27N_WGS84	Colluvium	Grey	Silt	SteepS	C	100	Dry	Excellent	ForestMixed
104877	13/07/2011	MarkHiggins	569990	7043042	UTM27N_WGS84	Colluvium	Grey	Silt	SteepS	C	60	Dry	Excellent	ForestMixed
104878	13/07/2011	MarkHiggins	570033	7043013	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
104879	13/07/2011	MarkHiggins	570063	7042976	UTM27N_WGS84									
104880	13/07/2011	MarkHiggins	570110	7042958	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Moist	Good	ForestMixed
104881	13/07/2011	MarkHiggins	570161	7042912	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Frozen	Excellent	ForestMixed
104882	13/07/2011	MarkHiggins	570192	7042898	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateS	B	60	Frozen	Good	ForestBlackSpruce
104883	13/07/2011	MarkHiggins	570230	7042872	UTM27N_WGS84	Colluvium	Grey	Silt	SteepSW	C	70	Dry	Excellent	ForestMixed
104884	13/07/2011	MarkHiggins	570266	7042835	UTM27N_WGS84	Colluvium	Green	Silt	SteepS	C	70	Dry	Excellent	ForestMixed
104885	13/07/2011	MarkHiggins	570307	7042806	UTM27N_WGS84	Colluvium	Grey	Silt	Flat	C	60	Moist	Excellent	ForestMixed
104886	13/07/2011	MarkHiggins	570353	7042776	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104889	14/07/2011	MarkHiggins	569806	7044552	UTM27N_WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	ForestMixed
104890	14/07/2011	MarkHiggins	569855	7044531	UTM27N_WGS84	Colluvium	Brown	Silt	Flat	C	50	Dry	Excellent	ForestMixed
104892	14/07/2011	MarkHiggins	569892	7044493	UTM27N_WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	ForestMixed
104893	14/07/2011	MarkHiggins	569938	7044466	UTM27N_WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Moist	Good	ForestMixed
104894	14/07/2011	MarkHiggins	569973	7044439	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	50	Dry	Excellent	ForestMixed
104895	14/07/2011	MarkHiggins	570020	7044399	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
104896	14/07/2011	MarkHiggins	570056	7044385	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateS	C	70	Dry	Excellent	ForestBlackSpruce
104897	14/07/2011	MarkHiggins	570094	7044347	UTM27N_WGS84	Colluvium	Green	Silt	ModerateS	C	70	Dry	Excellent	ForestBlackSpruce
104898	14/07/2011	MarkHiggins	570132	7044314	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
104899	14/07/2011	MarkHiggins	570167	7044285	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	70	Frozen	Good	ForestMixed
104900	14/07/2011	MarkHiggins	570213	7044254	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104901	14/07/2011	MarkHiggins	570252	7044240	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104902	14/07/2011	MarkHiggins	570292	7044194	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
104903	14/07/2011	MarkHiggins	570334	7044174	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
104904	14/07/2011	MarkHiggins	570375	7044142	UTM27N_WGS84	Colluvium	BrownLight	Silt	SteepS	C	50	Dry	Excellent	ForestMixed
104905	14/07/2011	MarkHiggins	570412	7044115	UTM27N_WGS84	Colluvium	BrownLight	Silt	SteepS	C	70	Dry	Excellent	ForestMixed
104906	14/07/2011	MarkHiggins	570453	7044073	UTM27N_WGS84	Colluvium	BrownLight	Silt	SteepS	B	70	Moist	Good	ForestPine
104907	14/07/2011	MarkHiggins	570498	7044046	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	40	Frozen	Poor	DrainageBrush
104908	14/07/2011	MarkHiggins	570578	7043989	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104909	14/07/2011	MarkHiggins	570611	7043953	UTM27N_WGS84	Colluvium	BrownLight	Silt	SteepN	B	70	Moist	Good	ForestBlackSpruce
104910	14/07/2011	MarkHiggins	570642	7043919	UTM27N_WGS84	Colluvium	BrownLight	Silt	SteepN	C	50	Dry	Good	ForestMixed
104911	14/07/2011	MarkHiggins	570692	7043896	UTM27N_WGS84	Colluvium	Pink	Silt	ModerateS	C	50	Dry	Excellent	ForestBlackSpruce
104912	14/07/2011	MarkHiggins	570742	7043870	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Frozen	Excellent	ForestMixed
104913	14/07/2011	MarkHiggins	570766	7043832	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateW	C	80	Dry	Excellent	ForestMixed
104914	14/07/2011	MarkHiggins	570819	7043803	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
104915	14/07/2011	MarkHiggins	570851	7043771	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	B	40	Dry	Good	ForestMixed
104916	14/07/2011	MarkHiggins	570894	7043737	UTM27N_WGS84	Colluvium	Red	Sand	Flat	B	60	Dry	Excellent	ForestMixed
104917	14/07/2011	MarkHiggins	570928	7043710	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
104918	14/07/2011	MarkHiggins	570969	7043682	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105617	06/07/2011	JoeyTaylor	576687	7034438	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Moist	Good	ForestMixed
105618	06/07/2011	JoeyTaylor	576636	7034421	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	50	Moist	Good	ForestMixed
105619	06/07/2011	JoeyTaylor	576580	7034429	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	60	Moist	Good	ForestAspen
105620	06/07/2011	JoeyTaylor	576535	7034429	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	60	Moist	Good	ForestAspen
105621	06/07/2011	JoeyTaylor	576488	7034417	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	B	40	Moist	Good	ForestAspen
105622	06/07/2011	JoeyTaylor	576440	7034417	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Moist	Good	ForestAspen
105623	06/07/2011	JoeyTaylor	576373	7034401	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Moist	Good	ForestMixed
105624	06/07/2011	JoeyTaylor	576338	7034370	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Moist	Good	ForestMixed
105625	06/07/2011	JoeyTaylor	576289	7034371	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Moist	Good	ForestMixed
105626	06/07/2011	JoeyTaylor	576244	7034362	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Moist	Good	ForestMixed
105627	06/07/2011	JoeyTaylor	576188	7034347	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	50	Moist	Good	ForestMixed
105628	06/07/2011	JoeyTaylor	576149	7034335	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	50	Moist	Good	ForestMixed
105629	06/07/2011	JoeyTaylor	576099	7034318	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateW	B	50	Moist	Good	ForestMixed
105630	06/07/2011	JoeyTaylor	576048	7034306	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateW	B	80	Wet	Good	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
105631	06/07/2011	Joey Taylor	575803	7034241	UTMZ7N_WGS84	Colluvium	Grey	Silt	Swamp	B	30	Wet	Poor	DrainageBrush
105632	06/07/2011	Joey Taylor	575481	7034166	UTMZ7N_WGS84	Colluvium	Grey	Silt	Drainage	B	60	Wet	Poor	ForestMixed
105633	06/07/2011	Joey Taylor	575413	7034146	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNW	B	50	Dry	Poor	ForestMixed
105634	06/07/2011	Joey Taylor	575367	7034136	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNW	B	50	Moist	Poor	ForestMixed
105635	06/07/2011	Joey Taylor	575321	7034121	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNW	B	40	Dry	Poor	ForestMixed
105636	06/07/2011	Joey Taylor	575265	7034108	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	B	50	Moist	Good	ForestMixed
105637	07/07/2011	Joey Taylor	572040	7035873	UTMZ7N_WGS84	Colluvium	Orange	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105638	07/07/2011	Joey Taylor	572000	7035861	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105639	07/07/2011	Joey Taylor	571953	7035857	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105641	07/07/2011	Joey Taylor	571899	7035856	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
105642	07/07/2011	Joey Taylor	571851	7035849	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Good	ForestMixed
105643	07/07/2011	Joey Taylor	571800	7035854	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105644	07/07/2011	Joey Taylor	571758	7035845	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	69	Dry	Excellent	ForestMixed
105645	07/07/2011	Joey Taylor	571714	7035845	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateW	B	60	Wet	Good	ForestMixed
105646	07/07/2011	Joey Taylor	571646	7035831	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateW	B	70	Moist	Good	ForestMixed
105647	07/07/2011	Joey Taylor	571607	7035830	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateW	B	70	Moist	Good	ForestMixed
105648	07/07/2011	Joey Taylor	571557	7035840	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist	Good	ForestMixed
105649	07/07/2011	Joey Taylor	571507	7035833	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
105650	07/07/2011	Joey Taylor	571440	7035824	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateW	B	60	Moist	Poor	ForestMixed
105651	07/07/2011	Joey Taylor	571400	7035833	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateW	B	50	Moist	Good	ForestMixed
105652	07/07/2011	Joey Taylor	571363	7035828	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateW	C	40	Dry	Good	ForestMixed
105653	07/07/2011	Joey Taylor	571315	7035814	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Good	ForestMixed
105654	07/07/2011	Joey Taylor	571265	7035800	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateW	C	70	Dry	Excellent	ForestMixed
105655	07/07/2011	Joey Taylor	571211	7035778	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105656	07/07/2011	Joey Taylor	571173	7035754	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105657	07/07/2011	Joey Taylor	571119	7035734	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
105658	07/07/2011	Joey Taylor	571072	7035732	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
105659	07/07/2011	Joey Taylor	571028	7035715	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
105660	07/07/2011	Joey Taylor	570976	7035699	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
105661	07/07/2011	Joey Taylor	570925	7035692	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105662	07/07/2011	Joey Taylor	570883	7035663	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Excellent	ForestMixed
105663	07/07/2011	Joey Taylor	570843	7035623	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Excellent	ForestMixed
105664	07/07/2011	Joey Taylor	570818	7035589	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
105665	07/07/2011	Joey Taylor	570774	7035557	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Good	ForestMixed
105666	07/07/2011	Joey Taylor	570735	7035522	UTMZ7N_WGS84	Colluvium	Green	Sand	SteepW	C	50	Dry	Excellent	ForestMixed
105667	07/07/2011	Joey Taylor	570700	7035466	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	SteepW	C	60	Dry	Excellent	ForestMixed
105668	07/07/2011	Joey Taylor	570630	7035465	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepSW	B	40	Moist	Good	ForestMixed
105669	07/07/2011	Joey Taylor	570566	7035459	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	SteepSW	C	50	Dry	Excellent	ForestMixed
105670	07/07/2011	Joey Taylor	570513	7035421	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateW	C	80	Dry	Excellent	ForestMixed
105671	07/07/2011	Joey Taylor	570465	7035389	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105672	07/07/2011	Joey Taylor	570445	7035358	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	80	Dry	Excellent	ForestMixed
105673	07/07/2011	Joey Taylor	570410	7035314	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105674	07/07/2011	Joey Taylor	570401	7035274	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105675	07/07/2011	Joey Taylor	570390	7035227	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
105676	08/07/2011	Joey Taylor	570423	7037209	UTMZ7N_WGS84	Colluvium	Blue	Sand	Ridge	C	60	Moist	Excellent	ForestMixed
105677	08/07/2011	Joey Taylor	570460	7037204	UTMZ7N_WGS84	Colluvium	Blue	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
105678	08/07/2011	Joey Taylor	570512	7037193	UTMZ7N_WGS84	Colluvium	Blue	Sand	Ridge	C	50	Moist	Excellent	ForestMixed
105679	08/07/2011	Joey Taylor	570558	7037183	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Frozen	Good	ForestMixed
105680	08/07/2011	Joey Taylor	570606	7037181	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Frozen	Good	ForestBlackSpruce
105681	08/07/2011	Joey Taylor	570668	7037183	UTMZ7N_WGS84	Colluvium	Red	Sand	Ridge	C	60	Dry	Excellent	ForestBlackSpruce
105682	08/07/2011	Joey Taylor	570719	7037186	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	B	40	Dry	Good	ForestBlackSpruce
105683	08/07/2011	Joey Taylor	570761	7037171	UTMZ7N_WGS84	Colluvium	Red	Sand	Ridge	C	60	Dry	Excellent	ForestBlackSpruce
105684	08/07/2011	Joey Taylor	570809	7037177	UTMZ7N_WGS84	Colluvium	Red	Sand	Ridge	C	60	Dry	Good	ForestBlackSpruce
105685	08/07/2011	Joey Taylor	570850	7037178	UTMZ7N_WGS84	Colluvium	Red	Sand	Ridge	C	60	Dry	Excellent	ForestBlackSpruce
105686	08/07/2011	Joey Taylor	570913	7037179	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
105687	08/07/2011	Joey Taylor	570959	7037169	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	B	40	Moist	Good	ForestBlackSpruce
105688	08/07/2011	Joey Taylor	571011	7037164	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Good	ForestBlackSpruce
105689	08/07/2011	Joey Taylor	571049	7037141	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestBlackSpruce
105691	08/07/2011	Joey Taylor	571064	7037189	UTM27N_WGS84	Colluvium	Blue	Sand	ModerateN	C	50	Moist	Excellent	ForestBlackSpruce
105692	08/07/2011	Joey Taylor	571086	7037236	UTM27N_WGS84	Colluvium	Blue	Sand	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
105693	08/07/2011	Joey Taylor	571085	7037293	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateN	B	60	Moist	Good	ForestBlackSpruce
105694	08/07/2011	Joey Taylor	571099	7037340	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
105695	08/07/2011	Joey Taylor	571093	7037383	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Moist	Good	ForestBlackSpruce
105696	08/07/2011	Joey Taylor	571108	7037435	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Dry	Excellent	ForestBlackSpruce
105697	08/07/2011	Joey Taylor	571121	7037480	UTM27N_WGS84	Colluvium	BrownDark	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
105698	08/07/2011	Joey Taylor	571133	7037532	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
105699	08/07/2011	Joey Taylor	571131	7037584	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	ForestBlackSpruce
105700	08/07/2011	Joey Taylor	571151	7037631	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	B	50	Moist	Good	ForestBlackSpruce
105701	08/07/2011	Joey Taylor	571153	7037684	UTM27N_WGS84		BrownLight	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
105702	08/07/2011	Joey Taylor	571166	7037725	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	ForestBlackSpruce
105703	08/07/2011	Joey Taylor	571162	7037781	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	ForestBlackSpruce
105704	08/07/2011	Joey Taylor	571194	7037832	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Frozen	Poor	ForestBlackSpruce
105705	08/07/2011	Joey Taylor	571195	7037882	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Frozen	Good	ForestBlackSpruce
105706	09/07/2011	Joey Taylor	575251	7042188	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist	Poor	ForestBlackSpruce
105707	09/07/2011	Joey Taylor	575302	7042259	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
105708	09/07/2011	Joey Taylor	575352	7042349	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
105709	09/07/2011	Joey Taylor	575451	7042579	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
105710	09/07/2011	Joey Taylor	575441	7042631	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	B	30	Frozen	Poor	ForestBlackSpruce
105711	09/07/2011	Joey Taylor	575458	7042673	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
105712	09/07/2011	Joey Taylor	575481	7042731	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	45	Dry	Good	ForestBlackSpruce
105713	09/07/2011	Joey Taylor	575499	7042776	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Frozen	Poor	ForestBlackSpruce
105714	09/07/2011	Joey Taylor	575509	7042823	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	B	40	Frozen	Poor	ForestBlackSpruce
105715	09/07/2011	Joey Taylor	575521	7042873	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	B	30	Wet	Poor	ForestBlackSpruce
105716	09/07/2011	Joey Taylor	575530	7042920	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Frozen	Poor	ForestBlackSpruce
105717	09/07/2011	Joey Taylor	575571	7042959	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Frozen	Poor	ForestBlackSpruce
105719	09/07/2011	Joey Taylor	575633	7043039	UTM27N_WGS84	Alluvium	Brown	Sand	ModerateNE	B	60	Wet	Excellent	ForestBlackSpruce
105720	09/07/2011	Joey Taylor	575671	7043064	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	60	Frozen	Good	ForestBlackSpruce
105721	09/07/2011	Joey Taylor	575710	7043092	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	50	Frozen	Good	ForestBlackSpruce
105723	09/07/2011	Joey Taylor	575773	7043165	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	30	Frozen	Good	ForestBlackSpruce
105724	09/07/2011	Joey Taylor	575815	7043203	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	40	Frozen	Good	ForestBlackSpruce
105726	09/07/2011	Joey Taylor	575883	7043273	UTM27N_WGS84	Colluvium	Brown	Sand	DrainageSeasonal	B	40	Frozen	Good	ForestBlackSpruce
105727	09/07/2011	Joey Taylor	575933	7043314	UTM27N_WGS84	Colluvium	Brown	Sand	DrainageSeasonal	B	30	Frozen	Good	ForestBlackSpruce
105728	09/07/2011	Joey Taylor	575963	7043350	UTM27N_WGS84	Colluvium	Brown	Silt	DrainageSeasonal	B	40	Wet	Poor	ForestBlackSpruce
105729	09/07/2011	Joey Taylor	575988	7043383	UTM27N_WGS84	Colluvium	Brown	Sand	DrainageSeasonal	C	60	Frozen	Excellent	ForestBlackSpruce
105730	09/07/2011	Joey Taylor	576074	7043471	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	40	Moist	Good	ForestBlackSpruce
105731	09/07/2011	Joey Taylor	576102	7043506	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Good	ForestBlackSpruce
105732	09/07/2011	Joey Taylor	576158	7043540	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	40	Moist	Good	ForestBlackSpruce
105765	11/07/2011	Joey Taylor	567348	7044031	UTM27N_WGS84	Lithosoil	Brown	Sand	Ridge	C	30	Dry	Good	ForestMixed
105766	11/07/2011	Joey Taylor	567318	7043975	UTM27N_WGS84	Colluvium	Brown	Sand	Ridge	C	70	Dry	Excellent	ForestMixed
105767	11/07/2011	Joey Taylor	567315	7043934	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105768	11/07/2011	Joey Taylor	567289	7043890	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105769	11/07/2011	Joey Taylor	567311	7043828	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105770	11/07/2011	Joey Taylor	567294	7043789	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105771	11/07/2011	Joey Taylor	567296	7043730	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105772	11/07/2011	Joey Taylor	567283	7043683	UTM27N_WGS84	Colluvium	Grey	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105773	11/07/2011	Joey Taylor	567293	7043633	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
105774	11/07/2011	Joey Taylor	567274	7043592	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Good	ForestMixed
105775	11/07/2011	Joey Taylor	567265	7043547	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105776	11/07/2011	Joey Taylor	567279	7043488	UTM27N_WGS84	Colluvium	Grey	Clay	ModerateS	B	70	Dry	Good	ForestMixed
105777	11/07/2011	Joey Taylor	567276	7043443	UTM27N_WGS84	Lithosoil	Brown	Gravel	ModerateS	B	30	Moist	Poor	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
105778	11/07/2011	JoeyTaylor	567264	7043412	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Dry	Good	ForestMixed
105779	11/07/2011	JoeyTaylor	567249	7043345	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105780	11/07/2011	JoeyTaylor	567252	7043292	UTMZ7N_WGS84	Colluvium	Grey	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
105781	11/07/2011	JoeyTaylor	567241	7043248	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105782	11/07/2011	JoeyTaylor	567245	7043210	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105783	11/07/2011	JoeyTaylor	567230	7043146	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105784	11/07/2011	JoeyTaylor	567238	7043101	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105785	11/07/2011	JoeyTaylor	567245	7043048	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105786	11/07/2011	JoeyTaylor	567232	7042997	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
105787	11/07/2011	JoeyTaylor	567227	7042942	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105788	11/07/2011	JoeyTaylor	567225	7042908	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Drainage	B	50	Moist	Good	ForestBlackSpruce
105789	11/07/2011	JoeyTaylor	567210	7042843	UTMZ7N_WGS84	Colluvium	Brown	Silt	Drainage	B	70	Moist	Good	ForestPine
105791	11/07/2011	JoeyTaylor	567218	7042784	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Drainage	B	70	Moist	Good	ForestMixed
105792	11/07/2011	JoeyTaylor	567211	7042744	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105793	11/07/2011	JoeyTaylor	567198	7042701	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105794	11/07/2011	JoeyTaylor	567177	7042656	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105795	11/07/2011	JoeyTaylor	567153	7042614	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105796	11/07/2011	JoeyTaylor	567142	7042561	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateS	C	40	Moist	Good	ForestMixed
105797	11/07/2011	JoeyTaylor	567117	7042524	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
105798	11/07/2011	JoeyTaylor	567091	7042506	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
105799	12/07/2011	JoeyTaylor	565974	7044553	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105800	12/07/2011	JoeyTaylor	565978	7044519	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105801	12/07/2011	JoeyTaylor	565952	7044490	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105802	12/07/2011	JoeyTaylor	565926	7044429	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105803	12/07/2011	JoeyTaylor	565913	7044386	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105804	12/07/2011	JoeyTaylor	565881	7044339	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105805	12/07/2011	JoeyTaylor	565874	7044286	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105806	12/07/2011	JoeyTaylor	565838	7044191	UTMZ7N_WGS84	Colluvium	Blue	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105807	12/07/2011	JoeyTaylor	565816	7044141	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Dry	Good	ForestMixed
105808	12/07/2011	JoeyTaylor	565790	7044096	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	Ridge	C	50	Dry	Excellent	ForestMixed
105809	12/07/2011	JoeyTaylor	565780	7044065	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	70	Moist	Excellent	ForestMixed
105810	12/07/2011	JoeyTaylor	565767	7044007	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	SubAlpineAlder
105811	12/07/2011	JoeyTaylor	565735	7043969	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105812	12/07/2011	JoeyTaylor	565716	7043909	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105813	12/07/2011	JoeyTaylor	565690	7043877	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105814	12/07/2011	JoeyTaylor	565684	7043838	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	70	Dry	Excellent	ForestMixed
105815	12/07/2011	JoeyTaylor	565675	7043787	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Good	ForestMixed
105816	12/07/2011	JoeyTaylor	565637	7043731	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	70	Dry	Excellent	ForestMixed
105817	12/07/2011	JoeyTaylor	565610	7043694	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105818	12/07/2011	JoeyTaylor	565572	7043663	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	ForestMixed
105819	12/07/2011	JoeyTaylor	565563	7043597	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Good	ForestMixed
105820	12/07/2011	JoeyTaylor	565531	7043562	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	ForestMixed
105821	12/07/2011	JoeyTaylor	565513	7043514	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Good	ForestMixed
105822	12/07/2011	JoeyTaylor	565477	7043483	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105823	12/07/2011	JoeyTaylor	565467	7043430	UTMZ7N_WGS84	Colluvium	Orange	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105824	12/07/2011	JoeyTaylor	565442	7043382	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	30	Dry	Good	ForestMixed
105825	12/07/2011	JoeyTaylor	565425	7043336	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105826	12/07/2011	JoeyTaylor	565427	7043294	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105827	12/07/2011	JoeyTaylor	565402	7043241	UTMZ7N_WGS84	Colluvium	Green	Sand	Ridge	C	80	Dry	Excellent	ForestMixed
105828	12/07/2011	JoeyTaylor	565419	7043193	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105829	12/07/2011	JoeyTaylor	565407	7043152	UTMZ7N_WGS84	Colluvium	Grey	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105830	12/07/2011	JoeyTaylor	565392	7043092	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105831	12/07/2011	JoeyTaylor	565364	7043054	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105832	12/07/2011	JoeyTaylor	565348	7043002	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	B	40	Dry	Good	ForestMixed
105833	12/07/2011	JoeyTaylor	565303	7042981	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed



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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
105834	12/07/2011	Joey Taylor	565282	7042937	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105835	12/07/2011	Joey Taylor	565249	7042897	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105836	12/07/2011	Joey Taylor	565214	7042863	UTMZ7N_WGS84	Colluvium	Grey	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105837	13/07/2011	Joey Taylor	569445	7044064	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestBlackSpruce
105838	13/07/2011	Joey Taylor	569497	7044060	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105839	13/07/2011	Joey Taylor	569536	7044019	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Excellent	ForestMixed
105841	13/07/2011	Joey Taylor	569570	7043978	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105842	13/07/2011	Joey Taylor	569610	7043965	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105843	13/07/2011	Joey Taylor	569649	7043917	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105844	13/07/2011	Joey Taylor	569688	7043892	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	70	Dry	Excellent	ForestMixed
105845	13/07/2011	Joey Taylor	569729	7043861	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
105846	13/07/2011	Joey Taylor	569774	7043825	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
105847	13/07/2011	Joey Taylor	569816	7043812	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
105848	13/07/2011	Joey Taylor	569851	7043768	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
105849	13/07/2011	Joey Taylor	569900	7043751	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Moist	Excellent	ForestMixed
105850	13/07/2011	Joey Taylor	569922	7043710	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Excellent	ForestMixed
105851	13/07/2011	Joey Taylor	569972	7043688	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Frozen	Good	ForestMixed
105852	13/07/2011	Joey Taylor	570009	7043657	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateS	C	60	Moist	Good	ForestMixed
105853	13/07/2011	Joey Taylor	570056	7043635	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105854	13/07/2011	Joey Taylor	570092	7043595	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
105855	13/07/2011	Joey Taylor	570133	7043570	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105856	13/07/2011	Joey Taylor	570166	7043545	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	B	70	Moist	Good	ForestMixed
105857	13/07/2011	Joey Taylor	570208	7043500	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	70	Moist	Excellent	ForestMixed
105858	13/07/2011	Joey Taylor	570257	7043477	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	70	Moist	Good	ForestMixed
105859	13/07/2011	Joey Taylor	570280	7043436	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	70	Moist	Good	ForestMixed
105860	13/07/2011	Joey Taylor	570330	7043406	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	70	Moist	Good	ForestMixed
105861	13/07/2011	Joey Taylor	570371	7043386	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	ModerateSE	C	60	Moist	Excellent	ForestMixed
105862	13/07/2011	Joey Taylor	570422	7043358	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	40	Moist	Excellent	ForestMixed
105863	13/07/2011	Joey Taylor	570444	7043322	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	60	Moist	Excellent	ForestMixed
105864	13/07/2011	Joey Taylor	570488	7043292	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	70	Moist	Excellent	ForestMixed
105865	13/07/2011	Joey Taylor	570531	7043266	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	60	Dry	Excellent	ForestMixed
105866	13/07/2011	Joey Taylor	570573	7043223	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Frozen	Good	ForestMixed
105867	13/07/2011	Joey Taylor	570605	7043203	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSE	B	60	Frozen	Good	ForestMixed
105868	13/07/2011	Joey Taylor	570652	7043190	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Good	ForestMixed
105869	14/07/2011	Joey Taylor	569977	7044674	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Moist	Good	ForestMixed
105870	14/07/2011	Joey Taylor	570013	7044652	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	40	Moist	Good	ForestMixed
105871	14/07/2011	Joey Taylor	570064	7044631	UTMZ7N_WGS84	Colluvium	Orange	Sand	ModerateSE	C	70	Moist	Excellent	ForestMixed
105872	14/07/2011	Joey Taylor	570094	7044589	UTMZ7N_WGS84	Colluvium	Orange	Sand	ModerateS	C	50	Moist	Excellent	ForestMixed
105873	14/07/2011	Joey Taylor	570136	7044568	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Moist	Excellent	ForestMixed
105874	14/07/2011	Joey Taylor	570177	7044527	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateS	C	50	Moist	Good	ForestMixed
105875	14/07/2011	Joey Taylor	570216	7044509	UTMZ7N_WGS84	Lithosoil	Brown	Sand	ModerateS	C	60	Moist	Excellent	ForestMixed
105876	14/07/2011	Joey Taylor	570254	7044475	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Moist	Excellent	ForestMixed
105877	14/07/2011	Joey Taylor	570288	7044449	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateS	C	70	Moist	Excellent	ForestMixed
105878	14/07/2011	Joey Taylor	570331	7044408	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Moist	Excellent	ForestMixed
105879	14/07/2011	Joey Taylor	570372	7044378	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105880	14/07/2011	Joey Taylor	570412	7044354	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
105881	14/07/2011	Joey Taylor	570451	7044322	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
105882	14/07/2011	Joey Taylor	570610	7044196	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
105883	14/07/2011	Joey Taylor	570657	7044175	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Moist	Good	ForestMixed
105884	14/07/2011	Joey Taylor	570694	7044144	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	Ridge	C	70	Dry	Good	ForestMixed
105885	14/07/2011	Joey Taylor	570715	7044101	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Moist	Good	ForestMixed
105886	14/07/2011	Joey Taylor	570745	7044073	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	70	Dry	Excellent	ForestMixed
105887	14/07/2011	Joey Taylor	570807	7044051	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	ForestMixed
105888	14/07/2011	Joey Taylor	570843	7044024	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	80	Dry	Excellent	ForestMixed
105889	14/07/2011	Joey Taylor	570896	7043989	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	70	Dry	Excellent	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
105891	14/07/2011	JoeyTaylor	570938	7043970	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	ForestMixed
105892	14/07/2011	JoeyTaylor	570977	7043936	UTM27N_WGS84	Colluvium	Orange	Sand		C	50	Dry	Excellent	ForestBlackSpruce
105893	14/07/2011	JoeyTaylor	571012	7043901	UTM27N_WGS84	Colluvium	Orange	Sand		C	70	Dry	Excellent	ForestBlackSpruce
105894	14/07/2011	JoeyTaylor	571059	7043873	UTM27N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	ForestBlackSpruce
105895	14/07/2011	JoeyTaylor	571085	7043844	UTM27N_WGS84	Colluvium	Brown	Gravel		C	60	Dry	Good	ForestMixed
106046	11/07/2011	BenDubois	569678	7040194	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Dry	Excellent	BurnOld
106047	11/07/2011	BenDubois	569724	7040287	UTM27N_WGS84	Soil	Brown	Silt	ModerateN	B	30	Moist	Excellent	BurnOld
106048	11/07/2011	BenDubois	569765	7040377	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Dry	Excellent	BurnOld
106049	11/07/2011	BenDubois	569814	7040462	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Dry	Excellent	BurnOld
106050	11/07/2011	BenDubois	569836	7040576	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Dry	Excellent	BurnOld
106051	11/07/2011	BenDubois	569855	7040654	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Moist	Good	BurnOld
106052	11/07/2011	BenDubois	569887	7040748	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateE	C	50	Dry	Excellent	ForestMixed
106053	11/07/2011	BenDubois	569913	7040861	UTM27N_WGS84	Colluvium	Brown	Gravel	ModerateE	C	60	Dry	Excellent	ForestMixed
106054	11/07/2011	BenDubois	569929	7040946	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Dry	Excellent	ForestMixed
106055	11/07/2011	BenDubois	569941	7041050	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Moist	Good	ForestBlackSpruce
106056	11/07/2011	BenDubois	569932	7041157	UTM27N_WGS84	Soil	Brown	Silt	ModerateE	B	40	Moist	Good	ForestMixed
106057	11/07/2011	BenDubois	569932	7041244	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Moist	Excellent	ForestMixed
106058	11/07/2011	BenDubois	569892	7041294	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist	Good	ForestMixed
106059	11/07/2011	BenDubois	569907	7041356	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist	Poor	ForestMixed
106060	11/07/2011	BenDubois	569906	7041388	UTM27N_WGS84	Soil	Brown	Silt	ModerateN	B	40	Wet	Good	ForestBlackSpruce
106061	11/07/2011	BenDubois	569881	7041444	UTM27N_WGS84	Soil	Brown	Silt	ModerateN	B	70	Moist	Good	ForestBlackSpruce
106062	11/07/2011	BenDubois	569898	7041486	UTM27N_WGS84	Colluvium	Brown	Gravel	ModerateN	C	40	Moist	Good	ForestBlackSpruce
106063	11/07/2011	BenDubois	569871	7041542	UTM27N_WGS84	Soil	Brown	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
106064	11/07/2011	BenDubois	569842	7041574	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	60	Moist	Good	ForestMixed
106065	11/07/2011	BenDubois	569790	7041604	UTM27N_WGS84	Lithosoil	Brown	Gravel	ModerateNW	C	60	Moist	Poor	ForestMixed
106066	11/07/2011	BenDubois	569772	7041656	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	40	Wet	Poor	ForestMixed
106067	11/07/2011	BenDubois	569739	7041704	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	40	Wet	Poor	ForestMixed
106068	11/07/2011	BenDubois	569695	7041740	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	40	Wet	Poor	ForestMixed
106069	11/07/2011	BenDubois	569637	7041810	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	40	Frozen	Poor	ForestBlackSpruce
106070	11/07/2011	BenDubois	569618	7041858	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	60	Frozen	Poor	ForestBlackSpruce
106071	11/07/2011	BenDubois	569586	7041881	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	40	Frozen	Poor	ForestMixed
106072	11/07/2011	BenDubois	569554	7041929	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	60	Frozen	Poor	ForestMixed
106073	11/07/2011	BenDubois	569501	7042008	UTM27N_WGS84	Soil	Brown	Silt	ModerateN	B	30	Frozen	Poor	ForestMixed
106074	11/07/2011	BenDubois	569426	7042084	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	40	Frozen	Poor	ForestBlackSpruce
106075	11/07/2011	BenDubois	569409	7042124	UTM27N_WGS84	Soil	Brown	Silt	ModerateNW	B	30	Frozen	Poor	ForestMixed
106076	11/07/2011	BenDubois	569363	7042154	UTM27N_WGS84	Soil	Brown	Silt	Flat	B	30	Frozen	Poor	ForestBlackSpruce
106077	12/07/2011	BenDubois	568883	7044977	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	B	80	Moist	Poor	ForestBlackSpruce
106078	12/07/2011	BenDubois	568848	7045005	UTM27N_WGS84	Soil	Brown	Silt	ModerateSE	B	70	Moist	Excellent	ForestBlackSpruce
106079	12/07/2011	BenDubois	568835	7045052	UTM27N_WGS84	Soil	Brown	Silt	ModerateSE	B	90	Moist	Excellent	ForestBlackSpruce
106080	12/07/2011	BenDubois	568783	7045081	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Moist	Poor	ForestBlackSpruce
106081	12/07/2011	BenDubois	568748	7045114	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	60	Moist	Good	ForestBlackSpruce
106082	12/07/2011	BenDubois	568712	7045163	UTM27N_WGS84	Soil	Brown	Silt	ModerateSE	B	60	Moist	Good	ForestBlackSpruce
106083	12/07/2011	BenDubois	568697	7045185	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	80	Moist	Good	ForestBlackSpruce
106084	12/07/2011	BenDubois	568642	7045229	UTM27N_WGS84	Soil	Brown	Silt	ModerateSE	B	70	Wet	Poor	ForestBlackSpruce
106085	12/07/2011	BenDubois	568620	7045272	UTM27N_WGS84	Soil	Brown	Silt	ModerateSE	B	70	Moist	Poor	ForestBlackSpruce
106086	12/07/2011	BenDubois	568580	7045311	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Good	ForestBlackSpruce
106087	12/07/2011	BenDubois	568564	7045350	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry	Good	ForestBlackSpruce
106088	12/07/2011	BenDubois	568528	7045385	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	80	Dry	Good	ForestBlackSpruce
106089	12/07/2011	BenDubois	568491	7045418	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateSE	C	90	Frozen	Good	ForestMixed
106091	12/07/2011	BenDubois	568455	7045448	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateS	C	90	Moist	Good	ForestMixed
106092	12/07/2011	BenDubois	568431	7045492	UTM27N_WGS84	Colluvium	Pink	Sand	ModerateS	C	90	Dry	Good	ForestMixed
106093	12/07/2011	BenDubois	568400	7045523	UTM27N_WGS84	Soil	Brown	Silt	ModerateS	C	80	Frozen	Good	ForestBlackSpruce
106094	12/07/2011	BenDubois	568361	7045569	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
106095	12/07/2011	BenDubois	568308	7045570	UTM27N_WGS84	Colluvium	Grey	Silt	Ridge	C	50	Dry	Good	ForestMixed
106096	12/07/2011	BenDubois	568261	7045593	UTM27N_WGS84	Colluvium	Brown	Silt	Ridge	C	80	Frozen	Excellent	ForestMixed

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
106097	12/07/2011	BenDubois	568214	7045584	UTMZ7N_WGS84	Colluvium	Grey	Silt	Ridge	C	90	Moist	Good	ForestBlackSpruce
106098	12/07/2011	BenDubois	568160	7045596	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	ForestMixed
106099	12/07/2011	BenDubois	568117	7045621	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Moist	Good	ForestBlackSpruce
106100	12/07/2011	BenDubois	568071	7045625	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Dry	Excellent	ForestBlackSpruce
106101	12/07/2011	BenDubois	568019	7045631	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateN	B	80	Moist	Good	ForestBlackSpruce
106102	12/07/2011	BenDubois	567970	7045639	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateN	B	50	Moist	Poor	ForestBlackSpruce
106103	12/07/2011	BenDubois	567915	7045651	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateNW	B	50	Frozen	Poor	ForestBlackSpruce
106104	12/07/2011	BenDubois	567864	7045653	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateNW	B	40	Frozen	Good	ForestBlackSpruce
106105	12/07/2011	BenDubois	567823	7045667	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen	Good	ForestBlackSpruce
106106	12/07/2011	BenDubois	567767	7045670	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateNW	B	60	Frozen	Good	ForestBlackSpruce
106107	12/07/2011	BenDubois	567672	7045682	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateNW	B	30	Frozen	Poor	ForestBlackSpruce
106108	12/07/2011	BenDubois	567627	7045694	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateNW	B	60	Frozen	Good	ForestMixed
106109	12/07/2011	BenDubois	567580	7045705	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateNW	B	60	Frozen	Good	ForestMixed
106110	13/07/2011	BenDubois	569205	7043750	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Dry	Excellent	ForestMixed
106111	13/07/2011	BenDubois	569258	7043718	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	80	Dry	Excellent	ForestMixed
106112	13/07/2011	BenDubois	569296	7043688	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	70	Dry	Excellent	ForestMixed
106113	13/07/2011	BenDubois	569341	7043677	UTMZ7N_WGS84		Brown	Sand	ModerateSE	C	70	Dry	Excellent	ForestMixed
106114	13/07/2011	BenDubois	569373	7043627	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateS	C	100	Dry	Excellent	ForestMixed
106115	13/07/2011	BenDubois	569419	7043601	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Good	ForestMixed
106116	13/07/2011	BenDubois	569463	7043570	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateW	B	70	Dry	Good	ForestMixed
106117	13/07/2011	BenDubois	569489	7043539	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	ForestMixed
106118	13/07/2011	BenDubois	569540	7043515	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Moist	Good	ForestMixed
106119	13/07/2011	BenDubois	569579	7043488	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Excellent	ForestMixed
106120	13/07/2011	BenDubois	569613	7043463	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateW	C	30	Dry	Good	ForestMixed
106121	13/07/2011	BenDubois	569661	7043421	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateSW	C	40	Dry	Good	ForestMixed
106122	13/07/2011	BenDubois	569692	7043391	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateSW	C	40	Dry	Good	ForestMixed
106123	13/07/2011	BenDubois	569743	7043360	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Excellent	ForestMixed
106124	13/07/2011	BenDubois	569769	7043343	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateS	C	40	Dry	Good	ForestMixed
106125	13/07/2011	BenDubois	569817	7043304	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	SteepS	C	30	Dry	Poor	ForestMixed
106126	13/07/2011	BenDubois	569850	7043278	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Moist	Good	ForestMixed
106127	13/07/2011	BenDubois	569899	7043249	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Poor	ForestMixed
106128	13/07/2011	BenDubois	569937	7043221	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateS	C	30	Moist	Poor	ForestMixed
106129	13/07/2011	BenDubois	569968	7043191	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateS	C	60	Moist	Good	ForestMixed
106130	13/07/2011	BenDubois	570013	7043159	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Good	ForestMixed
106131	13/07/2011	BenDubois	570055	7043114	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	110	Dry	Excellent	ForestMixed
106132	13/07/2011	BenDubois	570095	7043092	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Good	ForestMixed
106133	13/07/2011	BenDubois	570132	7043065	UTMZ7N_WGS84			Silt	SteepS	C	70	Dry	Good	ForestMixed
106134	13/07/2011	BenDubois	570177	7043041	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepS	C	70	Dry	Good	ForestMixed
106135	13/07/2011	BenDubois	570218	7043005	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepS	C	80	Dry	Good	ForestMixed
106136	13/07/2011	BenDubois	570253	7042972	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Good	ForestMixed
106137	13/07/2011	BenDubois	570299	7042954	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	100	Dry	Good	ForestMixed
106138	13/07/2011	BenDubois	570340	7042916	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
106139	13/07/2011	BenDubois	570381	7042884	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Good	ForestMixed
106141	13/07/2011	BenDubois	570414	7042860	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Good	ForestMixed
106142	13/07/2011	BenDubois	570453	7042814	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Good	ForestMixed
107596	06/07/2011	RandyCampbell	576635	7036121	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	ForestMixed
107597	06/07/2011	RandyCampbell	576659	7036092	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Moist	Good	ForestMixed
107598	06/07/2011	RandyCampbell	576679	7036049	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Moist	Excellent	ForestMixed
107599	06/07/2011	RandyCampbell	576698	7036007	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Moist	Good	ForestMixed
107600	06/07/2011	RandyCampbell	576745	7035982	UTMZ7N_WGS84	Colluvium	Black	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
107601	06/07/2011	RandyCampbell	576770	7035922	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Moist	Good	ForestMixed
107602	06/07/2011	RandyCampbell	576779	7035878	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
107603	06/07/2011	RandyCampbell	576802	7035834	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateE	C	60	Dry	Excellent	ForestMixed
107604	06/07/2011	RandyCampbell	576818	7035787	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	ModerateE	C	50	Dry	Excellent	ForestMixed
107605	06/07/2011	RandyCampbell	576876	7035761	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	30	Dry	Good	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
107606	06/07/2011	RandyCampbell	576930	7035745	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
107607	06/07/2011	RandyCampbell	576980	7035747	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Good	ForestMixed
107608	06/07/2011	RandyCampbell	577026	7035743	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	60	Dry	Excellent	ForestMixed
107609	06/07/2011	RandyCampbell	577070	7035729	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	60	Moist	Good	ForestMixed
107610	06/07/2011	RandyCampbell	577123	7035722	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	50	Moist	Good	ForestMixed
107611	06/07/2011	RandyCampbell	577172	7035713	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	50	Moist	Good	ForestMixed
107612	06/07/2011	RandyCampbell	577224	7035713	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateE	B	50	Moist	Poor	ForestMixed
107613	06/07/2011	RandyCampbell	577264	7035696	UTMZ7N_WGS84		Brown	Silt	ModerateE	B	40	Moist	Good	ForestMixed
107614	06/07/2011	RandyCampbell	577321	7035685	UTMZ7N_WGS84	Colluvium	BrownLight	Gravel	ModerateE	B	40	Moist	Good	ForestMixed
107615	06/07/2011	RandyCampbell	577365	7035682	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	B	40	Moist	Good	ForestMixed
107616	06/07/2011	RandyCampbell	577417	7035670	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	60	Moist	Good	ForestMixed
107617	06/07/2011	RandyCampbell	577471	7035673	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	80	Moist	Good	ForestMixed
107618	06/07/2011	RandyCampbell	577519	7035667	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	40	Moist	Good	ForestMixed
107619	06/07/2011	RandyCampbell	577563	7035658	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	60	Dry	Good	ForestMixed
107620	06/07/2011	RandyCampbell	577614	7035638	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	65	Moist	Good	ForestMixed
107621	06/07/2011	RandyCampbell	577655	7035636	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	60	Moist	Good	ForestMixed
107622	06/07/2011	RandyCampbell	577715	7035626	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	60	Moist	Good	ForestMixed
107623	06/07/2011	RandyCampbell	577769	7035623	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	50	Frozen	Poor	ForestMixed
107624	06/07/2011	RandyCampbell	577816	7035618	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	60	Moist	Good	ForestMixed
107625	06/07/2011	RandyCampbell	577864	7035610	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	60	Moist	Good	ForestMixed
107626	06/07/2011	RandyCampbell	577912	7035602	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	60	Dry	Good	ForestMixed
107627	06/07/2011	RandyCampbell	577957	7035591	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	60	Dry	Good	ForestMixed
107628	07/07/2011	RandyCampbell	576342	7037027	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Moist	Good	ForestMixed
107629	07/07/2011	RandyCampbell	576299	7037002	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Moist	Good	ForestMixed
107630	07/07/2011	RandyCampbell	576214	7036949	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Moist	Poor	ForestMixed
107631	07/07/2011	RandyCampbell	576112	7036902	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Good	ForestMixed
107632	07/07/2011	RandyCampbell	576021	7036875	UTMZ7N_WGS84	Colluvium	RustyRed	Silt	ModerateS	C	40	Dry	Good	ForestMixed
107633	07/07/2011	RandyCampbell	575951	7036797	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Moist	Excellent	ForestMixed
107634	07/07/2011	RandyCampbell	575887	7036718	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	40	Moist	Good	ForestAspen
107635	07/07/2011	RandyCampbell	575813	7036643	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Moist	Good	ForestMixed
107636	07/07/2011	RandyCampbell	575755	7036574	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	50	Dry	Good	ForestMixed
107637	07/07/2011	RandyCampbell	575685	7036496	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Moist	Good	ForestMixed
107638	07/07/2011	RandyCampbell	575618	7036420	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	ForestMixed
107639	07/07/2011	RandyCampbell	575560	7036343	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	ForestMixed
107641	07/07/2011	RandyCampbell	575473	7036296	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Moist	Good	ForestMixed
107642	07/07/2011	RandyCampbell	575381	7036266	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	ForestMixed
107643	07/07/2011	RandyCampbell	575304	7036167	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	ForestMixed
107644	07/07/2011	RandyCampbell	575225	7036128	UTMZ7N_WGS84	Colluvium	Red	Clay	Ridge	B	40	Moist	Good	ForestMixed
107645	07/07/2011	RandyCampbell	575128	7036122	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	ForestMixed
107646	07/07/2011	RandyCampbell	575016	7036101	UTMZ7N_WGS84	Colluvium	Yellow	Gravel	Ridge	C	40	Moist	Good	ForestMixed
107647	07/07/2011	RandyCampbell	574944	7036148	UTMZ7N_WGS84	Colluvium	Yellow	Silt	Ridge	C	60	Dry	Good	ForestMixed
107648	07/07/2011	RandyCampbell	574850	7036135	UTMZ7N_WGS84	Colluvium	RustyOrange	Gravel	Ridge	C	40	Dry	Good	ForestMixed
107649	07/07/2011	RandyCampbell	574747	7036111	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Ridge	B	40	Dry	Poor	ForestMixed
107650	07/07/2011	RandyCampbell	574657	7036080	UTMZ7N_WGS84	Colluvium	Black	Silt	Ridge	C	60	Dry	Good	ForestMixed
107651	07/07/2011	RandyCampbell	574554	7036069	UTMZ7N_WGS84	Colluvium	Grey	Clay	Ridge	B	40	Moist	Good	ForestMixed
107652	07/07/2011	RandyCampbell	574453	7036028	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Poor	ForestMixed
107653	07/07/2011	RandyCampbell	574368	7035987	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
107654	07/07/2011	RandyCampbell	574273	7035948	UTMZ7N_WGS84	Colluvium	Black	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
107655	07/07/2011	RandyCampbell	574177	7035939	UTMZ7N_WGS84	Colluvium	Black	Silt	Ridge	C	65	Dry	Excellent	ForestMixed
107656	07/07/2011	RandyCampbell	574029	7035793	UTMZ7N_WGS84	Colluvium	Black	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
107657	07/07/2011	RandyCampbell	574003	7035704	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Ridge	C	60	Dry	Excellent	ForestMixed
107658	07/07/2011	RandyCampbell	573920	7035585	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Poor	ForestMixed
107659	07/07/2011	RandyCampbell	573866	7035428	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepS	C	40	Dry	Good	ForestMixed
107660	07/07/2011	RandyCampbell	573824	7035292	UTMZ7N_WGS84	Colluvium	Brown	Gravel	SteepS	B	40	Dry	Poor	ForestMixed
107661	08/07/2011	RandyCampbell	576328	7039599	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Frozen	Poor	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
107662	08/07/2011	RandyCampbell	576374	7039558	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	80	Frozen	Poor	ForestBlackSpruce
107663	08/07/2011	RandyCampbell	576428	7039546	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Moist	Good	ForestBlackSpruce
107664	08/07/2011	RandyCampbell	576527	7039468	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	80	Wet	Poor	ForestBlackSpruce
107665	08/07/2011	RandyCampbell	576622	7039411	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Frozen	Poor	ForestBlackSpruce
107666	08/07/2011	RandyCampbell	576708	7039361	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Frozen	Poor	ForestBlackSpruce
107667	08/07/2011	RandyCampbell	576829	7039298	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	B	40	Dry	Good	ForestBlackSpruce
107668	08/07/2011	RandyCampbell	576874	7039268	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	B	60	Moist	Poor	ForestBlackSpruce
107669	08/07/2011	RandyCampbell	576935	7039244	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Moist	Good	ForestMixed
107670	08/07/2011	RandyCampbell	576969	7039212	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Moist	Good	ForestMixed
107671	08/07/2011	RandyCampbell	577012	7039187	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	B	80	Moist	Poor	ForestMixed
107672	08/07/2011	RandyCampbell	576814	7038847	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Good	ForestMixed
107673	08/07/2011	RandyCampbell	576849	7038880	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Dry	Good	ForestMixed
107674	08/07/2011	RandyCampbell	576877	7038915	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Dry	Good	ForestMixed
107675	08/07/2011	RandyCampbell	576903	7038955	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Moist	Good	ForestMixed
107676	08/07/2011	RandyCampbell	576925	7038998	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	ForestMixed
107677	08/07/2011	RandyCampbell	576937	7039038	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	Ridge	C	40	Dry	Excellent	ForestMixed
107678	08/07/2011	RandyCampbell	576975	7039084	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	C	40	Dry	Good	ForestMixed
107679	08/07/2011	RandyCampbell	577009	7039123	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	Ridge	B	50	Dry	Good	ForestMixed
107680	08/07/2011	RandyCampbell	577042	7039159	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	ForestMixed
107681	08/07/2011	RandyCampbell	577106	7039191	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Good	ForestMixed
107682	08/07/2011	RandyCampbell	577133	7039213	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry	Good	ForestMixed
107683	08/07/2011	RandyCampbell	577169	7039249	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	ForestMixed
107684	08/07/2011	RandyCampbell	577199	7039285	UTMZ7N_WGS84	Colluvium	Black	Silt	Ridge	C	50	Dry	Good	ForestMixed
107685	08/07/2011	RandyCampbell	577246	7039320	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	ForestMixed
107686	08/07/2011	RandyCampbell	577288	7039337	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	ForestMixed
107687	08/07/2011	RandyCampbell	577333	7039376	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Good	ForestMixed
107688	08/07/2011	RandyCampbell	577367	7039402	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	ForestMixed
107689	08/07/2011	RandyCampbell	577405	7039433	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Dry	Good	ForestMixed
107691	08/07/2011	RandyCampbell	577437	7039447	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	ForestMixed
107692	08/07/2011	RandyCampbell	577488	7039493	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	ForestMixed
107693	09/07/2011	RandyCampbell	577180	7040275	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	20	Moist	Poor	ForestMixed
107694	09/07/2011	RandyCampbell	577189	7040628	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Poor	ForestMixed
107695	09/07/2011	RandyCampbell	577167	7040715	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	60	Moist	Poor	ForestMixed
107696	09/07/2011	RandyCampbell	577192	7040815	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Moist	Good	ForestMixed
107697	09/07/2011	RandyCampbell	577171	7040970	UTMZ7N_WGS84	Colluvium	Black	Silt	Ridge	C	40	Dry	Good	ForestMixed
107698	09/07/2011	RandyCampbell	577166	7041072	UTMZ7N_WGS84	Colluvium	White	Clay	Ridge	B	40	Moist	Poor	ForestMixed
107699	09/07/2011	RandyCampbell	577180	7041124	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	20	Moist	Poor	ForestMixed
107700	09/07/2011	RandyCampbell	577192	7041217	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	BurnOld
107701	09/07/2011	RandyCampbell	577218	7041300	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	BurnOld
107702	09/07/2011	RandyCampbell	577269	7041362	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	BurnOld
107703	09/07/2011	RandyCampbell	577337	7041435	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Moist	Good	BurnOld
107704	09/07/2011	RandyCampbell	577418	7041485	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	BurnOld
107705	09/07/2011	RandyCampbell	577507	7041543	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Moist	Good	BurnOld
107706	09/07/2011	RandyCampbell	577577	7041606	UTMZ7N_WGS84	Colluvium	Grey	Silt	Ridge	C	60	Dry	Good	BurnOld
107707	09/07/2011	RandyCampbell	577663	7041666	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Poor	BurnOld
107708	09/07/2011	RandyCampbell	577736	7041730	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Good	BurnOld
107709	09/07/2011	RandyCampbell	577811	7041794	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Good	BurnOld
107710	09/07/2011	RandyCampbell	577875	7041863	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	BurnOld
107711	09/07/2011	RandyCampbell	577945	7041945	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	BurnOld
107712	09/07/2011	RandyCampbell	578010	7042019	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	30	Dry	Good	ForestMixed
107713	09/07/2011	RandyCampbell	578059	7042104	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	50	Moist	Good	ForestMixed
107714	09/07/2011	RandyCampbell	578136	7042180	UTMZ7N_WGS84	Colluvium	Yellow	Silt	Ridge	C	50	Dry	Good	ForestMixed
107715	09/07/2011	RandyCampbell	578198	7042254	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Ridge	C	40	Moist	Good	ForestMixed
107716	09/07/2011	RandyCampbell	578258	7042319	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Moist	Good	ForestMixed
107717	09/07/2011	RandyCampbell	578188	7042410	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Good	ForestBlackSpruce

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
107718	09/07/2011	RandyCampbell	578119	7042497	UTMZ7N_WGS84	Colluvium	Red	Clay	Ridge	B	40	Moist	Poor	ForestMixed
107719	09/07/2011	RandyCampbell	578068	7042573	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Moist	Poor	ForestBlackSpruce
107720	09/07/2011	RandyCampbell	578022	7042648	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Moist	Good	ForestBlackSpruce
107721	09/07/2011	RandyCampbell	577904	7042815	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	60	Frozen	Poor	ForestBlackSpruce
107722	09/07/2011	RandyCampbell	577832	7042873	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Frozen	Poor	ForestBlackSpruce
107723	09/07/2011	RandyCampbell	577729	7042929	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Frozen	Poor	ForestBlackSpruce
107724	09/07/2011	RandyCampbell	577611	7043020	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Frozen	Poor	ForestBlackSpruce
107798	12/07/2011	RandyCampbell	569028	7046903	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	ForestBlackSpruce
107799	12/07/2011	RandyCampbell	569039	7046852	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	ForestBlackSpruce
107800	12/07/2011	RandyCampbell	569031	7046792	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Good	ForestBlackSpruce
107801	12/07/2011	RandyCampbell	569003	7046747	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	ForestBlackSpruce
107802	12/07/2011	RandyCampbell	568968	7046703	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	ForestBlackSpruce
107803	12/07/2011	RandyCampbell	568946	7046657	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	B	40	Moist	Good	ForestBlackSpruce
107804	12/07/2011	RandyCampbell	568938	7046613	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	B	40	Moist	Good	ForestBlackSpruce
107805	12/07/2011	RandyCampbell	568924	7046572	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	ForestBlackSpruce
107806	12/07/2011	RandyCampbell	568944	7046525	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	B	30	Moist	Poor	ForestBlackSpruce
107807	12/07/2011	RandyCampbell	568964	7046471	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Good	ForestMixed
107808	12/07/2011	RandyCampbell	569006	7046434	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Good	ForestMixed
107809	12/07/2011	RandyCampbell	569043	7046402	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Poor	ForestMixed
107810	12/07/2011	RandyCampbell	569077	7046370	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Poor	ForestMixed
107811	12/07/2011	RandyCampbell	569103	7046337	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Poor	ForestMixed
107812	12/07/2011	RandyCampbell	569139	7046284	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Good	ForestBlackSpruce
107813	12/07/2011	RandyCampbell	569181	7046248	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Poor	ForestMixed
107814	12/07/2011	RandyCampbell	569205	7046206	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist	Poor	ForestMixed
107815	12/07/2011	RandyCampbell	569228	7046170	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	40	Moist	Good	ForestMixed
107816	12/07/2011	RandyCampbell	569238	7046121	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	ForestMixed
107817	12/07/2011	RandyCampbell	569288	7046094	UTMZ7N_WGS84	Colluvium	RustyRed	Silt	Ridge	B	40	Dry	Good	ForestMixed
107818	12/07/2011	RandyCampbell	569344	7046054	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateS	B	60	Dry	Good	ForestMixed
107819	12/07/2011	RandyCampbell	569385	7046036	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateS	B	60	Dry	Good	ForestMixed
107820	12/07/2011	RandyCampbell	569434	7046017	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateS	B	60	Dry	Poor	ForestMixed
107821	12/07/2011	RandyCampbell	569480	7045991	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	40	Dry	Good	ForestBlackSpruce
107822	12/07/2011	RandyCampbell	569519	7045972	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	40	Dry	Excellent	ForestBlackSpruce
107823	12/07/2011	RandyCampbell	569568	7045956	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Poor	ForestMixed
107824	12/07/2011	RandyCampbell	569611	7045934	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Good	ForestBlackSpruce
107825	12/07/2011	RandyCampbell	569655	7045898	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Moist	Good	ForestBlackSpruce
107826	12/07/2011	RandyCampbell	569698	7045888	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Moist	Good	ForestBlackSpruce
107827	12/07/2011	RandyCampbell	569752	7045867	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateS	B	60	Frozen	Poor	ForestBlackSpruce
107828	12/07/2011	RandyCampbell	569802	7045830	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Dry	Poor	ForestMixed
107829	13/07/2011	RandyCampbell	569388	7043993	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	50	Moist	Good	ForestMixed
107830	13/07/2011	RandyCampbell	569432	7043971	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70	Moist	Good	ForestMixed
107831	13/07/2011	RandyCampbell	569478	7043942	UTMZ7N_WGS84	Lithosoil	Brown	Gravel		B	40	Moist	Poor	ForestBlackSpruce
107832	13/07/2011	RandyCampbell	569509	7043910	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70	Dry	Good	ForestBlackSpruce
107833	13/07/2011	RandyCampbell	569547	7043876	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Moist	Good	ForestMixed
107834	13/07/2011	RandyCampbell	569587	7043842	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestBlackSpruce
107835	13/07/2011	RandyCampbell	569630	7043810	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	30	Moist	Poor	ForestBlackSpruce
107836	13/07/2011	RandyCampbell	569674	7043786	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	ForestBlackSpruce
107837	13/07/2011	RandyCampbell	569711	7043756	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Good	ForestBlackSpruce
107838	13/07/2011	RandyCampbell	569753	7043720	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	ForestBlackSpruce
107839	13/07/2011	RandyCampbell	569793	7043692	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Good	ForestBlackSpruce
107840	13/07/2011	RandyCampbell	569835	7043658	UTMZ7N_WGS84	Lithosoil	Brown	Silt		B	40	Dry	Poor	ForestBlackSpruce
107841	13/07/2011	RandyCampbell	569875	7043632	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Poor	ForestBlackSpruce
107842	13/07/2011	RandyCampbell	569914	7043597	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	40	Dry	Poor	ForestBlackSpruce
107843	13/07/2011	RandyCampbell	569957	7043575	UTMZ7N_WGS84	Colluvium	RustyRed	Silt		C	60	Moist	Good	ForestBlackSpruce
107844	13/07/2011	RandyCampbell	569992	7043544	UTMZ7N_WGS84	Colluvium	RustyRed	Silt		C	60	Moist	Good	ForestBlackSpruce
107845	13/07/2011	RandyCampbell	570025	7043522	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt		C	60	Dry	Excellent	ForestBlackSpruce

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
107846	13/07/2011	RandyCampbell	570072	7043490	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt		C	60	Dry	Excellent	ForestBlackSpruce
107847	13/07/2011	RandyCampbell	570114	7043455	UTMZ7N_WGS84	Colluvium	RustyRed	Silt		C	60	Moist	Good	ForestBlackSpruce
107848	13/07/2011	RandyCampbell	570150	7043426	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	60	Moist	Poor	ForestBlackSpruce
107849	13/07/2011	RandyCampbell	570210	7043389	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	80	Moist	Good	ForestBlackSpruce
107850	13/07/2011	RandyCampbell	570269	7043338	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	60	Moist	Poor	ForestBlackSpruce
107851	13/07/2011	RandyCampbell	570311	7043310	UTMZ7N_WGS84	Colluvium	RustyRed	Silt		C	70	Dry	Good	ForestBlackSpruce
107852	13/07/2011	RandyCampbell	570346	7043275	UTMZ7N_WGS84	Colluvium	RustyRed	Silt		C	70	Dry	Good	ForestBlackSpruce
107853	13/07/2011	RandyCampbell	570388	7043250	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	70	Moist	Good	ForestBlackSpruce
107854	13/07/2011	RandyCampbell	570427	7043217	UTMZ7N_WGS84	Colluvium	Brown	Silt		B	90	Wet	Poor	ForestBlackSpruce
107855	13/07/2011	RandyCampbell	570468	7043188	UTMZ7N_WGS84	Colluvium	Brown	Gravel		B	30	Moist	Poor	ForestBlackSpruce
107856	13/07/2011	RandyCampbell	570514	7043157	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	60	Wet	Poor	ForestBlackSpruce
107857	13/07/2011	RandyCampbell	570545	7043121	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	70	Wet	Poor	ForestBlackSpruce
107858	13/07/2011	RandyCampbell	570578	7043094	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	60	Wet	Poor	ForestBlackSpruce
107859	13/07/2011	RandyCampbell	570635	7043064	UTMZ7N_WGS84	Colluvium	Brown	Clay		B	60	Wet	Poor	ForestBlackSpruce
108810	06/07/2011	BenDubois	572482	7034935	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	80	Moist	Excellent	ForestMixed
108811	06/07/2011	BenDubois	572498	7034886	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Excellent	ForestMixed
108812	06/07/2011	BenDubois	572517	7034825	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	40	Moist	Good	ForestMixed
108813	06/07/2011	BenDubois	572556	7034816	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	70	Dry	Good	ForestMixed
108814	06/07/2011	BenDubois	572596	7034778	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Excellent	ForestMixed
108815	06/07/2011	BenDubois	572620	7034735	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Excellent	ForestMixed
108816	06/07/2011	BenDubois	572652	7034706	UTMZ7N_WGS84	Colluvium	Green	Silt	Flat	C	70	Dry	Excellent	ForestMixed
108817	06/07/2011	BenDubois	572649	7034660	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Good	ForestMixed
108818	06/07/2011	BenDubois	572671	7034605	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	60	Dry	Excellent	ForestMixed
108819	06/07/2011	BenDubois	572707	7034572	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	ForestMixed
108820	06/07/2011	BenDubois	572711	7034515	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Excellent	ForestMixed
108821	06/07/2011	BenDubois	572734	7034461	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Excellent	ForestMixed
108822	06/07/2011	BenDubois	572735	7034423	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Excellent	ForestMixed
108823	06/07/2011	BenDubois	572730	7034361	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	30	Dry	Excellent	ForestMixed
108824	06/07/2011	BenDubois	572707	7034324	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	60	Dry	Excellent	ForestMixed
108825	06/07/2011	BenDubois	572674	7034283	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
108826	06/07/2011	BenDubois	572649	7034244	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	70	Dry	Excellent	ForestMixed
108827	06/07/2011	BenDubois	572615	7034213	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSW	B	80	Moist	Excellent	ForestMixed
108828	06/07/2011	BenDubois	572576	7034158	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	90	Frozen	Excellent	ForestMixed
108829	06/07/2011	BenDubois	572549	7034132	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
108830	06/07/2011	BenDubois	572521	7034089	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Excellent	ForestMixed
108831	06/07/2011	BenDubois	572497	7034043	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Excellent	ForestMixed
108832	06/07/2011	BenDubois	572452	7034013	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSW	B	40	Moist	Good	ForestMixed
108833	06/07/2011	BenDubois	572421	7033968	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
108834	06/07/2011	BenDubois	572415	7033917	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Moist	Good	ForestMixed
108835	06/07/2011	BenDubois	572357	7033885	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	70	Dry	Excellent	ForestMixed
108836	06/07/2011	BenDubois	572331	7033849	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	70	Dry	Excellent	ForestMixed
108837	06/07/2011	BenDubois	572317	7033814	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	70	Dry	Excellent	ForestMixed
108838	06/07/2011	BenDubois	572289	7033766	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	80	Dry	Excellent	ForestMixed
108839	06/07/2011	BenDubois	572233	7033738	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateSW	B	120	Moist	Excellent	ForestAspen
108841	06/07/2011	BenDubois	572209	7033697	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Excellent	ForestAspen
108842	06/07/2011	BenDubois	572211	7033644	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	SteepSE	C	60	Dry	Excellent	ForestAspen
108843	06/07/2011	BenDubois	572163	7033615	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	60	Dry	Excellent	ForestAspen
108844	06/07/2011	BenDubois	572123	7033584	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepSE	C	70	Dry	Excellent	ForestAspen
108845	06/07/2011	BenDubois	572106	7033538	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	100	Dry	Excellent	ForestMixed
108846	07/07/2011	BenDubois	571808	7036629	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	ForestMixed
108847	07/07/2011	BenDubois	571831	7036573	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Excellent	ForestMixed
108848	07/07/2011	BenDubois	571859	7036530	UTMZ7N_WGS84	Colluvium	RustyRed	Silt	Ridge	C	40	Dry	Excellent	ForestAspen
108849	07/07/2011	BenDubois	571874	7036468	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	80	Dry	Excellent	ForestMixed
108850	07/07/2011	BenDubois	571894	7036426	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry	Excellent	ForestMixed
108851	07/07/2011	BenDubois	571936	7036392	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
108852	07/07/2011	BenDubois	571963	7036343	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
108853	07/07/2011	BenDubois	571980	7036299	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry	Good	ForestMixed
108854	07/07/2011	BenDubois	571979	7036263	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
108855	07/07/2011	BenDubois	572037	7036254	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
108856	07/07/2011	BenDubois	572088	7036275	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	60	Dry	Excellent	ForestMixed
108857	07/07/2011	BenDubois	572144	7036300	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Dry	Excellent	ForestBlackSpruce
108858	07/07/2011	BenDubois	572176	7036325	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Moist	Good	ForestMixed
108859	07/07/2011	BenDubois	572223	7036355	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	70	Dry	Excellent	ForestMixed
108860	07/07/2011	BenDubois	572272	7036369	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Moist	Good	ForestMixed
108861	07/07/2011	BenDubois	572311	7036392	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	70	Dry	Excellent	ForestMixed
108862	07/07/2011	BenDubois	572363	7036415	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist	Good	ForestMixed
108863	07/07/2011	BenDubois	572406	7036444	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateE	C	60	Moist	Good	ForestMixed
108864	07/07/2011	BenDubois	572461	7036469	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
108865	07/07/2011	BenDubois	572490	7036494	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	80	Dry	Excellent	ForestMixed
108866	07/07/2011	BenDubois	572530	7036522	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	40	Moist	Good	ForestMixed
108867	07/07/2011	BenDubois	572569	7036546	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	70	Dry	Excellent	ForestMixed
108868	07/07/2011	BenDubois	572621	7036568	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist	Excellent	ForestMixed
108869	07/07/2011	BenDubois	572633	7036610	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	80	Dry	Excellent	ForestMixed
108870	07/07/2011	BenDubois	572665	7036656	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	70	Dry	Excellent	ForestMixed
108871	07/07/2011	BenDubois	572712	7036673	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	70	Dry	Excellent	ForestMixed
108872	07/07/2011	BenDubois	572747	7036714	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	50	Dry	Excellent	ForestMixed
108873	07/07/2011	BenDubois	572795	7036728	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	80	Dry	Excellent	ForestMixed
108874	07/07/2011	BenDubois	572852	7036744	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	70	Moist	Excellent	ForestMixed
108875	07/07/2011	BenDubois	572902	7036751	UTMZ7N_WGS84	Colluvium	Red	Silt	ModerateE	C	80	Moist	Good	ForestMixed
108876	07/07/2011	BenDubois	572936	7036783	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	80	Dry	Excellent	ForestMixed
108877	07/07/2011	BenDubois	572973	7036813	UTMZ7N_WGS84	Lithosoil	Green	Silt	ModerateE	C	50	Dry	Good	ForestMixed
108878	07/07/2011	BenDubois	573026	7036832	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Moist	Good	ForestMixed
108879	08/07/2011	BenDubois	574781	7038967	UTMZ7N_WGS84	OrganicMoss	Brown	Sand	SteepNE	B	40	Frozen	Poor	ForestMixed
108880	08/07/2011	BenDubois	574684	7038906	UTMZ7N_WGS84	OrganicMoss	Brown	Sand	SteepNE	B	30	Frozen	Poor	ForestMixed
108881	08/07/2011	BenDubois	574649	7038885	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepNE	B	40	Frozen	Poor	ForestMixed
108882	08/07/2011	BenDubois	574614	7038854	UTMZ7N_WGS84	Colluvium	Grey	Sand	SteepNE	B	40	Wet	Poor	ForestMixed
108883	08/07/2011	BenDubois	574569	7038825	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepNE	C	70	Moist	Good	ForestBlackSpruce
108884	08/07/2011	BenDubois	574522	7038803	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepNE	C	80	Moist	Excellent	ForestBlackSpruce
108885	08/07/2011	BenDubois	574489	7038764	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	SteepNE	C	50	Moist	Excellent	ForestBlackSpruce
108886	08/07/2011	BenDubois	574448	7038755	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateNE	B	40	Moist	Good	ForestBlackSpruce
108887	08/07/2011	BenDubois	574401	7038709	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	Ridge	C	60	Moist	Excellent	ForestBlackSpruce
108888	08/07/2011	BenDubois	574364	7038670	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	ForestBlackSpruce
108889	08/07/2011	BenDubois	574210	7038968	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	80	Dry	Excellent	ForestBlackSpruce
108891	08/07/2011	BenDubois	574245	7038916	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Dry	Excellent	ForestBlackSpruce
108892	08/07/2011	BenDubois	574274	7038858	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
108893	08/07/2011	BenDubois	574283	7038806	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Dry	Excellent	ForestBlackSpruce
108894	08/07/2011	BenDubois	574308	7038755	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	80	Dry	Excellent	ForestBlackSpruce
108895	08/07/2011	BenDubois	574319	7038710	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
108896	08/07/2011	BenDubois	574314	7038649	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Dry	Excellent	ForestBlackSpruce
108897	08/07/2011	BenDubois	574614	7038438	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	70	Dry	Excellent	ForestBlackSpruce
108898	08/07/2011	BenDubois	574635	7038404	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
108899	08/07/2011	BenDubois	574677	7038376	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
108900	08/07/2011	BenDubois	574565	7038474	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	30	Dry	Good	ForestBlackSpruce
108901	08/07/2011	BenDubois	574515	7038506	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	30	Dry	Good	ForestBlackSpruce
108902	08/07/2011	BenDubois	574484	7038555	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Dry	Excellent	ForestBlackSpruce
108903	08/07/2011	BenDubois	574440	7038578	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry	Excellent	ForestBlackSpruce
108904	08/07/2011	BenDubois	574421	7038609	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	100	Moist	Excellent	ForestBlackSpruce
108905	08/07/2011	BenDubois	574378	7038638	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestBlackSpruce
108906	08/07/2011	BenDubois	574262	7038671	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	ForestBlackSpruce
108907	08/07/2011	BenDubois	574223	7038644	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestBlackSpruce



## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
108908	08/07/2011	BenDubois	574166	7038650	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateW	C	40	Dry	Good	ForestBlackSpruce
108909	08/07/2011	BenDubois	574117	7038644	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateW	B	40	Moist	Good	ForestBlackSpruce
108910	08/07/2011	BenDubois	574055	7038639	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Dry	Excellent	ForestMixed
108911	08/07/2011	BenDubois	574006	7038647	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateW	C	60	Moist	Good	ForestBlackSpruce
108912	08/07/2011	BenDubois	573959	7038618	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateW	B	40	Moist	Good	ForestBlackSpruce
108913	08/07/2011	BenDubois	573907	7038623	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	30	Dry	Poor	ForestMixed
108914	08/07/2011	BenDubois	573864	7038631	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestMixed
108915	08/07/2011	BenDubois	573810	7038617	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Excellent	ForestMixed
108916	08/07/2011	BenDubois	573764	7038603	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	80	Moist	Excellent	ForestMixed
108917	08/07/2011	BenDubois	573708	7038607	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Good	ForestMixed
108918	08/07/2011	BenDubois	573667	7038591	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Excellent	ForestMixed
108919	08/07/2011	BenDubois	573624	7038624	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	80	Dry	Excellent	ForestMixed
108920	08/07/2011	BenDubois	573568	7038623	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestMixed
108921	08/07/2011	BenDubois	573519	7038646	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateW	C	50	Moist	Good	ForestMixed
108922	08/07/2011	BenDubois	573486	7038663	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	40	Frozen	Good	ForestBlackSpruce
108923	08/07/2011	BenDubois	573442	7038668	UTMZ7N_WGS84	Soil	Brown	Sand	ModerateW	B	40	Wet	Poor	ForestBlackSpruce
108924	08/07/2011	BenDubois	573377	7038693	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateW	B	60	Wet	Poor	ForestBlackSpruce
108925	08/07/2011	BenDubois	573327	7038706	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	B	40	Wet	Poor	ForestBlackSpruce
108926	09/07/2011	BenDubois	572656	7041234	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateN	C	70	Wet	Good	ForestBlackSpruce
108927	09/07/2011	BenDubois	572626	7041255	UTMZ7N_WGS84	Colluvium	Orange	Sand	Flat	C	60	Moist	Excellent	ForestBlackSpruce
108928	09/07/2011	BenDubois	572600	7041280	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateN	C	60	Moist	Good	ForestBlackSpruce
108929	09/07/2011	BenDubois	572546	7041300	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Moist	Excellent	ForestBlackSpruce
108930	09/07/2011	BenDubois	572512	7041351	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
108931	09/07/2011	BenDubois	572511	7041409	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
108932	09/07/2011	BenDubois	572475	7041453	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	C	50	Moist	Excellent	ForestBlackSpruce
108933	09/07/2011	BenDubois	572441	7041485	UTMZ7N_WGS84	Lithosoil	Brown	Gravel	ModerateN	B	50	Moist	Good	ForestBlackSpruce
108934	09/07/2011	BenDubois	572408	7041532	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Good	ForestBlackSpruce
108935	09/07/2011	BenDubois	572381	7041578	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateN	B	70	Frozen	Poor	ForestBlackSpruce
108936	09/07/2011	BenDubois	572363	7041619	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	C	50	Moist	Excellent	ForestBlackSpruce
108937	09/07/2011	BenDubois	572339	7041667	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
108938	09/07/2011	BenDubois	572318	7041714	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Dry	Excellent	ForestBlackSpruce
108939	09/07/2011	BenDubois	572293	7041757	UTMZ7N_WGS84	Colluvium	Orange	Sand	Flat	C	70	Dry	Excellent	ForestBlackSpruce
108942	09/07/2011	BenDubois	572287	7041813	UTMZ7N_WGS84	Colluvium	Orange	Silt	Flat	C	70	Frozen	Excellent	ForestBlackSpruce
108943	09/07/2011	BenDubois	572283	7041856	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	ForestBlackSpruce
108944	09/07/2011	BenDubois	572258	7041892	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	50	Dry	Good	ForestBlackSpruce
108945	09/07/2011	BenDubois	572219	7041934	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateN	C	90	Moist	Excellent	ForestBlackSpruce
108946	09/07/2011	BenDubois	572191	7041980	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	70	Wet	Good	ForestBlackSpruce
108947	09/07/2011	BenDubois	572184	7042034	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Moist	Good	ForestBlackSpruce
108948	09/07/2011	BenDubois	572167	7042067	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	B	80	Wet	Good	ForestBlackSpruce
108949	09/07/2011	BenDubois	572164	7042125	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
108950	09/07/2011	BenDubois	572149	7042170	UTMZ7N_WGS84	Soil	BrownDark	Clay	Flat	B	80	Moist	Poor	ForestBlackSpruce
108951	09/07/2011	BenDubois	572150	7042230	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
108952	09/07/2011	BenDubois	572153	7042283	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
108953	09/07/2011	BenDubois	572132	7042326	UTMZ7N_WGS84	Colluvium	Red	Silt	ModerateN	C	60	Moist	Excellent	ForestBlackSpruce
108954	09/07/2011	BenDubois	572129	7042366	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	60	Moist	Good	ForestBlackSpruce
108955	09/07/2011	BenDubois	572119	7042424	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	70	Frozen	Poor	ForestBlackSpruce
108956	09/07/2011	BenDubois	572132	7042478	UTMZ7N_WGS84	Colluvium	Brown	Sand	Flat	C	40	Dry	Good	ForestMixed
108957	09/07/2011	BenDubois	572126	7042521	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	50	Frozen	Poor	ForestBlackSpruce
108958	09/07/2011	BenDubois	572093	7042562	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	90	Frozen	Good	ForestBlackSpruce
108959	09/07/2011	BenDubois	572096	7042617	UTMZ7N_WGS84	Alluvium	Brown	Sand	ModerateN	C	40	Moist	Good	ForestBlackSpruce
109601	06/07/2011	IanLauzon	576582	7036458	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	40	Dry	Good	SubAlpineAlder
109602	06/07/2011	IanLauzon	576556	7036363	UTMZ7N_WGS84	Colluvium	Tan	Silt	Ridge	C	50	Dry	Excellent	SubAlpineAlder
109603	06/07/2011	IanLauzon	576549	7036253	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	30	Dry	Good	SubAlpineAlder
109604	06/07/2011	IanLauzon	576533	7036213	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	40	Dry	Good	SubAlpineAlder
109605	06/07/2011	IanLauzon	576503	7036097	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	30	Dry	Good	SubAlpineAlder

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109606	06/07/2011	IanLauzon	576395	7035998	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Excellent	ForestBirch
109607	06/07/2011	IanLauzon	576349	7035955	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestBirch
109608	06/07/2011	IanLauzon	576230	7035888	UTMZ7N_WGS84	Regolith	Brown	Silt	ModerateSW	B	20	Dry	Poor	ForestMixed
109609	06/07/2011	IanLauzon	576151	7035815	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	B	30	Dry	Poor	ForestBirch
109610	06/07/2011	IanLauzon	576073	7035754	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateSW	C	50	Dry	Excellent	ForestBirch
109611	06/07/2011	IanLauzon	576004	7035666	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	50	Dry	Good	ForestMixed
109612	06/07/2011	IanLauzon	575918	7035627	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
109613	06/07/2011	IanLauzon	575828	7035570	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	B	40	Moist	Good	ForestMixed
109614	06/07/2011	IanLauzon	575754	7035498	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	B	40	Moist	Good	ForestMixed
109615	06/07/2011	IanLauzon	575665	7035463	UTMZ7N_WGS84	Colluvium	Orange	Sand	Flat	C	50	Dry	Good	ForestMixed
109616	06/07/2011	IanLauzon	575581	7035414	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Good	ForestMixed
109617	06/07/2011	IanLauzon	575506	7035344	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	B	50	Dry	Poor	ForestMixed
109618	06/07/2011	IanLauzon	575349	7035174	UTMZ7N_WGS84	Colluvium	Orange	Sand	ModerateSW	C	40	Dry	Excellent	ForestMixed
109619	06/07/2011	IanLauzon	575289	7035091	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
109620	06/07/2011	IanLauzon	575263	7035002	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Moist	Poor	ForestMixed
109621	06/07/2011	IanLauzon	575221	7034914	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
109622	06/07/2011	IanLauzon	575150	7034823	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
109623	06/07/2011	IanLauzon	575116	7034730	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
109624	06/07/2011	IanLauzon	575058	7034643	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
109625	06/07/2011	IanLauzon	575028	7034559	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
109626	06/07/2011	IanLauzon	574906	7034519	UTMZ7N_WGS84	Colluvium	Orange	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
109627	06/07/2011	IanLauzon	574832	7034444	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Poor	ForestMixed
109628	06/07/2011	IanLauzon	574758	7034361	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry	Good	ForestMixed
109629	06/07/2011	IanLauzon	574698	7034292	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	60	Dry	Good	ForestMixed
109630	06/07/2011	IanLauzon	574668	7034192	UTMZ7N_WGS84	Colluvium	Orange	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
109631	06/07/2011	IanLauzon	574581	7034154	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
109632	06/07/2011	IanLauzon	574469	7034140	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	70	Dry	Good	ForestMixed
109633	06/07/2011	IanLauzon	574381	7034117	UTMZ7N_WGS84	Colluvium	Orange	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
109634	06/07/2011	IanLauzon	574269	7034078	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Good	ForestMixed
109635	07/07/2011	IanLauzon	576951	7038150	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Dry	Poor	SubAlpineAlder
109636	07/07/2011	IanLauzon	576963	7038199	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	40	Dry	Good	SubAlpineAlder
109637	07/07/2011	IanLauzon	576947	7038248	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	SubAlpineAlder
109638	07/07/2011	IanLauzon	576967	7038303	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	SubAlpineAlder
109639	07/07/2011	IanLauzon	576970	7038340	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	40	Dry	Good	SubAlpineAlder
109641	07/07/2011	IanLauzon	576958	7038389	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	SubAlpineAlder
109642	07/07/2011	IanLauzon	576926	7038433	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	SubAlpineAlder
109643	07/07/2011	IanLauzon	576921	7038481	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Excellent	SubAlpineAlder
109644	07/07/2011	IanLauzon	576896	7038534	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	40	Dry	Good	SubAlpineAlder
109645	07/07/2011	IanLauzon	576883	7038575	UTMZ7N_WGS84	Colluvium	Orange	Sand	Ridge	C	50	Dry	Good	SubAlpineAlder
109646	07/07/2011	IanLauzon	576851	7038615	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	SubAlpineAlder
109647	07/07/2011	IanLauzon	576805	7038660	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	SubAlpineAlder
109648	07/07/2011	IanLauzon	576800	7038710	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Dry	Good	SubAlpineAlder
109649	07/07/2011	IanLauzon	576779	7038751	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	SubAlpineAlder
109650	07/07/2011	IanLauzon	576762	7038808	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	ForestMixed
109651	07/07/2011	IanLauzon	576709	7038782	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	ForestMixed
109652	07/07/2011	IanLauzon	576679	7038784	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	ForestMixed
109653	07/07/2011	IanLauzon	576618	7038801	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Dry	Good	ForestMixed
109654	07/07/2011	IanLauzon	576583	7038803	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	ForestMixed
109655	07/07/2011	IanLauzon	576255	7038814	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Poor	ForestBlackSpruce
109656	07/07/2011	IanLauzon	576224	7038760	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepSW	B	70	Dry	Poor	ForestBlackSpruce
109657	07/07/2011	IanLauzon	576166	7038745	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Moist	Poor	ForestBlackSpruce
109658	07/07/2011	IanLauzon	576115	7038718	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Poor	ForestBlackSpruce
109659	07/07/2011	IanLauzon	576077	7038689	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Poor	ForestBlackSpruce
109660	07/07/2011	IanLauzon	576032	7038673	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	50	Dry	Excellent	ForestBlackSpruce
109661	07/07/2011	IanLauzon	575981	7038666	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry	Excellent	ForestBlackSpruce

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109662	07/07/2011	IanLauzon	575937	7038652	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Poor	ForestMixed
109663	07/07/2011	IanLauzon	575893	7038622	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
109664	07/07/2011	IanLauzon	575865	7038603	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
109665	07/07/2011	IanLauzon	575808	7038574	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Moist	Poor	ForestMixed
109666	07/07/2011	IanLauzon	575805	7038528	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Moist	Poor	ForestMixed
109667	08/07/2011	IanLauzon	575910	7037234	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
109668	08/07/2011	IanLauzon	575814	7037295	UTMZ7N_WGS84	Colluvium	Orange	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
109669	08/07/2011	IanLauzon	575727	7037319	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Poor	ForestMixed
109670	08/07/2011	IanLauzon	575616	7037318	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Good	ForestMixed
109671	08/07/2011	IanLauzon	575517	7037329	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Ridge	C	50	Dry	Excellent	ForestMixed
109672	08/07/2011	IanLauzon	575455	7037417	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Poor	ForestBlackSpruce
109673	08/07/2011	IanLauzon	575399	7037492	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Dry	Poor	ForestBlackSpruce
109674	08/07/2011	IanLauzon	575311	7037623	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Poor	ForestBlackSpruce
109675	08/07/2011	IanLauzon	575257	7037700	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	ForestBlackSpruce
109676	08/07/2011	IanLauzon	575207	7037794	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Good	ForestBlackSpruce
109677	08/07/2011	IanLauzon	575153	7037881	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	ForestBlackSpruce
109678	08/07/2011	IanLauzon	575070	7037949	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	ForestBlackSpruce
109679	08/07/2011	IanLauzon	575035	7038043	UTMZ7N_WGS84	Colluvium	Orange	Sand	Ridge	C	40	Dry	Good	ForestBlackSpruce
109680	08/07/2011	IanLauzon	574975	7038119	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Moist	Poor	ForestBlackSpruce
109681	08/07/2011	IanLauzon	574914	7038209	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Dry	Good	ForestBlackSpruce
109682	08/07/2011	IanLauzon	574821	7038263	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	40	Moist	Poor	ForestBlackSpruce
109683	08/07/2011	IanLauzon	574765	7038325	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	ForestBlackSpruce
109684	08/07/2011	IanLauzon	574923	7038078	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	40	Moist	Good	ForestBlackSpruce
109685	08/07/2011	IanLauzon	574831	7038037	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	ForestBlackSpruce
109686	08/07/2011	IanLauzon	574747	7037998	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry	Good	ForestBlackSpruce
109687	08/07/2011	IanLauzon	574608	7037923	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Ridge	C	40	Dry	Good	ForestBlackSpruce
109688	08/07/2011	IanLauzon	574510	7037901	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	40	Moist	Good	ForestBlackSpruce
109689	08/07/2011	IanLauzon	574421	7037879	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Excellent	ForestBlackSpruce
109690	08/07/2011	IanLauzon	574320	7037859	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	30	Moist	Poor	ForestBlackSpruce
109692	08/07/2011	IanLauzon	574227	7037831	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateW	C	50	Dry	Good	ForestBlackSpruce
109693	08/07/2011	IanLauzon	574121	7037815	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateNW	B	70	Moist	Poor	ForestBlackSpruce
109694	08/07/2011	IanLauzon	574022	7037834	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	40	Moist	Poor	ForestBlackSpruce
109695	08/07/2011	IanLauzon	573931	7037854	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateNW	C	60	Dry	Excellent	ForestBlackSpruce
109696	08/07/2011	IanLauzon	573829	7037851	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	50	Dry	Good	ForestBlackSpruce
109697	08/07/2011	IanLauzon	573730	7037842	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNW	B	30	Moist	Poor	ForestBlackSpruce
109698	08/07/2011	IanLauzon	573610	7037863	UTMZ7N_WGS84	Colluvium	Orange	Sand	ModerateNW	C	40	Dry	Good	ForestMixed
109699	08/07/2011	IanLauzon	573534	7037892	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Dry	Poor	ForestMixed
109700	08/07/2011	IanLauzon	573444	7037937	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	40	Wet	Poor	ForestBlackSpruce
109701	08/07/2011	IanLauzon	573256	7038045	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Frozen	Poor	ForestBlackSpruce
109702	08/07/2011	IanLauzon	573223	7038094	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	50	Dry	Poor	ForestBlackSpruce
109703	08/07/2011	IanLauzon	573175	7038140	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Frozen	Poor	ForestMixed
109704	09/07/2011	IanLauzon	573459	7041527	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	30	Wet	Poor	ForestBlackSpruce
109705	09/07/2011	IanLauzon	573430	7041558	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109706	09/07/2011	IanLauzon	573369	7041637	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109707	09/07/2011	IanLauzon	573342	7041675	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109708	09/07/2011	IanLauzon	573300	7041717	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109709	09/07/2011	IanLauzon	573267	7041752	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109710	09/07/2011	IanLauzon	573251	7041787	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109711	09/07/2011	IanLauzon	573218	7041824	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109712	09/07/2011	IanLauzon	573088	7041977	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109713	09/07/2011	IanLauzon	573041	7042028	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109714	09/07/2011	IanLauzon	573030	7042084	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109715	09/07/2011	IanLauzon	572968	7042106	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Wet	Poor	ForestMixed
109716	09/07/2011	IanLauzon	572901	7042177	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Dry	Poor	ForestBlackSpruce
109717	09/07/2011	IanLauzon	572864	7042205	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Wet	Poor	ForestBlackSpruce

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
109718	09/07/2011	IanLauzon	572625	7042510	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109719	09/07/2011	IanLauzon	572613	7042656	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	B	50	Dry	Good	ForestBlackSpruce
109720	09/07/2011	IanLauzon	572631	7042746	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	50	Dry	Good	ForestBlackSpruce
109790	12/07/2011	IanLauzon	569271	7046074	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	30	Dry	Poor	ForestMixed
109791	12/07/2011	IanLauzon	569265	7046015	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Dry	Poor	ForestMixed
109792	12/07/2011	IanLauzon	569268	7045972	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Dry	Poor	ForestMixed
109793	12/07/2011	IanLauzon	569276	7045922	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Poor	ForestBlackSpruce
109794	12/07/2011	IanLauzon	569248	7045869	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	ForestMixed
109795	12/07/2011	IanLauzon	569233	7045821	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Dry	Poor	ForestMixed
109796	12/07/2011	IanLauzon	569228	7045776	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Dry	Poor	ForestMixed
109797	12/07/2011	IanLauzon	569256	7045722	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateSW	C	60	Dry	Excellent	ForestBlackSpruce
109798	12/07/2011	IanLauzon	569261	7045675	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
109799	12/07/2011	IanLauzon	569261	7045633	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	B	80	Dry	Good	ForestBlackSpruce
109800	12/07/2011	IanLauzon	569266	7045573	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Good	ForestMixed
109801	12/07/2011	IanLauzon	569269	7045526	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
109802	12/07/2011	IanLauzon	569266	7045472	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	30	Dry	Poor	ForestBlackSpruce
109803	12/07/2011	IanLauzon	569281	7045412	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Poor	ForestBlackSpruce
109804	12/07/2011	IanLauzon	569296	7045376	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Dry	Good	ForestBlackSpruce
109805	12/07/2011	IanLauzon	569336	7045338	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Dry	Good	ForestBlackSpruce
109806	12/07/2011	IanLauzon	570469	7045309	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Dry	Good	ForestBlackSpruce
109807	12/07/2011	IanLauzon	570415	7045321	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
109808	12/07/2011	IanLauzon	570364	7045340	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109809	12/07/2011	IanLauzon	570320	7045382	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
109810	12/07/2011	IanLauzon	570273	7045402	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Moist	Poor	ForestBlackSpruce
109811	12/07/2011	IanLauzon	570248	7045445	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Dry	Poor	ForestBlackSpruce
109812	12/07/2011	IanLauzon	570214	7045475	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Wet	Poor	ForestBlackSpruce
109813	12/07/2011	IanLauzon	570145	7045541	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Wet	Poor	ForestBlackSpruce
109814	12/07/2011	IanLauzon	569944	7045738	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Moist	Poor	ForestMixed
110375	06/07/2011	JoelDemers	572738	7034364	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	35	Dry	Good	ForestMixed
110376	06/07/2011	JoelDemers	572773	7034289	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand		C	40	Dry	Good	ForestMixed
110377	06/07/2011	JoelDemers	572803	7034246	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand		C	40	Dry	Excellent	ForestMixed
110378	06/07/2011	JoelDemers	572852	7034195	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	55	Moist	Good	ForestMixed
110379	06/07/2011	JoelDemers	572863	7034132	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	ForestMixed
110380	06/07/2011	JoelDemers	572906	7034078	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand		C	60	Dry	Excellent	ForestMixed
110381	06/07/2011	JoelDemers	572960	7034044	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70	Moist	Good	ForestMixed
110382	06/07/2011	JoelDemers	572984	7033999	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	55	Moist	Good	ForestMixed
110383	06/07/2011	JoelDemers	573015	7033925	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	75	Moist	Good	ForestMixed
110384	06/07/2011	JoelDemers	573040	7033853	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	55	Dry	Excellent	ForestMixed
110385	06/07/2011	JoelDemers	573061	7033803	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Dry	Good	ForestMixed
110386	06/07/2011	JoelDemers	573093	7033732	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Moist	Excellent	ForestMixed
110387	06/07/2011	JoelDemers	573112	7033669	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	45	Dry	Excellent	ForestMixed
110388	06/07/2011	JoelDemers	573123	7033588	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	55	Moist	Good	ForestMixed
110389	06/07/2011	JoelDemers	573205	7033560	UTMZ7N_WGS84	Colluvium	RustyRed	Sand		C	45	Dry	Excellent	ForestMixed
110391	06/07/2011	JoelDemers	573233	7033509	UTMZ7N_WGS84	Colluvium	RustyRed	Sand		C	40	Dry	Excellent	ForestMixed
110392	06/07/2011	JoelDemers	573192	7033439	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	30	Dry	Good	ForestMixed
110393	06/07/2011	JoelDemers	573204	7033384	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	ForestMixed
110394	06/07/2011	JoelDemers	573252	7033316	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	ForestMixed
110395	06/07/2011	JoelDemers	573249	7033263	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	ForestMixed
110396	06/07/2011	JoelDemers	573217	7033210	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	ForestMixed
110397	06/07/2011	JoelDemers	573203	7033162	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	ForestMixed
110398	06/07/2011	JoelDemers	573240	7033111	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	25	Dry	Excellent	ForestMixed
110399	06/07/2011	JoelDemers	573242	7033077	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	ForestMixed
110455	11/07/2011	JoelDemers	569586	7040201	UTMZ7N_WGS84	Lithosoil	Brown	Silt		C	45	Dry	Excellent	BurnOld
110456	11/07/2011	JoelDemers	569489	7040259	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Excellent	BurnOld
110457	11/07/2011	JoelDemers	569421	7040323	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	55	Frozen	Good	BurnOld

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
110458	11/07/2011	JoelDemers	569347	7040387	UTMZ7N_WGS84	Colluvium	BrownDark	Silt		C	60	Moist	Good	BurnOld
110459	11/07/2011	JoelDemers	569261	7040448	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Moist	Good	BurnOld
110460	11/07/2011	JoelDemers	569175	7040507	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	BurnOld
110461	11/07/2011	JoelDemers	569089	7040573	UTMZ7N_WGS84	Lithosoil	Brown	Silt		C	60	Frozen	Good	BurnOld
110462	11/07/2011	JoelDemers	569023	7040633	UTMZ7N_WGS84	Lithosoil	Brown	Silt		C	40	Moist	Good	BurnOld
110463	11/07/2011	JoelDemers	568960	7040704	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	BurnOld
110464	11/07/2011	JoelDemers	568885	7040771	UTMZ7N_WGS84	Lithosoil	Brown	Sand		C	40	Dry	Excellent	BurnOld
110465	11/07/2011	JoelDemers	568811	7040847	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	BurnOld
110466	11/07/2011	JoelDemers	568782	7040892	UTMZ7N_WGS84	Lithosoil	Brown	Sand		C	45	Moist	Good	BurnOld
110467	11/07/2011	JoelDemers	568737	7040921	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	ForestMixed
110468	11/07/2011	JoelDemers	568714	7040965	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	55	Dry	Excellent	ForestMixed
110469	11/07/2011	JoelDemers	568672	7040997	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Dry	Good	
110470	11/07/2011	JoelDemers	568646	7041049	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	45	Dry	Good	ForestMixed
110471	11/07/2011	JoelDemers	568614	7041086	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	
110472	11/07/2011	JoelDemers	568600	7041127	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	45	Moist	Good	
110473	11/07/2011	JoelDemers	568569	7041163	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
110474	11/07/2011	JoelDemers	568535	7041190	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	75	Moist	Good	ForestMixed
110475	11/07/2011	JoelDemers	568353	7041380	UTMZ7N_WGS84	Colluvium	Grey	Clay		B	60	Moist	Poor	
110476	11/07/2011	JoelDemers	568305	7041464	UTMZ7N_WGS84	Colluvium	BrownDark	Clay		B	40	Frozen	Poor	
110477	11/07/2011	JoelDemers	568220	7041531	UTMZ7N_WGS84	Colluvium	Grey	Clay		B	40	Frozen	Poor	
110478	11/07/2011	JoelDemers	567979	7041805	UTMZ7N_WGS84	Colluvium	Grey	Clay		B	35	Frozen	Poor	
110479	11/07/2011	JoelDemers	567936	7041882	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		B	60	Frozen	Good	
110480	11/07/2011	JoelDemers	567887	7041944	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	60	Frozen	Good	
110482	12/07/2011	JoelDemers	568386	7046358	UTMZ7N_WGS84	Colluvium	BrownDark	Sand		C	70	Moist	Good	
110483	12/07/2011	JoelDemers	568443	7046368	UTMZ7N_WGS84	Colluvium	BrownDark	Silt		B	60	Frozen	Poor	
110484	12/07/2011	JoelDemers	568480	7046392	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	80	Dry	Excellent	
110485	12/07/2011	JoelDemers	568526	7046401	UTMZ7N_WGS84	Lithosoil	Brown	Silt		C	45	Dry	Excellent	
110486	12/07/2011	JoelDemers	568582	7046424	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Dry	Excellent	
110487	12/07/2011	JoelDemers	568627	7046427	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70	Dry	Excellent	
110488	12/07/2011	JoelDemers	568678	7046450	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Dry	Good	
110489	12/07/2011	JoelDemers	568724	7046456	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	75	Dry	Excellent	
110491	12/07/2011	JoelDemers	568766	7046489	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Dry	Excellent	
110492	12/07/2011	JoelDemers	568826	7046505	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
110493	12/07/2011	JoelDemers	568861	7046530	UTMZ7N_WGS84	Colluvium	Green	Silt		C	75	Dry	Excellent	
110494	12/07/2011	JoelDemers	568890	7046511	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt		C	40	Dry	Excellent	
110495	12/07/2011	JoelDemers	568860	7046477	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	
110496	12/07/2011	JoelDemers	568812	7046433	UTMZ7N_WGS84	Colluvium	RustyRed	Sand		C	50	Dry	Excellent	
110497	12/07/2011	JoelDemers	568802	7046387	UTMZ7N_WGS84	Lithosoil	BrownLight	Gravel		C	45	Dry	Excellent	
110498	12/07/2011	JoelDemers	568774	7046344	UTMZ7N_WGS84	Lithosoil	Brown	Gravel		C	35	Dry	Excellent	
110499	12/07/2011	JoelDemers	568753	7046306	UTMZ7N_WGS84	Lithosoil	Brown	Gravel		C	40	Dry	Excellent	
110500	12/07/2011	JoelDemers	568725	7046261	UTMZ7N_WGS84									
110501	12/07/2011	JoelDemers	568689	7046217	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	
110502	12/07/2011	JoelDemers	568658	7046175	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Excellent	
110503	12/07/2011	JoelDemers	568657	7046106	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	35	Dry	Excellent	
110504	12/07/2011	JoelDemers	568627	7046080	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	50	Dry	Excellent	
110505	12/07/2011	JoelDemers	568572	7046071	UTMZ7N_WGS84	Lithosoil	BrownLight	Silt		C	40	Dry	Good	
110506	12/07/2011	JoelDemers	568548	7046020	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	55	Dry	Excellent	
110507	12/07/2011	JoelDemers	568533	7045977	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Excellent	
110508	12/07/2011	JoelDemers	568511	7045914	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Dry	Excellent	
110509	12/07/2011	JoelDemers	568473	7045857	UTMZ7N_WGS84	Colluvium	Pink	Sand		C	60	Dry	Excellent	
110510	12/07/2011	JoelDemers	568518	7045802	UTMZ7N_WGS84	Colluvium	Pink	Silt		C	60	Dry	Excellent	
110511	12/07/2011	JoelDemers	568493	7045758	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	65	Dry	Excellent	
110512	12/07/2011	JoelDemers	568466	7045717	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	65	Dry	Excellent	
110513	12/07/2011	JoelDemers	568429	7045693	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	65	Dry	Excellent	
110514	12/07/2011	JoelDemers	568387	7045663	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	70	Moist	Excellent	

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
110515	12/07/2011	JoelDemers	568359	7045627	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	40	Dry	Good	
110517	13/07/2011	JoelDemers	569663	7044187	UTMZ7N_WGS84	Colluvium	BrownDark	Silt		B	50	Frozen	Poor	
110518	13/07/2011	JoelDemers	569686	7044150	UTMZ7N_WGS84	Colluvium	BrownLight	Sand		C	60	Dry	Excellent	
110519	13/07/2011	JoelDemers				Colluvium	BrownLight	Sand		C	65	Dry	Excellent	
110520	13/07/2011	JoelDemers	569765	7044075	UTMZ7N_WGS84	Colluvium	BrownLight	Silt		C	75	Dry	Excellent	
110521	13/07/2011	JoelDemers	569815	7044034	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Excellent	
110522	13/07/2011	JoelDemers				Colluvium	Brown	Sand		C	45	Dry	Excellent	
110523	13/07/2011	JoelDemers	569886	7043996	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	65	Dry	Excellent	
110524	13/07/2011	JoelDemers	569930	7043961	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	45	Dry	Good	
110525	13/07/2011	JoelDemers	569977	7043928	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	65	Dry	Excellent	
110526	13/07/2011	JoelDemers				Colluvium	Brown	Sand		C	70	Dry	Excellent	
110527	13/07/2011	JoelDemers	570050	7043880	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Moist	Good	
110528	13/07/2011	JoelDemers				Colluvium	Brown	Silt		C	45	Dry	Excellent	
110529	13/07/2011	JoelDemers				Colluvium	Brown	Silt		C	80	Dry	Excellent	
110530	13/07/2011	JoelDemers	570165	7043759	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Moist	Excellent	
110531	13/07/2011	JoelDemers	570243	7043734	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	65	Wet	Good	
110532	13/07/2011	JoelDemers	570301	7043689	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	50	Moist	Good	
110533	13/07/2011	JoelDemers	570339	7043659	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	60	Moist	Good	
110534	13/07/2011	JoelDemers	570374	7043624	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	
110535	13/07/2011	JoelDemers	570413	7043605	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	60	Dry	Excellent	
110536	13/07/2011	JoelDemers	570453	7043579	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	85	Wet	Good	
110537	13/07/2011	JoelDemers	570539	7043523	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	70	Dry	Excellent	
110538	13/07/2011	JoelDemers	570561	7043486	UTMZ7N_WGS84	Colluvium	Brown	Silt		C	80	Moist	Excellent	
110539	13/07/2011	JoelDemers	570726	7043354	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	50	Dry	Excellent	
110541	13/07/2011	JoelDemers	570752	7043349	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Dry	Excellent	
111505	06/07/2011	JordanHarrington	572108	7035686	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateS	C	40	Moist		
111506	06/07/2011	JordanHarrington	572125	7035624	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	30	Moist		
111507	06/07/2011	JordanHarrington	572128	7035570	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	30	Moist		
111508	06/07/2011	JordanHarrington	572143	7035533	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry		
111509	06/07/2011	JordanHarrington	572156	7035485	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	40	Moist		
111510	06/07/2011	JordanHarrington	572175	7035429	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateS	C	40	Dry		
111511	06/07/2011	JordanHarrington	572186	7035371	UTMZ7N_WGS84	Colluvium	Green	Silt	Flat	C	60	Dry		
111512	06/07/2011	JordanHarrington	572184	7035337	UTMZ7N_WGS84	Lithosoil	RustyOrange	Sand	Flat	C	30	Moist		
111513	06/07/2011	JordanHarrington	572206	7035295	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	C	40	Moist		
111514	06/07/2011	JordanHarrington	572221	7035231	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Moist		
111515	06/07/2011	JordanHarrington	572237	7035193	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Moist		
111516	06/07/2011	JordanHarrington	572268	7035157	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	60	Dry		
111517	06/07/2011	JordanHarrington	572317	7035115	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry		
111518	06/07/2011	JordanHarrington	572336	7035080	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	50	Moist		
111519	06/07/2011	JordanHarrington	572382	7035057	UTMZ7N_WGS84	Colluvium	Red	Clay	ModerateSE	C	60	Moist		
111520	06/07/2011	JordanHarrington	572412	7035012	UTMZ7N_WGS84	Soil	RustyOrange	Sand	Flat	C	40	Dry		
111521	06/07/2011	JordanHarrington	572375	7034985	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist		
111522	06/07/2011	JordanHarrington	572331	7034966	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Moist		
111523	06/07/2011	JordanHarrington	572275	7034950	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry		
111524	06/07/2011	JordanHarrington	572242	7034932	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist		
111525	06/07/2011	JordanHarrington	572191	7034910	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateSW	C	40	Dry		
111526	06/07/2011	JordanHarrington	572144	7034911	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry		
111527	06/07/2011	JordanHarrington	572095	7034887	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Moist		
111528	06/07/2011	JordanHarrington	572052	7034859	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateSW	C	50	Moist		
111529	06/07/2011	JordanHarrington	572005	7034822	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Moist		
111530	06/07/2011	JordanHarrington	571970	7034788	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry		
111531	06/07/2011	JordanHarrington	571944	7034764	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry		
111532	06/07/2011	JordanHarrington	571915	7034727	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateSW	C	60	Dry		
111533	06/07/2011	JordanHarrington	571869	7034692	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry		
111534	06/07/2011	JordanHarrington	571810	7034678	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	SteepSW	C	40	Dry		

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111535	06/07/2011	JordanHarrington	571769	7034649	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepSW	C	60	Dry		
111536	06/07/2011	JordanHarrington	571707	7034619	UTMZ7N_WGS84	Colluvium	Brown	Sand	SteepSW	C	30	Moist		
111537	06/07/2011	JordanHarrington	571672	7034573	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	SteepSW	C	50	Dry		
111538	07/07/2011	JordanHarrington	575481	7037296	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	B	20	Moist		
111539	07/07/2011	JordanHarrington	575443	7037262	UTMZ7N_WGS84	Lithosoil	RustyOrange	Silt	ModerateSW	C	40	Moist		
111541	07/07/2011	JordanHarrington	575426	7037209	UTMZ7N_WGS84	Lithosoil	RustyOrange	Silt	ModerateSW	C	40	Dry		
111542	07/07/2011	JordanHarrington	575377	7037196	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	50	Dry		
111543	07/07/2011	JordanHarrington	575333	7037154	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	20	Moist		
111544	07/07/2011	JordanHarrington	575298	7037128	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	40	Moist		
111545	07/07/2011	JordanHarrington	575262	7037091	UTMZ7N_WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	50	Moist		
111546	07/07/2011	JordanHarrington	575207	7037071	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry		
111547	07/07/2011	JordanHarrington	575166	7037074	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist		
111548	07/07/2011	JordanHarrington	574686	7036960	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist		
111549	07/07/2011	JordanHarrington	574638	7036948	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	30	Dry		
111550	07/07/2011	JordanHarrington	574579	7036915	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Dry		
111551	07/07/2011	JordanHarrington	574548	7036888	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Dry		
111552	07/07/2011	JordanHarrington	574515	7036851	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	40	Dry		
111553	07/07/2011	JordanHarrington	574487	7036821	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Wet		
111554	07/07/2011	JordanHarrington	574444	7036788	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateSW	C	40	Dry		
111555	07/07/2011	JordanHarrington	574390	7036770	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateSW	C	40	Dry		
111556	07/07/2011	JordanHarrington	574361	7036724	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Flat	C	40	Dry		
111557	07/07/2011	JordanHarrington	574320	7036695	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	60	Dry		
111558	07/07/2011	JordanHarrington	574273	7036669	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	40	Dry		
111559	07/07/2011	JordanHarrington	574238	7036642	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist		
111560	07/07/2011	JordanHarrington	574200	7036610	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	40	Dry		
111561	07/07/2011	JordanHarrington	574157	7036574	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	60	Dry		
111562	07/07/2011	JordanHarrington	574117	7036557	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Frozen		
111563	07/07/2011	JordanHarrington	574068	7036516	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateSW	C	30	Moist		
111564	07/07/2011	JordanHarrington	574028	7036496	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	50	Moist		
111565	07/07/2011	JordanHarrington	573997	7036461	UTMZ7N_WGS84	Lithosoil	Green	Silt	ModerateSW	C	30	Wet		
111566	07/07/2011	JordanHarrington	573948	7036432	UTMZ7N_WGS84	Lithosoil	Green	Silt	ModerateSW	C	30	Moist		
111567	07/07/2011	JordanHarrington	573904	7036397	UTMZ7N_WGS84	Colluvium	Green	Sand	SteepSW	C	40	Moist		
111568	07/07/2011	JordanHarrington	573869	7036379	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepSW	C	40	Moist		
111569	07/07/2011	JordanHarrington	573852	7036336	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepSW	C	100	Dry		
111570	07/07/2011	JordanHarrington	573801	7036308	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	100	Frozen		
111571	07/07/2011	JordanHarrington	573740	7036278	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	80	Dry		
111572	07/07/2011	JordanHarrington	573716	7036233	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Moist		
111573	07/07/2011	JordanHarrington	573676	7036204	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepSW	C	40	Dry		
111574	08/07/2011	JordanHarrington	576542	7038816	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Moist		
111575	08/07/2011	JordanHarrington	576487	7038825	UTMZ7N_WGS84	Soil	Green	Silt	Ridge	C	50	Dry		
111576	08/07/2011	JordanHarrington	576433	7038833	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	80	Dry		
111577	08/07/2011	JordanHarrington	576381	7038831	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	40	Dry		
111578	08/07/2011	JordanHarrington	576339	7038835	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist		
111579	08/07/2011	JordanHarrington	576294	7038840	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Dry		
111580	08/07/2011	JordanHarrington	576249	7038871	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	30	Moist		
111581	08/07/2011	JordanHarrington	576214	7038907	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen		
111582	08/07/2011	JordanHarrington	576178	7038938	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Frozen		
111583	08/07/2011	JordanHarrington	576141	7038969	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Frozen		
111584	08/07/2011	JordanHarrington	576105	7039010	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry		
111585	08/07/2011	JordanHarrington	576060	7039032	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	20	Frozen		
111586	08/07/2011	JordanHarrington	576007	7039070	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen		
111587	08/07/2011	JordanHarrington	575964	7039087	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen		
111588	08/07/2011	JordanHarrington	575925	7039114	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen		
111589	08/07/2011	JordanHarrington	575888	7039126	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry		
111591	08/07/2011	JordanHarrington	575841	7039126	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	30	Moist		

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111592	08/07/2011	JordanHarrington	575782	7039125	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	30	Frozen		
111593	08/07/2011	JordanHarrington	575734	7039128	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry		
111594	08/07/2011	JordanHarrington	575684	7039130	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateW	C	50	Dry		
111595	08/07/2011	JordanHarrington	575624	7039133	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNW	B	30	Frozen		
111596	08/07/2011	JordanHarrington	575582	7039139	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist		
111597	08/07/2011	JordanHarrington	575533	7039164	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen		
111598	08/07/2011	JordanHarrington	575489	7039168	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry		
111599	08/07/2011	JordanHarrington	575437	7039189	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen		
111600	08/07/2011	JordanHarrington	575397	7039204	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	70	Frozen		
111601	08/07/2011	JordanHarrington	575343	7039214	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen		
111602	08/07/2011	JordanHarrington	575298	7039224	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen		
111603	08/07/2011	JordanHarrington	575240	7039239	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry		
111604	08/07/2011	JordanHarrington	575204	7039255	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepNW	C	30	Dry		
111605	08/07/2011	JordanHarrington	575147	7039259	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	70	Frozen		
111606	08/07/2011	JordanHarrington	575094	7039278	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	C	60	Frozen		
111607	08/07/2011	JordanHarrington	575045	7039294	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Frozen		
111608	09/07/2011	JordanHarrington	575231	7042123	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	B	50	Frozen		
111609	09/07/2011	JordanHarrington	575274	7042212	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	60	Frozen		
111610	09/07/2011	JordanHarrington	575326	7042319	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	30	Frozen		
111611	09/07/2011	JordanHarrington	575372	7042402	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	20	Moist		
111612	09/07/2011	JordanHarrington	575425	7042482	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Frozen		
111613	09/07/2011	JordanHarrington	575394	7042577	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNW	B	30	Frozen		
111614	09/07/2011	JordanHarrington	575369	7042608	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Wet		
111615	09/07/2011	JordanHarrington	575323	7042645	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	30	Wet		
111616	09/07/2011	JordanHarrington	575297	7042669	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	20	Wet		
111617	09/07/2011	JordanHarrington	575260	7042706	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateN	C	60	Frozen		
111618	09/07/2011	JordanHarrington	575225	7042758	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	20	Frozen		
111619	09/07/2011	JordanHarrington	575189	7042788	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	20	Wet		
111620	09/07/2011	JordanHarrington	575157	7042830	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111621	09/07/2011	JordanHarrington	575117	7042862	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111622	09/07/2011	JordanHarrington	575078	7042909	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111623	09/07/2011	JordanHarrington	575042	7042935	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Frozen		
111624	09/07/2011	JordanHarrington	575017	7042977	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Frozen		
111625	09/07/2011	JordanHarrington	574987	7043000	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111626	09/07/2011	JordanHarrington	574953	7043037	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	C	60	Frozen		
111627	09/07/2011	JordanHarrington	574913	7043063	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	C	60	Frozen		
111628	09/07/2011	JordanHarrington	574894	7043116	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Frozen		
111629	09/07/2011	JordanHarrington	574854	7043157	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111630	09/07/2011	JordanHarrington	574817	7043190	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	70	Frozen		
111631	09/07/2011	JordanHarrington	574792	7043233	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111632	09/07/2011	JordanHarrington	574761	7043265	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111633	09/07/2011	JordanHarrington	574736	7043325	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111634	09/07/2011	JordanHarrington	574726	7043375	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111635	09/07/2011	JordanHarrington	574690	7043454	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
111667	11/07/2011	JordanHarrington	570516	7039598	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	50	Dry	Good	ForestBlackSpruce
111668	11/07/2011	JordanHarrington	570523	7039652	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Dry	Good	ForestMixed
111669	11/07/2011	JordanHarrington	570516	7039695	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist	Good	BurnOld
111670	11/07/2011	JordanHarrington	570532	7039747	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	B	30	Frozen	Good	ForestMixed
111671	11/07/2011	JordanHarrington	570527	7039806	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Frozen	Good	ForestBlackSpruce
111672	11/07/2011	JordanHarrington	570536	7039854	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	40	Frozen	Good	ForestBlackSpruce
111673	11/07/2011	JordanHarrington	570545	7039895	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	50	Frozen	Good	ForestBlackSpruce
111674	11/07/2011	JordanHarrington	570567	7039944	UTMZ7N_WGS84	Lithosoil	Brown	Sand	ModerateNE	C	60	Frozen	Good	ForestBlackSpruce
111675	11/07/2011	JordanHarrington	570593	7039990	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateNE	B	40	Frozen	Poor	ForestBlackSpruce
111676	11/07/2011	JordanHarrington	570619	7040033	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Frozen	Good	ForestBlackSpruce
111677	11/07/2011	JordanHarrington	570632	7040069	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Frozen	Good	ForestBlackSpruce



## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111678	11/07/2011	JordanHarrington	570638	7040128	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Frozen	Good	ForestBlackSpruce
111679	11/07/2011	JordanHarrington	570646	7040186	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateNE	C	40	Dry	Good	BurnOld
111680	11/07/2011	JordanHarrington	570656	7040249	UTM27N_WGS84	Lithosoil	Brown	Silt	Flat	B	30	Frozen	Good	BurnOld
111681	11/07/2011	JordanHarrington	570663	7040315	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	40	Moist	Good	ForestBlackSpruce
111682	11/07/2011	JordanHarrington	570659	7040359	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	30	Moist	Good	ForestMixed
111683	11/07/2011	JordanHarrington	570641	7040396	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist	Good	BurnOld
111684	11/07/2011	JordanHarrington	570625	7040445	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	70	Frozen	Good	BurnOld
111685	11/07/2011	JordanHarrington	570594	7040483	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Frozen	Good	BurnOld
111686	11/07/2011	JordanHarrington	570575	7040534	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen	Good	BurnOld
111687	11/07/2011	JordanHarrington	570560	7040578	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Frozen	Good	ForestMixed
111688	11/07/2011	JordanHarrington	570542	7040628	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Frozen	Good	ForestMixed
111689	11/07/2011	JordanHarrington	570511	7040672	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	80	Frozen	Good	ForestMixed
111691	11/07/2011	JordanHarrington	570493	7040717	UTM27N_WGS84	Glacial	Brown	Sand	ModerateNW	C	40	Wet	Good	ForestBlackSpruce
111692	11/07/2011	JordanHarrington	570467	7040763	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Wet	Good	ForestMixed
111693	11/07/2011	JordanHarrington	570440	7040801	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateNW	B	40	Wet	Good	DrainageBrush
111694	11/07/2011	JordanHarrington	570437	7040860	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateNW	C	50	Frozen	Good	ForestMixed
111695	12/07/2011	JordanHarrington	569309	7047820	UTM27N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Frozen	Good	ForestMixed
111696	12/07/2011	JordanHarrington	569311	7047756	UTM27N_WGS84	Colluvium	Brown	Silt	Ridge	C	40	Moist	Good	ForestMixed
111697	12/07/2011	JordanHarrington	569307	7047705	UTM27N_WGS84	Regolith	RustyOrange	Sand	Ridge	C	30	Dry	Good	ForestMixed
111698	12/07/2011	JordanHarrington	569320	7047653	UTM27N_WGS84	Regolith	Brown	Sand	Ridge	C	30	Moist	Good	ForestMixed
111699	12/07/2011	JordanHarrington	569332	7047615	UTM27N_WGS84	Colluvium	RustyOrange	Silt	Ridge	C	40	Frozen	Good	ForestMixed
111700	12/07/2011	JordanHarrington	569323	7047555	UTM27N_WGS84	Regolith	RustyOrange	Sand	Ridge	C	30	Moist	Good	ForestMixed
111701	12/07/2011	JordanHarrington	569316	7047490	UTM27N_WGS84	Colluvium	Brown	Sand	SteepSW	C	40	Moist	Good	ForestAspen
111702	12/07/2011	JordanHarrington	569291	7047444	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Frozen	Excellent	ForestMixed
111703	12/07/2011	JordanHarrington	569250	7047424	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111704	12/07/2011	JordanHarrington	569192	7047371	UTM27N_WGS84	Colluvium	Tan	Sand	ModerateSW	C	70	Dry	Good	ForestMixed
111705	12/07/2011	JordanHarrington	569147	7047309	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	80	Moist	Excellent	ForestMixed
111706	12/07/2011	JordanHarrington	569104	7047273	UTM27N_WGS84	Colluvium	Tan	Sand	ModerateS	C	40	Dry	Good	ForestMixed
111707	12/07/2011	JordanHarrington	569064	7047231	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111708	12/07/2011	JordanHarrington	569056	7047169	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Good	ForestMixed
111709	12/07/2011	JordanHarrington	569025	7047089	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Good	ForestMixed
111710	12/07/2011	JordanHarrington	569024	7047048	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111711	12/07/2011	JordanHarrington	569179	7047286	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Frozen	Excellent	ForestMixed
111712	12/07/2011	JordanHarrington	569214	7047240	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
111713	12/07/2011	JordanHarrington	569240	7047215	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Frozen	Excellent	ForestMixed
111714	12/07/2011	JordanHarrington	569285	7047181	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Moist	Good	ForestMixed
111715	12/07/2011	JordanHarrington	569313	7047137	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Frozen	Good	ForestMixed
111716	12/07/2011	JordanHarrington	569334	7047095	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSE	C	50	Moist	Good	ForestMixed
111717	12/07/2011	JordanHarrington	569371	7047055	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Good	ForestMixed
111718	12/07/2011	JordanHarrington	569413	7047025	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Frozen	Good	ForestMixed
111719	12/07/2011	JordanHarrington	569466	7046999	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Moist	Good	ForestMixed
111720	12/07/2011	JordanHarrington	569499	7046969	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Moist	Good	ForestMixed
111721	12/07/2011	JordanHarrington	569550	7046948	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Good	ForestMixed
111722	12/07/2011	JordanHarrington	569580	7046914	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	60	Frozen	Good	ForestMixed
111723	12/07/2011	JordanHarrington	569620	7046873	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	60	Frozen	Good	ForestMixed
111724	12/07/2011	JordanHarrington	569654	7046841	UTM27N_WGS84	Lithosoil	Brown	Silt	ModerateSE	C	30	Moist	Good	ForestMixed
111725	12/07/2011	JordanHarrington	569690	7046780	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateSE	C	70	Frozen	Excellent	ForestMixed
111726	12/07/2011	JordanHarrington	569701	7046726	UTM27N_WGS84	Colluvium	Green	Silt	ModerateSE	C	60	Frozen	Good	ForestMixed
111727	12/07/2011	JordanHarrington	569694	7046677	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	50	Dry	Good	ForestMixed
111728	12/07/2011	JordanHarrington	569743	7046631	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	90	Frozen	Good	ForestMixed
111729	12/07/2011	JordanHarrington	569753	7046581	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	40	Dry	Good	ForestAspen
111730	13/07/2011	JordanHarrington	569334	7043911	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Frozen	Good	ForestMixed
111731	13/07/2011	JordanHarrington	569386	7043888	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateW	C	40	Dry	Good	ForestMixed
111732	13/07/2011	JordanHarrington	569421	7043856	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Good	ForestMixed
111733	13/07/2011	JordanHarrington	569443	7043817	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	70	Frozen	Good	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
111734	13/07/2011	JordanHarrington	569533	7043771	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
111735	13/07/2011	JordanHarrington	569581	7043743	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSW	C	60	Dry	Good	ForestMixed
111736	13/07/2011	JordanHarrington	569616	7043717	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Good	ForestMixed
111737	13/07/2011	JordanHarrington	569647	7043669	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Good	ForestMixed
111738	13/07/2011	JordanHarrington	569686	7043666	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
111739	13/07/2011	JordanHarrington	569740	7043615	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Good	ForestMixed
111741	13/07/2011	JordanHarrington	569779	7043576	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Moist	Good	ForestMixed
111742	13/07/2011	JordanHarrington	569820	7043558	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Moist	Good	ForestMixed
111743	13/07/2011	JordanHarrington	569855	7043512	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	60	Moist	Good	ForestMixed
111744	13/07/2011	JordanHarrington	569895	7043492	UTM27N_WGS84	Lithosoil	Brown	Sand	ModerateS	C	40	Frozen	Good	ForestMixed
111745	13/07/2011	JordanHarrington	569932	7043463	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Frozen	Good	ForestMixed
111746	13/07/2011	JordanHarrington	569963	7043429	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Frozen	Good	ForestMixed
111747	13/07/2011	JordanHarrington	570011	7043411	UTM27N_WGS84	Colluvium	RustyRed	Silt	ModerateSE	C	40	Frozen	Good	ForestMixed
111748	13/07/2011	JordanHarrington	570058	7043382	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Frozen	Good	ForestMixed
111749	13/07/2011	JordanHarrington	570100	7043347	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	30	Dry	Excellent	ForestMixed
111750	13/07/2011	JordanHarrington	570134	7043317	UTM27N_WGS84	Colluvium	RustyRed	Sand	ModerateSE	C	60	Frozen	Excellent	ForestMixed
111751	13/07/2011	JordanHarrington	570173	7043291	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Moist	Good	ForestMixed
111752	13/07/2011	JordanHarrington	570206	7043258	UTM27N_WGS84	Colluvium	RustyOrange	Silt	ModerateSE	C	80	Frozen	Excellent	ForestMixed
111753	13/07/2011	JordanHarrington	570257	7043224	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
111754	13/07/2011	JordanHarrington	570288	7043205	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSE	C	70	Frozen	Excellent	ForestMixed
111755	13/07/2011	JordanHarrington	570341	7043167	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	70	Frozen	Good	ForestMixed
111756	13/07/2011	JordanHarrington	570386	7043136	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	90	Frozen	Good	ForestMixed
111757	13/07/2011	JordanHarrington	570417	7043093	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Frozen	Good	ForestMixed
111758	13/07/2011	JordanHarrington	570459	7043054	UTM27N_WGS84	Colluvium	Brown	Silt	Flat	B	70	Wet	Good	ForestMixed
111759	13/07/2011	JordanHarrington	570508	7043007	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateSE	B	60	Wet	Poor	ForestMixed
111760	13/07/2011	JordanHarrington	570565	7042975	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateSE	C	60	Wet	Poor	ForestMixed
113229	06/07/2011	LauraRatcliffe	573436	7035339	UTM27N_WGS84	Soil	BrownDark	Silt	Flat	B	30	Wet	Poor	DrainageAlder
113230	06/07/2011	LauraRatcliffe	573397	7035360	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSE	B	30	Wet	Good	ForestMixed
113231	06/07/2011	LauraRatcliffe	573370	7035381	UTM27N_WGS84	Colluvium	BrownLight	Sand	SteepSE	C	50	Dry	Excellent	ForestMixed
113232	06/07/2011	LauraRatcliffe	573311	7035398	UTM27N_WGS84	Colluvium	Tan	Silt	SteepSE	C	35	Dry	Excellent	ForestMixed
113233	06/07/2011	LauraRatcliffe	573259	7035396	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	65	Dry	Excellent	ForestMixed
113234	06/07/2011	LauraRatcliffe	573224	7035416	UTM27N_WGS84	Colluvium	Tan	Silt	ModerateSE	C	55	Dry	Good	ForestMixed
113235	06/07/2011	LauraRatcliffe	573176	7035437	UTM27N_WGS84	Colluvium	Brown	Sand	SteepSE	C	60	Dry	Excellent	ForestMixed
113236	06/07/2011	LauraRatcliffe	573118	7035447	UTM27N_WGS84	Colluvium	Brown	Silt	SteepSE	C	40	Dry	Good	ForestMixed
113237	06/07/2011	LauraRatcliffe	573070	7035456	UTM27N_WGS84	Colluvium	Tan	Sand	ModerateSE	C	60	Dry	Good	ForestMixed
113238	06/07/2011	LauraRatcliffe	573017	7035473	UTM27N_WGS84	Colluvium	Brown	Silt	SteepSE	C	40	Dry	Excellent	ForestMixed
113239	06/07/2011	LauraRatcliffe	572968	7035488	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSE	C	40	Moist	Excellent	ForestMixed
113240	06/07/2011	LauraRatcliffe	572938	7035513	UTM27N_WGS84	Colluvium	Green	Sand	ModerateSE	C	55	Dry	Excellent	ForestMixed
113241	06/07/2011	LauraRatcliffe	572888	7035511	UTM27N_WGS84	Colluvium	Tan	Silt	ModerateSW	C	45	Dry	Excellent	ForestMixed
113242	06/07/2011	LauraRatcliffe	572836	7035541	UTM27N_WGS84	Colluvium	Green	Sand	ModerateSE	C	45	Dry	Excellent	ForestMixed
113244	06/07/2011	LauraRatcliffe	572779	7035541	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	C	60	Dry	Excellent	ForestMixed
113245	06/07/2011	LauraRatcliffe	572751	7035589	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	45	Dry	Good	ForestMixed
113246	06/07/2011	LauraRatcliffe	572702	7035622	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
113247	06/07/2011	LauraRatcliffe	572608	7035645	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
113248	06/07/2011	LauraRatcliffe	572455	7035695	UTM27N_WGS84	Colluvium	Green	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
113249	06/07/2011	LauraRatcliffe	572383	7035732	UTM27N_WGS84	Soil	Tan	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
113250	06/07/2011	LauraRatcliffe	572240	7035794	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	55	Dry	Excellent	ForestMixed
113252	06/07/2011	LauraRatcliffe	572149	7035844	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	55	Dry	Excellent	ForestMixed
113253	06/07/2011	LauraRatcliffe	572111	7035816	UTM27N_WGS84	Colluvium	RustyOrange	Silt	Ridge	C	45	Dry	Good	ForestMixed
113254	07/07/2011	LauraRatcliffe	576366	7037059	UTM27N_WGS84	Soil	Brown	Silt	Ridge	B	45	Moist	Good	SubAlpineBrush
113255	07/07/2011	LauraRatcliffe	576320	7037074	UTM27N_WGS84	Soil	Brown	Silt	Ridge	B	40	Moist	Good	SubAlpineBrush
113256	07/07/2011	LauraRatcliffe	576275	7037102	UTM27N_WGS84	Colluvium	Black	Sand	Ridge	C	45	Moist	Excellent	SubAlpineBrush
113257	07/07/2011	LauraRatcliffe	576239	7037114	UTM27N_WGS84	Colluvium	Black	Sand	Ridge	C	70	Dry	Excellent	SubAlpineBrush
113258	07/07/2011	LauraRatcliffe	576188	7037145	UTM27N_WGS84	Colluvium	Black	Sand	Ridge	C	70	Dry	Excellent	SubAlpineBrush
113259	07/07/2011	LauraRatcliffe	576135	7037166	UTM27N_WGS84	Colluvium	BrownDark	Sand	Ridge	C	45	Dry	Excellent	SubAlpineBrush

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
113260	07/07/2011	LauraRatcliffe	576092	7037188	UTM27N_WGS84	Colluvium	Black	Sand	Ridge	C	70	Dry	Excellent	SubAlpineBrush
113261	07/07/2011	LauraRatcliffe	576047	7037208	UTM27N_WGS84	Colluvium	Brown	Silt	Ridge	C	65	Dry	Excellent	SubAlpineBrush
113262	07/07/2011	LauraRatcliffe	576013	7037229	UTM27N_WGS84	Colluvium	Black	Sand	Ridge	C	55	Dry	Good	SubAlpineBrush
113263	07/07/2011	LauraRatcliffe	575960	7037248	UTM27N_WGS84	Colluvium	Brown	Sand	Ridge	C	65	Dry	Excellent	SubAlpineBrush
113264	07/07/2011	LauraRatcliffe	575993	7037276	UTM27N_WGS84	Soil	Brown	Silt	ModerateN	B	60	Frozen	Good	SubAlpineBrush
113265	07/07/2011	LauraRatcliffe	575988	7037324	UTM27N_WGS84	Colluvium	Black	Sand	ModerateN	C	60	Moist	Excellent	SubAlpineBrush
113266	07/07/2011	LauraRatcliffe	575982	7037383	UTM27N_WGS84	Lithosoil	Black	Gravel	ModerateN	B	55	Wet	Good	SubAlpineBrush
113267	07/07/2011	LauraRatcliffe	575978	7037431	UTM27N_WGS84	Lithosoil	BrownDark	Silt	ModerateN	B	55	Wet	Good	SubAlpineBrush
113268	07/07/2011	LauraRatcliffe	575970	7037480	UTM27N_WGS84	Lithosoil	BrownDark	Silt	ModerateN	B	65	Frozen	Excellent	SubAlpineBrush
113269	07/07/2011	LauraRatcliffe	575965	7037565	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateN	C	40	Wet	Good	SubAlpineBrush
113270	07/07/2011	LauraRatcliffe	575967	7037641	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateN	C	40	Wet	Good	SubAlpineBrush
113271	07/07/2011	LauraRatcliffe	575942	7037684	UTM27N_WGS84	Lithosoil	Grey	Silt	ModerateN	B	30	Wet	Poor	SubAlpineBrush
113272	07/07/2011	LauraRatcliffe	575944	7037724	UTM27N_WGS84	Lithosoil	Black	Silt	ModerateN	B	45	Wet	Poor	SubAlpineBrush
113273	07/07/2011	LauraRatcliffe	575932	7037777	UTM27N_WGS84	Soil	BrownDark	Silt	ModerateN	B	30	Moist	Good	ForestBlackSpruce
113274	07/07/2011	LauraRatcliffe	575938	7037833	UTM27N_WGS84	Colluvium	Tan	Silt	ModerateN	C	70	Moist	Good	ForestBlackSpruce
113275	07/07/2011	LauraRatcliffe	575901	7037873	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateN	C	45	Wet	Good	ForestBlackSpruce
113276	07/07/2011	LauraRatcliffe	575892	7037916	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	45	Moist	Good	ForestBlackSpruce
113277	07/07/2011	LauraRatcliffe	575881	7037961	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	50	Wet	Good	ForestBlackSpruce
113278	07/07/2011	LauraRatcliffe	575874	7038004	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	40	Wet	Good	ForestBlackSpruce
113279	07/07/2011	LauraRatcliffe	575858	7038059	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateN	B	35	Wet	Good	ForestBlackSpruce
113280	07/07/2011	LauraRatcliffe	575847	7038114	UTM27N_WGS84	Soil	BrownDark	Silt	ModerateN	B	40	Frozen	Good	ForestBlackSpruce
113281	07/07/2011	LauraRatcliffe	575844	7038155	UTM27N_WGS84	Soil	BrownDark	Silt	ModerateN	B	30	Wet	Poor	ForestBlackSpruce
113282	07/07/2011	LauraRatcliffe	575814	7038211	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	45	Frozen	Good	ForestBlackSpruce
113283	07/07/2011	LauraRatcliffe	575793	7038248	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	45	Frozen	Good	ForestBlackSpruce
113284	07/07/2011	LauraRatcliffe	575765	7038294	UTM27N_WGS84	Colluvium	Brown		ModerateN	B	45	Frozen	Good	ForestBlackSpruce
113285	07/07/2011	LauraRatcliffe	575770	7038338	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateN	C	45	Frozen	Good	ForestBlackSpruce
113288	08/07/2011	LauraRatcliffe	577498	7039547	UTM27N_WGS84	Lithosoil	Green	Silt	Ridge	C	50	Moist	Good	SubAlpineBrush
113289	08/07/2011	LauraRatcliffe	577483	7039602	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	B	45	Moist	Good	SubAlpineBrush
113290	08/07/2011	LauraRatcliffe	577464	7039642	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	B	50	Wet	Good	SubAlpineAlder
113291	08/07/2011	LauraRatcliffe	577446	7039693	UTM27N_WGS84	Lithosoil	Green	Silt	Ridge	C	45	Moist	Good	ForestBlackSpruce
113292	08/07/2011	LauraRatcliffe	577435	7039734	UTM27N_WGS84	Colluvium	Green	Sand	Ridge	C	45	Moist	Good	SubAlpineAlder
113293	08/07/2011	LauraRatcliffe	577435	7039782	UTM27N_WGS84	Colluvium	Brown	Sand	Ridge	C	60	Dry	Excellent	SubAlpineAlder
113294	08/07/2011	LauraRatcliffe	577402	7039818	UTM27N_WGS84	Lithosoil	Green	Sand	Ridge	C	50	Dry	Excellent	SubAlpineAlder
113295	08/07/2011	LauraRatcliffe	577373	7039862	UTM27N_WGS84	Colluvium	Green	Sand	Ridge	C	50	Dry	Excellent	SubAlpineBrush
113296	08/07/2011	LauraRatcliffe	577335	7039896	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	C	45	Dry	Good	SubAlpineBrush
113297	08/07/2011	LauraRatcliffe	577307	7039934	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	C	45	Moist	Good	SubAlpineBrush
113298	08/07/2011	LauraRatcliffe	577276	7039979	UTM27N_WGS84	Soil	Brown	Silt	Ridge	B	45	Moist	Good	SubAlpineBrush
113299	08/07/2011	LauraRatcliffe	577255	7040011	UTM27N_WGS84	Soil	Brown	Silt	Ridge	B	30	Moist	Good	SubAlpineAlder
113300	08/07/2011	LauraRatcliffe	577185	7040110	UTM27N_WGS84	Colluvium	Green	Sand	Ridge	C	70	Dry	Excellent	SubAlpineAlder
113301	08/07/2011	LauraRatcliffe	577211	7040048	UTM27N_WGS84	Colluvium	Green	Sand	RidgeAlpine	C	65	Dry	Excellent	SubAlpineAlder
113302	08/07/2011	LauraRatcliffe	577504	7039746	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	B	45	Moist	Good	SubAlpineBrush
113303	08/07/2011	LauraRatcliffe	578257	7040201	UTM27N_WGS84	Colluvium	Green	Sand	Ridge	C	45	Dry	Excellent	SubAlpineBrush
113304	08/07/2011	LauraRatcliffe	578212	7040167	UTM27N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	45	Dry	Excellent	SubAlpineBrush
113305	08/07/2011	LauraRatcliffe	578169	7040134	UTM27N_WGS84	Colluvium	Tan	Silt	Ridge	C	65	Dry	Excellent	SubAlpineAlder
113306	08/07/2011	LauraRatcliffe	578144	7040110	UTM27N_WGS84	Colluvium	Red	Sand	Ridge	C	40	Dry	Excellent	SubAlpineBrush
113307	08/07/2011	LauraRatcliffe	578093	7040079	UTM27N_WGS84	Colluvium	Tan	Sand	Ridge	C	35	Dry	Good	SubAlpineBrush
113308	08/07/2011	LauraRatcliffe	578058	7040044	UTM27N_WGS84	Colluvium	Tan	Silt	Ridge	C	70	Dry	Excellent	SubAlpineAlder
113309	08/07/2011	LauraRatcliffe	578010	7039996	UTM27N_WGS84	Colluvium	Tan	Silt	Ridge	C	65	Moist	Good	SubAlpineAlder
113310	08/07/2011	LauraRatcliffe	577963	7039974	UTM27N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Good	SubAlpineAlder
113311	08/07/2011	LauraRatcliffe	577940	7039930	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	B	50	Moist	Good	SubAlpineAlder
113312	08/07/2011	LauraRatcliffe	577904	7039913	UTM27N_WGS84	Colluvium	Brown	Sand	Ridge	C	65	Dry	Excellent	SubAlpineAlder
113313	08/07/2011	LauraRatcliffe	577877	7039879	UTM27N_WGS84	Lithosoil	Brown	Sand	Ridge	C	65	Dry	Excellent	SubAlpineAlder
113314	08/07/2011	LauraRatcliffe	577823	7039850	UTM27N_WGS84	Colluvium	BrownDark	Sand	Ridge	C	40	Dry	Good	SubAlpineAlder
113315	08/07/2011	LauraRatcliffe	577786	7039836	UTM27N_WGS84	Colluvium	Brown	Sand	Ridge	C	55	Dry	Good	SubAlpineBrush
113316	08/07/2011	LauraRatcliffe	577736	7039823	UTM27N_WGS84	Colluvium	Black	Sand	Ridge	C	50	Dry	Excellent	SubAlpineAlder

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
113317	08/07/2011	LauraRatcliffe	577687	7039811	UTM27N_WGS84	Colluvium	Grey	Sand	Ridge	C	40	Dry	Excellent	SubAlpineAlder
113318	08/07/2011	LauraRatcliffe	577641	7039789	UTM27N_WGS84	Colluvium	Black	Sand	Ridge	C	60	Dry	Excellent	SubAlpineAlder
113319	08/07/2011	LauraRatcliffe	577587	7039787	UTM27N_WGS84	Colluvium	BrownDark	Silt	Ridge	B	40	Moist	Good	SubAlpineAlder
113320	08/07/2011	LauraRatcliffe	577545	7039762	UTM27N_WGS84	Lithosoil	BrownDark	Silt	Ridge	B	45	Moist	Good	
113321	09/07/2011	LauraRatcliffe	578331	7039409	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateE	B	40	Moist	Good	BurnOld
113322	09/07/2011	LauraRatcliffe	578385	7039408	UTM27N_WGS84	Soil	Brown	Silt	ModerateE	B	45	Moist	Good	BurnOld
113323	09/07/2011	LauraRatcliffe	578422	7039408	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateE	C	65	Dry	Good	BurnOld
113324	09/07/2011	LauraRatcliffe	578477	7039409	UTM27N_WGS84	Colluvium	Tan	Sand	ModerateE	C	65	Dry	Excellent	BurnOld
113325	09/07/2011	LauraRatcliffe	578533	7039389	UTM27N_WGS84	Colluvium	Tan	Sand	Flat	C	60	Dry	Excellent	BurnOld
113326	09/07/2011	LauraRatcliffe	578588	7039404	UTM27N_WGS84	Colluvium	Brown	Sand	Flat	B	40	Dry	Good	BurnOld
113327	09/07/2011	LauraRatcliffe	578639	7039401	UTM27N_WGS84	Colluvium	Grey	Sand	Flat	C	50	Dry	Excellent	BurnOld
113328	09/07/2011	LauraRatcliffe	578698	7039415	UTM27N_WGS84	Colluvium	Tan	Sand	Flat	C	40	Dry	Excellent	BurnOld
113329	09/07/2011	LauraRatcliffe	578720	7039372	UTM27N_WGS84	Colluvium	Tan		Flat	C	45	Dry	Excellent	BurnOld
113330	09/07/2011	LauraRatcliffe	578764	7039363	UTM27N_WGS84	Lithosoil	Brown	Silt	Flat	B	50	Wet	Good	BurnOld
113331	09/07/2011	LauraRatcliffe	578809	7039325	UTM27N_WGS84	Lithosoil	Brown	Silt	Flat	C	65	Moist	Good	BurnOld
113332	09/07/2011	LauraRatcliffe	578834	7039294	UTM27N_WGS84	Lithosoil	Brown		Flat	B	45	Moist	Good	BurnOld
113333	09/07/2011	LauraRatcliffe	578894	7039284	UTM27N_WGS84									
113334	09/07/2011	LauraRatcliffe	578915	7039255	UTM27N_WGS84	Lithosoil	Brown	Silt	ModerateSW	B	65	Moist	Good	BurnOld
113335	09/07/2011	LauraRatcliffe	578979	7039234	UTM27N_WGS84	Colluvium	Tan	Sand	ModerateSW	C	65	Dry	Excellent	BurnOld
113336	09/07/2011	LauraRatcliffe	579016	7039201	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	60	Dry	Excellent	BurnOld
113337	09/07/2011	LauraRatcliffe	579068	7039183	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateW	C	65	Dry	Excellent	BurnOld
113338	09/07/2011	LauraRatcliffe	579116	7039160	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateW	C	65	Dry	Excellent	BurnOld
113339	09/07/2011	LauraRatcliffe	579149	7039128	UTM27N_WGS84	Colluvium	Orange	Silt	Ridge	C	70	Dry	Excellent	BurnOld
113340	09/07/2011	LauraRatcliffe	579172	7039077	UTM27N_WGS84	Lithosoil	Brown	Silt	Ridge	B	35	Moist	Good	BurnOld
113341	09/07/2011	LauraRatcliffe	579185	7039025	UTM27N_WGS84	Lithosoil	BrownDark	Silt	Ridge	B	40	Moist	Good	BurnOld
113342	09/07/2011	LauraRatcliffe	579225	7038980	UTM27N_WGS84	Colluvium	RustyRed	Sand	Ridge	C	50	Dry	Good	BurnOld
113343	09/07/2011	LauraRatcliffe	579209	7038939	UTM27N_WGS84	Lithosoil	BrownLight	Sand	ModerateS	C	55	Dry	Good	BurnOld
113344	09/07/2011	LauraRatcliffe	579235	7038895	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	55	Moist	Good	BurnOld
113345	09/07/2011	LauraRatcliffe	579222	7038815	UTM27N_WGS84	Colluvium	RustyRed	Sand	ModerateS	C	45	Dry	Good	BurnOld
113346	09/07/2011	LauraRatcliffe	579183	7038788	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateS	C	45	Dry	Good	BurnOld
113347	09/07/2011	LauraRatcliffe	579164	7038741	UTM27N_WGS84	Colluvium	Tan	Silt	ModerateS	C	75	Dry	Excellent	BurnOld
113348	09/07/2011	LauraRatcliffe	579148	7038694	UTM27N_WGS84	Colluvium	Tan	Silt	ModerateS	C	55	Dry	Excellent	BurnOld
113349	09/07/2011	LauraRatcliffe	579153	7038652	UTM27N_WGS84	Colluvium	Tan	Silt	ModerateS	C	65	Dry	Excellent	BurnOld
113350	09/07/2011	LauraRatcliffe	579137	7038609	UTM27N_WGS84	Colluvium	Green	Silt	ModerateS	C	65	Dry	Excellent	BurnOld
113351	09/07/2011	LauraRatcliffe	579121	7038553	UTM27N_WGS84	Colluvium	Green		Flat	C	50	Moist	Excellent	BurnOld
113352	09/07/2011	LauraRatcliffe	579096	7038512	UTM27N_WGS84	Lithosoil	Green		Flat	B	40	Moist	Good	BurnOld
113353	09/07/2011	LauraRatcliffe	579066	7038449	UTM27N_WGS84	Colluvium	Brown	Sand	Flat	C	35	Moist	Good	BurnOld
113354	09/07/2011	LauraRatcliffe	579052	7038412	UTM27N_WGS84	Colluvium	Black	Sand	Flat	C	50	Dry	Excellent	BurnOld
113355	09/07/2011	LauraRatcliffe	579034	7038382	UTM27N_WGS84	Soil	Brown	Silt	Flat	B	35	Moist	Good	BurnOld
113383	11/07/2011	LauraRatcliffe	570904	7040669	UTM27N_WGS84	Lithosoil	Brown	Silt	ModerateN	B	55	Wet	Good	ForestBlackSpruce
113384	11/07/2011	LauraRatcliffe	570924	7040709	UTM27N_WGS84	Lithosoil	Brown	Silt	ModerateN	B	65	Wet	Good	ForestBlackSpruce
113385	11/07/2011	LauraRatcliffe	570945	7040749	UTM27N_WGS84	Lithosoil	Brown	Silt	ModerateN	B	65	Wet	Good	ForestBlackSpruce
113386	11/07/2011	LauraRatcliffe	570953	7040797	UTM27N_WGS84	Lithosoil	Brown	Silt	ModerateN	B	55	Frozen	Good	ForestBlackSpruce
113387	11/07/2011	LauraRatcliffe	570972	7040858	UTM27N_WGS84	Lithosoil	Brown	Silt	ModerateN	B	45	Frozen	Good	ForestBlackSpruce
113388	11/07/2011	LauraRatcliffe	570996	7040905	UTM27N_WGS84									
113389	11/07/2011	LauraRatcliffe	570999	7040945	UTM27N_WGS84	TalusFine	Brown	Silt	ModerateN	B	50	Wet	Good	ForestBlackSpruce
113390	11/07/2011	LauraRatcliffe	571009	7040994	UTM27N_WGS84	TalusFine	Brown	Silt	ModerateNE	B	35	Frozen	Good	ForestBlackSpruce
113391	11/07/2011	LauraRatcliffe	570998	7041045	UTM27N_WGS84	Colluvium	RustyRed	Silt	ModerateN	C	70	Dry	Excellent	ForestBlackSpruce
113392	11/07/2011	LauraRatcliffe	571018	7041099	UTM27N_WGS84	TalusFine	Brown	Silt	ModerateNE	B	55	Wet	Good	ForestBlackSpruce
113393	11/07/2011	LauraRatcliffe	571027	7041151	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Frozen	Good	ForestBlackSpruce
113394	11/07/2011	LauraRatcliffe	571017	7041401	UTM27N_WGS84	Colluvium	RustyRed	Gravel	ModerateNE	C	65	Dry	Excellent	ForestMixed
113395	11/07/2011	LauraRatcliffe	571003	7041450	UTM27N_WGS84	Soil	Brown	Silt	ModerateNE	B	40	Moist	Good	ForestMixed
113396	11/07/2011	LauraRatcliffe	570952	7041488	UTM27N_WGS84	Soil	Brown	Silt	ModerateN	B	70	Moist	Excellent	ForestBlackSpruce
113397	11/07/2011	LauraRatcliffe	570955	7041547	UTM27N_WGS84	Colluvium	Brown	Gravel	ModerateN	B	40	Frozen	Good	ForestMixed
113398	11/07/2011	LauraRatcliffe	570946	7041603	UTM27N_WGS84	Colluvium	RustyRed	Sand	ModerateN	C	55	Frozen	Good	ForestMixed

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
113399	11/07/2011	LauraRatcliffe	570928	7041656	UTMZ7N_WGS84	TalusFine	RustyRed	Gravel	ModerateNE	C	55	Moist	Good	ForestBlackSpruce
113400	11/07/2011	LauraRatcliffe	570893	7041686	UTMZ7N_WGS84	TalusFine	Brown	Silt	ModerateNE	B	50	Wet	Good	ForestBlackSpruce
113401	11/07/2011	LauraRatcliffe	570866	7041732	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateNE	C	55	Wet	Good	ForestBlackSpruce
113402	11/07/2011	LauraRatcliffe	570862	7041775	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	80	Wet	Good	ForestMixed
113403	11/07/2011	LauraRatcliffe	570870	7041835	UTMZ7N_WGS84	TalusFine	Brown	Gravel	ModerateNE	C	50	Wet	Good	ForestBlackSpruce
113404	11/07/2011	LauraRatcliffe	570829	7041926	UTMZ7N_WGS84	TalusFine	Brown	Silt	ModerateNE	B	60	Wet	Good	ForestMixed
113405	11/07/2011	LauraRatcliffe	570815	7041975	UTMZ7N_WGS84	TalusFine	Brown	Silt	ModerateNE	C	45	Frozen	Good	ForestMixed
113406	11/07/2011	LauraRatcliffe	570797	7042016	UTMZ7N_WGS84									
113407	11/07/2011	LauraRatcliffe	570786	7042078	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateNE	B	35	Frozen	Good	ForestMixed
113408	11/07/2011	LauraRatcliffe	570764	7042112	UTMZ7N_WGS84	Soil	Black	Silt	ModerateNE	B	45	Frozen	Good	ForestMixed
113409	11/07/2011	LauraRatcliffe	570738	7042150	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateNE	B	65	Frozen	Good	ForestMixed
113410	11/07/2011	LauraRatcliffe	570731	7042211	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateNE	B	40	Frozen	Poor	ForestMixed
113411	11/07/2011	LauraRatcliffe	570734	7042270	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateNE	B	40	Frozen	Good	ForestMixed
113412	11/07/2011	LauraRatcliffe	570707	7042305	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	45	Frozen	Good	ForestMixed
113413	11/07/2011	LauraRatcliffe	570698	7042351	UTMZ7N_WGS84	Colluvium	Red	Gravel	ModerateN	C	45	Frozen	Good	ForestBlackSpruce
113414	11/07/2011	LauraRatcliffe	570692	7042395	UTMZ7N_WGS84	Colluvium	RustyRed	Gravel	ModerateNE	B	65	Frozen	Good	ForestMixed
113415	12/07/2011	LauraRatcliffe	568056	7047515	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	B	45	Moist	Good	ForestMixed
113416	12/07/2011	LauraRatcliffe	568064	7047463	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	50	Dry	Good	ForestMixed
113417	12/07/2011	LauraRatcliffe	568088	7047416	UTMZ7N_WGS84	Lithosoil	Red	Silt	ModerateS	B	40	Moist	Good	ForestMixed
113418	12/07/2011	LauraRatcliffe	568117	7047385	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateS	B	45	Moist	Good	ForestMixed
113419	12/07/2011	LauraRatcliffe	568104	7047325	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	55	Moist	Good	ForestMixed
113420	12/07/2011	LauraRatcliffe	568126	7047287	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateS	B	45	Moist	Good	ForestMixed
113421	12/07/2011	LauraRatcliffe	568091	7047247	UTMZ7N_WGS84	Lithosoil	Brown	Sand	ModerateS	B	45	Moist	Good	ForestMixed
113422	12/07/2011	LauraRatcliffe	568100	7047187	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	70	Moist	Good	ForestMixed
113423	12/07/2011	LauraRatcliffe	568056	7047138	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateS	B	45	Moist	Good	ForestMixed
113424	12/07/2011	LauraRatcliffe	568079	7047094	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	B	55	Moist	Good	ForestMixed
113425	12/07/2011	LauraRatcliffe	568085	7047043	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	80	Moist	Good	ForestMixed
113426	12/07/2011	LauraRatcliffe	568055	7046997	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	85	Frozen	Good	ForestBlackSpruce
113427	12/07/2011	LauraRatcliffe	568062	7046927	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	70	Wet	Good	ForestBlackSpruce
113428	12/07/2011	LauraRatcliffe	568039	7046886	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	60	Frozen	Good	ForestBlackSpruce
113429	12/07/2011	LauraRatcliffe	568036	7046842	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateS	C	60	Moist	Good	ForestBlackSpruce
113430	12/07/2011	LauraRatcliffe	568041	7046799	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	B	60	Moist	Good	ForestBlackSpruce
113431	12/07/2011	LauraRatcliffe	568031	7046746	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	45	Moist	Good	ForestBlackSpruce
113432	12/07/2011	LauraRatcliffe	568018	7046706	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateS	B	45	Moist	Good	ForestBlackSpruce
113433	12/07/2011	LauraRatcliffe	568008	7046633	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateS	B	40	Wet	Good	ForestBlackSpruce
113434	12/07/2011	LauraRatcliffe	567993	7046594	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	60	Moist	Good	ForestBlackSpruce
113435	12/07/2011	LauraRatcliffe	567988	7046547	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateS	B	60	Wet	Good	ForestBlackSpruce
113436	12/07/2011	LauraRatcliffe	567983	7046498	UTMZ7N_WGS84			Silt	ModerateS	B	45	Moist	Good	ForestBlackSpruce
113437	12/07/2011	LauraRatcliffe	567962	7046425	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateS	B	50	Moist	Good	ForestBlackSpruce
113438	12/07/2011	LauraRatcliffe	567960	7046395	UTMZ7N_WGS84	Soil	Grey	Silt	SteepS	B	45	Moist	Good	ForestBlackSpruce
113439	12/07/2011	LauraRatcliffe	567939	7046345	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	50	Wet	Good	ForestBlackSpruce
113440	12/07/2011	LauraRatcliffe	567929	7046309	UTMZ7N_WGS84	Soil	Black	Silt	ModerateS	B	40	Moist	Good	ForestBlackSpruce
113442	12/07/2011	LauraRatcliffe	567907	7046249	UTMZ7N_WGS84	Soil	Tan	Silt	ModerateS	B	60	Moist	Good	ForestBlackSpruce
113443	12/07/2011	LauraRatcliffe	567899	7046201	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	45	Moist	Good	ForestBlackSpruce
113444	12/07/2011	LauraRatcliffe	567896	7046163	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	85	Moist	Good	ForestBlackSpruce
113445	13/07/2011	LauraRatcliffe	569075	7043597	UTMZ7N_WGS84	Colluvium	Orange	Sand	Flat	C	70	Wet	Good	ForestBlackSpruce
113446	13/07/2011	LauraRatcliffe	569138	7043575	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	50	Moist	Good	ForestBlackSpruce
113447	13/07/2011	LauraRatcliffe	569185	7043519	UTMZ7N_WGS84	Lithosoil	Brown	Silt	Flat	C	50	Moist	Good	ForestBlackSpruce
113448	13/07/2011	LauraRatcliffe	569224	7043483	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateSE	B	35	Moist	Good	ForestBlackSpruce
113449	13/07/2011	LauraRatcliffe	569257	7043476	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	60	Moist	Good	ForestBlackSpruce
113450	13/07/2011	LauraRatcliffe	569286	7043454	UTMZ7N_WGS84	Lithosoil	Brown	Sand	ModerateSE	C	60	Moist	Good	ForestBlackSpruce
113451	13/07/2011	LauraRatcliffe	569329	7043429	UTMZ7N_WGS84	Soil	Tan	Silt	ModerateSE	C	65	Moist	Excellent	ForestBlackSpruce
113452	13/07/2011	LauraRatcliffe	569374	7043382	UTMZ7N_WGS84	Lithosoil	Brown	Silt	ModerateSE	C	60	Moist	Good	ForestBlackSpruce
113453	13/07/2011	LauraRatcliffe	569404	7043346	UTMZ7N_WGS84	Colluvium	Grey	Sand	Drainage	B	75	Moist	Good	ForestBlackSpruce
113454	13/07/2011	LauraRatcliffe	569452	7043332	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	85	Moist	Excellent	ForestBlackSpruce

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
113455	13/07/2011	LauraRatcliffe	569493	7043295	UTM27N_WGS84	Soil	Brown	Silt	ModerateW	B	85	Dry	Good	ForestBlackSpruce
113456	13/07/2011	LauraRatcliffe	569538	7043270	UTM27N_WGS84	Colluvium	Orange	Sand	ModerateW	C	80	Dry	Excellent	ForestBlackSpruce
113457	13/07/2011	LauraRatcliffe	569574	7043236	UTM27N_WGS84	Colluvium	Orange	Sand	ModerateW	C	45	Dry	Excellent	ForestBlackSpruce
113458	13/07/2011	LauraRatcliffe	569608	7043200	UTM27N_WGS84	Colluvium	Orange	Sand	ModerateW	C	50	Dry	Excellent	ForestAspen
113459	13/07/2011	LauraRatcliffe	569660	7043186	UTM27N_WGS84	Colluvium	Orange	Sand	ModerateW	C	45	Dry	Good	ForestAspen
113460	13/07/2011	LauraRatcliffe	569693	7043145	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Good	ForestAspen
113461	13/07/2011	LauraRatcliffe	569729	7043119	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	60	Dry	Good	ForestAspen
113462	13/07/2011	LauraRatcliffe	569769	7043094	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Good	ForestAspen
113463	13/07/2011	LauraRatcliffe	569826	7043052	UTM27N_WGS84	Colluvium	Tan	Sand	ModerateSE	C	60	Dry	Excellent	ForestAspen
113464	13/07/2011	LauraRatcliffe	569847	7043011	UTM27N_WGS84	Soil	Brown	Silt	ModerateSE	C	65	Dry	Good	ForestMixed
113465	13/07/2011	LauraRatcliffe	569892	7042981	UTM27N_WGS84	Soil	Grey	Silt	ModerateSE	B	55	Frozen	Good	ForestBlackSpruce
113466	13/07/2011	LauraRatcliffe	569930	7042970	UTM27N_WGS84	Soil	Blue	Silt	ModerateS	B	60	Wet	Good	ForestBlackSpruce
113467	13/07/2011	LauraRatcliffe	569977	7042932	UTM27N_WGS84	Soil	Tan	Silt	ModerateS	C	70	Dry	Good	ForestBlackSpruce
113468	13/07/2011	LauraRatcliffe	570010	7042901	UTM27N_WGS84	Soil	Grey	Silt	Flat	C	65	Dry	Good	ForestMixed
113469	13/07/2011	LauraRatcliffe	570042	7042860	UTM27N_WGS84	Soil	Brown	Silt	Flat	B	60	Dry	Good	ForestMixed
113470	13/07/2011	LauraRatcliffe	570093	7042842	UTM27N_WGS84	Soil	Grey	Silt	Flat	B	65	Dry	Good	ForestMixed
113471	13/07/2011	LauraRatcliffe	570124	7042808	UTM27N_WGS84	Soil	Grey	Silt	Flat	B	65	Dry	Good	ForestMixed
113472	13/07/2011	LauraRatcliffe	570181	7042790	UTM27N_WGS84	Soil	Brown	Silt	ModerateSE	B	45	Dry	Good	ForestMixed
113473	13/07/2011	LauraRatcliffe	570206	7042753	UTM27N_WGS84	Soil	Grey	Sand	Flat	C	60	Dry	Good	ForestMixed
113474	13/07/2011	LauraRatcliffe	570234	7042708	UTM27N_WGS84	Soil	Brown	Silt	Flat	B	45	Frozen	Good	ForestBlackSpruce
114101	13/07/2011	LaurenWilson	569702	7044410	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	60	Moist	Poor	ForestBlackSpruce
114102	13/07/2011	LaurenWilson	569720	7044360	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	60	Moist	Poor	ForestBlackSpruce
114103	13/07/2011	LaurenWilson	569776	7044324	UTM27N_WGS84	Colluvium	RustyOrange	Clay	ModerateSW	B	80	Moist	Poor	ForestBlackSpruce
114104	13/07/2011	LaurenWilson	569822	7044310	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	40	Dry	Poor	ForestBlackSpruce
114105	13/07/2011	LaurenWilson	569866	7044277	UTM27N_WGS84	Colluvium	RustyOrange	Gravel	ModerateSW	C	50	Dry	Poor	ForestBlackSpruce
114106	13/07/2011	LaurenWilson	569885	7044216	UTM27N_WGS84	Colluvium	Brown	Gravel	ModerateSW	B	40	Dry	Poor	ForestBlackSpruce
114107	13/07/2011	LaurenWilson	569975	7044176	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSE	B	70	Dry	Poor	ForestBlackSpruce
114108	13/07/2011	LaurenWilson	570012	7044151	UTM27N_WGS84	Colluvium	Brown		ModerateNW					
114109	13/07/2011	LaurenWilson	570045	7044117	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	50	Dry	Poor	ForestBlackSpruce
114110	13/07/2011	LaurenWilson	570089	7044093	UTM27N_WGS84	Colluvium	Brown	Sand	ModerateSW	B	60	Dry	Poor	ForestBlackSpruce
114111	13/07/2011	LaurenWilson	570135	7044056	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	70	Dry	Poor	ForestBlackSpruce
114112	13/07/2011	LaurenWilson	570175	7044025	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	60	Dry	Poor	ForestBlackSpruce
114113	13/07/2011	LaurenWilson	570216	7043999	UTM27N_WGS84	Colluvium	RustyOrange	Gravel	ModerateSW	B	40	Dry	Poor	ForestBlackSpruce
114114	13/07/2011	LaurenWilson	570261	7043971	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	60	Dry	Poor	ForestBlackSpruce
114115	13/07/2011	LaurenWilson	570298	7043944	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	60	Dry	Poor	ForestBlackSpruce
114116	13/07/2011	LaurenWilson	570349	7043905	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	B	60	Dry	Poor	ForestBlackSpruce
114117	13/07/2011	LaurenWilson	570381	7043889	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	B	80	Dry	Poor	ForestBlackSpruce
114118	13/07/2011	LaurenWilson	570419	7043840	UTM27N_WGS84	Colluvium	BrownLight	Clay	ModerateSW	B	80	Dry	Poor	ForestMixed
114119	13/07/2011	LaurenWilson	570450	7043806	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	70	Dry	Poor	ForestMixed
114120	13/07/2011	LaurenWilson	570494	7043787	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	B	40	Dry	Poor	ForestMixed
114121	13/07/2011	LaurenWilson	570596	7043703	UTM27N_WGS84	Colluvium	RustyOrange	Sand	ModerateSE	B	60	Dry	Poor	ForestMixed
114122	13/07/2011	LaurenWilson	570651	7043672	UTM27N_WGS84	Colluvium	BrownLight	Gravel	ModerateSE	B	70	Dry	Poor	ForestMixed
114123	13/07/2011	LaurenWilson	570697	7043634	UTM27N_WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	50	Dry	Poor	ForestMixed
114124	13/07/2011	LaurenWilson	570726	7043615	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	B	50	Dry	Poor	ForestMixed
114125	13/07/2011	LaurenWilson	570777	7043575	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	B	50	Dry	Poor	ForestMixed
114126	13/07/2011	LaurenWilson	570807	7043538	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	B	60	Dry	Poor	ForestMixed
114127	13/07/2011	LaurenWilson	570857	7043526	UTM27N_WGS84	Colluvium	BrownLight	Sand	ModerateSE	B	50	Dry	Poor	ForestMixed
114128	13/07/2011	LaurenWilson	570889	7043490	UTM27N_WGS84	Colluvium	BrownLight	Clay	ModerateSE	B	50	Dry	Poor	ForestMixed
116564	06/07/2011	JoshJudson	572449	7034980	UTM27N_WGS84	Colluvium	Orange	Silt	Flat	C	50	Moist		
116565	06/07/2011	JoshJudson	572488	7034980	UTM27N_WGS84	Colluvium	Orange	Clay	Flat	C	40	Dry		
116566	06/07/2011	JoshJudson	572518	7034958	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateE	C	30	Moist		
116567	06/07/2011	JoshJudson	572578	7034963	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116568	06/07/2011	JoshJudson	572623	7034950	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116569	06/07/2011	JoshJudson	572670	7034942	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateE	C	30	Moist		
116570	06/07/2011	JoshJudson	572714	7034926	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateE	C	20	Moist		

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
116571	06/07/2011	JoshJudson	572766	7034906	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	50	Moist		
116572	06/07/2011	JoshJudson	572814	7034901	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	20	Moist		
116573	06/07/2011	JoshJudson	572858	7034886	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	30	Moist		
116574	06/07/2011	JoshJudson	572912	7034866	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	20	Moist		
116575	06/07/2011	JoshJudson	572956	7034859	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	30	Moist		
116576	06/07/2011	JoshJudson	573001	7034841	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	30	Moist		
116577	06/07/2011	JoshJudson	573056	7034834	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	60	Moist		
116578	06/07/2011	JoshJudson	573099	7034814	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Dry		
116579	06/07/2011	JoshJudson	573142	7034798	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116580	06/07/2011	JoshJudson	573189	7034754	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	50	Moist		
116581	06/07/2011	JoshJudson	573233	7034714	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116582	06/07/2011	JoshJudson	573276	7034692	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116583	06/07/2011	JoshJudson	573310	7034667	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116584	06/07/2011	JoshJudson	573355	7034655	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	20	Frozen		
116585	06/07/2011	JoshJudson	573392	7034619	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	50	Frozen		
116586	06/07/2011	JoshJudson	573435	7034607	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Frozen		
116587	06/07/2011	JoshJudson	573483	7034575	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	30	Frozen		
116588	06/07/2011	JoshJudson	573520	7034552	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116589	06/07/2011	JoshJudson	573571	7034529	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist		
116591	06/07/2011	JoshJudson	573619	7034512	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist		
116592	06/07/2011	JoshJudson	573654	7034486	UTMZ7N_WGS84	Colluvium	Brown	Clay	SteepE	C	60	Moist		
116593	06/07/2011	JoshJudson	573686	7034458	UTMZ7N_WGS84	Colluvium	Brown	Clay	SteepE	C	40	Moist		
116594	07/07/2011	JoshJudson	575123	7037039	UTMZ7N_WGS84	Colluvium	Brown	Clay	Flat	C	20	Moist		
116595	07/07/2011	JoshJudson	575074	7037042	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateW	C	30	Moist		
116596	07/07/2011	JoshJudson	575016	7037051	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateW	C	40	Moist		
116597	07/07/2011	JoshJudson	574969	7037038	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateW	C	40	Moist		
116598	07/07/2011	JoshJudson	574928	7037019	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Moist		
116599	07/07/2011	JoshJudson	574878	7037013	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	40	Moist		
116600	07/07/2011	JoshJudson	574832	7036996	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	20	Moist		
116601	07/07/2011	JoshJudson	574777	7037001	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Moist		
116602	07/07/2011	JoshJudson	574728	7037001	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	60	Moist		
116603	07/07/2011	JoshJudson	574679	7037020	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	60	Moist		
116604	07/07/2011	JoshJudson	574639	7037019	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Moist		
116605	07/07/2011	JoshJudson	574560	7037027	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	40	Moist		
116606	07/07/2011	JoshJudson	574502	7037037	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	30	Moist		
116607	07/07/2011	JoshJudson	574462	7037039	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	30	Moist		
116608	07/07/2011	JoshJudson	574415	7037045	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	30	Moist		
116609	07/07/2011	JoshJudson	574315	7037050	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Frozen		
116610	07/07/2011	JoshJudson	574100	7037075	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	20	Frozen		
116611	07/07/2011	JoshJudson	573716	7037142	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	20	Frozen		
116612	07/07/2011	JoshJudson	573677	7037156	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	30	Frozen		
116613	07/07/2011	JoshJudson	573637	7037163	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	30	Frozen		
116614	07/07/2011	JoshJudson	573592	7037178	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	B	40	Frozen		
116615	07/07/2011	JoshJudson	573541	7037176	UTMZ7N_WGS84	Colluvium	Blue	Clay	ModerateNW	C	50	Moist		
116616	07/07/2011	JoshJudson	573503	7037172	UTMZ7N_WGS84	Colluvium	Green	Clay	ModerateNW	C	40	Moist		
116617	07/07/2011	JoshJudson	573439	7037171	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	60	Wet		
116618	07/07/2011	JoshJudson	573391	7037175	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	50	Moist		
116619	07/07/2011	JoshJudson	573341	7037188	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Moist		
116620	07/07/2011	JoshJudson	573299	7037190	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Dry		
116621	07/07/2011	JoshJudson	573253	7037210	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	50	Moist		
116622	08/07/2011	JoshJudson	569989	7038012	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Moist		
116623	08/07/2011	JoshJudson	569996	7038063	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Moist		
116624	08/07/2011	JoshJudson	570001	7038111	UTMZ7N_WGS84	Lithosoil	Brown	Clay	Ridge	C	30	Moist		
116625	08/07/2011	JoshJudson	570057	7038103	UTMZ7N_WGS84	Colluvium	Orange	Clay	Ridge	C	60	Frozen		
116626	08/07/2011	JoshJudson	570096	7038125	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Moist		

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
116627	08/07/2011	JoshJudson	570135	7038146	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	30	Moist		
116628	08/07/2011	JoshJudson	570191	7038163	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	30	Moist		
116629	08/07/2011	JoshJudson	570242	7038189	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Dry		
116630	08/07/2011	JoshJudson	570287	7038202	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateNE	C	50	Dry		
116631	08/07/2011	JoshJudson	570333	7038223	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	40	Frozen		
116632	08/07/2011	JoshJudson	570371	7038226	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateNE	C	60	Dry		
116633	08/07/2011	JoshJudson	570430	7038251	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	40	Moist		
116634	08/07/2011	JoshJudson	570474	7038278	UTMZ7N_WGS84	Colluvium	Red	Silt	ModerateNE	C	50	Dry		
116635	08/07/2011	JoshJudson	570519	7038297	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Moist		
116636	08/07/2011	JoshJudson	570574	7038301	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	50	Moist		
116637	08/07/2011	JoshJudson	570619	7038318	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	20	Moist		
116638	08/07/2011	JoshJudson	570660	7038331	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	30	Moist		
116639	08/07/2011	JoshJudson	570700	7038331	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateNE	C	40	Moist		
116641	08/07/2011	JoshJudson	570771	7038326	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	40	Dry		
116642	08/07/2011	JoshJudson	570813	7038347	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	80	Dry		
116643	08/07/2011	JoshJudson	570857	7038366	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	50	Dry		
116644	08/07/2011	JoshJudson	570908	7038376	UTMZ7N_WGS84	Colluvium	Orange	Clay	ModerateNE	C	70	Dry		
116645	08/07/2011	JoshJudson	570939	7038409	UTMZ7N_WGS84	Colluvium	BrownDark	Clay	ModerateNE	C	30	Moist		
116646	08/07/2011	JoshJudson	570990	7038425	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNE	C	80	Moist		
116647	08/07/2011	JoshJudson	571044	7038424	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNE	C	80	Moist		
116648	08/07/2011	JoshJudson	571087	7038426	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNE	B	50	Frozen		
116649	08/07/2011	JoshJudson	571150	7038450	UTMZ7N_WGS84	Soil	Grey	Clay	ModerateNE	B	40	Frozen		
116650	08/07/2011	JoshJudson	571186	7038468	UTMZ7N_WGS84	Soil	Grey	Clay	ModerateNE	B	40	Frozen		
116651	08/07/2011	JoshJudson	571240	7038476	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNE	B	40	Frozen		
116652	08/07/2011	JoshJudson	571281	7038485	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	60	Dry		
116653	08/07/2011	JoshJudson	571340	7038498	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNE	B	30	Frozen		
116654	09/07/2011	JoshJudson	577535	7039456	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	Ridge	C	30	Moist		
116655	09/07/2011	JoshJudson	577578	7039445	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Moist		
116656	09/07/2011	JoshJudson	577623	7039414	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateSE	C	40	Moist		
116657	09/07/2011	JoshJudson	577673	7039376	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	30	Moist		
116658	09/07/2011	JoshJudson	577702	7039356	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSE	C	40	Moist		
116659	09/07/2011	JoshJudson	577723	7039320	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	20	Moist		
116660	09/07/2011	JoshJudson	577795	7039302	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Moist		
116661	09/07/2011	JoshJudson	577829	7039281	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateSE	C	60	Moist		
116662	09/07/2011	JoshJudson	577891	7039257	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry		
116663	09/07/2011	JoshJudson	578279	7039395	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry		
116664	09/07/2011	JoshJudson	578238	7039373	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Moist		
116665	09/07/2011	JoshJudson	578182	7039367	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	60	Moist		
116666	09/07/2011	JoshJudson	578138	7039356	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	20	Moist		
116667	09/07/2011	JoshJudson	578095	7039335	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Moist		
116668	09/07/2011	JoshJudson	578051	7039323	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	30	Moist		
116669	09/07/2011	JoshJudson	577993	7039280	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	30	Moist		
116670	09/07/2011	JoshJudson	577939	7039282	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	30	Moist		
116671	09/07/2011	JoshJudson	577909	7039244	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Moist		
116672	09/07/2011	JoshJudson	577890	7039185	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateSE	C	60	Moist		
116673	09/07/2011	JoshJudson	577912	7039131	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	50	Moist		
116674	09/07/2011	JoshJudson	577927	7039068	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateSE	C	60	Moist		
116675	09/07/2011	JoshJudson	577980	7039028	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateSE	C	30	Dry		
116676	09/07/2011	JoshJudson	578030	7039012	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateSE	C	60	Moist		
116677	09/07/2011	JoshJudson	578070	7038962	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	60	Moist		
116678	09/07/2011	JoshJudson	578074	7038914	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Moist		
116679	09/07/2011	JoshJudson	578075	7038873	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	30	Moist		
116680	09/07/2011	JoshJudson	578088	7038822	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Moist		
116681	09/07/2011	JoshJudson	578098	7038782	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	20	Moist		
116682	09/07/2011	JoshJudson	578140	7038731	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	60			



Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
116683	09/07/2011	JoshJudson	578150	7038680	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	80	Moist		
116684	09/07/2011	JoshJudson	578167	7038642	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Moist		
116685	09/07/2011	JoshJudson	578186	7038583	UTMZ7N_WGS84	Colluvium	Brown	Clay	Flat	C	60	Frozen		
116686	09/07/2011	JoshJudson	578223	7038539	UTMZ7N_WGS84	Colluvium	Brown	Clay	Flat	C	70	Frozen		
116687	09/07/2011	JoshJudson	578226	7038494	UTMZ7N_WGS84	Soil	Brown	Clay	ModerateSE	B	40	Frozen		
116688	09/07/2011	JoshJudson	578240	7038458	UTMZ7N_WGS84	Colluvium	Brown	Clay	Flat	C	80	Frozen		
116689	09/07/2011	JoshJudson	578254	7038393	UTMZ7N_WGS84	Colluvium	Grey	Clay	Flat	C	70	Frozen		
116691	09/07/2011	JoshJudson	578264	7038338	UTMZ7N_WGS84	Colluvium	Brown	Clay	Flat	C	60	Frozen		
116692	09/07/2011	JoshJudson	578278	7038290	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	60	Dry		
116726	11/07/2011	JoshJudson	570191	7038823	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	30	Dry		
116727	11/07/2011	JoshJudson	570224	7038909	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Dry		
116728	11/07/2011	JoshJudson	570289	7038991	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Dry		
116729	11/07/2011	JoshJudson	570348	7039082	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	30	Dry		
116730	11/07/2011	JoshJudson	570408	7039157	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateS	C	30	Dry		
116731	11/07/2011	JoshJudson	570460	7039227	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	50	Dry		
116732	11/07/2011	JoshJudson	570514	7039314	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Moist		
116733	11/07/2011	JoshJudson	570546	7039407	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Moist		
116734	11/07/2011	JoshJudson	570535	7039504	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	50	Moist		
116735	11/07/2011	JoshJudson	570460	7039582	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	60	Dry		
116736	11/07/2011	JoshJudson	570412	7039658	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	60	Dry		
116737	11/07/2011	JoshJudson	570332	7039717	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	C	70	Moist		
116738	11/07/2011	JoshJudson	570261	7039782	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Moist		
116739	11/07/2011	JoshJudson	570189	7039859	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	50	Moist		
116741	11/07/2011	JoshJudson	570099	7039905	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	70	Moist		
116742	11/07/2011	JoshJudson	570011	7039958	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateN	C	70	Moist		
116743	11/07/2011	JoshJudson	569914	7039996	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	50	Moist		
116744	11/07/2011	JoshJudson	569825	7040037	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	30	Moist		
116745	11/07/2011	JoshJudson	569740	7040087	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	30	Moist		
116746	11/07/2011	JoshJudson	569656	7040145	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	60	Moist		
116747	11/07/2011	JoshJudson	569561	7040132	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	30	Moist		
116748	11/07/2011	JoshJudson	569459	7040117	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Moist		
116749	11/07/2011	JoshJudson	569365	7040093	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	60	Wet		
116750	11/07/2011	JoshJudson	569260	7040073	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	60	Moist		
116751	11/07/2011	JoshJudson	569153	7040077	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	60	Moist		
116752	11/07/2011	JoshJudson	569058	7040053	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	C	40	Moist		
116753	11/07/2011	JoshJudson	568973	7040037	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	60	Moist		
116754	11/07/2011	JoshJudson	568859	7040024	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	70	Wet		
116755	11/07/2011	JoshJudson	568782	7040008	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	90	Wet		
116756	11/07/2011	JoshJudson	568677	7039983	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateSW	C	60	Wet		
116757	11/07/2011	JoshJudson	568578	7039990	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	60	Wet		
116758	11/07/2011	JoshJudson	568472	7039968	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	40	Frozen		
116759	11/07/2011	JoshJudson	568374	7039943	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	50	Frozen		
116760	12/07/2011	JoshJudson	567867	7044910	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Moist		
116761	12/07/2011	JoshJudson	567839	7044883	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	50	Dry		
116762	12/07/2011	JoshJudson	567805	7044834	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Moist		
116763	12/07/2011	JoshJudson	567785	7044801	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	30	Moist		
116764	12/07/2011	JoshJudson	567755	7044769	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Moist		
116765	12/07/2011	JoshJudson	567736	7044720	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Moist		
116766	12/07/2011	JoshJudson	567710	7044680	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Dry		
116767	12/07/2011	JoshJudson	567670	7044629	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	70	Moist		
116768	12/07/2011	JoshJudson	567660	7044595	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	50	Frozen		
116769	12/07/2011	JoshJudson	567642	7044544	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	50	Dry		
116770	12/07/2011	JoshJudson	567590	7044505	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	80			
116771	12/07/2011	JoshJudson	567568	7044464	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	60	Dry		
116772	12/07/2011	JoshJudson	567560	7044415	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	40	Frozen		

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
116773	12/07/2011	JoshJudson	567532	7044376	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	60	Frozen		
116774	12/07/2011	JoshJudson	567505	7044334	UTMZ7N_WGS84	Colluvium	Pink	Sand	Ridge	C	60	Dry		
116775	12/07/2011	JoshJudson	567476	7044287	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	20	Dry		
116776	12/07/2011	JoshJudson	567475	7044235	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	50	Dry		
116777	12/07/2011	JoshJudson	567432	7044190	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	30	Moist		
116778	12/07/2011	JoshJudson	567408	7044165	UTMZ7N_WGS84	Colluvium	Brown	Sand	Ridge	C	40	Dry		
116779	12/07/2011	JoshJudson	567375	7044109	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	60	Moist		
116780	12/07/2011	JoshJudson	567361	7044075	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Dry		
116781	12/07/2011	JoshJudson	567313	7044106	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	40	Dry		
116782	12/07/2011	JoshJudson	567270	7044111	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	60	Moist		
116783	12/07/2011	JoshJudson	567222	7044123	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Dry		
116784	12/07/2011	JoshJudson	567184	7044155	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Moist		
116785	12/07/2011	JoshJudson	567139	7044169	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	60	Moist		
116786	12/07/2011	JoshJudson	567082	7044177	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Moist		
116787	12/07/2011	JoshJudson	567042	7044191	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	70	Moist		
116788	12/07/2011	JoshJudson	566985	7044216	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	60	Moist		
116789	12/07/2011	JoshJudson	566942	7044234	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	70	Moist		
116790	12/07/2011	JoshJudson	566887	7044252	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Dry		
116791	12/07/2011	JoshJudson	566852	7044279	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	80	Moist		
116792	12/07/2011	JoshJudson	566805	7044306	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	60	Moist		
116793	12/07/2011	JoshJudson	566772	7044329	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	80	Moist		
116794	12/07/2011	JoshJudson	566725	7044339	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Dry		
116795	13/07/2011	JoshJudson	569551	7044128	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	50	Moist	Good	ForestMixed
116796	13/07/2011	JoshJudson	569592	7044096	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	40	Moist	Good	ForestMixed
116797	13/07/2011	JoshJudson	569510	7044157	UTMZ7N_WGS84	Colluvium	White	Sand	ModerateN	C	50	Dry	Good	ForestMixed
116798	13/07/2011	JoshJudson	569629	7044066	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	50	Dry	Good	ForestMixed
116799	13/07/2011	JoshJudson	569671	7044035	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Dry	Excellent	ForestMixed
116800	13/07/2011	JoshJudson	569710	7044007	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	60	Dry	Good	ForestMixed
116801	13/07/2011	JoshJudson	569750	7043976	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	60	Dry	Good	ForestMixed
116802	13/07/2011	JoshJudson	569792	7043945	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	60	Dry	Good	ForestMixed
116803	13/07/2011	JoshJudson	569832	7043913	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	50	Dry	Good	ForestMixed
116804	13/07/2011	JoshJudson	569870	7043883	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Dry	Good	ForestMixed
116805	13/07/2011	JoshJudson	569910	7043855	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	60	Dry	Good	ForestMixed
116806	13/07/2011	JoshJudson	569950	7043827	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Moist	Good	ForestMixed
116807	13/07/2011	JoshJudson	569991	7043796	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	50	Moist	Good	ForestMixed
116808	13/07/2011	JoshJudson	570030	7043766	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	50	Moist	Good	ForestMixed
116809	13/07/2011	JoshJudson	570068	7043735	UTMZ7N_WGS84	Colluvium	Orange	Clay	ModerateSE	C	50	Moist	Good	ForestMixed
116810	13/07/2011	JoshJudson	570112	7043704	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	B	50	Frozen	Good	ForestMixed
116811	13/07/2011	JoshJudson	570148	7043675	UTMZ7N_WGS84	Colluvium	BrownLight	Clay	ModerateSE	C	80	Moist	Good	ForestMixed
116812	13/07/2011	JoshJudson	570190	7043646	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	80	Moist	Good	ForestMixed
116813	13/07/2011	JoshJudson	570229	7043616	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	80	Moist	Good	ForestMixed
116814	13/07/2011	JoshJudson	570270	7043585	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	50	Moist	Good	ForestMixed
116815	13/07/2011	JoshJudson	570311	7043556	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	50	Moist	Good	ForestMixed
116816	13/07/2011	JoshJudson	570350	7043527	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	50	Moist	Good	ForestMixed
116817	13/07/2011	JoshJudson	570391	7043494	UTMZ7N_WGS84	Colluvium	Orange	Clay	ModerateE	C	60	Moist	Good	ForestMixed
116818	13/07/2011	JoshJudson	570427	7043469	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Frozen	Poor	ForestMixed
116819	13/07/2011	JoshJudson	570470	7043434	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	C	60	Moist	Good	ForestMixed
116820	13/07/2011	JoshJudson	570511	7043403	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	40	Frozen	Poor	ForestMixed
116821	13/07/2011	JoshJudson	570549	7043376	UTMZ7N_WGS84	Colluvium	Orange	Clay	ModerateE	C	60	Moist	Good	ForestMixed
116822	13/07/2011	JoshJudson	570593	7043343	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	20	Frozen	Poor	ForestMixed
116823	13/07/2011	JoshJudson	570629	7043314	UTMZ7N_WGS84	Colluvium	BrownDark		ModerateE	B	60	Frozen	Poor	ForestMixed
116824	14/07/2011	JoshJudson	569869	7044637	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	40	Moist	Good	ForestMixed
116825	14/07/2011	JoshJudson	569912	7044607	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	40	Moist	Good	ForestMixed
116826	14/07/2011	JoshJudson	569949	7044574	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNW	C	20	Moist	Good	ForestMixed
116827	14/07/2011	JoshJudson	569990	7044542	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	C	60	Moist	Good	ForestMixed

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
116828	14/07/2011	JoshJudson	570032	7044519	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	50	Moist	Good	ForestMixed
116829	14/07/2011	JoshJudson	570072	7044488	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateE	C	30	Moist	Good	ForestMixed
116830	14/07/2011	JoshJudson	570104	7044457	UTM27N_WGS84	Colluvium	Orange	Clay	ModerateE	C	60	Moist	Good	ForestMixed
116831	14/07/2011	JoshJudson	570152	7044425	UTM27N_WGS84	Colluvium	Orange	Clay	ModerateE	C	70	Moist	Good	ForestMixed
116832	14/07/2011	JoshJudson	570188	7044395	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateE	C	40	Moist	Good	ForestMixed
116833	14/07/2011	JoshJudson	570230	7044366	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	60	Moist	Good	ForestMixed
116834	14/07/2011	JoshJudson	570269	7044338	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Dry	Good	ForestMixed
116835	14/07/2011	JoshJudson	570310	7044306	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSE	B	20	Frozen	Poor	ForestMixed
116836	14/07/2011	JoshJudson	570351	7044276	UTM27N_WGS84	Colluvium	Orange	Clay	ModerateNE	C	40	Moist	Good	ForestMixed
116837	14/07/2011	JoshJudson	570597	7044091	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	40	Moist	Poor	ForestMixed
116838	14/07/2011	JoshJudson	570629	7044067	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	60	Dry	Good	ForestMixed
116839	14/07/2011	JoshJudson	570666	7044031	UTM27N_WGS84	Colluvium	BrownDark	Clay	ModerateS	C	80	Moist	Good	ForestMixed
116840	14/07/2011	JoshJudson	570708	7044002	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateW	C	40	Moist	Good	ForestMixed
116841	14/07/2011	JoshJudson	570749	7043973	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	30	Dry	Good	ForestMixed
116842	14/07/2011	JoshJudson	570792	7043945	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	60	Dry	Good	ForestMixed
116843	14/07/2011	JoshJudson	570829	7043912	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSW	C	30	Dry	Good	ForestMixed
116844	14/07/2011	JoshJudson	570864	7043885	UTM27N_WGS84	Colluvium	White	Clay	ModerateS	C	80	Dry	Good	ForestMixed
116845	14/07/2011	JoshJudson	570910	7043852	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateS	C	80	Dry	Good	ForestMixed
116846	14/07/2011	JoshJudson	570948	7043823	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	80	Moist	Excellent	ForestMixed
116847	14/07/2011	JoshJudson	570991	7043793	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	40	Moist	Good	ForestMixed
116848	14/07/2011	JoshJudson	571039	7043760	UTM27N_WGS84	Colluvium	Brown	Clay	ModerateSE	C	50	Moist	Good	ForestMixed
117731	06/07/2011	HugoGirard	572515	7033062	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	110	Wet		
117732	06/07/2011	HugoGirard	572543	7033136	UTM27N_WGS84	Colluvium	Green	Silt	ModerateW	C	80	Moist		
117733	06/07/2011	HugoGirard	572573	7033160	UTM27N_WGS84	Colluvium	BrownLight	Clay	ModerateW	C	100	Dry		
117734	06/07/2011	HugoGirard	572614	7033184	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateW	C	90	Dry		
117735	06/07/2011	HugoGirard	572644	7033223	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist		
117736	06/07/2011	HugoGirard	572679	7033258	UTM27N_WGS84	Colluvium	Orange	Silt	ModerateSW	C	90	Dry		
117737	06/07/2011	HugoGirard	572725	7033295	UTM27N_WGS84	Colluvium	Yellow	Silt	ModerateSW	C	100	Dry		
117738	06/07/2011	HugoGirard	572754	7033318	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry		
117739	06/07/2011	HugoGirard	572792	7033344	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry		
117741	06/07/2011	HugoGirard	572836	7033376	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry		
117742	06/07/2011	HugoGirard	572886	7033404	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	100	Dry		
117743	06/07/2011	HugoGirard	572922	7033440	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	60	Dry		
117744	06/07/2011	HugoGirard	572966	7033465	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	70	Dry		
117745	06/07/2011	HugoGirard	573007	7033489	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry		
117746	06/07/2011	HugoGirard	573056	7033525	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	100	Dry		
117747	06/07/2011	HugoGirard	573092	7033549	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	90	Dry		
117748	06/07/2011	HugoGirard	573139	7033580	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry		
117749	06/07/2011	HugoGirard	573251	7033627	UTM27N_WGS84	Colluvium	Brown	Silt	Flat	B	50	Dry		
117750	06/07/2011	HugoGirard	573301	7033622	UTM27N_WGS84	Colluvium	Yellow	Silt	ModerateE	C	40	Dry		
117751	06/07/2011	HugoGirard	573357	7033616	UTM27N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	70	Dry		
117752	06/07/2011	HugoGirard	573414	7033611	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Dry		
117753	06/07/2011	HugoGirard	573460	7033609	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Dry		
117754	06/07/2011	HugoGirard	573514	7033612	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Dry		
117755	06/07/2011	HugoGirard	573564	7033612	UTM27N_WGS84	Colluvium	Grey	Silt	ModerateE	B	60	Dry		
117756	06/07/2011	HugoGirard	573614	7033599	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	B	70	Moist		
117757	06/07/2011	HugoGirard	573653	7033591	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	C	100	Dry		
117758	06/07/2011	HugoGirard	573714	7033601	UTM27N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	90	Moist		
117759	06/07/2011	HugoGirard	573768	7033587	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateE	C	100	Moist		
117760	06/07/2011	HugoGirard	573803	7033564	UTM27N_WGS84	Colluvium	Grey	Clay	ModerateSE	B	60	Frozen		
117761	06/07/2011	HugoGirard	573845	7033547	UTM27N_WGS84	Colluvium	Grey	Clay	ModerateSE	B	60	Frozen		
117762	06/07/2011	HugoGirard	573902	7033521	UTM27N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	80	Moist		
117764	07/07/2011	HugoGirard	576500	7036979	UTM27N_WGS84	Colluvium	Blue	Clay	RidgeAlpine	C	100	Moist		
117765	07/07/2011	HugoGirard	576526	7036928	UTM27N_WGS84	Colluvium	BrownDark	Silt	RidgeAlpine	C	30	Dry		
117766	07/07/2011	HugoGirard	576553	7036889	UTM27N_WGS84	Colluvium	Brown	Silt	RidgeAlpine	C	40	Moist		

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
117767	07/07/2011	HugoGirard	576564	7036837	UTMZ7N_WGS84	Colluvium	Brown	Silt	RidgeAlpine	C	40	Dry		
117768	07/07/2011	HugoGirard	576570	7036786	UTMZ7N_WGS84	Colluvium	Brown	Silt	RidgeAlpine	B	30	Moist		
117769	07/07/2011	HugoGirard	576607	7036755	UTMZ7N_WGS84	Colluvium	Brown	Clay	RidgeAlpine	B	70	Moist		
117770	07/07/2011	HugoGirard	576621	7036709	UTMZ7N_WGS84	Colluvium	Brown	Silt	RidgeAlpine	B	40	Moist		
117771	07/07/2011	HugoGirard	576625	7036665	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateS	C	80	Dry		
117772	07/07/2011	HugoGirard	576624	7036609	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Moist		
117773	07/07/2011	HugoGirard	576605	7036557	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateS	C	60	Dry		
117774	07/07/2011	HugoGirard	576603	7036509	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Moist		
117775	07/07/2011	HugoGirard	576628	7036853	UTMZ7N_WGS84	Colluvium	Brown	Silt	RidgeAlpine	C	40	Dry		
117776	07/07/2011	HugoGirard	576674	7036852	UTMZ7N_WGS84	Colluvium	Orange	Silt	RidgeAlpine	C	50	Dry		
117777	07/07/2011	HugoGirard	576726	7036848	UTMZ7N_WGS84	Colluvium	Yellow	Silt	RidgeAlpine	C	80	Dry		
117778	07/07/2011	HugoGirard	576774	7036852	UTMZ7N_WGS84	Colluvium	Brown	Silt	RidgeAlpine	C	50	Dry		
117779	07/07/2011	HugoGirard	576818	7036852	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	60	Dry		
117780	07/07/2011	HugoGirard	576879	7036856	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	C	80	Dry		
117781	07/07/2011	HugoGirard	576928	7036856	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Dry		
117782	07/07/2011	HugoGirard	576975	7036855	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Moist		
117783	07/07/2011	HugoGirard	577025	7036846	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateNE	C	40	Dry		
117784	07/07/2011	HugoGirard	577073	7036834	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateNE	B	40	Moist		
117785	07/07/2011	HugoGirard	577124	7036817	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	100	Dry		
117786	07/07/2011	HugoGirard	577169	7036803	UTMZ7N_WGS84	Colluvium	Brown		ModerateNE	C	50	Moist		
117787	07/07/2011	HugoGirard	577213	7036789	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	30	Dry		
117788	07/07/2011	HugoGirard	577262	7036782	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	60	Dry		
117789	07/07/2011	HugoGirard	577310	7036772	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	100	Dry		
117790	07/07/2011	HugoGirard	577369	7036762	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry		
117792	07/07/2011	HugoGirard	577407	7036742	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry		
117793	07/07/2011	HugoGirard	577458	7036728	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateE	C	50	Dry		
117794	07/07/2011	HugoGirard	577509	7036719	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry		
117795	07/07/2011	HugoGirard	577557	7036714	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	80	Dry		
117796	07/07/2011	HugoGirard	577609	7036692	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry		
117797	07/07/2011	HugoGirard	577670	7036679	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	90	Dry		
117798	07/07/2011	HugoGirard	577716	7036666	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Flat	C	70	Dry		
117799	07/07/2011	HugoGirard	577757	7036649	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	60	Dry		
117800	07/07/2011	HugoGirard	577797	7036632	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	40	Dry		
117801	08/07/2011	HugoGirard	571751	7036600	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	30	Dry		
117802	08/07/2011	HugoGirard	571703	7036597	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	30	Dry		
117803	08/07/2011	HugoGirard	571668	7036571	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Dry		
117804	08/07/2011	HugoGirard	571626	7036545	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Dry		
117805	08/07/2011	HugoGirard	571582	7036521	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	90	Dry		
117806	08/07/2011	HugoGirard	571535	7036499	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Moist		
117807	08/07/2011	HugoGirard	571480	7036486	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	90	Dry		
117808	08/07/2011	HugoGirard	571428	7036471	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry		
117809	08/07/2011	HugoGirard	571395	7036442	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry		
117810	08/07/2011	HugoGirard	571347	7036422	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry		
117811	08/07/2011	HugoGirard	571297	7036409	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateS	C	70	Dry		
117812	08/07/2011	HugoGirard	571257	7036374	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	40	Dry		
117813	08/07/2011	HugoGirard	571207	7036351	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateSW	C	40	Dry		
117814	08/07/2011	HugoGirard	571165	7036332	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry		
117815	08/07/2011	HugoGirard	571114	7036328	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry		
117816	08/07/2011	HugoGirard	571065	7036308	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateSW	C	40	Moist		
117817	08/07/2011	HugoGirard	571018	7036297	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateSW	C	50	Dry		
117818	08/07/2011	HugoGirard	570965	7036271	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	30	Moist		
117819	08/07/2011	HugoGirard	570924	7036266	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	C	60	Dry		
117820	08/07/2011	HugoGirard	570874	7036241	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	90	Dry		
117821	08/07/2011	HugoGirard	570849	7036220	UTMZ7N_WGS84	Colluvium	BrownDark	Gravel	ModerateSW	C	60	Moist		
117822	08/07/2011	HugoGirard	570786	7036196	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	C	50	Dry		

## Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
117823	08/07/2011	HugoGirard	570746	7036185	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	C	40	Dry		
117824	08/07/2011	HugoGirard	570692	7036158	UTMZ7N_WGS84	Colluvium	BrownDark	Clay	ModerateS	B	20	Moist		
117825	08/07/2011	HugoGirard	570652	7036124	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	80	Dry		
117826	08/07/2011	HugoGirard	570604	7036114	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Dry		
117827	08/07/2011	HugoGirard	570577	7036075	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Dry		
117828	08/07/2011	HugoGirard	570533	7036035	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry		
117829	08/07/2011	HugoGirard	570477	7036023	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateSW	B	50	Moist		
117830	08/07/2011	HugoGirard	570435	7036025	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry		
117831	08/07/2011	HugoGirard	570385	7035999	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Dry		
117832	08/07/2011	HugoGirard	570336	7035978	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry		
117833	08/07/2011	HugoGirard	570303	7035946	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Moist		
117834	08/07/2011	HugoGirard	570270	7035902	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateSW	C	40	Dry		
117835	09/07/2011	HugoGirard	574997	7041980	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Dry		
117836	09/07/2011	HugoGirard	574959	7041993	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist		
117837	09/07/2011	HugoGirard	574897	7042001	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist		
117838	09/07/2011	HugoGirard	574862	7042011	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	B	40	Moist		
117839	09/07/2011	HugoGirard	574802	7042030	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Wet		
117840	09/07/2011	HugoGirard	574773	7042044	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Moist		
117841	09/07/2011	HugoGirard	574702	7042063	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Wet		
117842	09/07/2011	HugoGirard	574666	7042061	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Moist		
117843	09/07/2011	HugoGirard	574615	7042081	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	30	Moist		
117844	09/07/2011	HugoGirard	574572	7042095	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	80	Moist		
117846	09/07/2011	HugoGirard	574519	7042101	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	60	Dry		
117847	09/07/2011	HugoGirard	574465	7042103	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	40	Moist		
117848	09/07/2011	HugoGirard	574415	7042127	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	90	Dry		
117849	09/07/2011	HugoGirard	574373	7042144	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	50	Moist		
117850	09/07/2011	HugoGirard	574330	7042147	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateW	C	60	Dry		
117851	09/07/2011	HugoGirard	574273	7042164	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateW	C	40	Moist		
117852	09/07/2011	HugoGirard	574224	7042166	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Moist		
117853	09/07/2011	HugoGirard	574178	7042175	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateSW	C	90	Dry		
117854	09/07/2011	HugoGirard	574123	7042197	UTMZ7N_WGS84	Colluvium	Yellow	Silt	ModerateSW	C	30	Dry		
117855	09/07/2011	HugoGirard	574081	7042214	UTMZ7N_WGS84	Colluvium	Yellow	Silt	ModerateSW	C	80	Dry		
117856	09/07/2011	HugoGirard	574037	7042216	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	100	Dry		
117857	09/07/2011	HugoGirard	573987	7042228	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	C	60	Dry		
117858	09/07/2011	HugoGirard	573929	7042252	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateSW	C	50	Dry		
117859	09/07/2011	HugoGirard	573896	7042301	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateSW	C	40	Dry		
117860	09/07/2011	HugoGirard	573880	7042334	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepNW	C	30	Dry		
117861	09/07/2011	HugoGirard	573856	7042373	UTMZ7N_WGS84	Colluvium	Yellow	Clay	ModerateNW	C	60	Wet		
117862	09/07/2011	HugoGirard	573827	7042427	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	B	30	Moist		
117863	09/07/2011	HugoGirard	573793	7042460	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNW	B	50	Moist		
117894	11/07/2011	HugoGirard	570197	7038871	UTMZ7N_WGS84	Colluvium	Orange	Silt	Flat	C	60	Dry		
117895	11/07/2011	HugoGirard	570252	7038945	UTMZ7N_WGS84	Colluvium	Orange	Silt	Flat	C	50	Dry		
117896	11/07/2011	HugoGirard	570307	7039033	UTMZ7N_WGS84	Colluvium	Orange	Silt	Flat	C	100	Dry		
117897	11/07/2011	HugoGirard	570362	7039112	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry		
117898	11/07/2011	HugoGirard	570430	7039195	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateS	C	70	Dry		
117899	11/07/2011	HugoGirard	570490	7039269	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	C	60	Dry		
117900	11/07/2011	HugoGirard	570543	7039345	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	C	50	Dry		
117901	11/07/2011	HugoGirard	570534	7039460	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Ridge	C	50	Dry		
117902	11/07/2011	HugoGirard	570513	7039548	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	40	Moist		
117903	11/07/2011	HugoGirard	570443	7039621	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateN	C	20	Moist		
117904	11/07/2011	HugoGirard	570365	7039673	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	30	Moist		
117905	11/07/2011	HugoGirard	570315	7039717	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	C	70	Moist		
117906	11/07/2011	HugoGirard	570289	7039754	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Moist		
117907	11/07/2011	HugoGirard	570216	7039817	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	C	70	Moist		
117908	11/07/2011	HugoGirard	570138	7039882	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	C	70	Moist		

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
117909	11/07/2011	HugoGirard	570056	7039923	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateNW	C	50	Moist		
117910	11/07/2011	HugoGirard	569969	7039969	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Moist		
117911	11/07/2011	HugoGirard	569879	7040011	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	30	Dry		
117912	11/07/2011	HugoGirard	569789	7040057	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	30	Dry		
117913	11/07/2011	HugoGirard	569700	7040101	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Moist		
117914	11/07/2011	HugoGirard	569612	7040123	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	70	Moist		
117915	11/07/2011	HugoGirard	569516	7040126	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	C	40	Moist		
117916	11/07/2011	HugoGirard	569421	7040103	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry		
117917	11/07/2011	HugoGirard	569310	7040083	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateW	C	70	Dry		
117918	11/07/2011	HugoGirard	569213	7040077	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	80	Moist		
117919	11/07/2011	HugoGirard	569111	7040062	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	100	Dry		
117920	11/07/2011	HugoGirard	569027	7040038	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateW	C	70	Dry		
117921	11/07/2011	HugoGirard	568916	7040024	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateW	B	20	Wet		
117922	11/07/2011	HugoGirard	568816	7040011	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateW	B	60	Wet		
117923	11/07/2011	HugoGirard	568720	7040002	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateW	B	40	Moist		
117924	11/07/2011	HugoGirard	568615	7039974	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Flat	B	50	Moist		
117925	11/07/2011	HugoGirard	568420	7039940	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateSW	B	40	Wet		
117926	12/07/2011	HugoGirard	568326	7045524	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	100	Dry		
117927	12/07/2011	HugoGirard	568296	7045493	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	C	80	Moist		
117928	12/07/2011	HugoGirard	568230	7045423	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateS	B	60	Moist		
117929	12/07/2011	HugoGirard	568197	7045383	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Dry		
117930	12/07/2011	HugoGirard	568170	7045339	UTMZ7N_WGS84	Colluvium	Blue	Silt	ModerateSE	C	90	Dry		
117931	12/07/2011	HugoGirard	568128	7045306	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Dry		
117932	12/07/2011	HugoGirard	568112	7045251	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Dry		
117933	12/07/2011	HugoGirard	568080	7045221	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateE	C	40	Dry		
117934	12/07/2011	HugoGirard	568043	7045179	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateE	C	60	Moist		
117935	12/07/2011	HugoGirard	568034	7045136	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry		
117936	12/07/2011	HugoGirard	567995	7045099	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Dry		
117937	12/07/2011	HugoGirard	567980	7045053	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Moist		
117938	12/07/2011	HugoGirard	567938	7045022	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	60	Dry		
117939	12/07/2011	HugoGirard	567903	7044979	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	60	Dry		
117940	12/07/2011	HugoGirard	567871	7044975	UTMZ7N_WGS84	Colluvium	Green	Silt	Ridge	C	40	Dry		
117942	12/07/2011	HugoGirard	567822	7044983	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	B	40	Moist		
117943	12/07/2011	HugoGirard	567760	7045000	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateW	C	70	Dry		
117944	12/07/2011	HugoGirard	567720	7045004	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Moist		
117945	12/07/2011	HugoGirard	567669	7045017	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Dry		
117946	12/07/2011	HugoGirard	567616	7045024	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Wet		
117947	12/07/2011	HugoGirard	567558	7045022	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry		
117948	12/07/2011	HugoGirard	567529	7045046	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	90	Wet		
117949	12/07/2011	HugoGirard	567479	7045048	UTMZ7N_WGS84	Colluvium	Grey	Clay	Swamp	B	40	Wet		
117950	12/07/2011	HugoGirard	567432	7045055	UTMZ7N_WGS84	Colluvium	Grey	Clay	Swamp	B	60	Wet		
117951	12/07/2011	HugoGirard	567353	7045068	UTMZ7N_WGS84	Colluvium	Grey	Clay	Swamp	B	70	Frozen		
117952	12/07/2011	HugoGirard	567283	7045070	UTMZ7N_WGS84	Colluvium	Grey	Clay	Swamp	B	50	Moist		
117953	12/07/2011	HugoGirard	567239	7045101	UTMZ7N_WGS84	Colluvium	Grey	Clay	Swamp	B	60	Frozen		
122268	07/07/2011	DarrellKraemer	572653	7035610	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	65	Dry	Excellent	ForestMixed
122269	07/07/2011	DarrellKraemer	572568	7035648	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Good	ForestMixed
122270	07/07/2011	DarrellKraemer	572529	7035662	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Dry	Good	ForestMixed
122271	07/07/2011	DarrellKraemer	572423	7035728	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	60	Dry	Excellent	ForestMixed
122272	07/07/2011	DarrellKraemer	572343	7035746	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	55	Dry	Excellent	ForestMixed
122273	07/07/2011	DarrellKraemer	572290	7035781	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	B	50	Dry	Excellent	ForestMixed
122274	07/07/2011	DarrellKraemer	572203	7035826	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Dry	Good	ForestMixed
122275	07/07/2011	DarrellKraemer	572115	7035851	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	55	Dry	Good	ForestMixed
122276	07/07/2011	DarrellKraemer	571990	7036203	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	ForestMixed
122277	07/07/2011	DarrellKraemer	572007	7036159	UTMZ7N_WGS84	Colluvium	RustyOrange	Gravel	Ridge	C	50	Dry	Excellent	ForestMixed
122278	07/07/2011	DarrellKraemer	572014	7036108	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Ridge	C	65	Dry	Good	ForestMixed

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
122279	07/07/2011	DarrellKraemer	572045	7036061	UTMZ7N_WGS84	Colluvium	Red	Gravel	Ridge	C	50	Dry	Excellent	ForestMixed
122280	07/07/2011	DarrellKraemer	572061	7036012	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
122281	07/07/2011	DarrellKraemer	572068	7035972	UTMZ7N_WGS84	Colluvium	Green	Sand	Ridge	C	70	Dry	Excellent	ForestMixed
122282	07/07/2011	DarrellKraemer	572096	7035925	UTMZ7N_WGS84	Colluvium	Green	Sand	Ridge	C	70	Dry	Excellent	ForestMixed
122283	07/07/2011	DarrellKraemer	572076	7035815	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	75	Dry	Excellent	ForestMixed
122284	07/07/2011	DarrellKraemer	572029	7035794	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
122285	07/07/2011	DarrellKraemer	571980	7035757	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateW	C	55	Dry	Excellent	ForestMixed
122286	07/07/2011	DarrellKraemer	571950	7035727	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
122287	07/07/2011	DarrellKraemer	571904	7035698	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
122288	07/07/2011	DarrellKraemer	571874	7035664	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
122289	08/07/2011	DarrellKraemer	571460	7034886	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateW	B	55	Dry	Good	ForestMixed
122291	08/07/2011	DarrellKraemer	571438	7034942	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	45	Dry	Good	ForestMixed
122292	08/07/2011	DarrellKraemer	571462	7034983	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Dry	Good	ForestMixed
122293	08/07/2011	DarrellKraemer	571482	7035032	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateW	C	70	Frozen	Excellent	ForestMixed
122294	08/07/2011	DarrellKraemer	571518	7035054	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
122295	08/07/2011	DarrellKraemer	571559	7035088	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	50	Dry	Good	ForestMixed
122296	08/07/2011	DarrellKraemer	571587	7035135	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateW	B	45	Dry	Good	ForestMixed
122297	08/07/2011	DarrellKraemer	571612	7035177	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Good	ForestMixed
122298	08/07/2011	DarrellKraemer	571630	7035218	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	60	Dry	Excellent	ForestMixed
122299	08/07/2011	DarrellKraemer	571618	7035289	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	B	45	Frozen	Good	ForestMixed
122300	08/07/2011	DarrellKraemer	571669	7035320	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
122301	08/07/2011	DarrellKraemer	571689	7035377	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	45	Moist	Good	ForestMixed
122302	08/07/2011	DarrellKraemer	571734	7035419	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Good	ForestMixed
122303	08/07/2011	DarrellKraemer	571761	7035454	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateW	C	50	Dry	Excellent	ForestMixed
122304	08/07/2011	DarrellKraemer	571794	7035568	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	45	Moist	Good	ForestMixed
122305	08/07/2011	DarrellKraemer	571871	7035606	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	45	Moist	Good	ForestMixed
122306	07/07/2011	DarrellKraemer	570153	7038736	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Moist	Good	ForestMixed
122307	07/07/2011	DarrellKraemer	570138	7038672	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Good	ForestMixed
122308	07/07/2011	DarrellKraemer	570125	7038634	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Moist	Good	ForestMixed
122309	07/07/2011	DarrellKraemer	570100	7038587	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	ForestMixed
122310	07/07/2011	DarrellKraemer	570078	7038545	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	55	Moist	Excellent	ForestMixed
122311	07/07/2011	DarrellKraemer	570056	7038489	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	45	Moist	Good	ForestMixed
122312	07/07/2011	DarrellKraemer	570045	7038452	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	75	Wet	Good	ForestMixed
122313	07/07/2011	DarrellKraemer	570041	7038399	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	80	Wet	Good	ForestMixed
122314	07/07/2011	DarrellKraemer	570030	7038348	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	80	Wet	Good	ForestMixed
122315	07/07/2011	DarrellKraemer	570034	7038289	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	45	Dry	Good	ForestMixed
122316	07/07/2011	DarrellKraemer	570026	7038247	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	55	Moist	Good	ForestMixed
122317	07/07/2011	DarrellKraemer	570032	7038224	UTMZ7N_WGS84	Colluvium	Brown	Clay	Ridge	B	60	Dry	Good	ForestMixed
122318	07/07/2011	DarrellKraemer	570000	7038155	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	55	Dry	Excellent	ForestMixed
122319	07/07/2011	DarrellKraemer	570356	7037226	UTMZ7N_WGS84	Colluvium	Red	Sand	Ridge	C	55	Dry	Excellent	ForestMixed
122320	07/07/2011	DarrellKraemer	570316	7037233	UTMZ7N_WGS84	Colluvium	Red	Sand	Ridge	C	60	Dry	Excellent	ForestMixed
122321	08/07/2011	DarrellKraemer	570289	7037278	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
122322	08/07/2011	DarrellKraemer	570250	7037317	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	Ridge	C	50	Dry	Good	ForestMixed
122323	08/07/2011	DarrellKraemer	570210	7037358	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Ridge	C	50	Dry	Good	ForestMixed
122324	08/07/2011	DarrellKraemer	570183	7037389	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	ForestMixed
122325	08/07/2011	DarrellKraemer	570152	7037422	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	45	Dry	Good	ForestMixed
122326	08/07/2011	DarrellKraemer	570113	7037467	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Ridge	B	45	Moist	Good	ForestMixed
122327	08/07/2011	DarrellKraemer	570080	7037503	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	B	50	Moist	Good	ForestMixed
122328	08/07/2011	DarrellKraemer	570037	7037538	UTMZ7N_WGS84	Colluvium	Brown	Silt	RidgeAlpine	B	55	Moist	Good	ForestMixed
122329	08/07/2011	DarrellKraemer	570035	7037573	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	45	Moist	Good	ForestMixed
122330	08/07/2011	DarrellKraemer	570007	7037627	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	45	Moist	Good	ForestMixed
122331	08/07/2011	DarrellKraemer	569984	7037674	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	35	Moist	Good	ForestMixed
122332	08/07/2011	DarrellKraemer	569970	7037721	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	45	Moist	Good	ForestMixed
122333	08/07/2011	DarrellKraemer	569954	7037758	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	50	Moist	Good	ForestMixed
122334	08/07/2011	DarrellKraemer	569951	7037818	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	35	Moist	Poor	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
122335	08/07/2011	DarrellKraemer	569959	7037861	UTMZ7N_WGS84	Colluvium	Red	Sand	Ridge	C	50	Dry	Excellent	ForestMixed
122336	08/07/2011	DarrellKraemer	569959	7037909	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Ridge	C	55	Dry	Good	ForestMixed
122337	08/07/2011	DarrellKraemer	569978	7037955	UTMZ7N_WGS84	Colluvium	Brown	Gravel	Ridge	C	50	Dry	Good	ForestMixed
122338	08/07/2011	DarrellKraemer	578265	7042398	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateN	C	50	Dry	Excellent	ForestMixed
122339	08/07/2011	DarrellKraemer	578257	7042443	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	50	Dry	Good	ForestMixed
122341	08/07/2011	DarrellKraemer	578274	7042494	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	45	Moist	Good	ForestMixed
122342	08/07/2011	DarrellKraemer	578279	7042539	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Dry	Good	ForestMixed
122343	08/07/2011	DarrellKraemer	578275	7042591	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	ForestPine
122344	08/07/2011	DarrellKraemer	578283	7042640	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	B	45	Dry	Good	ForestMixed
122345	08/07/2011	DarrellKraemer	578280	7042687	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	B	50	Dry	Good	ForestMixed
122346	08/07/2011	DarrellKraemer	578286	7042735	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	45	Moist	Good	ForestMixed
122347	08/07/2011	DarrellKraemer	578291	7042794	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	45	Moist	Good	ForestMixed
122348	08/07/2011	DarrellKraemer	578290	7042839	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	55	Dry	Excellent	ForestMixed
122349	08/07/2011	DarrellKraemer	578300	7042890	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Good	ForestMixed
122350	08/07/2011	DarrellKraemer	578304	7042947	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	B	50	Moist	Good	ForestMixed
122351	08/07/2011	DarrellKraemer	578309	7042996	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	ForestMixed
122352	08/07/2011	DarrellKraemer	578305	7043041	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	50	Dry	Good	ForestMixed
122353	08/07/2011	DarrellKraemer	578312	7043093	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Dry	Excellent	ForestMixed
122354	08/07/2011	DarrellKraemer	578309	7043148	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	B	60	Frozen	Good	ForestMixed
122355	08/07/2011	DarrellKraemer	578330	7043205	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	60	Moist	Good	ForestMixed
122356	08/07/2011	DarrellKraemer	578321	7043251	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	55	Dry	Good	ForestMixed
122357	08/07/2011	DarrellKraemer	578331	7043289	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
122358	08/07/2011	DarrellKraemer	578323	7043338	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Dry	Good	ForestMixed
122359	09/07/2011	DarrellKraemer	578334	7043389	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Wet	Good	ForestMixed
122360	09/07/2011	DarrellKraemer	578332	7043442	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	55	Wet	Poor	ForestMixed
122361	09/07/2011	DarrellKraemer	578350	7043489	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	45	Moist	Good	ForestMixed
122362	09/07/2011	DarrellKraemer	578354	7043535	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
122363	09/07/2011	DarrellKraemer	578346	7043596	UTMZ7N_WGS84	Colluvium	Red	Silt	ModerateN	B	50	Wet	Poor	ForestMixed
122364	09/07/2011	DarrellKraemer	578347	7043629	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Good	ForestMixed
122365	09/07/2011	DarrellKraemer	578354	7043687	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateN	B	65	Frozen	Good	ForestMixed
122366	09/07/2011	DarrellKraemer	578356	7043735	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	50	Frozen	Excellent	ForestMixed
122367	09/07/2011	DarrellKraemer	578360	7043782	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Drainage	C	40	Frozen	Good	DrainageBrush
122368	09/07/2011	DarrellKraemer	578371	7043924	UTMZ7N_WGS84	Colluvium	Brown	Sand	Drainage	B	35	Moist	Excellent	DrainageBrush
122369	09/07/2011	DarrellKraemer	578372	7043978	UTMZ7N_WGS84	Colluvium	Brown	Silt	Drainage	B	65	Frozen	Good	DrainageBrush
122402	10/07/2011	DarrellKraemer	567241	7043768	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateSW	C	50	Dry	Excellent	ForestMixed
122403	10/07/2011	DarrellKraemer	567190	7043755	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
122404	10/07/2011	DarrellKraemer	567150	7043756	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Dry	Good	ForestMixed
122405	10/07/2011	DarrellKraemer	567102	7043718	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	C	60	Frozen	Good	ForestMixed
122406	10/07/2011	DarrellKraemer	567064	7043680	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Dry	Good	ForestMixed
122407	10/07/2011	DarrellKraemer	567008	7043672	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Dry	Good	ForestMixed
122408	10/07/2011	DarrellKraemer	566966	7043650	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	80	Dry	Excellent	ForestMixed
122409	10/07/2011	DarrellKraemer	566930	7043630	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	55	Dry	Good	ForestMixed
122410	10/07/2011	DarrellKraemer	566878	7043591	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	65	Dry	Good	ForestMixed
122411	10/07/2011	DarrellKraemer	566848	7043560	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	75	Dry	Good	ForestMixed
122412	10/07/2011	DarrellKraemer	566806	7043528	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	65	Dry	Good	ForestMixed
122413	10/07/2011	DarrellKraemer	566777	7043474	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	60	Dry	Excellent	ForestMixed
122414	10/07/2011	DarrellKraemer	566750	7043467	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
122415	10/07/2011	DarrellKraemer	566690	7043420	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	85	Dry	Excellent	ForestMixed
122416	10/07/2011	DarrellKraemer	566659	7043399	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
122417	10/07/2011	DarrellKraemer	566624	7043358	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	70	Dry	Excellent	ForestMixed
122418	10/07/2011	DarrellKraemer	566594	7043308	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateSW	C	65	Dry	Excellent	ForestMixed
122419	10/07/2011	DarrellKraemer	566556	7043275	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
122420	10/07/2011	DarrellKraemer	566516	7043255	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	B	50	Dry	Good	ForestMixed
122421	10/07/2011	DarrellKraemer	566463	7043203	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
122422	11/07/2011	DarrellKraemer	566438	7043170	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	55	Dry	Good	ForestMixed



Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
122423	11/07/2011	DarrellKraemer	566413	7043146	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	B	50	Dry	Excellent	ForestMixed
122424	11/07/2011	DarrellKraemer	566378	7043106	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Good	ForestMixed
122425	11/07/2011	DarrellKraemer	566340	7043074	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	60	Frozen	Excellent	ForestMixed
122426	11/07/2011	DarrellKraemer	566298	7043038	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	55	Dry	Good	ForestMixed
122427	11/07/2011	DarrellKraemer	566271	7043004	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
122428	11/07/2011	DarrellKraemer	566233	7042968	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateSW	C	55	Dry	Excellent	ForestMixed
122429	11/07/2011	DarrellKraemer	566205	7042917	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
122430	11/07/2011	DarrellKraemer	566174	7042891	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateSW	B	50	Dry	Excellent	ForestMixed
122431	11/07/2011	DarrellKraemer	566132	7042840	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateSW	C	55	Dry	Excellent	ForestMixed
122432	11/07/2011	DarrellKraemer	566109	7042819	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateSW	C	65	Dry	Excellent	ForestMixed

## **Appendix C - Analytical Certificates**



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

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

Submitted By: Lauren Wilson
Receiving Lab: Canada-Whitehorse
Received: July 30, 2011
Report Date: August 19, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000795.1

CLIENT JOB INFORMATION

Project: Rosebute
Shipment ID: 20110715100429
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.

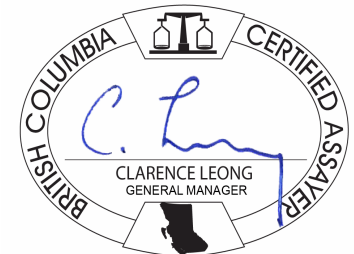
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Mark Fekete

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.



Acme Analytical Laboratories (Vancouver) Ltd.  
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
 Phone (604) 253-3158 Fax (604) 253-1716

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

Project: Rosebute  
 Report Date: August 19, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
108874	Soil	0.5	69.9	4.9	65	<0.1	19.5	18.7	513	3.27	3.8	0.7	2.6	2.5	23	0.1	0.4	0.1	86	0.55	0.029
108875	Soil	2.1	25.1	9.6	57	<0.1	25.3	13.6	487	2.87	6.7	1.0	3.5	4.3	23	<0.1	0.4	0.2	60	0.30	0.018
108876	Soil	<0.1	76.9	2.2	49	<0.1	15.2	21.6	646	3.59	2.1	0.2	2.2	0.9	24	<0.1	0.2	<0.1	105	0.62	0.046
108877	Soil	0.6	51.8	5.2	39	<0.1	14.1	12.2	325	2.20	3.9	0.4	6.5	1.7	19	<0.1	0.2	<0.1	52	0.51	0.033
108878	Soil	0.5	33.3	5.1	53	<0.1	8.6	11.8	575	2.74	3.0	0.6	5.6	3.0	20	<0.1	0.1	<0.1	56	0.54	0.036
108879	Soil	0.9	22.3	5.5	54	<0.1	7.0	7.5	370	2.48	3.3	1.2	2.6	5.1	28	<0.1	0.1	<0.1	59	0.18	0.032
108896	Soil	4.8	163.8	4.7	59	<0.1	12.7	9.7	480	3.15	4.4	1.2	4.8	7.1	32	<0.1	0.2	<0.1	71	0.13	0.018
108897	Soil	<0.1	136.3	9.0	104	0.3	6.7	10.5	795	5.01	0.5	1.3	1.1	6.8	79	<0.1	<0.1	<0.1	137	0.41	0.041
108898	Soil	0.6	42.2	8.0	67	<0.1	4.0	8.7	366	2.45	7.1	2.5	1.7	14.4	33	<0.1	0.2	<0.1	37	0.36	0.018
108899	Soil	0.6	30.7	6.3	135	<0.1	7.1	14.7	783	3.45	2.1	2.3	1.5	13.3	39	<0.1	0.1	<0.1	54	0.54	0.026
108900	Soil	0.9	16.4	7.8	56	<0.1	11.4	11.2	435	3.88	7.1	0.3	2.2	2.2	20	<0.1	0.3	0.1	93	0.14	0.028
108901	Soil	0.5	23.8	5.0	73	<0.1	12.9	14.7	553	3.64	4.6	0.4	3.2	2.5	30	<0.1	0.3	<0.1	87	0.17	0.018
108902	Soil	1.4	81.6	4.1	100	<0.1	13.4	33.0	1113	4.86	3.0	0.7	1.7	3.1	66	<0.1	0.3	<0.1	120	0.42	0.038
108903	Soil	0.6	68.3	4.9	196	<0.1	10.8	20.2	936	4.34	1.9	1.0	3.3	5.2	43	0.3	0.1	<0.1	119	0.84	0.035
108904	Soil	0.7	42.1	6.0	59	<0.1	13.7	12.1	514	3.08	6.2	0.9	3.0	5.3	20	0.1	0.3	<0.1	75	0.19	0.027
108905	Soil	2.6	97.0	4.6	133	0.1	5.0	9.8	851	4.87	0.7	1.3	3.8	9.8	52	<0.1	<0.1	<0.1	120	0.22	0.066
108906	Soil	1.1	111.7	6.9	59	<0.1	16.6	10.6	399	2.92	6.3	1.0	2.6	5.8	17	<0.1	0.4	0.1	59	0.13	0.016
108907	Soil	0.8	73.1	13.2	104	<0.1	53.1	22.5	1161	4.42	3.2	3.2	2.1	12.5	12	<0.1	0.2	0.2	55	0.13	0.050
108908	Soil	1.3	15.0	6.9	81	<0.1	7.4	14.8	1143	3.28	3.8	2.2	2.4	14.1	9	<0.1	0.2	0.1	53	0.07	0.031
108909	Soil	1.0	17.5	7.4	46	<0.1	17.8	9.0	316	2.57	5.7	0.8	3.5	6.8	13	<0.1	0.5	0.2	51	0.12	0.012
108910	Soil	0.6	8.6	6.6	127	<0.1	3.3	6.5	718	3.06	3.4	1.7	3.7	12.8	30	<0.1	0.2	<0.1	51	0.12	0.034
108911	Soil	0.4	11.4	7.8	68	<0.1	6.1	6.5	528	2.50	3.1	1.7	0.9	10.2	57	<0.1	0.2	<0.1	43	0.78	0.033
108912	Soil	0.8	11.4	6.8	59	<0.1	12.5	9.4	470	2.89	7.1	0.8	2.5	6.4	18	0.1	0.4	0.1	56	0.22	0.029
108913	Soil	0.7	14.7	6.8	57	<0.1	10.4	6.8	528	2.67	5.3	2.4	1.2	8.2	29	<0.1	0.3	0.1	60	0.25	0.021
108914	Soil	0.4	10.3	3.4	63	<0.1	4.3	10.4	696	3.36	2.2	1.9	<0.5	13.4	47	<0.1	0.2	<0.1	46	0.48	0.042
108915	Soil	1.0	14.5	5.2	50	<0.1	7.5	7.8	453	2.73	2.8	2.0	3.8	10.5	46	<0.1	0.2	0.1	43	0.48	0.039
108916	Soil	1.0	32.4	6.2	43	<0.1	13.7	8.4	383	2.47	5.8	1.9	3.3	12.7	30	<0.1	0.4	0.2	48	0.34	0.026
108917	Soil	0.7	16.6	4.0	42	<0.1	7.4	7.3	395	2.77	3.4	1.8	1.5	8.9	45	<0.1	0.2	0.1	43	0.46	0.037
108918	Soil	1.0	11.5	3.9	49	<0.1	6.2	7.2	403	2.89	3.4	1.4	0.5	6.9	22	<0.1	0.2	0.2	53	0.20	0.032
108919	Soil	1.0	13.9	3.9	47	<0.1	6.9	7.0	361	2.58	3.0	1.3	1.6	7.6	30	0.2	0.2	0.2	42	0.25	0.025

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000795.1

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
108874	Soil	8	22	1.13	253	0.083	2	1.83	0.020	0.13	<0.1	0.03	8.6	0.1	<0.05	5	<0.5	<0.2
108875	Soil	10	36	0.58	187	0.061	1	1.57	0.010	0.09	0.1	0.04	6.1	<0.1	<0.05	6	0.5	<0.2
108876	Soil	8	20	1.87	321	0.121	2	2.19	0.019	0.52	<0.1	0.01	6.4	0.2	<0.05	6	0.8	<0.2
108877	Soil	8	18	0.61	152	0.040	<1	1.23	0.027	0.05	<0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
108878	Soil	14	16	0.73	139	0.040	2	1.41	0.020	0.10	<0.1	0.01	6.5	<0.1	<0.05	6	<0.5	<0.2
108879	Soil	14	15	0.68	110	0.137	2	1.74	0.013	0.32	<0.1	0.03	2.2	0.2	<0.05	7	<0.5	<0.2
108896	Soil	17	25	0.96	157	0.143	2	2.27	0.010	0.41	<0.1	0.01	4.9	0.3	<0.05	7	1.1	<0.2
108897	Soil	7	25	2.09	344	0.235	3	3.69	0.019	1.31	<0.1	<0.01	4.8	0.6	<0.05	11	<0.5	0.4
108898	Soil	12	6	0.65	117	0.138	<1	2.19	0.009	0.25	<0.1	0.02	2.7	0.2	<0.05	6	<0.5	<0.2
108899	Soil	55	10	1.07	195	0.168	<1	2.93	0.012	0.51	<0.1	0.02	3.0	0.3	<0.05	9	0.6	<0.2
108900	Soil	6	30	0.97	130	0.146	1	2.41	0.007	0.38	<0.1	0.02	2.0	0.2	<0.05	8	0.8	<0.2
108901	Soil	7	25	1.40	213	0.187	1	3.09	0.010	0.69	<0.1	0.02	1.8	0.3	<0.05	6	<0.5	<0.2
108902	Soil	11	27	1.94	285	0.264	1	3.53	0.015	1.09	0.1	0.03	2.5	0.4	<0.05	9	<0.5	<0.2
108903	Soil	14	23	1.79	205	0.234	<1	3.64	0.013	1.24	<0.1	0.02	4.5	0.4	<0.05	12	<0.5	<0.2
108904	Soil	11	25	0.92	187	0.129	3	2.14	0.010	0.23	0.1	0.03	3.8	0.2	<0.05	7	<0.5	<0.2
108905	Soil	12	21	2.03	439	0.227	<1	3.23	0.011	1.48	<0.1	0.02	4.3	0.5	<0.05	9	1.4	0.3
108906	Soil	13	26	0.78	153	0.098	2	1.93	0.009	0.26	0.1	0.03	3.1	0.1	<0.05	6	0.8	<0.2
108907	Soil	37	32	1.55	195	0.239	<1	2.55	0.006	1.21	<0.1	0.02	3.2	0.5	<0.05	9	0.8	<0.2
108908	Soil	38	13	1.03	112	0.174	3	1.94	0.007	0.89	0.2	0.02	4.5	0.4	<0.05	10	<0.5	0.2
108909	Soil	11	29	0.53	158	0.081	<1	1.69	0.008	0.11	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
108910	Soil	28	9	1.09	88	0.183	<1	1.93	0.008	0.64	0.1	0.03	4.2	0.4	<0.05	11	<0.5	<0.2
108911	Soil	33	12	0.71	116	0.120	1	2.34	0.009	0.41	<0.1	0.07	3.5	0.2	<0.05	9	1.3	<0.2
108912	Soil	12	21	0.65	118	0.124	<1	2.14	0.012	0.20	0.1	0.05	3.2	0.1	<0.05	8	1.0	<0.2
108913	Soil	45	17	0.67	163	0.107	2	1.85	0.009	0.28	0.1	0.04	3.8	0.1	<0.05	7	<0.5	<0.2
108914	Soil	39	10	0.97	168	0.185	1	2.32	0.009	0.80	0.1	0.02	3.1	0.4	<0.05	8	0.6	<0.2
108915	Soil	31	14	0.65	115	0.132	<1	1.99	0.009	0.44	<0.1	0.03	2.7	0.3	<0.05	7	<0.5	<0.2
108916	Soil	31	25	0.53	170	0.092	2	1.67	0.011	0.11	0.1	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
108917	Soil	31	14	0.67	138	0.143	<1	2.06	0.009	0.44	0.1	0.01	2.6	0.2	<0.05	7	<0.5	<0.2
108918	Soil	25	13	0.71	100	0.155	<1	1.81	0.008	0.46	<0.1	0.02	2.3	0.3	<0.05	7	0.5	<0.2
108919	Soil	23	16	0.62	109	0.131	1	1.52	0.010	0.39	<0.1	0.02	2.4	0.2	<0.05	6	1.5	0.3

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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
108920	Soil	1.1	17.6	4.8	43	<0.1	8.7	6.9	302	2.18	3.5	1.1	4.3	6.1	24	<0.1	0.3	0.2	40	0.19	0.018
108921	Soil	0.9	24.4	4.4	49	<0.1	6.8	7.1	333	2.21	2.8	1.7	1.4	7.7	33	0.1	0.2	0.2	37	0.27	0.021
108922	Soil	0.8	16.8	5.6	43	<0.1	8.4	5.7	243	2.09	4.4	1.2	4.5	5.9	25	<0.1	0.2	0.1	40	0.26	0.033
108923	Soil	0.7	15.3	5.3	46	<0.1	8.3	6.7	296	2.18	4.0	1.1	3.6	6.0	24	<0.1	0.2	0.2	40	0.26	0.026
108924	Soil	1.5	16.9	5.6	47	<0.1	11.3	5.6	296	2.11	3.3	1.4	4.9	6.3	28	0.1	0.2	0.2	39	0.27	0.035
108925	Soil	0.8	15.7	5.2	42	<0.1	7.7	5.0	223	1.93	3.4	1.3	1.3	6.1	25	0.1	0.2	0.2	36	0.29	0.037
102489	Soil	1.0	38.2	7.1	43	0.1	19.7	11.0	279	2.72	6.3	0.8	1.1	0.5	15	0.1	0.4	0.1	66	0.22	0.076
102490	Soil	0.6	12.5	5.4	31	<0.1	12.5	7.6	189	2.17	4.9	0.4	4.2	1.8	11	<0.1	0.3	0.1	58	0.26	0.056
102491	Soil	2.2	178.1	3.8	64	<0.1	14.4	11.4	308	3.60	3.8	1.4	0.6	4.1	28	<0.1	0.2	<0.1	63	0.40	0.090
102492	Soil	2.1	164.3	3.8	65	<0.1	15.7	12.3	350	3.71	3.9	1.3	2.2	3.8	30	<0.1	0.2	<0.1	64	0.42	0.093
102493	Soil	1.0	42.8	3.3	69	<0.1	22.9	24.5	548	4.41	2.8	0.3	<0.5	1.7	18	<0.1	0.2	<0.1	96	0.18	0.038
102494	Soil	1.2	13.1	9.8	43	<0.1	14.9	9.2	199	2.91	7.4	0.6	2.3	3.3	17	<0.1	0.5	0.2	81	0.18	0.028
102495	Soil	0.6	30.9	4.4	55	<0.1	25.8	20.2	426	4.46	6.2	0.3	<0.5	2.3	31	<0.1	0.4	<0.1	97	0.44	0.062
102496	Soil	0.6	60.4	4.1	38	<0.1	32.7	14.2	262	2.46	4.4	0.4	1.3	2.6	27	<0.1	0.2	<0.1	46	0.27	0.019
102497	Soil	0.5	42.1	3.1	36	<0.1	22.7	12.3	270	2.34	3.6	0.3	2.1	2.0	16	<0.1	0.2	<0.1	53	0.33	0.044
102498	Soil	0.8	33.7	5.3	47	<0.1	22.5	11.6	262	2.85	6.0	0.5	1.7	2.8	20	<0.1	0.4	<0.1	62	0.34	0.038
102499	Soil	0.6	20.6	4.2	41	<0.1	14.3	7.6	259	2.69	4.4	0.6	1.0	3.1	22	<0.1	0.4	<0.1	38	0.35	0.045
102500	Soil	6.0	84.5	11.4	133	0.2	16.2	6.2	190	4.17	1.6	3.7	<0.5	13.4	68	0.3	0.1	0.2	82	0.13	0.088
102501	Soil	1.3	21.2	9.4	125	<0.1	20.2	11.3	473	3.32	4.2	0.9	0.6	4.4	13	0.3	0.3	0.2	62	0.17	0.034
102502	Soil	1.2	39.7	9.9	95	<0.1	31.2	17.4	376	3.60	6.4	1.5	0.9	10.4	17	0.3	0.4	0.2	57	0.12	0.023
102503	Soil	0.9	14.8	8.8	63	<0.1	20.8	10.8	256	3.03	7.3	0.7	0.5	5.8	14	0.2	0.5	0.2	56	0.12	0.025
102504	Soil	0.4	24.7	20.3	172	<0.1	27.1	8.9	465	2.86	3.5	0.4	<0.5	3.6	12	0.4	0.2	0.1	70	0.31	0.016
102505	Soil	1.1	22.9	6.3	79	<0.1	16.3	18.7	658	4.30	6.7	0.4	<0.5	4.5	16	0.1	0.4	<0.1	92	0.20	0.040
102506	Soil	0.8	21.5	6.7	62	<0.1	14.1	14.6	446	3.46	5.3	0.3	<0.5	2.5	14	<0.1	0.4	0.1	78	0.17	0.019
102507	Soil	0.7	20.9	6.5	52	<0.1	15.5	16.0	487	3.50	4.1	0.6	1.5	5.4	18	<0.1	0.3	<0.1	82	0.22	0.020
102508	Soil	0.5	30.7	4.0	118	<0.1	34.5	20.8	651	4.21	1.7	0.4	<0.5	2.8	16	0.2	0.2	<0.1	130	0.28	0.039
102509	Soil	6.5	41.8	14.8	134	0.3	10.5	6.6	299	2.60	7.4	1.8	1.2	12.1	16	0.6	0.4	0.7	38	0.13	0.034
102510	Soil	2.0	21.3	11.0	64	0.1	22.2	9.1	301	3.09	10.0	0.8	0.9	6.3	18	<0.1	0.7	0.2	67	0.15	0.026
102511	Soil	2.4	18.5	12.7	85	0.1	24.8	12.2	579	3.50	10.5	0.6	3.5	5.6	13	0.2	0.7	0.2	72	0.11	0.036
102512	Soil	5.2	66.8	10.4	243	0.3	49.8	22.4	887	4.69	3.1	1.5	1.5	11.2	31	1.1	0.2	0.5	100	0.45	0.061

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Page: 3 of 12 Part 2

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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	
108920	Soil	16	17	0.50	118	0.100	2	1.40	0.009	0.17	<0.1	0.03	2.3	0.1	<0.05	5	<0.5	0.3
108921	Soil	19	14	0.51	114	0.111	2	1.38	0.010	0.30	0.1	0.01	2.7	0.2	<0.05	5	1.3	<0.2
108922	Soil	17	17	0.48	115	0.092	2	1.27	0.014	0.16	0.1	0.03	2.5	<0.1	<0.05	4	0.7	0.2
108923	Soil	15	17	0.50	118	0.103	<1	1.27	0.010	0.17	<0.1	0.03	2.3	<0.1	<0.05	5	1.2	<0.2
108924	Soil	18	18	0.50	93	0.107	2	1.41	0.010	0.23	0.1	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
108925	Soil	17	17	0.47	109	0.098	3	1.25	0.010	0.18	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
102489	Soil	10	29	0.52	131	0.048	1	1.81	0.016	0.05	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
102490	Soil	7	21	0.42	95	0.076	<1	1.36	0.019	0.04	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
102491	Soil	20	25	1.03	307	0.126	<1	2.10	0.036	0.49	<0.1	0.02	4.3	0.1	0.27	8	0.5	<0.2
102492	Soil	18	28	1.06	345	0.142	<1	2.19	0.034	0.54	0.1	0.01	4.4	0.1	0.22	8	0.5	<0.2
102493	Soil	9	29	1.99	383	0.307	<1	3.44	0.015	0.94	<0.1	0.01	1.7	0.2	<0.05	7	<0.5	<0.2
102494	Soil	11	30	0.50	172	0.087	<1	2.11	0.015	0.07	0.2	0.02	3.8	0.1	<0.05	7	<0.5	<0.2
102495	Soil	5	43	1.49	215	0.172	<1	3.33	0.021	0.23	0.1	0.02	5.3	0.1	<0.05	9	<0.5	<0.2
102496	Soil	8	36	0.90	211	0.122	<1	2.13	0.014	0.13	0.2	0.01	3.0	0.1	<0.05	5	<0.5	<0.2
102497	Soil	6	39	0.82	274	0.129	<1	2.02	0.027	0.33	0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
102498	Soil	9	36	0.73	242	0.107	<1	2.34	0.024	0.12	0.1	0.02	3.5	0.1	<0.05	5	<0.5	<0.2
102499	Soil	10	21	0.49	295	0.122	<1	1.49	0.023	0.20	0.3	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
102500	Soil	53	48	1.23	565	0.153	<1	2.56	0.016	0.93	<0.1	<0.01	3.8	0.8	0.20	8	3.6	<0.2
102501	Soil	18	54	0.99	279	0.166	<1	2.31	0.013	0.52	0.1	0.01	3.6	0.3	<0.05	8	<0.5	<0.2
102502	Soil	19	45	0.74	188	0.172	<1	2.82	0.014	0.37	0.1	0.04	4.5	0.3	<0.05	7	<0.5	<0.2
102503	Soil	9	35	0.55	159	0.099	<1	2.29	0.010	0.16	0.1	0.02	2.6	0.2	<0.05	6	<0.5	<0.2
102504	Soil	8	94	1.17	126	0.216	<1	2.00	0.009	0.04	<0.1	<0.01	9.7	0.2	<0.05	9	<0.5	<0.2
102505	Soil	6	27	1.47	199	0.230	<1	3.39	0.014	0.77	0.1	0.02	2.3	0.4	<0.05	8	<0.5	<0.2
102506	Soil	6	27	1.21	206	0.166	<1	2.63	0.012	0.39	0.1	0.02	2.1	0.2	<0.05	7	<0.5	<0.2
102507	Soil	12	33	1.17	201	0.162	<1	2.46	0.012	0.45	0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
102508	Soil	4	91	2.01	218	0.274	<1	3.09	0.016	0.86	0.1	0.01	4.4	0.4	<0.05	9	<0.5	<0.2
102509	Soil	8	19	0.38	161	0.015	<1	2.54	0.009	0.07	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
102510	Soil	11	41	0.49	193	0.084	<1	2.25	0.013	0.08	0.1	0.03	4.1	0.1	<0.05	6	<0.5	<0.2
102511	Soil	10	42	0.44	202	0.078	<1	2.83	0.012	0.06	0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
102512	Soil	80	75	2.06	269	0.208	<1	3.25	0.015	0.96	0.1	0.03	5.6	0.5	<0.05	10	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
102513	Soil	1.0	25.6	9.1	100	<0.1	14.8	11.4	536	3.81	5.2	0.4	0.7	4.3	14	0.1	0.3	0.2	85	0.16	0.028
102514	Soil	0.7	35.8	3.4	125	<0.1	11.9	19.1	740	5.28	2.0	0.5	<0.5	5.4	18	<0.1	0.1	0.1	149	0.27	0.046
102515	Soil	0.3	25.2	2.9	87	<0.1	14.9	23.2	957	5.36	1.3	0.6	<0.5	7.1	21	<0.1	0.1	<0.1	132	0.34	0.057
102516	Soil	0.7	21.4	7.0	54	<0.1	14.7	9.7	284	2.93	5.5	1.0	4.5	5.0	21	<0.1	0.5	0.1	70	0.26	0.027
102517	Soil	0.6	24.5	4.2	70	<0.1	14.8	17.7	641	3.87	3.5	0.5	1.8	4.1	23	0.1	0.2	<0.1	100	0.36	0.057
102518	Soil	0.6	14.9	6.9	50	<0.1	13.6	7.9	213	2.32	5.2	0.8	9.0	4.1	22	0.1	0.4	<0.1	54	0.30	0.050
104718	Soil	0.6	36.5	5.9	48	<0.1	24.3	11.9	296	2.72	6.1	0.6	2.8	3.5	18	<0.1	0.3	<0.1	59	0.27	0.043
104719	Soil	0.8	22.6	4.6	44	<0.1	19.7	10.8	314	2.86	4.8	0.4	0.8	1.9	16	<0.1	0.3	0.1	65	0.31	0.044
104720	Soil	1.8	61.3	4.4	214	<0.1	10.7	16.6	521	8.05	2.6	0.7	0.7	2.5	40	0.2	0.2	0.2	189	0.49	0.104
104721	Soil	0.8	15.3	6.7	58	<0.1	14.9	10.0	279	2.90	5.1	0.7	2.2	3.2	20	<0.1	0.4	0.1	67	0.30	0.049
104722	Soil	2.2	25.4	8.3	67	0.2	19.7	7.1	204	2.37	6.3	1.5	1.5	4.9	27	<0.1	0.4	0.1	52	0.28	0.061
104723	Soil	1.7	42.3	6.8	157	<0.1	25.2	11.9	506	4.18	5.1	1.6	1.9	4.5	29	0.3	0.3	0.1	102	0.27	0.057
104724	Soil	2.4	131.8	5.7	32	0.4	14.9	4.4	85	3.57	2.0	1.7	6.1	14.1	23	<0.1	0.2	1.8	44	0.05	0.071
104725	Soil	0.6	30.5	4.9	89	<0.1	31.3	12.9	451	3.57	3.2	1.1	0.5	11.6	13	0.2	<0.1	0.1	67	0.39	0.048
104726	Soil	0.6	31.2	7.0	71	<0.1	27.6	13.7	331	3.11	8.6	0.9	1.5	8.1	26	<0.1	0.2	0.1	48	0.31	0.032
104727	Soil	1.0	47.7	41.0	113	0.2	28.2	11.0	339	3.48	6.7	1.2	2.2	6.5	34	0.4	0.2	0.3	70	0.63	0.087
104728	Soil	1.2	35.1	13.1	108	0.1	25.8	9.6	273	2.94	6.7	0.9	2.5	4.6	25	0.3	0.3	0.2	63	0.39	0.054
104729	Soil	0.9	30.6	3.7	185	<0.1	14.3	16.9	808	4.65	1.6	1.0	0.6	4.5	26	0.4	<0.1	<0.1	84	0.42	0.085
104730	Soil	1.3	39.8	4.2	331	<0.1	37.0	30.2	910	5.19	1.6	1.2	1.0	3.9	51	0.5	<0.1	0.2	115	0.42	0.102
104731	Soil	1.7	69.7	6.6	158	0.3	30.4	16.5	423	4.40	2.0	2.8	8.0	11.0	31	0.4	0.1	2.5	73	0.23	0.059
104732	Soil	1.0	113.4	100.7	952	0.3	33.2	15.1	771	6.62	2.5	1.8	7.5	13.1	32	0.6	0.1	1.8	45	0.25	0.055
104733	Soil	0.9	107.6	381.3	1058	1.8	27.6	14.1	928	3.21	4.8	1.4	5.1	4.1	24	4.8	0.3	1.7	38	0.53	0.047
104734	Soil	0.7	123.4	84.6	627	0.9	46.1	17.4	1029	4.01	5.0	1.7	4.0	8.2	31	3.8	0.2	0.5	48	0.85	0.060
104735	Soil	0.7	17.9	7.6	60	<0.1	12.3	8.0	296	2.56	5.0	1.0	<0.5	6.2	24	<0.1	0.2	0.1	56	0.36	0.052
104736	Soil	0.7	25.1	9.3	92	<0.1	27.3	10.5	304	2.66	4.9	0.4	1.9	2.3	17	0.3	0.2	0.1	60	0.25	0.052
104737	Soil	0.9	26.1	7.9	69	<0.1	19.3	8.9	378	2.86	5.9	1.2	5.0	6.5	28	0.1	0.4	0.1	55	0.44	0.053
104738	Soil	1.0	30.9	9.8	88	<0.1	26.1	11.7	381	3.15	6.5	0.6	1.8	3.0	24	0.1	0.2	0.2	69	0.26	0.043
104739	Soil	1.4	109.7	8.9	131	<0.1	43.0	24.6	1053	4.74	2.9	1.4	<0.5	3.1	37	0.6	<0.1	<0.1	133	0.62	0.182
104740	Soil	0.8	27.2	12.0	77	<0.1	22.0	11.2	366	2.83	4.9	0.9	3.2	6.2	26	0.1	0.3	0.1	61	0.32	0.042
104741	Soil	0.9	17.4	10.0	68	<0.1	15.7	9.7	376	2.64	5.7	0.6	4.1	5.4	20	<0.1	0.2	0.1	59	0.27	0.042

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
102513	Soil	11	25	1.05	129	0.178	<1	2.44	0.010	0.56	0.2	0.02	2.8	0.3	<0.05	8	<0.5	<0.2
102514	Soil	5	44	1.75	250	0.225	<1	3.13	0.017	1.28	0.1	0.01	7.1	0.6	<0.05	10	<0.5	<0.2
102515	Soil	15	40	1.96	261	0.206	<1	3.10	0.016	1.58	<0.1	<0.01	5.4	0.5	<0.05	10	<0.5	<0.2
102516	Soil	14	31	0.69	186	0.121	<1	1.86	0.018	0.15	0.2	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
102517	Soil	10	35	1.45	242	0.214	<1	2.39	0.019	0.98	0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
102518	Soil	12	25	0.55	165	0.094	<1	1.50	0.019	0.08	0.2	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
104718	Soil	9	39	0.72	188	0.108	<1	2.01	0.016	0.12	0.2	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
104719	Soil	7	41	0.76	166	0.126	<1	2.02	0.023	0.15	0.1	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2
104720	Soil	18	14	1.45	413	0.092	<1	2.88	0.027	0.32	<0.1	<0.01	15.0	<0.1	<0.05	13	<0.5	<0.2
104721	Soil	11	25	0.67	162	0.080	<1	1.90	0.019	0.04	0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
104722	Soil	16	24	0.41	187	0.066	<1	1.13	0.017	0.08	0.1	0.02	4.4	<0.1	<0.05	4	0.8	<0.2
104723	Soil	11	22	0.90	361	0.183	<1	2.47	0.018	0.50	<0.1	0.02	6.1	0.3	<0.05	8	<0.5	<0.2
104724	Soil	52	24	0.35	277	0.060	<1	1.20	0.021	0.46	<0.1	<0.01	2.1	0.4	0.51	4	1.4	0.5
104725	Soil	18	58	1.12	169	0.257	<1	2.76	0.013	0.96	<0.1	0.01	5.4	0.5	<0.05	11	<0.5	<0.2
104726	Soil	27	33	0.69	202	0.141	<1	1.94	0.015	0.41	<0.1	0.02	2.7	0.3	<0.05	6	<0.5	<0.2
104727	Soil	23	36	0.81	229	0.136	<1	2.02	0.023	0.33	0.1	0.03	5.2	0.2	0.06	7	0.5	<0.2
104728	Soil	17	31	0.67	251	0.083	<1	1.69	0.014	0.11	0.1	0.02	2.9	0.1	0.07	5	0.8	<0.2
104729	Soil	17	14	1.44	396	0.265	<1	2.58	0.011	1.41	0.2	<0.01	5.6	0.5	0.06	11	<0.5	<0.2
104730	Soil	31	110	1.81	666	0.290	<1	3.03	0.019	1.36	<0.1	0.01	7.2	0.5	<0.05	11	0.6	<0.2
104731	Soil	48	54	1.00	494	0.206	<1	2.33	0.013	0.79	<0.1	0.04	4.8	0.5	0.18	9	0.6	<0.2
104732	Soil	40	47	1.29	250	0.223	<1	2.91	0.024	1.08	<0.1	0.02	4.2	0.7	0.20	10	<0.5	<0.2
104733	Soil	19	30	0.42	225	0.076	<1	1.52	0.010	0.08	0.1	0.08	3.6	0.1	0.08	5	<0.5	<0.2
104734	Soil	35	35	1.00	204	0.133	<1	2.01	0.014	0.54	<0.1	0.09	4.5	0.4	0.09	7	<0.5	<0.2
104735	Soil	19	20	0.51	173	0.127	<1	1.59	0.012	0.29	0.2	0.02	2.6	0.2	<0.05	5	<0.5	<0.2
104736	Soil	12	32	0.70	122	0.122	<1	1.74	0.010	0.19	0.1	0.03	2.4	0.2	<0.05	7	<0.5	<0.2
104737	Soil	18	27	0.59	232	0.134	<1	1.78	0.017	0.33	0.2	0.05	3.5	0.2	<0.05	6	<0.5	<0.2
104738	Soil	12	35	0.75	138	0.138	<1	2.02	0.012	0.17	0.1	0.02	3.0	0.2	<0.05	8	<0.5	<0.2
104739	Soil	18	54	1.73	309	0.238	<1	2.67	0.011	1.14	0.1	0.01	2.8	0.7	0.08	9	<0.5	<0.2
104740	Soil	21	32	0.69	186	0.141	<1	1.87	0.019	0.24	0.1	0.03	3.1	0.2	<0.05	6	<0.5	<0.2
104741	Soil	15	25	0.57	113	0.125	<1	1.81	0.011	0.17	0.1	0.03	2.4	0.2	<0.05	6	<0.5	<0.2

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 Report Date: August 19, 2011

Page: 5 of 12 Part 1

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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
104742	Soil	0.7	17.7	7.2	58	<0.1	13.1	7.7	278	2.36	3.8	1.0	<0.5	6.7	22	<0.1	0.2	<0.1	47	0.33	0.045
104743	Soil	0.7	15.0	7.4	53	<0.1	13.1	7.8	241	2.32	3.7	0.7	1.1	5.3	21	<0.1	0.3	<0.1	49	0.34	0.050
104746	Soil	0.6	13.4	7.5	46	<0.1	12.5	5.7	133	1.95	4.5	0.6	3.9	2.5	19	<0.1	0.3	0.1	44	0.27	0.043
104747	Soil	0.8	15.1	6.5	53	<0.1	12.8	7.5	223	2.29	4.3	0.5	7.5	3.3	16	<0.1	0.3	<0.1	55	0.25	0.048
104748	Soil	0.8	19.0	5.4	56	<0.1	12.1	8.9	259	2.46	2.7	0.9	6.0	3.7	17	<0.1	0.2	<0.1	59	0.29	0.050
113288	Soil	0.8	18.7	6.6	38	<0.1	16.9	11.7	261	2.81	6.3	0.4	1.9	2.2	13	0.1	0.3	0.1	70	0.24	0.041
113289	Soil	0.8	33.6	7.2	46	<0.1	20.2	12.8	457	2.55	6.6	0.9	2.9	3.2	17	<0.1	0.4	0.1	59	0.26	0.057
113290	Soil	0.9	23.9	7.8	35	<0.1	14.1	7.4	173	2.31	4.9	0.6	5.8	0.3	16	<0.1	0.3	0.1	65	0.25	0.055
113291	Soil	0.6	26.5	6.6	47	<0.1	22.4	10.8	305	2.47	6.9	0.6	2.9	2.7	21	<0.1	0.4	0.1	58	0.34	0.061
113292	Soil	0.7	40.5	4.7	31	<0.1	15.1	11.4	243	2.46	4.0	0.4	1.7	2.9	12	<0.1	0.3	<0.1	67	0.31	0.066
113293	Soil	0.9	222.7	1.1	27	<0.1	7.4	30.6	363	4.55	2.3	0.5	1.0	0.8	12	<0.1	0.2	<0.1	106	0.62	0.195
113294	Soil	0.5	20.8	2.7	28	<0.1	9.1	15.6	343	2.88	2.9	0.2	0.6	0.8	20	<0.1	0.2	<0.1	75	0.77	0.119
113295	Soil	0.6	11.4	4.3	19	<0.1	26.9	9.0	150	1.72	3.2	0.3	0.8	0.5	18	<0.1	0.2	<0.1	38	0.33	0.060
113296	Soil	0.4	44.7	5.5	34	<0.1	88.6	18.0	386	3.03	3.5	0.6	1.1	3.2	44	<0.1	0.2	<0.1	98	0.59	0.089
113297	Soil	0.8	31.8	7.5	51	<0.1	23.9	13.7	409	2.99	7.8	0.7	2.1	2.6	20	<0.1	0.4	0.1	71	0.29	0.035
113298	Soil	0.9	26.0	8.5	51	<0.1	24.5	10.6	297	2.76	7.2	0.6	<0.5	3.0	16	<0.1	0.4	0.1	69	0.20	0.014
113299	Soil	0.9	19.6	9.3	52	0.1	24.6	11.5	397	2.80	7.9	0.4	<0.5	2.0	12	<0.1	0.4	0.1	72	0.14	0.039
113300	Soil	0.5	153.4	3.4	30	<0.1	14.9	15.2	172	2.66	3.8	0.6	3.6	2.2	15	<0.1	0.2	<0.1	48	0.53	0.199
113301	Soil	0.6	14.2	4.5	28	<0.1	18.6	10.0	177	2.32	6.6	0.4	1.3	2.3	14	<0.1	0.3	0.1	62	0.32	0.023
113302	Soil	0.7	24.3	7.7	42	<0.1	18.4	8.9	234	2.47	7.5	0.6	1.9	0.8	18	0.2	0.4	0.2	63	0.25	0.063
113303	Soil	1.1	61.7	37.0	102	0.1	22.6	17.7	391	3.63	7.5	0.9	2.1	4.0	24	0.2	0.4	0.3	100	0.46	0.063
113304	Soil	1.2	33.7	7.3	57	<0.1	39.5	16.4	285	3.60	7.6	1.2	1.5	12.3	15	<0.1	0.4	0.3	58	0.17	0.045
113305	Soil	0.9	26.4	8.2	58	<0.1	33.6	14.0	253	3.11	8.3	1.5	2.5	10.0	19	<0.1	0.5	0.2	60	0.22	0.050
113306	Soil	0.6	59.7	7.6	95	<0.1	41.9	21.1	269	5.42	3.4	1.4	0.9	9.9	25	0.2	0.2	0.4	56	0.16	0.019
113307	Soil	0.7	60.2	7.3	89	<0.1	32.6	13.6	311	4.59	6.0	3.3	1.8	19.9	18	<0.1	0.3	0.7	49	0.11	0.034
113308	Soil	3.0	41.7	4.5	151	0.2	14.9	6.4	369	4.02	1.2	2.7	6.7	18.6	28	0.2	<0.1	1.8	58	0.14	0.093
113309	Soil	0.7	13.2	11.0	53	<0.1	12.2	7.9	280	2.35	6.7	0.7	1.4	2.9	25	<0.1	0.3	0.2	59	0.21	0.050
113310	Soil	3.2	25.8	6.4	89	<0.1	7.3	9.2	443	4.29	2.1	1.7	<0.5	10.2	8	0.1	0.2	0.1	96	0.17	0.040
113311	Soil	1.6	41.7	10.0	73	0.4	46.0	11.7	299	2.93	7.9	1.9	5.3	5.9	31	0.1	0.4	0.2	106	0.35	0.087
113312	Soil	0.8	21.7	5.7	58	<0.1	7.2	10.8	402	4.13	1.8	0.6	0.7	2.4	45	<0.1	0.1	0.2	75	0.42	0.039

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
104742	Soil	21	20	0.56	160	0.112	<1	1.57	0.014	0.27	0.2	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
104743	Soil	17	22	0.47	160	0.106	<1	1.46	0.015	0.20	0.2	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
104746	Soil	10	21	0.38	136	0.084	<1	1.40	0.011	0.07	0.2	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
104747	Soil	10	21	0.48	116	0.108	<1	1.58	0.011	0.18	0.2	0.02	2.0	0.1	<0.05	5	<0.5	<0.2
104748	Soil	12	19	0.73	160	0.131	<1	1.60	0.009	0.48	0.2	0.02	2.3	0.2	<0.05	5	<0.5	<0.2
113288	Soil	8	26	0.55	143	0.075	<1	1.91	0.017	0.06	0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
113289	Soil	16	30	0.52	257	0.063	<1	1.88	0.014	0.04	0.2	0.04	4.5	0.1	<0.05	5	<0.5	<0.2
113290	Soil	13	27	0.38	153	0.045	<1	1.53	0.013	0.04	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
113291	Soil	13	28	0.60	219	0.075	<1	1.65	0.016	0.06	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
113292	Soil	8	25	0.58	139	0.062	<1	1.88	0.023	0.05	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
113293	Soil	6	8	1.13	318	0.237	<1	2.22	0.027	0.90	<0.1	0.01	5.0	0.6	<0.05	8	1.6	<0.2
113294	Soil	3	12	0.61	228	0.055	<1	2.22	0.066	0.06	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
113295	Soil	6	27	0.61	119	0.054	<1	1.62	0.017	0.03	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
113296	Soil	9	66	1.68	285	0.108	1	2.05	0.025	0.07	0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
113297	Soil	13	37	0.68	209	0.072	<1	1.98	0.014	0.04	0.1	0.05	5.8	<0.1	<0.05	5	<0.5	<0.2
113298	Soil	11	38	0.58	238	0.075	<1	2.15	0.011	0.04	0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
113299	Soil	7	32	0.41	238	0.051	<1	2.40	0.008	0.04	0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2
113300	Soil	13	18	0.56	147	0.087	<1	1.45	0.017	0.10	0.3	0.02	3.3	0.1	<0.05	5	1.1	<0.2
113301	Soil	6	31	0.57	141	0.124	1	1.98	0.035	0.04	0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
113302	Soil	12	28	0.47	150	0.056	1	1.71	0.017	0.05	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
113303	Soil	11	29	0.75	286	0.115	<1	2.46	0.039	0.17	0.1	0.03	5.2	0.2	<0.05	7	0.6	<0.2
113304	Soil	22	39	0.81	132	0.098	1	2.45	0.007	0.19	0.1	<0.01	3.6	0.2	<0.05	6	<0.5	<0.2
113305	Soil	50	36	0.69	249	0.102	<1	2.02	0.015	0.25	0.1	0.03	3.9	0.2	<0.05	6	<0.5	<0.2
113306	Soil	16	54	1.13	339	0.275	<1	3.71	0.015	0.96	<0.1	0.02	4.8	0.8	<0.05	11	0.7	<0.2
113307	Soil	50	38	0.94	239	0.212	1	2.91	0.011	0.81	<0.1	0.01	4.9	0.6	<0.05	8	0.5	<0.2
113308	Soil	21	43	0.87	269	0.162	<1	2.15	0.023	0.96	<0.1	0.01	3.7	0.6	0.28	7	0.6	<0.2
113309	Soil	13	35	0.60	211	0.107	1	1.72	0.014	0.19	0.1	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
113310	Soil	4	7	0.71	220	0.152	<1	2.37	0.022	0.58	<0.1	<0.01	7.4	0.2	<0.05	9	0.5	<0.2
113311	Soil	16	74	0.86	247	0.102	2	2.14	0.016	0.07	0.2	0.05	4.2	0.2	<0.05	7	0.8	<0.2
113312	Soil	9	13	1.08	420	0.072	<1	2.55	0.033	0.26	<0.1	<0.01	9.8	<0.1	<0.05	9	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
113313	Soil		0.8	33.1	4.2	49	<0.1	14.5	14.3	472	4.30	3.7	0.6	2.2	2.9	34	<0.1	0.2	<0.1	68	0.57	0.093
113314	Soil		0.4	81.6	2.2	35	<0.1	39.8	14.2	269	2.10	2.9	0.4	1.7	2.0	28	<0.1	0.1	<0.1	45	0.37	0.034
113315	Soil		0.8	45.1	4.6	45	<0.1	20.3	13.0	287	2.44	4.2	0.8	2.1	2.3	27	<0.1	0.2	<0.1	61	0.41	0.052
113316	Soil		0.3	47.6	1.1	48	<0.1	24.6	17.6	387	2.65	1.6	0.2	0.9	1.7	52	<0.1	<0.1	<0.1	64	0.59	0.084
113318	Soil		0.3	18.7	2.7	24	<0.1	13.2	8.9	218	2.06	3.0	0.5	2.3	2.4	20	<0.1	0.2	<0.1	60	0.58	0.081
113319	Soil		0.6	22.1	6.0	44	<0.1	18.5	10.2	269	2.72	6.6	0.6	1.5	1.8	20	<0.1	0.4	0.1	73	0.40	0.061
113320	Soil		0.9	22.2	6.9	45	<0.1	18.3	10.5	309	2.99	8.2	0.6	2.5	2.2	17	<0.1	0.4	0.1	77	0.29	0.059
113321	Soil		1.1	22.8	7.8	83	<0.1	16.5	14.9	530	4.06	7.3	0.6	0.9	4.5	21	0.1	0.3	0.1	91	0.26	0.035
113322	Soil		0.9	28.4	11.5	83	<0.1	17.0	11.2	397	3.12	7.1	0.8	1.7	5.1	22	0.1	0.3	0.1	81	0.25	0.026
113323	Soil		3.7	42.6	5.3	89	<0.1	13.7	16.0	754	4.15	4.9	0.9	1.2	11.0	29	<0.1	0.3	<0.1	87	0.38	0.038
113324	Soil		0.4	27.8	5.1	78	<0.1	6.2	17.3	959	4.33	1.3	0.6	1.2	7.4	32	<0.1	0.3	<0.1	95	0.37	0.046
113325	Soil		0.7	47.3	4.6	82	<0.1	11.0	17.0	788	4.91	4.2	0.9	3.5	6.6	28	<0.1	0.2	<0.1	119	0.42	0.064
113326	Soil		0.7	18.4	5.6	80	<0.1	12.6	17.3	637	4.36	5.5	0.5	0.9	4.9	24	<0.1	0.3	0.1	100	0.25	0.026
113327	Soil		1.1	16.2	4.4	97	<0.1	11.0	22.1	1193	5.06	3.2	0.9	<0.5	8.3	26	<0.1	0.2	<0.1	112	0.34	0.057
113328	Soil		1.7	20.6	12.1	161	<0.1	15.7	16.4	807	3.69	7.0	0.7	1.0	8.1	19	0.1	0.4	0.1	86	0.22	0.029
113329	Soil		0.5	26.0	4.0	82	<0.1	12.9	22.7	806	5.38	5.0	0.5	1.9	5.7	16	<0.1	0.2	<0.1	114	0.26	0.070
113330	Soil		1.4	15.3	10.4	59	0.1	22.4	9.6	250	2.79	8.3	0.6	0.9	4.3	17	0.2	0.4	0.2	71	0.18	0.044
113331	Soil		1.2	34.5	9.3	51	<0.1	21.2	8.5	321	2.67	7.1	3.4	2.8	7.9	29	<0.1	0.5	0.4	68	0.30	0.020
113332	Soil		0.8	32.8	8.8	61	<0.1	22.5	8.9	370	2.55	7.6	1.6	3.6	7.6	30	<0.1	0.6	0.2	58	0.34	0.047
113333	Soil		0.9	22.4	8.4	45	<0.1	20.8	8.7	267	2.41	6.9	1.5	2.1	9.3	23	<0.1	0.5	0.3	57	0.25	0.018
113334	Soil		1.3	82.7	11.9	59	<0.1	120.7	20.9	597	3.57	6.5	5.3	3.0	17.5	60	0.1	0.6	0.4	99	0.54	0.134
113335	Soil		0.7	31.3	5.2	74	<0.1	15.2	16.0	792	4.03	3.4	0.8	3.9	6.3	29	<0.1	0.2	<0.1	95	0.50	0.069
113336	Soil		2.1	63.6	14.4	99	0.1	33.1	13.6	413	3.55	3.5	1.6	1.3	9.1	19	<0.1	0.2	0.4	55	0.25	0.035
113337	Soil		2.1	112.4	18.2	118	0.2	34.2	16.6	367	4.98	0.9	2.7	1.3	23.3	13	<0.1	<0.1	0.4	41	0.12	0.068
113338	Soil		1.1	35.1	7.6	76	<0.1	39.2	16.8	425	3.48	1.7	1.7	<0.5	11.8	48	<0.1	<0.1	0.2	40	0.23	0.028
113339	Soil		1.5	120.4	22.3	155	<0.1	43.6	18.4	479	4.99	3.0	1.6	0.9	23.2	6	0.1	0.1	0.7	50	0.16	0.100
122338	Soil		1.8	33.8	7.8	104	<0.1	9.0	13.3	717	3.81	3.3	0.9	<0.5	13.9	14	<0.1	0.2	0.5	75	0.14	0.012
122339	Soil		1.4	12.4	9.2	82	<0.1	12.4	13.2	699	3.58	7.9	0.4	1.8	4.5	12	<0.1	0.3	0.1	77	0.12	0.039
122340	Soil		2.0	11.5	9.2	86	<0.1	10.2	12.2	758	3.73	7.9	0.5	<0.5	4.0	11	0.2	0.3	0.2	79	0.13	0.051
122341	Soil		1.9	21.6	9.0	69	<0.1	18.6	11.6	455	3.51	8.2	0.5	1.0	4.9	11	0.1	0.4	0.2	68	0.09	0.019

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Page: 6 of 12 Part 2

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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	
113313	Soil	7	19	0.90	269	0.048	<1	2.68	0.037	0.07	<0.1	<0.01	8.7	<0.1	<0.05	8	<0.5	<0.2
113314	Soil	6	51	1.11	148	0.095	<1	1.78	0.015	0.15	0.3	<0.01	3.0	0.1	<0.05	4	<0.5	<0.2
113315	Soil	9	38	0.77	188	0.101	<1	1.93	0.024	0.12	0.1	0.01	3.8	0.1	<0.05	5	<0.5	<0.2
113316	Soil	4	40	1.11	272	0.152	<1	2.05	0.037	0.42	<0.1	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
113318	Soil	10	22	0.57	143	0.102	<1	1.28	0.045	0.07	0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
113319	Soil	11	30	0.62	169	0.101	1	1.95	0.029	0.06	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
113320	Soil	10	31	0.58	131	0.100	1	2.00	0.024	0.06	0.1	0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
113321	Soil	11	33	1.21	159	0.184	1	2.61	0.012	0.36	0.1	0.01	3.1	0.2	<0.05	7	<0.5	<0.2
113322	Soil	14	32	1.00	151	0.146	1	2.29	0.013	0.20	0.1	0.03	3.5	0.2	<0.05	7	<0.5	<0.2
113323	Soil	35	24	1.33	261	0.197	<1	2.56	0.012	0.73	0.1	<0.01	4.2	0.4	<0.05	8	<0.5	<0.2
113324	Soil	14	12	1.53	97	0.017	<1	2.33	0.010	0.06	<0.1	<0.01	6.5	<0.1	<0.05	9	<0.5	<0.2
113325	Soil	39	20	1.66	200	0.250	<1	3.02	0.018	0.95	0.2	0.02	5.2	0.3	<0.05	9	<0.5	<0.2
113326	Soil	9	23	1.48	260	0.237	<1	3.41	0.013	0.89	0.2	<0.01	3.6	0.3	<0.05	9	<0.5	<0.2
113327	Soil	14	20	1.92	295	0.277	<1	3.64	0.016	1.17	0.1	0.01	4.3	0.5	<0.05	10	<0.5	<0.2
113328	Soil	10	27	1.21	171	0.195	<1	3.30	0.015	0.55	0.1	0.02	4.1	0.4	<0.05	8	<0.5	<0.2
113329	Soil	7	24	1.95	260	0.337	<1	4.08	0.013	1.19	0.3	0.01	3.0	0.6	<0.05	10	<0.5	<0.2
113330	Soil	12	33	0.41	236	0.081	<1	2.40	0.010	0.05	0.1	0.02	3.1	0.1	<0.05	7	<0.5	<0.2
113331	Soil	17	41	0.59	264	0.104	<1	1.95	0.019	0.05	0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
113332	Soil	20	35	0.58	233	0.102	<1	1.83	0.022	0.07	0.2	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
113333	Soil	14	36	0.43	203	0.084	<1	1.99	0.017	0.05	0.1	0.02	4.0	0.1	<0.05	5	<0.5	<0.2
113334	Soil	33	179	0.97	382	0.144	2	2.44	0.015	0.09	0.1	0.03	6.6	<0.1	<0.05	7	<0.5	<0.2
113335	Soil	14	31	1.48	282	0.194	<1	2.81	0.011	0.79	0.1	0.01	5.2	0.3	<0.05	8	<0.5	<0.2
113336	Soil	41	34	0.85	181	0.115	<1	2.39	0.011	0.34	<0.1	0.02	4.0	0.3	<0.05	7	<0.5	<0.2
113337	Soil	75	34	1.14	221	0.153	<1	2.70	0.017	1.06	<0.1	<0.01	4.1	0.7	0.28	7	0.6	<0.2
113338	Soil	37	24	0.88	198	0.058	<1	2.14	0.008	0.33	<0.1	0.02	4.5	0.3	<0.05	7	<0.5	<0.2
113339	Soil	17	37	1.27	175	0.180	1	3.35	0.007	1.22	<0.1	0.02	4.3	0.8	<0.05	10	<0.5	0.3
122338	Soil	40	20	1.16	109	0.184	<1	3.10	0.008	0.61	0.2	0.03	2.5	0.5	<0.05	9	<0.5	<0.2
122339	Soil	7	25	0.75	135	0.096	<1	2.41	0.007	0.20	0.1	0.03	2.1	0.2	<0.05	7	<0.5	<0.2
122340	Soil	7	24	0.72	128	0.101	<1	2.20	0.007	0.21	0.1	0.03	2.1	0.1	<0.05	8	<0.5	<0.2
122341	Soil	9	30	0.62	163	0.087	<1	2.29	0.008	0.09	0.2	0.03	2.3	0.1	<0.05	7	0.7	0.2

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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
122342	Soil	1.0	33.2	6.2	80	<0.1	17.4	16.0	662	3.82	5.2	0.4	<0.5	5.2	19	<0.1	0.2	<0.1	89	0.23	0.025
122343	Soil	0.9	22.3	6.9	68	<0.1	18.8	13.9	508	3.16	6.8	0.6	1.0	5.7	15	<0.1	0.4	<0.1	70	0.18	0.024
122344	Soil	0.9	10.9	5.0	80	<0.1	6.7	14.3	731	3.53	2.9	0.4	1.9	3.9	15	<0.1	<0.1	<0.1	88	0.23	0.043
122345	Soil	1.4	18.2	14.2	83	<0.1	17.4	14.6	676	4.33	8.0	0.6	3.4	6.2	17	<0.1	0.4	0.1	94	0.23	0.031
122346	Soil	1.0	12.0	9.0	51	<0.1	11.6	7.8	296	2.97	7.1	0.6	<0.5	3.9	16	<0.1	0.4	0.2	72	0.16	0.021
122347	Soil	1.1	13.6	10.6	56	0.1	7.8	6.9	353	2.81	5.2	0.5	1.7	3.5	13	<0.1	0.3	0.2	71	0.13	0.038
122348	Soil	2.4	28.7	7.6	80	<0.1	12.0	19.6	917	5.10	6.1	0.7	<0.5	7.6	18	<0.1	0.2	<0.1	126	0.26	0.035
122349	Soil	2.1	33.8	7.0	63	<0.1	9.7	10.4	544	3.55	4.6	0.6	1.4	5.4	26	<0.1	0.1	<0.1	86	0.32	0.021
122350	Soil	2.0	60.2	8.1	63	<0.1	14.2	10.8	460	3.56	7.6	0.6	3.6	4.4	16	<0.1	0.3	0.1	81	0.19	0.023
122351	Soil	2.2	67.1	8.8	60	<0.1	17.2	10.5	379	3.30	9.3	0.8	1.0	5.6	16	<0.1	0.3	0.1	69	0.18	0.036
122352	Soil	3.5	97.6	8.8	70	<0.1	13.9	11.3	491	3.49	5.7	0.7	1.4	5.5	14	<0.1	0.2	0.2	87	0.16	0.023
122353	Soil	3.1	155.9	6.6	76	<0.1	12.5	13.9	708	4.12	4.5	0.7	4.8	5.0	19	<0.1	0.1	<0.1	109	0.25	0.041
122354	Soil	2.0	66.6	5.5	61	<0.1	4.1	10.6	553	2.97	0.8	0.4	<0.5	4.1	13	<0.1	<0.1	0.2	74	0.13	0.030
122355	Soil	1.9	39.6	8.6	50	0.1	12.6	7.7	287	2.70	5.3	0.5	2.2	4.1	20	<0.1	0.3	0.2	65	0.18	0.016
122356	Soil	0.7	33.3	6.3	84	<0.1	12.2	14.5	671	3.62	4.6	0.4	<0.5	5.2	16	<0.1	0.2	<0.1	81	0.17	0.019
122357	Soil	1.0	58.9	18.3	271	<0.1	9.8	21.6	1233	5.02	3.8	0.5	<0.5	5.7	30	0.4	0.1	0.3	126	0.50	0.074
122358	Soil	1.6	21.7	7.7	74	<0.1	11.6	11.6	626	3.81	7.6	0.5	0.5	4.1	15	0.1	0.3	0.2	108	0.17	0.078
122359	Soil	1.4	39.4	7.6	85	0.2	13.3	12.2	550	3.47	4.7	0.6	3.4	3.8	24	<0.1	0.2	0.2	87	0.31	0.029
122360	Soil	1.6	74.0	6.4	90	0.1	12.8	13.3	659	3.52	4.2	0.6	0.9	4.4	27	<0.1	0.2	0.2	82	0.36	0.038
122361	Soil	1.3	40.1	7.8	63	<0.1	16.6	10.7	434	2.94	6.1	1.0	4.4	5.8	21	<0.1	0.2	0.2	61	0.24	0.029
122362	Soil	2.0	54.1	6.9	85	<0.1	11.8	19.6	1111	4.04	5.3	0.7	1.0	5.9	22	<0.1	0.2	0.3	88	0.30	0.065
122363	Soil	2.2	28.2	7.1	60	<0.1	9.0	9.1	409	3.16	4.3	0.5	2.9	3.2	27	<0.1	0.2	0.4	68	0.30	0.024
122364	Soil	1.7	42.2	6.5	61	<0.1	9.4	10.6	516	3.20	3.8	0.9	<0.5	6.1	22	<0.1	0.2	0.3	60	0.25	0.023
122365	Soil	0.9	32.5	6.6	52	<0.1	15.4	8.8	392	2.62	5.6	1.2	7.9	6.6	24	<0.1	0.3	0.1	56	0.32	0.031
122366	Soil	1.2	26.6	5.8	65	<0.1	10.0	10.9	530	3.34	4.0	0.7	27.9	5.4	18	<0.1	0.2	0.2	73	0.23	0.044
122367	Soil	2.1	218.8	5.9	57	<0.1	8.2	9.0	436	3.15	5.2	1.4	4.4	9.2	25	0.1	0.3	0.3	64	0.30	0.035
122368	Soil	0.7	53.0	8.0	61	<0.1	12.0	7.6	263	2.68	5.4	1.4	1.5	5.5	21	0.1	0.3	0.1	58	0.31	0.054
122369	Soil	1.0	43.2	7.7	58	0.1	14.2	7.2	237	2.37	5.1	1.4	10.5	4.6	29	0.2	0.4	0.1	50	0.40	0.056
113340	Soil	1.1	25.5	15.6	65	0.1	34.1	12.2	274	3.31	8.9	0.6	1.7	4.5	16	0.2	0.6	0.2	59	0.23	0.020
113341	Soil	1.9	364.1	283.4	2054	1.0	53.9	41.4	5051	10.29	13.9	1.8	3.4	8.2	24	4.9	0.6	2.5	49	0.66	0.061

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 7 of 12 Part 2

# CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
122342	Soil	14	23	1.25	203	0.200	<1	2.99	0.015	0.55	0.1	0.04	2.3	0.3	<0.05	7	<0.5	<0.2
122343	Soil	11	24	0.89	178	0.135	<1	2.19	0.011	0.33	0.2	0.03	2.5	0.2	<0.05	6	0.8	0.3
122344	Soil	7	13	1.23	151	0.213	<1	2.55	0.012	0.73	<0.1	0.02	1.7	0.2	<0.05	10	<0.5	<0.2
122345	Soil	14	27	1.12	204	0.182	<1	2.79	0.014	0.50	0.1	0.02	2.6	0.2	<0.05	8	<0.5	<0.2
122346	Soil	11	24	0.57	134	0.104	<1	1.82	0.010	0.13	0.2	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
122347	Soil	10	21	0.43	127	0.084	1	1.60	0.008	0.09	0.2	0.04	2.5	<0.1	<0.05	8	1.1	<0.2
122348	Soil	22	22	1.78	298	0.223	<1	3.86	0.014	0.78	0.2	0.02	5.7	0.3	<0.05	12	<0.5	<0.2
122349	Soil	12	21	1.01	186	0.138	<1	2.46	0.021	0.37	0.1	0.03	4.4	0.2	<0.05	7	<0.5	<0.2
122350	Soil	9	25	0.80	165	0.123	<1	2.34	0.012	0.29	0.2	0.03	3.3	0.1	<0.05	7	0.7	0.2
122351	Soil	13	27	0.61	137	0.090	<1	2.10	0.011	0.13	0.2	0.03	3.0	<0.1	<0.05	6	1.1	<0.2
122352	Soil	10	23	0.86	155	0.140	<1	2.40	0.011	0.32	0.2	0.03	3.5	0.2	<0.05	7	<0.5	<0.2
122353	Soil	12	22	1.20	183	0.192	1	2.92	0.011	0.73	0.1	0.01	4.3	0.3	<0.05	9	<0.5	<0.2
122354	Soil	6	10	1.06	91	0.202	<1	2.08	0.010	0.61	0.1	0.01	2.1	0.3	<0.05	10	<0.5	<0.2
122355	Soil	12	21	0.57	133	0.079	<1	1.77	0.013	0.12	<0.1	0.03	2.2	0.1	<0.05	6	<0.5	0.2
122356	Soil	8	23	1.14	140	0.110	<1	2.67	0.008	0.37	<0.1	<0.01	2.9	0.2	<0.05	7	<0.5	<0.2
122357	Soil	8	17	1.71	233	0.251	<1	3.56	0.015	0.63	0.2	0.02	3.9	0.2	<0.05	13	<0.5	0.2
122358	Soil	8	23	0.92	120	0.153	<1	2.34	0.011	0.31	0.2	0.03	2.9	0.1	<0.05	9	<0.5	<0.2
122359	Soil	10	22	0.96	133	0.160	2	2.35	0.012	0.27	0.2	0.02	2.9	0.1	<0.05	7	<0.5	<0.2
122360	Soil	11	20	0.96	150	0.151	1	2.42	0.014	0.37	0.2	0.01	3.0	0.1	<0.05	8	<0.5	<0.2
122361	Soil	14	28	0.68	170	0.079	1	1.86	0.011	0.09	0.2	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
122362	Soil	9	22	0.97	149	0.121	1	2.77	0.012	0.33	0.2	0.03	3.3	0.1	<0.05	8	<0.5	0.2
122363	Soil	9	17	0.85	95	0.051	<1	2.03	0.007	0.18	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
122364	Soil	12	21	0.86	98	0.050	<1	2.00	0.008	0.12	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
122365	Soil	25	26	0.69	158	0.064	<1	1.77	0.010	0.17	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
122366	Soil	12	19	0.89	115	0.116	<1	2.00	0.008	0.33	0.1	0.02	2.8	0.2	<0.05	7	<0.5	0.2
122367	Soil	16	16	0.70	132	0.109	<1	1.98	0.015	0.40	0.1	0.03	2.5	0.2	<0.05	7	0.8	<0.2
122368	Soil	20	22	0.64	147	0.104	<1	1.76	0.012	0.21	0.1	0.04	3.2	0.1	<0.05	6	<0.5	<0.2
122369	Soil	17	22	0.55	205	0.092	<1	1.50	0.013	0.12	0.3	0.05	3.1	0.1	<0.05	5	<0.5	<0.2
113340	Soil	9	38	0.54	220	0.066	1	2.39	0.007	0.05	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
113341	Soil	24	42	0.36	141	0.077	1	1.65	0.006	0.07	0.1	0.16	11.4	0.1	<0.05	7	2.4	0.4

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	
113342	Soil		1.1	46.7	27.3	143	<0.1	23.3	11.1	635	3.15	4.9	1.3	1.6	4.5	18	<0.1	0.3	0.3	78	0.28	0.079
113343	Soil		1.0	66.4	11.8	53	<0.1	24.5	16.4	289	4.00	11.0	1.3	0.8	6.4	49	<0.1	0.3	0.3	101	0.32	0.042
113344	Soil		0.8	33.8	4.5	77	<0.1	16.1	17.9	620	4.12	4.1	0.5	1.3	5.7	14	<0.1	0.3	<0.1	106	0.19	0.024
113345	Soil		0.6	15.4	10.4	75	<0.1	11.9	12.9	615	3.90	4.8	0.8	<0.5	15.3	13	<0.1	0.2	<0.1	62	0.13	0.014
113346	Soil		2.2	103.2	12.4	132	<0.1	29.5	20.0	694	4.81	3.5	1.2	0.5	3.3	112	0.1	0.2	0.4	103	0.41	0.055
113347	Soil		1.1	42.2	5.3	73	<0.1	47.8	17.1	425	3.54	2.2	1.4	1.7	15.4	14	<0.1	0.2	0.2	50	0.40	0.050
113348	Soil		2.2	48.9	6.6	98	<0.1	34.0	10.6	284	3.03	2.5	2.1	1.6	11.3	18	<0.1	0.1	0.3	38	0.20	0.030
113349	Soil		1.1	29.7	5.8	133	<0.1	36.6	9.1	273	3.53	0.8	2.3	2.0	13.6	14	<0.1	<0.1	0.6	56	0.21	0.053
113350	Soil		0.5	18.5	6.0	123	<0.1	28.0	21.3	421	3.35	1.2	0.7	1.9	3.5	25	0.2	0.1	0.2	81	0.62	0.104
113351	Soil		0.8	20.9	6.2	95	<0.1	24.0	10.7	395	3.69	2.7	1.0	2.0	2.2	33	0.6	0.3	0.2	88	0.65	0.146
113352	Soil		0.9	24.6	12.9	82	<0.1	14.1	10.8	343	4.15	3.7	1.1	<0.5	2.9	27	0.2	0.3	0.1	83	0.38	0.062
113353	Soil		2.1	32.5	12.9	173	<0.1	12.3	15.0	1057	7.42	3.7	1.8	<0.5	4.4	18	0.1	0.2	<0.1	187	0.10	0.044
113354	Soil		0.6	38.6	4.9	143	<0.1	8.0	25.6	686	3.74	1.5	0.2	<0.5	0.5	17	0.3	<0.1	<0.1	128	0.63	0.189
113355	Soil		0.9	19.5	7.6	48	<0.1	22.3	14.5	261	2.77	8.2	0.8	1.3	4.1	15	<0.1	0.6	0.1	68	0.17	0.022
105706	Soil		1.0	16.7	9.4	60	<0.1	18.9	7.5	210	2.48	7.9	0.6	2.0	2.5	23	<0.1	0.4	0.2	69	0.18	0.029
105707	Soil		0.8	18.5	8.0	55	<0.1	16.9	7.8	230	2.02	5.7	1.0	2.3	3.0	26	0.2	0.4	0.1	48	0.26	0.044
105708	Soil		0.5	16.1	8.2	60	<0.1	15.7	8.7	233	2.20	5.7	1.0	3.4	3.8	23	<0.1	0.4	0.1	55	0.22	0.030
105709	Soil		0.5	19.3	6.8	42	<0.1	11.3	5.3	125	1.78	4.0	0.6	3.6	2.5	32	0.1	0.3	0.1	47	0.16	0.023
105710	Soil		0.9	48.4	7.8	49	0.1	15.0	5.9	115	2.03	4.8	1.2	1.3	1.1	37	0.2	0.4	0.2	46	0.22	0.038
105711	Soil		0.7	44.4	6.6	43	<0.1	12.2	5.9	137	1.99	4.2	0.9	5.7	3.8	28	<0.1	0.3	0.2	50	0.21	0.033
105712	Soil		0.7	40.3	7.6	51	<0.1	14.7	7.6	212	2.08	5.3	1.2	2.7	4.2	29	0.1	0.4	0.2	52	0.23	0.031
105713	Soil		1.5	77.1	11.0	64	0.3	19.9	12.6	382	2.90	7.4	1.7	3.5	2.5	47	0.2	0.3	0.3	68	0.36	0.057
105714	Soil		0.9	56.2	8.0	54	<0.1	13.8	6.2	135	2.19	5.4	1.1	3.8	3.8	26	<0.1	0.3	0.2	58	0.23	0.037
105715	Soil		1.0	41.6	8.2	63	<0.1	16.7	7.6	183	2.45	6.3	0.7	15.5	3.0	24	0.2	0.3	0.2	60	0.20	0.036
105716	Soil		1.5	100.3	9.1	77	0.3	18.1	8.3	192	2.56	5.1	0.9	3.3	2.6	30	0.1	0.3	0.2	66	0.23	0.034
105717	Soil		1.1	40.8	9.8	78	<0.1	20.0	7.6	179	2.51	6.2	0.9	1.8	3.6	28	0.2	0.3	0.2	61	0.22	0.039
105718	Soil		1.1	37.9	6.9	61	<0.1	13.4	5.8	155	1.85	4.1	0.8	2.1	3.0	25	0.1	0.3	0.2	47	0.24	0.051
105719	Soil		1.0	42.2	13.2	89	<0.1	23.1	10.0	282	2.54	5.1	1.2	3.2	5.6	28	0.1	0.3	0.2	56	0.28	0.044
105720	Soil		0.9	42.6	20.3	105	<0.1	24.2	10.8	326	2.84	4.3	1.5	2.9	7.9	28	0.1	0.3	0.3	60	0.27	0.042
105721	Soil		0.7	36.2	9.5	110	<0.1	22.6	12.6	437	2.89	3.5	1.8	3.3	11.4	26	0.2	0.2	0.2	53	0.25	0.054

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
113342	Soil	7	36	1.02	356	0.152	<1	2.12	0.005	0.59	0.1	<0.01	3.3	0.4	<0.05	7	<0.5	<0.2
113343	Soil	7	25	0.79	192	0.091	1	2.70	0.024	0.12	<0.1	0.02	5.5	0.1	<0.05	7	0.7	<0.2
113344	Soil	20	31	1.49	120	0.230	<1	2.60	0.010	0.62	<0.1	0.02	2.9	0.4	<0.05	7	<0.5	<0.2
113345	Soil	6	17	0.90	143	0.189	<1	2.86	0.007	0.96	<0.1	<0.01	2.0	0.5	<0.05	8	<0.5	<0.2
113346	Soil	10	34	1.20	316	0.181	<1	3.00	0.019	0.57	0.1	<0.01	4.4	0.4	<0.05	9	<0.5	<0.2
113347	Soil	55	34	0.81	157	0.083	<1	2.01	0.007	0.41	<0.1	0.02	4.8	0.3	<0.05	6	<0.5	<0.2
113348	Soil	33	26	0.80	230	0.085	<1	1.66	0.008	0.42	<0.1	<0.01	3.1	0.3	<0.05	6	<0.5	<0.2
113349	Soil	35	35	0.99	228	0.124	<1	2.02	0.008	0.80	<0.1	<0.01	3.4	0.5	<0.05	7	<0.5	<0.2
113350	Soil	15	90	1.64	651	0.172	<1	2.39	0.029	0.46	<0.1	<0.01	5.7	0.2	<0.05	8	<0.5	<0.2
113351	Soil	11	16	0.72	245	0.061	1	1.54	0.060	0.04	<0.1	0.01	7.0	<0.1	0.06	5	<0.5	<0.2
113352	Soil	25	15	0.77	361	0.135	<1	1.85	0.034	0.17	<0.1	0.02	6.7	<0.1	0.05	6	<0.5	<0.2
113353	Soil	25	14	1.59	628	0.475	<1	3.95	0.010	1.29	<0.1	0.01	5.4	0.6	0.08	15	<0.5	<0.2
113354	Soil	2	11	1.08	349	0.171	<1	2.05	0.044	0.50	0.1	<0.01	5.5	0.1	0.05	6	<0.5	<0.2
113355	Soil	11	43	0.68	274	0.096	1	2.02	0.011	0.08	0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
105706	Soil	9	31	0.50	202	0.075	<1	2.00	0.011	0.05	0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
105707	Soil	12	27	0.47	227	0.074	1	1.44	0.013	0.04	0.1	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
105708	Soil	12	27	0.51	194	0.083	2	1.68	0.014	0.04	0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
105709	Soil	10	22	0.35	142	0.078	<1	1.54	0.011	0.05	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
105710	Soil	11	25	0.38	225	0.063	<1	1.77	0.012	0.05	<0.1	0.06	2.3	<0.1	<0.05	6	<0.5	<0.2
105711	Soil	13	25	0.45	169	0.080	<1	1.41	0.013	0.06	0.1	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
105712	Soil	13	26	0.48	219	0.082	<1	1.49	0.015	0.05	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
105713	Soil	15	30	0.47	383	0.073	2	2.61	0.016	0.09	0.1	0.06	3.8	0.1	<0.05	7	0.5	<0.2
105714	Soil	14	28	0.52	195	0.085	1	1.64	0.013	0.06	0.2	0.04	2.9	0.1	<0.05	5	0.7	<0.2
105715	Soil	12	27	0.57	162	0.094	<1	1.74	0.011	0.07	0.1	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
105716	Soil	12	32	0.69	249	0.115	<1	1.90	0.014	0.09	<0.1	0.04	3.3	0.1	<0.05	6	<0.5	<0.2
105717	Soil	12	31	0.64	181	0.108	1	1.85	0.012	0.08	<0.1	0.03	2.7	0.1	<0.05	5	<0.5	<0.2
105718	Soil	12	18	0.44	173	0.080	1	1.17	0.011	0.08	0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
105719	Soil	15	33	0.71	239	0.117	<1	1.60	0.013	0.19	<0.1	0.02	3.2	0.1	<0.05	5	<0.5	<0.2
105720	Soil	24	37	0.83	296	0.168	<1	1.96	0.016	0.37	0.1	0.02	3.8	0.2	<0.05	6	<0.5	<0.2
105721	Soil	32	33	0.79	277	0.193	<1	1.94	0.013	0.60	<0.1	<0.01	3.7	0.3	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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
105722	Soil	1.0	36.2	9.2	80	<0.1	17.3	8.6	263	2.39	5.0	1.1	2.7	5.0	26	0.2	0.3	0.2	54	0.24	0.050
105723	Soil	1.0	29.0	10.9	91	0.1	17.3	8.2	257	2.47	5.0	1.0	4.1	4.3	26	0.3	0.3	0.2	55	0.23	0.040
105724	Soil	0.9	33.7	12.1	94	0.1	18.5	9.4	265	2.66	5.5	1.3	0.6	5.3	26	0.2	0.3	0.2	55	0.23	0.048
105725	Soil	0.7	19.2	9.3	62	<0.1	12.2	5.8	184	1.87	4.1	0.9	2.6	4.1	23	0.1	0.2	0.1	40	0.24	0.046
105726	Soil	1.0	23.7	13.9	86	<0.1	15.6	8.3	309	2.58	6.2	1.0	1.3	5.5	23	0.2	0.4	0.3	56	0.22	0.046
105727	Soil	0.8	22.6	12.9	78	<0.1	15.5	6.6	208	2.23	5.3	1.1	1.7	4.8	24	0.1	0.3	0.2	48	0.24	0.038
105728	Soil	0.8	21.9	10.3	71	<0.1	16.1	7.6	240	2.33	5.3	1.1	7.0	5.2	21	0.2	0.2	0.1	48	0.23	0.050
105729	Soil	0.8	30.1	10.0	69	<0.1	22.4	10.7	285	2.56	4.1	1.7	2.0	7.7	23	0.2	0.2	0.2	49	0.29	0.062
105730	Soil	0.8	24.0	8.6	60	<0.1	20.5	10.3	299	2.51	5.1	1.1	4.5	5.8	22	<0.1	0.3	0.2	50	0.26	0.059
105731	Soil	1.1	25.5	10.4	67	0.1	22.3	11.2	318	2.68	5.2	1.1	3.5	4.8	24	0.2	0.3	0.2	54	0.26	0.055
105732	Soil	1.0	30.9	8.8	63	<0.1	23.5	12.7	312	2.77	5.3	1.3	3.4	5.3	22	0.1	0.3	0.2	57	0.27	0.049
111608	Soil	0.8	22.1	9.5	56	<0.1	19.5	7.0	243	2.06	6.3	1.0	2.6	3.7	34	0.1	0.5	0.2	50	0.28	0.037
111609	Soil	0.7	15.6	7.5	49	0.1	15.0	5.3	125	1.86	5.3	0.8	3.0	1.7	26	0.1	0.4	0.2	46	0.23	0.044
111610	Soil	0.6	21.3	8.5	65	<0.1	18.3	9.2	244	2.37	6.4	1.1	2.6	3.4	25	0.1	0.4	0.1	55	0.24	0.043
111611	Soil	0.7	12.4	7.9	60	<0.1	14.6	6.9	174	2.14	5.4	0.6	5.8	2.3	22	<0.1	0.4	0.2	53	0.19	0.035
111612	Soil	1.4	16.7	9.9	86	0.2	18.3	8.1	223	2.62	7.1	0.5	<0.5	2.1	34	0.2	0.4	0.2	72	0.21	0.034
111613	Soil	0.8	45.8	10.2	58	0.2	18.9	6.5	121	2.28	5.1	1.3	3.9	1.4	33	0.3	0.4	0.2	52	0.26	0.046
111614	Soil	1.2	31.7	9.0	52	0.1	16.0	6.6	179	2.41	6.5	0.6	2.3	3.0	22	0.1	0.4	0.2	69	0.19	0.027
111615	Soil	0.7	18.8	7.9	61	0.1	14.5	6.0	150	2.13	5.5	0.8	1.5	2.0	27	0.1	0.3	0.1	57	0.22	0.039
111616	Soil	1.3	22.3	9.7	79	0.1	18.0	8.6	256	3.07	7.1	1.0	1.1	3.0	33	0.2	0.4	0.2	93	0.20	0.037
111617	Soil	0.6	38.4	5.2	185	<0.1	28.9	20.4	596	4.64	1.7	1.6	1.3	11.2	41	0.3	0.1	<0.1	131	0.52	0.106
111618	Soil	0.7	33.2	8.0	44	0.2	11.9	4.4	116	1.94	2.7	1.6	1.0	0.3	23	0.3	0.2	0.2	42	0.15	0.047
111619	Soil	0.7	18.6	10.5	105	<0.1	16.1	8.7	300	2.96	4.7	0.7	2.8	4.4	24	0.2	0.2	0.2	78	0.18	0.035
111620	Soil	0.9	32.7	57.2	199	0.2	21.8	14.2	495	3.38	3.7	1.5	1.4	5.4	52	0.5	0.2	0.2	88	0.35	0.045
111621	Soil	0.7	21.2	27.8	112	<0.1	14.9	8.0	274	2.81	2.9	0.9	1.4	5.1	53	0.2	0.2	0.2	76	0.25	0.035
111622	Soil	0.9	21.2	16.9	83	<0.1	16.8	8.5	225	2.57	5.4	1.2	6.3	5.0	29	0.1	0.4	0.2	61	0.24	0.034
111623	Soil	0.7	12.6	9.3	60	<0.1	14.6	6.8	198	2.34	5.5	0.6	0.9	3.3	20	0.1	0.4	0.2	60	0.17	0.024
111624	Soil	0.7	18.6	11.3	69	0.2	16.0	7.7	228	2.41	5.9	1.1	2.1	3.1	30	0.2	0.4	0.2	57	0.26	0.046
111625	Soil	1.0	30.9	9.4	68	0.1	28.0	11.9	472	2.58	9.4	0.7	3.1	4.1	64	0.3	0.8	0.2	59	1.68	0.073
111626	Soil	0.9	35.9	8.8	70	0.1	30.3	11.1	459	2.52	9.1	0.6	5.6	4.0	53	0.3	0.8	0.2	57	1.25	0.070

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Page: 9 of 12 Part 2

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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	
105722	Soil	17	26	0.65	203	0.124	1	1.53	0.012	0.21	0.1	0.02	2.6	0.1	<0.05	5	<0.5	<0.2
105723	Soil	15	28	0.71	183	0.130	1	1.69	0.014	0.19	0.1	0.03	2.8	0.1	<0.05	6	<0.5	<0.2
105724	Soil	17	30	0.69	206	0.125	<1	1.78	0.013	0.17	0.1	0.04	3.0	0.1	<0.05	5	<0.5	<0.2
105725	Soil	14	18	0.45	143	0.091	<1	1.13	0.011	0.11	0.2	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
105726	Soil	16	25	0.60	192	0.116	<1	1.81	0.012	0.15	0.1	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
105727	Soil	16	23	0.54	179	0.098	1	1.56	0.012	0.10	<0.1	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
105728	Soil	17	23	0.59	176	0.103	2	1.46	0.012	0.12	0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
105729	Soil	25	31	0.71	193	0.107	1	1.71	0.014	0.21	0.2	0.03	3.6	0.2	<0.05	5	<0.5	<0.2
105730	Soil	18	27	0.64	172	0.099	2	1.59	0.012	0.16	0.2	0.02	2.7	0.1	<0.05	5	<0.5	<0.2
105731	Soil	18	29	0.64	185	0.090	<1	1.66	0.011	0.14	0.2	0.02	2.9	0.1	<0.05	5	<0.5	<0.2
105732	Soil	19	32	0.70	215	0.108	1	1.83	0.012	0.12	0.1	0.02	3.5	0.2	<0.05	5	<0.5	<0.2
111608	Soil	13	30	0.46	235	0.084	<1	1.58	0.015	0.05	0.1	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
111609	Soil	10	24	0.39	177	0.068	1	1.53	0.012	0.05	0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
111610	Soil	13	29	0.50	223	0.079	2	1.71	0.012	0.05	0.2	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
111611	Soil	9	26	0.46	144	0.067	<1	1.63	0.010	0.04	0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
111612	Soil	9	30	0.53	240	0.098	1	2.21	0.012	0.06	0.1	0.03	2.6	0.1	<0.05	8	<0.5	<0.2
111613	Soil	13	31	0.46	327	0.059	<1	2.19	0.013	0.05	0.1	0.05	3.2	0.1	<0.05	6	<0.5	<0.2
111614	Soil	10	29	0.48	202	0.086	<1	1.66	0.012	0.06	0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
111615	Soil	10	27	0.50	321	0.088	1	1.73	0.013	0.05	0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
111616	Soil	13	37	0.73	752	0.149	1	2.33	0.012	0.14	<0.1	0.03	3.8	0.1	<0.05	8	<0.5	<0.2
111617	Soil	42	30	1.55	944	0.290	<1	2.79	0.030	1.31	<0.1	<0.01	5.2	0.5	<0.05	9	<0.5	<0.2
111618	Soil	12	23	0.35	287	0.046	<1	1.22	0.012	0.07	<0.1	0.05	1.1	<0.1	<0.05	5	<0.5	<0.2
111619	Soil	14	27	0.76	357	0.163	<1	1.94	0.011	0.23	<0.1	0.02	2.6	0.2	<0.05	7	<0.5	<0.2
111620	Soil	24	33	0.95	695	0.191	<1	2.31	0.016	0.49	<0.1	0.02	3.4	0.2	<0.05	8	<0.5	<0.2
111621	Soil	19	29	0.73	318	0.189	<1	2.18	0.015	0.23	<0.1	0.02	3.1	0.2	<0.05	8	<0.5	<0.2
111622	Soil	16	30	0.60	325	0.120	<1	1.87	0.013	0.07	0.1	0.04	3.1	<0.1	<0.05	6	<0.5	<0.2
111623	Soil	11	27	0.51	169	0.106	<1	1.61	0.010	0.06	0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
111624	Soil	13	27	0.54	298	0.094	1	1.93	0.012	0.07	0.1	0.05	2.8	<0.1	<0.05	6	<0.5	<0.2
111625	Soil	13	30	0.86	357	0.083	2	1.35	0.034	0.07	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
111626	Soil	13	30	0.78	360	0.083	2	1.33	0.033	0.07	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
111627	Soil	1.0	30.4	8.4	65	0.1	27.2	11.0	443	2.36	8.5	0.7	5.4	3.6	44	0.2	0.6	0.1	52	0.74	0.068
111628	Soil	0.9	24.7	8.6	59	0.1	22.0	10.1	410	2.53	9.6	1.0	2.9	3.3	39	0.2	0.6	0.2	56	0.62	0.064
111629	Soil	0.9	33.7	11.1	74	0.1	30.0	11.4	422	2.57	9.8	0.6	12.4	3.9	39	0.4	0.8	0.2	59	0.68	0.074
111630	Soil	0.8	33.6	8.8	64	0.1	28.7	10.5	431	2.51	9.3	0.7	4.9	3.6	65	0.2	0.8	0.2	58	1.54	0.077
111631	Soil	0.7	28.4	8.6	63	0.1	26.1	11.5	346	2.65	8.6	0.7	17.4	4.0	41	0.2	0.7	0.2	62	0.64	0.069
111632	Soil	0.8	21.4	7.8	57	<0.1	21.0	9.9	343	2.35	7.5	0.8	5.4	4.0	34	0.1	0.6	0.2	56	0.54	0.066
111633	Soil	0.9	17.0	8.2	62	<0.1	19.4	9.2	221	2.35	7.4	0.8	2.6	3.5	30	0.2	0.4	0.2	58	0.42	0.065
111634	Soil	0.7	16.2	9.4	60	<0.1	18.5	8.7	409	2.21	7.7	0.8	1.8	3.0	36	0.2	0.5	0.1	55	0.52	0.068
111635	Soil	0.9	19.6	7.5	59	0.1	20.9	10.8	442	2.37	7.6	0.9	15.3	3.3	36	0.1	0.5	0.1	59	0.54	0.062
117835	Soil	0.7	24.8	8.6	181	<0.1	28.9	16.3	540	3.47	3.4	1.9	<0.5	15.6	27	0.4	0.2	0.2	47	0.21	0.058
117836	Soil	0.3	28.3	6.1	134	<0.1	34.8	22.9	782	3.75	0.9	1.9	<0.5	12.5	133	<0.1	<0.1	0.1	138	0.61	0.095
117837	Soil	2.6	50.8	5.7	143	<0.1	21.6	20.8	774	4.68	1.8	1.3	3.7	2.9	42	0.1	0.1	0.2	182	0.44	0.101
117838	Soil	1.8	45.2	11.9	153	<0.1	28.0	14.4	900	4.78	1.6	1.2	1.4	7.2	60	0.2	<0.1	0.1	123	0.22	0.067
117839	Soil	2.2	36.5	62.3	114	<0.1	17.9	10.9	449	3.32	4.7	1.2	3.5	5.9	31	<0.1	0.3	0.3	80	0.23	0.044
117840	Soil	2.1	28.3	29.7	92	0.2	16.6	9.4	344	3.30	8.8	1.2	5.9	6.4	31	0.2	0.4	0.3	73	0.20	0.052
117841	Soil	1.5	24.0	15.7	78	<0.1	18.6	10.2	304	3.07	8.0	1.3	3.3	7.0	26	0.2	0.3	0.3	64	0.22	0.042
117842	Soil	1.7	18.0	13.3	87	<0.1	15.0	8.8	341	3.17	7.7	1.0	5.9	5.2	29	0.1	0.4	0.3	68	0.20	0.036
117843	Soil	1.4	20.3	11.8	76	<0.1	16.3	9.0	332	3.13	7.5	1.1	1.9	5.9	28	0.2	0.4	0.3	67	0.17	0.026
117844	Soil	1.2	21.5	10.6	143	<0.1	7.3	8.3	491	3.61	3.3	3.7	1.2	20.5	66	0.4	0.2	0.3	52	0.22	0.053
117845	Soil	2.3	23.8	10.6	143	0.1	6.7	7.7	495	4.12	6.9	3.8	1.4	22.1	80	0.4	0.5	0.4	55	0.30	0.057
117846	Soil	2.2	28.7	10.2	125	<0.1	11.7	17.2	806	3.94	5.7	1.7	1.3	13.8	31	0.1	0.3	0.2	62	0.22	0.053
117847	Soil	1.9	15.5	8.5	73	<0.1	10.7	11.3	513	4.43	7.8	1.7	1.3	12.5	37	0.2	0.3	0.2	87	0.18	0.046
117848	Soil	2.0	24.5	9.6	54	<0.1	15.7	9.2	301	3.07	9.0	2.5	3.4	14.9	42	<0.1	0.4	0.2	58	0.24	0.026
117849	Soil	1.5	22.3	10.8	59	<0.1	19.1	8.8	254	3.33	11.1	1.2	3.2	6.4	25	<0.1	0.6	0.2	73	0.17	0.023
117850	Soil	3.2	25.3	7.4	76	<0.1	5.2	4.8	353	3.33	3.5	2.1	1.1	21.5	106	<0.1	0.2	0.2	62	0.10	0.045
117851	Soil	1.4	21.8	9.0	67	<0.1	13.3	6.7	248	2.60	5.5	0.8	1.6	5.2	42	<0.1	0.4	0.1	58	0.19	0.020
117852	Soil	1.3	20.3	9.5	54	<0.1	16.6	7.9	288	2.60	7.3	1.1	1.1	5.8	38	<0.1	0.5	0.2	58	0.24	0.022
117853	Soil	0.3	21.0	8.6	114	<0.1	8.3	7.5	665	3.21	2.0	2.3	1.8	19.7	92	0.1	0.1	<0.1	58	0.73	0.057
117854	Soil	0.2	3.4	2.8	220	<0.1	3.0	4.8	196	1.81	1.5	0.1	<0.5	0.4	13	<0.1	0.1	<0.1	42	0.13	0.029
117855	Soil	0.7	24.4	8.9	215	<0.1	3.9	11.9	1348	4.14	0.9	1.6	1.2	12.8	37	0.2	<0.1	<0.1	80	0.29	0.052

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 10 of 12 Part 2

# CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
111627	Soil	13	27	0.58	325	0.072	2	1.26	0.028	0.06	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
111628	Soil	13	28	0.55	311	0.065	1	1.41	0.022	0.05	0.2	0.03	3.2	<0.1	<0.05	4	0.6	<0.2
111629	Soil	13	30	0.70	339	0.081	2	1.31	0.034	0.07	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
111630	Soil	12	29	0.76	318	0.082	3	1.21	0.037	0.08	0.2	0.05	3.3	<0.1	<0.05	4	0.7	<0.2
111631	Soil	14	31	0.64	281	0.086	2	1.41	0.030	0.06	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
111632	Soil	13	29	0.59	204	0.083	2	1.24	0.029	0.06	0.3	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
111633	Soil	13	28	0.51	231	0.072	<1	1.33	0.020	0.06	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
111634	Soil	12	28	0.54	261	0.073	1	1.28	0.025	0.06	0.3	0.06	2.6	<0.1	<0.05	4	<0.5	<0.2
111635	Soil	13	28	0.53	291	0.071	1	1.26	0.022	0.05	0.3	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
117835	Soil	32	35	1.04	372	0.197	<1	2.49	0.013	0.68	<0.1	<0.01	2.3	0.5	<0.05	6	<0.5	<0.2
117836	Soil	52	52	2.37	610	0.248	<1	3.45	0.026	1.62	<0.1	<0.01	5.1	0.6	<0.05	11	<0.5	<0.2
117837	Soil	7	27	1.19	629	0.248	<1	2.48	0.046	0.82	<0.1	0.01	4.9	0.3	0.06	8	<0.5	<0.2
117838	Soil	21	42	1.61	786	0.338	<1	3.09	0.014	1.46	<0.1	<0.01	3.4	0.5	0.08	9	<0.5	<0.2
117839	Soil	14	29	0.87	616	0.178	1	2.05	0.014	0.31	<0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
117840	Soil	15	28	0.59	498	0.135	1	2.06	0.012	0.16	0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
117841	Soil	16	28	0.60	327	0.112	<1	2.10	0.011	0.14	0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
117842	Soil	14	25	0.60	308	0.125	1	1.90	0.012	0.18	0.1	0.02	2.5	0.2	<0.05	7	<0.5	<0.2
117843	Soil	14	27	0.58	315	0.111	<1	2.19	0.013	0.12	0.1	0.02	2.9	0.2	<0.05	7	0.6	<0.2
117844	Soil	24	12	0.82	296	0.176	<1	2.52	0.027	0.86	<0.1	0.01	3.1	0.6	0.21	8	<0.5	<0.2
117845	Soil	35	12	0.77	319	0.178	<1	2.73	0.032	0.90	<0.1	0.02	3.7	0.6	0.28	9	<0.5	0.2
117846	Soil	13	26	0.88	189	0.170	<1	2.52	0.014	0.68	0.1	<0.01	2.9	0.5	<0.05	8	<0.5	<0.2
117847	Soil	21	22	0.85	228	0.192	<1	2.71	0.014	0.60	<0.1	<0.01	6.1	0.4	<0.05	11	<0.5	<0.2
117848	Soil	34	29	0.60	553	0.095	<1	1.82	0.022	0.14	0.1	0.01	4.3	0.1	0.09	6	<0.5	<0.2
117849	Soil	14	36	0.59	280	0.102	<1	2.34	0.014	0.08	<0.1	0.02	4.4	0.1	<0.05	7	<0.5	<0.2
117850	Soil	44	12	0.73	240	0.179	<1	2.19	0.015	0.69	<0.1	<0.01	4.7	0.4	0.19	8	<0.5	<0.2
117851	Soil	13	23	0.55	183	0.108	<1	1.97	0.012	0.10	<0.1	0.02	2.6	0.1	<0.05	6	<0.5	<0.2
117852	Soil	15	30	0.52	234	0.092	<1	1.72	0.016	0.08	0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
117853	Soil	35	11	0.75	182	0.162	<1	2.39	0.017	0.72	<0.1	0.01	6.0	0.3	<0.05	12	<0.5	<0.2
117854	Soil	3	5	0.87	109	0.133	<1	1.61	0.013	0.38	<0.1	<0.01	1.5	0.3	<0.05	12	<0.5	<0.2
117855	Soil	22	5	1.34	266	0.184	<1	2.65	0.014	1.40	<0.1	0.02	6.7	0.4	<0.05	11	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
117856	Soil	1.2	43.4	4.4	95	<0.1	11.0	18.4	1130	6.14	2.1	0.7	0.8	6.3	118	<0.1	0.1	<0.1	179	0.65	0.075
117857	Soil	8.8	17.3	4.1	141	<0.1	4.7	6.9	938	3.54	4.0	2.7	0.9	14.4	4	0.2	0.2	0.2	36	0.05	0.027
117858	Soil	3.4	68.2	6.1	98	<0.1	5.0	9.6	821	4.44	3.1	2.3	<0.5	15.7	17	<0.1	0.1	0.2	66	0.18	0.033
117859	Soil	1.8	16.4	9.0	61	<0.1	10.0	9.4	521	3.61	5.2	0.8	0.9	8.5	12	<0.1	0.3	0.2	68	0.10	0.023
117860	Soil	0.4	6.5	5.7	110	<0.1	7.6	3.2	179	1.43	4.1	0.2	<0.5	1.1	13	<0.1	0.2	<0.1	27	0.08	0.012
117861	Soil	1.8	21.1	21.1	80	<0.1	15.2	7.7	334	3.13	6.0	1.9	2.9	9.8	18	<0.1	0.4	0.3	64	0.21	0.019
117862	Soil	0.9	18.6	9.9	64	<0.1	14.4	7.7	278	2.62	5.4	1.1	6.0	6.9	24	0.1	0.5	0.2	56	0.29	0.031
117863	Soil	1.0	19.5	10.5	68	<0.1	13.7	8.4	330	2.71	5.3	1.4	10.4	7.7	25	<0.1	0.4	0.2	56	0.30	0.036
108926	Soil	1.6	15.9	13.1	56	<0.1	21.0	9.1	377	2.74	7.3	0.6	2.4	7.7	17	<0.1	0.9	0.2	65	0.22	0.042
108927	Soil	1.8	13.5	20.1	48	<0.1	14.4	8.2	665	2.21	2.8	0.9	<0.5	24.7	11	<0.1	0.8	0.3	45	0.17	0.039
108928	Soil	1.3	19.4	25.9	80	<0.1	16.0	8.8	776	3.16	8.9	1.2	3.9	3.5	18	<0.1	1.8	0.2	52	0.38	0.084
108929	Soil	5.1	46.3	8.6	98	<0.1	10.1	15.4	1009	6.76	2.2	1.5	1.8	10.8	22	0.1	0.7	1.6	69	0.66	0.134
108930	Soil	1.9	20.2	10.8	52	<0.1	18.2	10.5	295	3.52	8.8	0.6	2.4	4.4	18	<0.1	0.6	0.6	68	0.20	0.025
108931	Soil	2.1	46.9	12.9	89	0.1	29.1	14.2	528	3.76	6.5	1.3	5.7	8.8	31	<0.1	0.7	0.4	82	0.51	0.056
108932	Soil	2.5	19.2	14.0	79	<0.1	14.9	18.6	1107	3.15	6.3	1.1	2.6	9.9	17	0.2	0.5	0.5	58	0.22	0.101
108933	Soil	1.4	28.0	10.9	60	<0.1	20.2	8.3	293	2.68	6.2	1.5	5.0	9.9	25	<0.1	0.6	0.2	56	0.34	0.062
108934	Soil	1.1	49.9	188.1	62	0.1	22.2	10.0	334	2.87	8.4	2.5	2.2	9.0	31	<0.1	2.1	0.2	58	0.40	0.052
108935	Soil	1.0	33.3	18.6	51	<0.1	22.7	9.4	301	2.82	7.4	0.9	8.9	6.6	28	<0.1	0.7	0.2	61	0.38	0.035
108936	Soil	4.1	39.9	31.5	61	<0.1	22.3	8.3	635	3.00	8.3	1.2	4.4	16.1	22	<0.1	1.3	0.3	54	0.28	0.046
108937	Soil	1.0	29.5	10.7	50	<0.1	24.3	9.7	253	2.85	9.3	1.2	7.0	9.6	22	<0.1	0.7	0.2	62	0.21	0.019
108938	Soil	0.8	27.4	5.0	83	<0.1	15.2	7.3	1059	3.45	3.7	1.8	2.3	26.7	19	<0.1	1.1	<0.1	37	0.32	0.058
108939	Soil	1.4	16.1	5.8	55	<0.1	9.4	5.9	835	2.41	3.2	1.3	<0.5	21.7	20	<0.1	0.7	0.2	19	0.31	0.046
108940	Soil	1.3	16.3	7.5	71	<0.1	8.7	6.0	649	2.84	3.5	1.2	1.6	23.1	19	<0.1	0.8	0.2	22	0.34	0.057
108942	Soil	1.0	18.5	10.0	48	<0.1	11.7	4.8	886	2.67	2.9	1.7	<0.5	22.3	23	<0.1	0.6	<0.1	27	0.38	0.030
109704	Soil	0.7	21.2	10.7	61	0.1	18.3	7.5	246	2.46	7.1	0.9	2.2	5.3	27	0.1	0.6	0.2	52	0.35	0.049
109705	Soil	0.6	28.9	9.8	56	0.1	23.6	9.4	408	2.47	8.4	1.5	2.0	5.5	35	0.1	0.5	0.2	54	0.49	0.060
109706	Soil	0.8	24.7	8.3	61	<0.1	18.8	8.3	330	2.51	6.1	1.3	6.3	6.1	35	0.1	0.4	0.1	54	0.45	0.054
109707	Soil	0.7	28.2	8.1	62	<0.1	21.6	8.0	292	2.49	7.3	1.0	4.2	5.2	34	0.2	0.5	0.2	56	0.48	0.059
109708	Soil	0.7	20.9	7.7	52	<0.1	16.6	7.1	234	2.30	5.7	1.2	1.1	4.7	30	<0.1	0.4	0.1	49	0.38	0.051
109709	Soil	0.7	19.2	7.4	47	<0.1	16.0	6.8	199	2.09	5.4	1.2	2.5	4.8	28	<0.1	0.4	0.1	47	0.37	0.050

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
117856	Soil	10	37	2.77	370	0.322	<1	4.90	0.024	2.21	<0.1	<0.01	8.9	0.6	<0.05	16	<0.5	<0.2
117857	Soil	36	10	1.19	104	0.166	<1	2.30	0.008	0.87	<0.1	<0.01	3.9	0.5	<0.05	7	<0.5	<0.2
117858	Soil	15	11	1.48	158	0.187	<1	2.87	0.008	0.97	<0.1	<0.01	6.3	0.5	<0.05	12	<0.5	<0.2
117859	Soil	11	22	0.76	127	0.148	<1	2.34	0.008	0.32	<0.1	0.01	3.8	0.2	<0.05	9	<0.5	<0.2
117860	Soil	2	14	0.30	70	0.045	<1	1.46	0.010	0.13	<0.1	0.02	1.4	0.1	<0.05	6	<0.5	<0.2
117861	Soil	27	30	0.65	151	0.124	<1	1.99	0.011	0.14	<0.1	0.02	4.2	0.1	<0.05	7	<0.5	<0.2
117862	Soil	20	27	0.60	182	0.113	<1	1.60	0.014	0.11	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
117863	Soil	19	26	0.64	185	0.122	<1	1.81	0.014	0.19	0.1	0.02	4.1	0.1	<0.05	6	<0.5	<0.2
108926	Soil	9	32	0.68	159	0.071	<1	1.92	0.012	0.13	0.1	0.05	4.9	0.1	<0.05	6	<0.5	<0.2
108927	Soil	6	17	0.45	94	0.018	<1	1.22	0.008	0.06	0.1	0.03	6.8	<0.1	<0.05	4	0.7	<0.2
108928	Soil	22	22	0.22	205	0.016	1	0.98	0.010	0.06	0.3	0.05	6.4	<0.1	<0.05	4	0.5	<0.2
108929	Soil	52	8	1.83	305	0.131	<1	2.50	0.008	0.52	0.1	0.04	23.6	0.3	<0.05	16	0.9	<0.2
108930	Soil	11	35	0.68	208	0.069	<1	2.27	0.010	0.07	<0.1	0.03	4.6	<0.1	<0.05	7	<0.5	<0.2
108931	Soil	36	90	1.24	241	0.070	<1	2.35	0.014	0.06	0.1	0.11	9.1	<0.1	<0.05	9	0.8	<0.2
108932	Soil	17	27	0.49	147	0.048	<1	1.77	0.009	0.09	0.2	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
108933	Soil	39	33	0.52	214	0.068	<1	1.55	0.013	0.05	0.2	0.05	4.5	<0.1	<0.05	5	0.6	<0.2
108934	Soil	33	35	0.49	249	0.076	1	1.76	0.017	0.07	0.1	0.08	6.1	<0.1	<0.05	5	<0.5	<0.2
108935	Soil	22	36	0.48	294	0.089	<1	1.99	0.019	0.06	0.1	0.05	5.7	<0.1	<0.05	6	<0.5	<0.2
108936	Soil	36	30	0.39	246	0.055	2	1.70	0.010	0.06	0.1	0.06	5.1	<0.1	<0.05	5	<0.5	<0.2
108937	Soil	24	40	0.51	300	0.070	3	1.91	0.010	0.06	<0.1	0.04	6.5	<0.1	<0.05	5	<0.5	<0.2
108938	Soil	49	12	0.60	270	0.063	3	1.64	0.007	0.18	<0.1	0.11	5.2	0.1	<0.05	8	<0.5	<0.2
108939	Soil	84	9	0.20	281	0.005	4	1.40	0.007	0.10	<0.1	0.09	4.2	<0.1	<0.05	5	<0.5	<0.2
108940	Soil	81	10	0.24	246	0.008	3	1.51	0.006	0.10	<0.1	0.08	4.4	<0.1	<0.05	5	<0.5	<0.2
108942	Soil	78	8	0.33	179	0.009	<1	1.49	0.004	0.12	<0.1	0.14	4.5	<0.1	<0.05	5	0.8	<0.2
109704	Soil	17	26	0.58	233	0.081	3	1.78	0.018	0.08	0.1	0.05	3.2	<0.1	<0.05	5	<0.5	<0.2
109705	Soil	18	27	0.56	299	0.081	3	1.54	0.021	0.06	0.2	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
109706	Soil	18	26	0.59	240	0.107	2	1.57	0.023	0.08	0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
109707	Soil	16	28	0.55	253	0.096	1	1.51	0.023	0.07	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
109708	Soil	16	26	0.49	220	0.086	<1	1.44	0.017	0.06	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
109709	Soil	15	24	0.48	226	0.081	2	1.39	0.014	0.04	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 19, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000795.1

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	
109710	Soil	0.7	24.0	8.3	55	<0.1	18.6	8.4	277	2.39	6.9	0.8	6.0	4.9	32	<0.1	0.4	0.2	55	0.43	0.051
109711	Soil	0.8	20.7	7.8	50	<0.1	16.4	7.1	198	2.30	6.3	1.3	2.6	4.1	30	<0.1	0.5	0.1	51	0.39	0.048
109712	Soil	0.9	27.2	8.6	55	0.2	20.2	8.9	286	2.16	6.5	1.1	4.2	2.9	33	0.1	0.4	0.2	50	0.45	0.056
108943	Soil	0.9	16.6	7.7	57	<0.1	14.6	9.8	583	2.63	6.0	1.3	6.6	14.2	20	<0.1	0.4	<0.1	50	0.25	0.035
108944	Soil	0.7	22.6	5.1	65	<0.1	14.0	7.5	728	3.15	3.7	1.7	1.4	20.1	18	<0.1	0.4	0.1	43	0.30	0.068
108945	Soil	0.7	36.7	17.6	92	<0.1	13.3	9.9	819	3.83	4.6	3.1	2.3	39.2	24	<0.1	1.2	0.4	53	0.37	0.082
108946	Soil	1.3	48.6	16.7	104	<0.1	16.5	13.7	903	4.67	5.4	5.3	3.1	39.5	38	<0.1	0.7	0.2	61	0.58	0.074
108947	Soil	0.6	19.5	18.0	120	<0.1	13.4	14.6	762	5.06	8.5	2.7	<0.5	45.4	26	<0.1	0.5	0.2	53	0.45	0.116
108948	Soil	0.7	37.8	12.7	81	<0.1	22.8	11.6	477	3.64	7.5	1.7	1.9	22.4	35	<0.1	0.6	0.2	61	0.47	0.068
108949	Soil	0.7	46.6	22.8	116	<0.1	12.2	12.6	1164	4.29	5.0	1.9	1.7	50.8	24	<0.1	0.3	0.2	42	0.43	0.103
108950	Soil	0.5	33.0	13.8	75	0.1	18.2	10.8	365	3.33	6.4	3.2	3.1	22.6	31	0.1	0.5	0.2	55	0.44	0.052
108951	Soil	0.8	20.2	42.9	196	<0.1	9.1	11.5	1009	4.11	5.7	1.4	1.7	28.1	26	<0.1	0.4	0.2	41	0.48	0.078
108952	Soil	0.7	30.8	17.0	110	<0.1	9.4	11.9	890	4.24	3.5	2.9	2.6	58.9	25	<0.1	0.3	0.3	46	0.44	0.110
108953	Soil	0.9	56.9	11.7	98	<0.1	14.4	13.8	1046	4.46	2.3	2.2	7.8	38.6	16	<0.1	0.3	8.6	59	0.37	0.108
108954	Soil	0.5	23.8	16.1	100	<0.1	14.6	15.2	1093	4.20	2.9	2.4	2.1	44.3	18	0.2	0.3	0.5	53	0.35	0.107
108955	Soil	1.1	25.2	8.1	44	0.2	23.1	9.8	554	2.34	7.7	0.9	4.5	2.6	50	0.2	0.6	0.2	50	0.76	0.067
108956	Soil	1.6	15.6	8.4	70	<0.1	11.4	13.3	856	3.13	7.1	0.7	1.5	7.3	16	0.2	0.3	0.1	53	0.26	0.078
108957	Soil	0.6	32.2	9.8	59	0.1	23.1	10.7	333	2.78	8.9	0.6	3.8	5.7	32	<0.1	0.6	0.2	58	0.50	0.049
108958	Soil	0.6	28.1	7.5	52	<0.1	18.2	8.0	277	2.44	7.2	0.7	4.4	5.4	28	<0.1	0.5	0.1	52	0.38	0.040
108959	Soil	1.0	15.9	7.1	80	<0.1	10.2	9.6	397	2.97	4.4	0.7	1.2	7.9	19	<0.1	0.2	0.1	55	0.29	0.075





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Page: 12 of 12 Part 2

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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	0.1	0.01	0.1	0.05	1	0.5	0.2	
109710	Soil	15	27	0.52	244	0.091	2	1.60	0.019	0.06	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
109711	Soil	14	25	0.48	228	0.083	2	1.57	0.015	0.05	0.2	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
109712	Soil	13	26	0.47	284	0.067	2	1.50	0.017	0.05	0.2	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
108943	Soil	27	23	0.48	184	0.112	3	1.70	0.014	0.27	0.1	0.04	4.6	0.2	<0.05	6	<0.5	<0.2
108944	Soil	35	15	0.61	179	0.147	2	1.52	0.011	0.56	<0.1	0.05	5.9	0.3	<0.05	7	<0.5	<0.2
108945	Soil	89	17	0.76	254	0.113	3	2.05	0.008	0.61	0.2	0.09	7.3	0.5	<0.05	9	<0.5	<0.2
108946	Soil	92	22	0.86	272	0.113	1	2.94	0.010	0.52	<0.1	0.26	7.0	0.4	<0.05	12	<0.5	<0.2
108947	Soil	55	19	0.88	304	0.196	2	2.98	0.008	0.97	0.1	0.13	5.8	0.8	<0.05	12	<0.5	<0.2
108948	Soil	56	32	0.65	244	0.108	1	2.39	0.015	0.30	<0.1	0.15	5.5	0.2	<0.05	8	<0.5	<0.2
108949	Soil	73	16	0.85	246	0.182	2	2.57	0.007	1.00	0.1	0.18	4.8	0.8	<0.05	11	<0.5	<0.2
108950	Soil	61	29	0.55	201	0.110	2	2.58	0.014	0.31	<0.1	0.12	6.3	0.2	<0.05	8	<0.5	<0.2
108951	Soil	30	12	1.02	222	0.152	<1	2.42	0.006	0.84	0.1	0.19	3.1	0.8	<0.05	9	<0.5	<0.2
108952	Soil	111	16	0.74	205	0.109	<1	2.26	0.008	0.73	0.2	0.11	5.3	0.5	<0.05	12	<0.5	<0.2
108953	Soil	73	27	1.25	261	0.222	<1	2.49	0.006	1.05	0.2	0.18	5.5	0.8	<0.05	11	<0.5	0.3
108954	Soil	91	24	1.20	199	0.115	<1	2.57	0.010	0.68	0.2	0.04	5.1	0.4	<0.05	12	<0.5	<0.2
108955	Soil	14	26	0.50	372	0.054	1	1.51	0.016	0.06	0.2	0.04	3.0	<0.1	<0.05	4	0.7	<0.2
108956	Soil	8	18	0.56	167	0.107	<1	1.52	0.011	0.43	0.4	0.02	3.0	0.2	<0.05	5	<0.5	<0.2
108957	Soil	16	31	0.62	350	0.098	1	1.92	0.027	0.09	0.1	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
108958	Soil	17	26	0.55	218	0.097	<1	1.48	0.022	0.12	0.1	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
108959	Soil	10	20	0.66	184	0.131	<1	1.97	0.014	0.45	0.2	0.01	3.4	0.2	<0.05	7	<0.5	<0.2



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Project: Rosebute  
Report Date: August 19, 2011

Page: 1 of 3 Part 1

# QUALITY CONTROL REPORT

WHI11000795.1

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																					
108902	Soil	1.4	81.6	4.1	100	<0.1	13.4	33.0	1113	4.86	3.0	0.7	1.7	3.1	66	<0.1	0.3	<0.1	120	0.42	0.038
REP 108902	QC	1.6	82.7	4.0	104	<0.1	12.3	32.0	1095	4.89	3.2	0.7	1.0	3.1	65	<0.1	0.2	<0.1	118	0.40	0.035
108919	Soil	1.0	13.9	3.9	47	<0.1	6.9	7.0	361	2.58	3.0	1.3	1.6	7.6	30	0.2	0.2	0.2	42	0.25	0.025
REP 108919	QC	0.7	14.8	4.1	47	<0.1	6.6	7.3	371	2.62	2.7	1.3	0.8	7.7	31	<0.1	0.2	0.2	43	0.25	0.026
102502	Soil	1.2	39.7	9.9	95	<0.1	31.2	17.4	376	3.60	6.4	1.5	0.9	10.4	17	0.3	0.4	0.2	57	0.12	0.023
REP 102502	QC	1.2	38.8	10.1	91	<0.1	30.2	16.9	374	3.55	6.2	1.5	3.1	10.6	16	0.3	0.4	0.2	56	0.12	0.023
104721	Soil	0.8	15.3	6.7	58	<0.1	14.9	10.0	279	2.90	5.1	0.7	2.2	3.2	20	<0.1	0.4	0.1	67	0.30	0.049
REP 104721	QC	0.7	14.8	6.6	58	<0.1	15.0	9.9	280	2.92	5.0	0.6	2.1	3.2	22	<0.1	0.3	0.1	68	0.30	0.050
104727	Soil	1.0	47.7	41.0	113	0.2	28.2	11.0	339	3.48	6.7	1.2	2.2	6.5	34	0.4	0.2	0.3	70	0.63	0.087
REP 104727	QC	1.1	46.0	40.7	110	0.2	27.4	10.7	336	3.62	6.6	1.2	2.0	6.3	33	0.4	0.2	0.3	70	0.66	0.082
113291	Soil	0.6	26.5	6.6	47	<0.1	22.4	10.8	305	2.47	6.9	0.6	2.9	2.7	21	<0.1	0.4	0.1	58	0.34	0.061
REP 113291	QC	0.6	25.7	6.5	47	<0.1	22.8	10.6	314	2.50	6.3	0.6	2.1	2.7	20	<0.1	0.4	0.1	56	0.29	0.061
113311	Soil	1.6	41.7	10.0	73	0.4	46.0	11.7	299	2.93	7.9	1.9	5.3	5.9	31	0.1	0.4	0.2	106	0.35	0.087
REP 113311	QC	1.8	40.5	9.6	72	0.4	44.6	11.2	281	2.78	7.9	1.9	6.4	5.6	30	0.1	0.4	0.2	102	0.35	0.083
113333	Soil	0.9	22.4	8.4	45	<0.1	20.8	8.7	267	2.41	6.9	1.5	2.1	9.3	23	<0.1	0.5	0.3	57	0.25	0.018
REP 113333	QC	0.9	22.7	9.5	46	<0.1	20.8	9.2	287	2.43	7.1	1.6	1.9	9.8	23	<0.1	0.5	0.3	62	0.26	0.019
122351	Soil	2.2	67.1	8.8	60	<0.1	17.2	10.5	379	3.30	9.3	0.8	1.0	5.6	16	<0.1	0.3	0.1	69	0.18	0.036
REP 122351	QC	1.8	66.0	8.6	57	<0.1	18.4	11.0	355	3.21	9.2	0.7	3.2	5.6	15	<0.1	0.4	0.1	67	0.18	0.033
122357	Soil	1.0	58.9	18.3	271	<0.1	9.8	21.6	1233	5.02	3.8	0.5	<0.5	5.7	30	0.4	0.1	0.3	126	0.50	0.074
REP 122357	QC	0.9	57.8	18.0	267	<0.1	10.5	22.1	1240	4.95	3.6	0.5	<0.5	6.1	31	0.2	0.1	0.3	130	0.51	0.078
113349	Soil	1.1	29.7	5.8	133	<0.1	36.6	9.1	273	3.53	0.8	2.3	2.0	13.6	14	<0.1	<0.1	0.6	56	0.21	0.053
REP 113349	QC	1.4	31.4	5.8	138	<0.1	38.5	9.9	298	3.83	1.1	2.4	0.9	14.6	15	<0.1	<0.1	0.7	61	0.23	0.056
105713	Soil	1.5	77.1	11.0	64	0.3	19.9	12.6	382	2.90	7.4	1.7	3.5	2.5	47	0.2	0.3	0.3	68	0.36	0.057
REP 105713	QC	1.4	79.7	11.1	68	0.3	22.3	12.8	396	3.03	7.7	1.7	4.6	2.5	50	0.4	0.4	0.3	68	0.37	0.058
117837	Soil	2.6	50.8	5.7	143	<0.1	21.6	20.8	774	4.68	1.8	1.3	3.7	2.9	42	0.1	0.1	0.2	182	0.44	0.101
REP 117837	QC	2.2	49.0	5.7	138	<0.1	20.4	19.3	739	4.42	1.6	1.2	<0.5	2.7	41	0.2	0.2	0.2	170	0.42	0.108
117853	Soil	0.3	21.0	8.6	114	<0.1	8.3	7.5	665	3.21	2.0	2.3	1.8	19.7	92	0.1	0.1	<0.1	58	0.73	0.057
REP 117853	QC	0.4	21.2	8.4	110	<0.1	8.4	7.3	665	3.25	2.3	2.3	2.0	19.5	91	<0.1	0.1	0.1	60	0.75	0.056



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Project: Rosebute  
 Report Date: August 19, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000795.1

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																		
108902	Soil	11	27	1.94	285	0.264	1	3.53	0.015	1.09	0.1	0.03	2.5	0.4	<0.05	9	<0.5	<0.2
REP 108902	QC	11	26	1.94	282	0.253	2	3.47	0.012	1.09	<0.1	0.02	3.0	0.4	<0.05	8	<0.5	<0.2
108919	Soil	23	16	0.62	109	0.131	1	1.52	0.010	0.39	<0.1	0.02	2.4	0.2	<0.05	6	1.5	0.3
REP 108919	QC	23	15	0.61	109	0.129	3	1.53	0.011	0.39	0.1	0.01	2.6	0.2	<0.05	6	<0.5	<0.2
102502	Soil	19	45	0.74	188	0.172	<1	2.82	0.014	0.37	0.1	0.04	4.5	0.3	<0.05	7	<0.5	<0.2
REP 102502	QC	19	45	0.71	185	0.175	<1	2.77	0.012	0.37	0.1	0.03	4.3	0.4	<0.05	7	<0.5	<0.2
104721	Soil	11	25	0.67	162	0.080	<1	1.90	0.019	0.04	0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
REP 104721	QC	11	24	0.68	159	0.080	<1	1.90	0.021	0.05	0.2	0.03	4.7	<0.1	<0.05	6	<0.5	<0.2
104727	Soil	23	36	0.81	229	0.136	<1	2.02	0.023	0.33	0.1	0.03	5.2	0.2	0.06	7	0.5	<0.2
REP 104727	QC	23	35	0.81	224	0.139	<1	2.01	0.025	0.34	<0.1	0.03	5.4	0.2	0.06	7	<0.5	<0.2
113291	Soil	13	28	0.60	219	0.075	<1	1.65	0.016	0.06	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 113291	QC	12	27	0.56	214	0.065	<1	1.52	0.012	0.06	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
113311	Soil	16	74	0.86	247	0.102	2	2.14	0.016	0.07	0.2	0.05	4.2	0.2	<0.05	7	0.8	<0.2
REP 113311	QC	16	69	0.86	244	0.098	1	2.09	0.015	0.06	0.2	0.04	4.0	0.1	<0.05	7	<0.5	<0.2
113333	Soil	14	36	0.43	203	0.084	<1	1.99	0.017	0.05	0.1	0.02	4.0	0.1	<0.05	5	<0.5	<0.2
REP 113333	QC	15	39	0.48	214	0.096	<1	2.25	0.013	0.05	0.1	0.02	4.2	0.1	<0.05	6	<0.5	<0.2
122351	Soil	13	27	0.61	137	0.090	<1	2.10	0.011	0.13	0.2	0.03	3.0	<0.1	<0.05	6	1.1	<0.2
REP 122351	QC	12	26	0.60	133	0.085	2	2.05	0.012	0.14	0.2	0.02	2.8	0.1	<0.05	5	0.9	<0.2
122357	Soil	8	17	1.71	233	0.251	<1	3.56	0.015	0.63	0.2	0.02	3.9	0.2	<0.05	13	<0.5	0.2
REP 122357	QC	8	17	1.74	235	0.257	<1	3.68	0.016	0.64	0.3	0.01	3.9	0.2	<0.05	13	<0.5	<0.2
113349	Soil	35	35	0.99	228	0.124	<1	2.02	0.008	0.80	<0.1	<0.01	3.4	0.5	<0.05	7	<0.5	<0.2
REP 113349	QC	35	39	1.06	237	0.136	<1	2.15	0.008	0.87	<0.1	<0.01	3.8	0.5	<0.05	7	<0.5	<0.2
105713	Soil	15	30	0.47	383	0.073	2	2.61	0.016	0.09	0.1	0.06	3.8	0.1	<0.05	7	0.5	<0.2
REP 105713	QC	16	31	0.47	402	0.074	<1	2.52	0.016	0.09	0.1	0.05	3.8	0.1	<0.05	8	<0.5	<0.2
117837	Soil	7	27	1.19	629	0.248	<1	2.48	0.046	0.82	<0.1	0.01	4.9	0.3	0.06	8	<0.5	<0.2
REP 117837	QC	7	25	1.25	616	0.236	<1	2.57	0.046	0.82	<0.1	0.01	4.8	0.3	0.08	7	0.5	<0.2
117853	Soil	35	11	0.75	182	0.162	<1	2.39	0.017	0.72	<0.1	0.01	6.0	0.3	<0.05	12	<0.5	<0.2
REP 117853	QC	34	12	0.75	177	0.163	<1	2.37	0.016	0.74	<0.1	<0.01	6.1	0.3	<0.05	12	<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: Rosebute  
Report Date: August 19, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000795.1

		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
108935	Soil	1.0	33.3	18.6	51	<0.1	22.7	9.4	301	2.82	7.4	0.9	8.9	6.6	28	<0.1	0.7	0.2	61	0.38	0.035
REP 108935	QC	1.0	33.9	18.9	51	0.1	23.0	9.6	310	2.87	7.8	0.9	3.3	6.6	28	<0.1	0.8	0.2	62	0.39	0.035
108942	Soil	1.0	18.5	10.0	48	<0.1	11.7	4.8	886	2.67	2.9	1.7	<0.5	22.3	23	<0.1	0.6	<0.1	27	0.38	0.030
REP 108942	QC	0.9	17.8	10.2	49	<0.1	11.6	4.8	878	2.63	3.0	1.7	8.8	21.8	23	<0.1	0.6	<0.1	28	0.38	0.032
108952	Soil	0.7	30.8	17.0	110	<0.1	9.4	11.9	890	4.24	3.5	2.9	2.6	58.9	25	<0.1	0.3	0.3	46	0.44	0.110
REP 108952	QC	0.5	34.4	16.6	116	<0.1	10.3	12.4	888	4.41	3.6	2.8	2.4	59.3	26	<0.1	0.3	0.3	48	0.45	0.107
Reference Materials																					
STD DS8	Standard	13.7	99.6	127.7	301	1.8	36.2	7.2	606	2.37	25.2	2.7	115.0	6.7	70	2.3	5.5	6.6	40	0.67	0.077
STD DS8	Standard	14.0	116.7	139.6	332	1.8	41.2	8.4	642	2.60	27.3	3.1	128.7	7.4	69	2.4	6.1	7.3	46	0.72	0.089
STD DS8	Standard	12.5	109.0	125.3	302	1.7	37.9	7.4	585	2.36	26.2	2.1	113.4	5.4	61	2.0	4.7	5.5	41	0.68	0.075
STD DS8	Standard	13.9	112.4	121.7	317	1.8	37.1	7.5	622	2.43	26.6	3.0	110.6	7.6	76	2.0	5.5	6.6	43	0.76	0.084
STD DS8	Standard	13.0	101.9	126.3	298	1.7	36.0	7.1	599	2.37	24.3	3.0	110.1	6.8	70	2.1	5.7	6.8	40	0.69	0.076
STD DS8	Standard	11.0	96.1	114.8	284	1.7	32.2	6.8	600	2.24	23.0	2.3	97.1	5.6	55	2.3	4.6	6.6	35	0.59	0.073
STD DS8	Standard	12.2	105.0	121.7	309	1.8	38.7	7.4	667	2.46	24.7	2.6	111.3	5.9	62	2.1	5.1	7.5	41	0.65	0.074
STD DS8	Standard	14.1	121.2	134.4	333	1.8	42.1	8.2	625	2.49	26.7	2.9	132.2	7.1	70	2.4	5.8	7.2	45	0.70	0.080
STD DS8	Standard	13.7	109.4	121.7	305	1.6	39.0	7.4	600	2.33	25.2	2.7	109.4	6.5	69	2.2	5.6	6.7	42	0.65	0.075
STD DS8	Standard	13.7	108.3	129.3	306	1.6	38.5	7.5	596	2.40	26.3	2.8	111.0	6.8	67	2.3	5.4	6.7	42	0.66	0.083
STD DS8	Standard	13.5	109.2	127.7	313	1.7	38.0	7.5	630	2.50	26.7	2.9	114.6	7.1	67	2.4	6.1	6.7	41	0.74	0.078
STD DS8	Standard	12.9	107.2	131.4	314	1.9	39.0	7.5	627	2.46	26.8	2.8	115.5	6.7	69	2.3	5.8	7.4	42	0.70	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



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 Val D'Or QC J9P 1S5 Canada

Project: Rosebute  
 Report Date: August 19, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000795.1

		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
108935	Soil	22	36	0.48	294	0.089	<1	1.99	0.019	0.06	0.1	0.05	5.7	<0.1	<0.05	6	<0.5	<0.2
REP 108935	QC	22	36	0.48	298	0.092	1	1.98	0.020	0.06	0.1	0.04	5.6	<0.1	<0.05	6	<0.5	<0.2
108942	Soil	78	8	0.33	179	0.009	<1	1.49	0.004	0.12	<0.1	0.14	4.5	<0.1	<0.05	5	0.8	<0.2
REP 108942	QC	79	8	0.33	181	0.008	1	1.47	0.004	0.12	<0.1	0.16	4.5	<0.1	<0.05	5	<0.5	<0.2
108952	Soil	111	16	0.74	205	0.109	<1	2.26	0.008	0.73	0.2	0.11	5.3	0.5	<0.05	12	<0.5	<0.2
REP 108952	QC	112	17	0.77	207	0.116	1	2.29	0.007	0.74	0.1	0.12	6.1	0.5	<0.05	12	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	112	0.62	305	0.108	2	0.94	0.113	0.46	3.0	0.20	2.3	5.3	0.12	5	5.4	5.0
STD DS8	Standard	15	127	0.63	287	0.126	3	0.93	0.086	0.43	3.2	0.19	2.3	5.7	0.15	5	5.3	5.4
STD DS8	Standard	13	114	0.56	272	0.109	3	0.90	0.105	0.44	2.9	0.21	2.6	5.5	0.18	5	4.1	4.7
STD DS8	Standard	18	114	0.62	298	0.134	3	0.98	0.108	0.44	3.2	0.20	2.9	5.5	0.15	5	5.3	4.6
STD DS8	Standard	15	114	0.60	293	0.119	3	0.96	0.116	0.44	3.1	0.19	3.3	5.7	0.12	5	4.9	5.3
STD DS8	Standard	11	102	0.56	233	0.090	3	0.80	0.074	0.37	2.7	0.20	2.1	5.1	0.14	4	4.8	4.6
STD DS8	Standard	13	110	0.59	253	0.104	2	0.86	0.076	0.41	2.9	0.17	2.1	5.6	0.10	4	4.8	5.7
STD DS8	Standard	15	131	0.69	290	0.126	3	0.95	0.091	0.41	3.1	0.19	2.3	5.5	0.13	5	4.6	5.1
STD DS8	Standard	14	118	0.64	265	0.119	3	0.90	0.088	0.39	2.9	0.19	2.0	5.3	0.15	4	5.0	4.4
STD DS8	Standard	15	115	0.59	275	0.112	5	0.91	0.082	0.39	3.0	0.21	1.9	5.6	0.17	5	4.9	4.9
STD DS8	Standard	15	118	0.62	283	0.123	3	0.91	0.087	0.41	3.1	0.23	2.1	5.6	0.17	5	4.5	5.1
STD DS8	Standard	14	118	0.69	281	0.114	3	0.89	0.087	0.42	3.1	0.20	2.0	5.6	0.16	5	4.8	5.4
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: Rosebute  
 Report Date: August 19, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000795.1

		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	0.7	0.1	<1	<0.1	<0.1	<0.1	11	0.07	<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:** Rosebute

**Report Date:** August 19, 2011

**Page:** 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000795.1

		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: July 30, 2011  
Report Date: August 16, 2011  
Page: 1 of 12

## CERTIFICATE OF ANALYSIS

WHI11000791.1

### CLIENT JOB INFORMATION

Project: Rosebute  
Shipment ID: 20110712212948  
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.

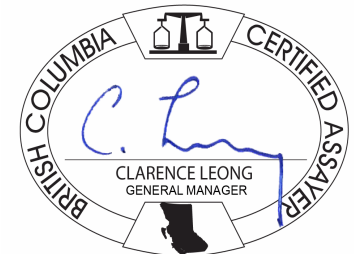
Invoice To: Taku Gold Corp  
680 3rd Ave, Suite 203  
Val D'Or QC J9P 1S5  
Canada

CC: Mark Fekete

### 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. 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: Rosebute  
 Report Date: August 16, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

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
116622	Soil	1.1	23.4	13.5	64	0.8	22.1	9.9	298	2.84	9.2	0.8	2.5	5.8	12	0.8	1.0	0.7	56	0.12	0.021
116623	Soil	1.0	18.7	12.3	61	0.2	18.0	8.4	288	3.04	8.7	0.8	1.1	7.0	12	0.3	0.7	0.5	49	0.12	0.019
116624	Soil	1.8	5.9	6.7	17	<0.1	8.8	2.2	146	1.04	3.1	0.3	3.2	1.9	7	0.3	0.6	0.4	25	0.03	0.020
116625	Soil	5.0	29.3	16.5	66	0.4	32.5	7.0	402	2.35	5.2	1.7	6.0	14.7	39	1.6	1.6	2.0	32	0.33	0.045
116626	Soil	3.7	17.4	9.8	46	<0.1	24.4	8.2	264	2.62	9.8	0.7	3.8	4.3	15	0.7	1.2	0.8	54	0.13	0.015
116627	Soil	3.4	10.8	8.4	38	<0.1	18.3	4.6	210	2.32	7.1	0.5	3.9	4.0	15	0.7	1.2	0.7	43	0.09	0.018
116628	Soil	3.8	17.5	7.1	71	<0.1	19.2	11.4	550	4.38	6.2	1.2	2.0	7.7	9	0.5	1.1	0.6	73	0.07	0.030
116629	Soil	3.0	34.5	5.4	64	<0.1	20.1	11.1	466	3.57	4.3	1.3	1.9	12.0	12	0.5	0.6	0.7	48	0.11	0.019
116630	Soil	2.9	11.4	6.4	38	<0.1	17.3	6.1	359	2.97	4.6	0.9	1.4	15.6	4	0.3	0.6	0.6	36	0.04	0.023
116631	Soil	3.2	19.4	8.6	64	<0.1	20.8	9.0	545	2.97	6.7	0.8	6.1	6.0	16	0.4	0.7	0.5	51	0.22	0.043
116632	Soil	2.6	17.5	14.7	109	<0.1	13.7	8.3	609	3.21	3.0	0.9	1.7	13.2	14	0.4	0.5	1.4	37	0.22	0.014
116633	Soil	3.7	26.5	16.4	106	<0.1	22.0	10.6	445	3.49	6.8	0.7	5.3	6.1	13	0.5	0.7	0.6	59	0.16	0.029
116634	Soil	1.5	26.8	6.1	147	<0.1	16.1	15.4	683	4.26	2.8	1.0	0.5	6.8	38	0.2	0.3	0.2	87	0.39	0.022
116635	Soil	1.1	36.4	5.2	141	<0.1	18.9	19.3	781	4.95	3.7	1.1	1.0	8.1	36	0.3	0.3	0.2	121	0.51	0.095
116636	Soil	2.0	29.5	7.7	112	<0.1	22.9	15.7	555	4.40	5.5	1.1	0.8	9.6	32	0.2	0.5	0.2	98	0.44	0.058
116637	Soil	2.9	10.8	7.9	112	0.1	22.1	9.5	1035	3.21	5.6	0.4	3.0	2.8	20	0.2	0.6	0.2	74	0.27	0.043
116638	Soil	3.7	10.6	8.8	79	<0.1	21.7	10.0	828	2.94	7.0	0.4	1.8	3.0	20	0.3	0.8	0.3	63	0.20	0.029
116639	Soil	0.6	12.9	8.3	81	<0.1	10.4	10.3	340	3.81	7.6	0.5	<0.5	4.8	19	0.2	0.6	0.1	95	0.30	0.042
116640	Soil	0.8	8.5	4.3	89	<0.1	7.4	9.4	466	3.52	4.2	0.5	<0.5	5.3	18	<0.1	0.4	<0.1	75	0.28	0.035
116641	Soil	1.8	19.0	9.7	75	<0.1	23.7	10.4	514	3.21	8.7	0.5	3.6	4.1	22	0.2	0.6	0.2	71	0.20	0.022
116642	Soil	1.3	20.9	8.5	107	<0.1	13.1	8.5	514	3.52	4.3	1.0	<0.5	8.7	20	0.1	0.5	0.2	65	0.39	0.053
116643	Soil	1.9	24.2	10.8	79	<0.1	24.2	10.6	464	3.29	6.8	0.8	4.1	6.2	27	<0.1	0.5	0.2	69	0.38	0.040
116644	Soil	1.0	44.7	5.9	89	<0.1	30.0	23.2	781	4.66	4.8	0.8	2.0	3.1	29	<0.1	0.4	0.2	125	0.61	0.061
116645	Soil	1.3	36.3	5.4	116	0.1	25.4	19.3	822	4.82	4.1	0.3	1.3	1.5	24	<0.1	0.3	<0.1	137	0.69	0.152
116646	Soil	1.2	32.5	7.7	58	0.1	26.1	9.2	420	2.55	8.4	0.7	1.4	3.5	52	0.2	0.6	0.2	53	1.37	0.060
116647	Soil	2.6	29.8	9.0	65	<0.1	31.3	10.9	457	2.76	7.6	0.8	5.8	3.9	38	0.2	0.5	0.2	60	0.73	0.057
116648	Soil	0.8	26.1	7.8	55	0.1	21.5	9.8	398	2.61	6.7	1.2	3.6	3.2	43	0.2	0.5	0.1	60	0.68	0.051
116649	Soil	1.7	22.9	7.8	49	0.1	20.7	9.4	338	2.41	7.0	1.1	4.8	3.2	32	0.2	0.5	0.2	53	0.50	0.052
116650	Soil	0.8	17.0	7.5	46	<0.1	15.9	8.0	280	2.28	6.4	0.9	3.0	3.2	30	0.2	0.4	0.2	52	0.49	0.050
116651	Soil	0.8	18.1	7.2	48	<0.1	17.8	8.3	287	2.30	6.8	0.7	3.7	2.9	28	0.2	0.4	0.2	55	0.46	0.058

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: August 16, 2011

Page: 2 of 12 Part 2

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	
116622	Soil	10	38	0.47	336	0.060	2	1.99	0.009	0.09	0.2	0.04	3.2	0.1	<0.05	5	<0.5	<0.2
116623	Soil	9	26	0.49	171	0.056	2	1.80	0.009	0.17	0.2	0.02	2.9	0.2	<0.05	5	<0.5	<0.2
116624	Soil	8	16	0.08	71	0.017	2	0.55	0.005	0.05	0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
116625	Soil	47	42	0.37	438	0.034	7	1.16	0.011	0.14	0.5	0.05	4.0	0.2	<0.05	4	<0.5	<0.2
116626	Soil	10	36	0.44	163	0.041	4	1.77	0.008	0.07	0.2	0.02	2.9	0.1	<0.05	5	<0.5	<0.2
116627	Soil	11	27	0.29	126	0.021	3	1.43	0.007	0.06	0.2	0.02	2.1	0.1	<0.05	5	<0.5	<0.2
116628	Soil	13	34	1.01	149	0.128	7	2.39	0.007	0.35	0.3	0.01	6.0	0.2	<0.05	8	<0.5	<0.2
116629	Soil	24	34	1.29	190	0.106	<1	2.18	0.009	0.41	0.2	0.01	5.3	0.2	<0.05	8	<0.5	<0.2
116630	Soil	19	25	1.35	73	0.066	<1	2.48	0.006	0.26	0.1	0.02	2.7	0.2	<0.05	8	<0.5	<0.2
116631	Soil	12	30	0.59	181	0.070	<1	1.62	0.009	0.16	0.3	0.01	3.2	0.1	<0.05	5	<0.5	<0.2
116632	Soil	97	26	1.48	287	0.131	1	2.19	0.007	0.28	0.1	0.03	4.0	0.2	<0.05	8	0.7	<0.2
116633	Soil	11	43	0.85	190	0.087	<1	2.37	0.008	0.28	0.2	0.04	4.3	0.2	<0.05	8	<0.5	<0.2
116634	Soil	23	43	1.65	400	0.244	<1	2.72	0.018	0.56	0.2	0.02	4.8	0.3	<0.05	10	<0.5	<0.2
116635	Soil	31	50	1.81	661	0.259	1	2.96	0.015	1.00	<0.1	0.02	4.9	0.3	<0.05	12	0.6	<0.2
116636	Soil	22	36	1.35	531	0.192	<1	2.53	0.011	0.52	0.2	0.02	5.5	0.2	<0.05	10	<0.5	<0.2
116637	Soil	8	33	0.73	253	0.112	2	1.91	0.012	0.11	0.2	0.03	2.8	0.1	<0.05	8	0.8	<0.2
116638	Soil	7	32	0.58	259	0.064	1	1.80	0.008	0.20	0.2	0.02	2.7	0.1	<0.05	7	<0.5	<0.2
116639	Soil	5	18	0.78	158	0.098	2	1.94	0.014	0.23	<0.1	0.01	5.8	0.1	<0.05	8	1.0	<0.2
116640	Soil	10	12	0.96	125	0.146	3	1.88	0.009	0.34	<0.1	0.01	4.7	0.3	<0.05	9	<0.5	<0.2
116641	Soil	8	36	0.66	224	0.084	<1	2.03	0.011	0.07	0.2	0.02	4.4	<0.1	<0.05	8	<0.5	<0.2
116642	Soil	15	17	0.75	184	0.102	2	1.61	0.014	0.15	<0.1	0.02	6.5	0.2	<0.05	8	<0.5	<0.2
116643	Soil	18	40	0.70	300	0.094	2	1.82	0.017	0.10	0.2	0.03	5.7	0.1	<0.05	7	<0.5	<0.2
116644	Soil	13	51	1.73	450	0.076	3	2.68	0.014	0.15	<0.1	0.03	13.7	<0.1	<0.05	9	<0.5	<0.2
116645	Soil	4	54	1.60	266	0.197	<1	2.66	0.022	0.70	<0.1	0.02	7.9	0.3	<0.05	10	<0.5	<0.2
116646	Soil	13	27	0.67	299	0.077	1	1.39	0.034	0.06	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
116647	Soil	14	41	0.69	306	0.088	2	1.64	0.034	0.07	0.2	0.04	4.8	<0.1	<0.05	5	1.1	<0.2
116648	Soil	13	28	0.60	313	0.079	3	1.63	0.025	0.06	0.2	0.03	4.1	<0.1	<0.05	5	0.5	<0.2
116649	Soil	12	29	0.50	261	0.067	1	1.52	0.021	0.05	0.2	0.05	3.7	<0.1	<0.05	5	0.8	<0.2
116650	Soil	11	25	0.48	240	0.068	1	1.50	0.021	0.05	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
116651	Soil	12	25	0.47	224	0.073	1	1.41	0.019	0.06	0.2	0.03	3.1	<0.1	<0.05	5	0.7	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 3 of 12 Part 1

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WHI11000791.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
116652	Soil		0.6	17.8	8.0	58	<0.1	15.9	7.7	344	2.22	5.8	0.8	10.9	2.9	26	0.1	0.5	0.2	46	0.37	0.052
116653	Soil		0.6	20.1	8.2	86	<0.1	16.4	7.8	387	2.58	6.6	0.9	10.7	3.4	26	0.2	0.5	0.1	48	0.34	0.067
116654	Soil		0.6	25.0	7.5	46	<0.1	20.5	9.4	353	2.62	8.1	0.7	7.8	3.6	19	<0.1	0.4	0.1	60	0.25	0.041
116655	Soil		0.8	15.6	7.7	69	0.1	19.8	12.7	463	3.66	8.0	0.3	1.9	2.1	17	0.2	0.5	0.2	95	0.26	0.049
116656	Soil		0.2	14.6	2.5	24	<0.1	25.1	12.4	305	2.22	2.1	0.3	2.4	1.3	34	0.1	0.2	<0.1	57	0.47	0.040
116657	Soil		0.1	20.2	3.5	38	<0.1	26.5	13.3	320	2.96	5.0	0.2	1.1	1.1	13	0.1	0.2	<0.1	83	0.25	0.021
116658	Soil		0.7	48.3	3.0	24	<0.1	37.9	16.4	402	2.62	2.3	0.1	1.7	0.4	13	<0.1	0.1	<0.1	64	0.24	0.043
116659	Soil		0.8	21.6	5.9	37	0.1	21.8	11.4	386	2.74	6.0	0.3	1.9	1.0	18	<0.1	0.3	0.1	70	0.29	0.060
116660	Soil		0.9	40.1	6.6	51	<0.1	25.6	13.2	410	2.93	6.8	0.5	6.5	3.6	25	<0.1	0.5	0.1	69	0.37	0.066
116661	Soil		1.0	31.5	6.8	50	<0.1	27.2	12.2	386	2.74	7.4	0.5	1.8	3.3	25	<0.1	0.5	0.1	61	0.42	0.075
116662	Soil		0.5	31.2	2.0	79	<0.1	21.7	26.4	692	5.41	2.0	0.2	<0.5	2.9	26	<0.1	0.1	<0.1	115	0.28	0.033
116663	Soil		2.7	125.5	36.7	167	0.3	27.2	11.8	421	5.26	7.5	3.2	<0.5	9.9	68	0.5	<0.1	0.9	109	0.36	0.144
116664	Soil		0.7	61.8	6.1	38	<0.1	59.8	23.6	231	3.86	2.5	1.2	<0.5	7.3	11	<0.1	0.2	0.2	48	0.27	0.039
116665	Soil		1.8	28.3	9.3	73	<0.1	19.4	8.8	290	3.14	4.3	1.3	2.4	5.7	26	<0.1	0.3	0.4	62	0.20	0.053
116666	Soil		1.2	22.3	9.1	60	<0.1	22.2	11.8	297	3.17	6.9	0.9	4.4	4.7	13	0.1	0.5	0.1	64	0.13	0.026
116667	Soil		5.4	50.2	11.0	87	0.7	25.4	9.2	546	3.81	5.6	1.6	1.2	3.6	22	0.4	0.4	0.3	98	0.12	0.085
116668	Soil		2.1	34.1	6.7	120	<0.1	28.9	18.5	806	5.20	3.4	0.8	<0.5	2.8	13	0.1	0.3	<0.1	140	0.18	0.062
116669	Soil		1.2	23.7	4.9	63	<0.1	15.2	8.0	299	4.11	3.4	0.5	<0.5	5.2	9	<0.1	0.4	0.1	33	0.11	0.025
116670	Soil		0.7	48.7	5.7	53	0.1	55.2	15.9	403	3.38	4.2	0.3	0.9	3.4	15	<0.1	0.3	<0.1	68	0.23	0.023
116671	Soil		0.8	46.8	5.7	44	0.1	38.2	12.2	274	2.65	3.5	0.4	0.8	2.8	18	<0.1	0.3	<0.1	60	0.25	0.012
116672	Soil		0.8	35.9	7.7	49	<0.1	28.6	11.5	389	2.72	6.8	0.8	8.8	4.1	27	<0.1	0.5	0.1	61	0.36	0.053
116673	Soil		0.8	44.6	2.6	72	<0.1	17.5	19.4	480	5.05	2.3	0.3	<0.5	2.0	17	<0.1	0.2	<0.1	86	0.41	0.087
116674	Soil		0.9	30.2	7.6	44	<0.1	25.0	11.2	293	2.86	6.8	0.5	5.8	3.5	16	<0.1	0.4	0.1	66	0.20	0.019
116675	Soil		0.9	26.7	6.5	59	<0.1	27.0	16.7	392	3.36	6.3	0.3	<0.5	1.7	12	<0.1	0.3	<0.1	75	0.19	0.048
116676	Soil		1.0	30.1	7.2	48	<0.1	26.2	9.0	314	2.84	6.9	0.6	2.0	4.2	26	<0.1	0.5	0.1	56	0.37	0.049
116677	Soil		1.0	20.9	7.6	53	<0.1	20.5	11.8	292	3.46	4.9	0.5	<0.5	3.0	17	<0.1	0.4	0.1	73	0.25	0.035
116678	Soil		1.0	22.3	7.6	64	<0.1	21.4	15.1	892	3.76	3.3	0.9	2.0	3.9	22	<0.1	0.4	0.1	72	0.28	0.036
116679	Soil		1.2	22.6	10.7	61	0.1	24.3	12.0	296	3.40	6.1	0.5	1.8	3.6	20	0.1	0.5	0.2	81	0.22	0.026
116680	Soil		1.2	28.3	9.2	54	<0.1	25.4	11.1	332	3.39	6.1	1.3	4.0	4.8	30	<0.1	0.6	0.1	66	0.28	0.019
116681	Soil		1.1	18.8	8.4	77	<0.1	21.3	10.5	558	3.59	5.9	0.4	<0.5	2.5	13	0.1	0.4	0.1	60	0.13	0.046

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
116652	Soil	12	23	0.41	418	0.055	2	1.31	0.016	0.08	0.2	0.05	3.9	<0.1	<0.05	4	1.3	<0.2
116653	Soil	15	22	0.46	452	0.058	1	1.38	0.016	0.09	0.2	0.06	4.2	<0.1	<0.05	4	0.5	<0.2
116654	Soil	15	31	0.55	195	0.071	<1	1.77	0.013	0.04	0.2	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
116655	Soil	7	31	0.62	160	0.110	<1	2.35	0.019	0.06	0.2	0.02	3.5	<0.1	<0.05	8	<0.5	<0.2
116656	Soil	7	37	0.90	151	0.075	2	2.11	0.031	0.05	0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
116657	Soil	4	47	1.12	114	0.130	<1	2.49	0.020	0.07	0.2	0.03	3.7	0.2	<0.05	6	<0.5	<0.2
116658	Soil	2	31	0.81	110	0.088	<1	1.72	0.019	0.04	0.2	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
116659	Soil	6	28	0.67	168	0.074	<1	1.68	0.012	0.07	0.2	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
116660	Soil	13	38	0.61	241	0.093	<1	1.54	0.016	0.07	0.2	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
116661	Soil	12	37	0.64	238	0.077	<1	1.37	0.017	0.07	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
116662	Soil	6	45	2.03	362	0.334	<1	3.78	0.015	1.24	<0.1	<0.01	2.9	0.4	<0.05	9	<0.5	<0.2
116663	Soil	42	66	1.22	308	0.188	<1	2.67	0.017	1.12	<0.1	<0.01	4.2	0.6	0.46	8	1.3	0.2
116664	Soil	32	39	1.06	185	0.153	<1	2.51	0.010	0.69	<0.1	0.01	4.6	0.5	<0.05	7	<0.5	<0.2
116665	Soil	21	39	0.89	262	0.106	<1	2.06	0.011	0.28	<0.1	0.02	4.4	0.3	<0.05	7	<0.5	<0.2
116666	Soil	12	32	0.54	231	0.090	<1	1.96	0.007	0.08	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
116667	Soil	15	39	0.84	402	0.075	<1	1.99	0.008	0.18	0.1	0.02	2.5	0.2	0.23	7	3.8	0.2
116668	Soil	6	117	1.81	274	0.184	<1	3.91	0.009	0.49	<0.1	0.02	9.2	0.3	<0.05	11	<0.5	<0.2
116669	Soil	18	19	0.55	172	0.107	<1	2.43	0.007	0.25	0.1	0.02	7.1	0.2	<0.05	10	<0.5	<0.2
116670	Soil	7	67	1.55	195	0.130	<1	3.37	0.012	0.15	0.2	0.02	4.2	0.1	<0.05	8	<0.5	<0.2
116671	Soil	9	83	0.97	151	0.090	<1	2.13	0.015	0.03	0.2	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
116672	Soil	14	40	0.63	304	0.085	<1	1.57	0.015	0.05	0.2	0.04	5.9	<0.1	<0.05	4	<0.5	<0.2
116673	Soil	5	27	1.49	243	0.234	<1	3.29	0.020	0.69	0.2	<0.01	3.4	0.3	<0.05	9	<0.5	<0.2
116674	Soil	8	47	0.67	203	0.089	<1	2.37	0.012	0.04	0.7	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
116675	Soil	5	42	0.95	187	0.143	<1	2.30	0.009	0.16	0.1	0.01	2.4	0.1	<0.05	6	<0.5	<0.2
116676	Soil	14	39	0.57	267	0.094	<1	1.46	0.017	0.09	0.2	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2
116677	Soil	12	33	0.81	246	0.098	<1	2.16	0.011	0.11	0.1	0.03	5.5	<0.1	<0.05	7	<0.5	<0.2
116678	Soil	27	31	0.85	288	0.107	<1	2.19	0.014	0.20	0.1	0.03	8.8	<0.1	<0.05	8	<0.5	<0.2
116679	Soil	12	42	0.73	265	0.103	<1	2.52	0.019	0.06	0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
116680	Soil	19	42	0.55	307	0.105	<1	2.11	0.019	0.11	0.1	0.14	8.4	<0.1	<0.05	6	<0.5	<0.2
116681	Soil	7	30	0.50	235	0.097	<1	2.71	0.008	0.13	0.1	0.03	2.7	0.1	<0.05	9	<0.5	<0.2

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Page: 4 of 12 Part 1

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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	
116682	Soil	1.4	30.2	8.9	51	<0.1	33.8	11.9	348	3.01	6.7	0.9	4.0	4.9	23	<0.1	0.6	0.2	69	0.30	0.016
116683	Soil	0.7	49.6	4.0	42	<0.1	31.1	15.9	328	2.67	2.5	0.4	0.9	2.8	22	<0.1	0.2	<0.1	67	0.47	0.027
116684	Soil	0.8	40.2	4.6	52	<0.1	26.1	17.5	401	3.55	4.2	0.4	<0.5	2.9	25	<0.1	0.3	<0.1	81	0.41	0.036
116685	Soil	0.8	38.3	8.9	67	0.1	29.3	12.6	275	2.63	7.1	1.0	1.1	3.8	32	0.2	0.7	0.2	56	0.48	0.070
116686	Soil	1.3	34.7	9.2	64	0.1	28.8	13.0	369	2.81	7.3	0.7	1.6	3.6	31	0.1	0.6	0.1	61	0.57	0.064
116687	Soil	1.1	31.8	7.1	55	0.1	23.0	11.2	285	2.50	4.8	0.8	2.8	3.2	31	<0.1	0.4	0.1	58	0.53	0.057
116688	Soil	0.9	27.2	7.7	49	<0.1	23.1	10.8	346	2.54	5.8	0.7	1.8	3.3	28	<0.1	0.4	0.1	61	0.48	0.051
116689	Soil	1.1	30.4	7.6	50	<0.1	23.2	10.7	331	2.44	5.9	0.6	0.8	3.4	29	<0.1	0.5	0.1	59	0.50	0.058
116690	Soil	1.1	30.2	7.6	50	<0.1	25.5	10.4	335	2.49	6.1	0.6	1.2	3.4	28	<0.1	0.5	0.1	59	0.52	0.054
116691	Soil	1.0	23.2	7.0	47	<0.1	19.8	10.2	282	2.46	6.2	0.7	2.1	2.9	31	0.1	0.4	0.1	57	0.62	0.059
116692	Soil	1.0	24.5	7.8	48	<0.1	20.4	10.3	332	2.38	5.9	0.9	1.6	3.1	33	<0.1	0.4	0.1	58	0.54	0.059
111574	Soil	1.5	22.9	6.5	146	<0.1	13.5	8.3	695	3.74	4.0	0.9	<0.5	4.4	22	<0.1	0.4	<0.1	43	0.21	0.024
111575	Soil	1.0	58.0	1.6	84	<0.1	10.5	23.5	264	2.88	0.8	0.9	0.9	3.3	424	0.1	0.1	<0.1	98	0.71	0.030
111576	Soil	0.6	12.1	9.2	59	<0.1	3.2	7.1	498	3.48	1.6	1.5	2.7	13.4	17	<0.1	0.2	0.3	54	0.47	0.048
111577	Soil	0.5	29.7	2.5	60	<0.1	11.1	18.0	384	3.92	4.7	0.3	1.5	1.1	44	<0.1	0.2	<0.1	119	0.64	0.113
111578	Soil	1.2	23.8	6.6	66	<0.1	25.4	16.5	366	3.34	7.4	0.3	1.8	1.6	36	0.1	0.3	0.1	89	0.34	0.035
111579	Soil	1.9	71.1	15.2	106	0.2	54.5	18.6	208	4.13	5.3	1.6	1.8	12.1	108	0.1	0.2	0.3	75	0.19	0.031
111580	Soil	1.0	29.0	9.0	63	<0.1	31.7	17.4	276	3.13	10.7	0.7	2.3	4.5	41	0.1	0.4	0.2	72	0.20	0.023
111581	Soil	3.0	45.2	14.3	69	0.3	31.9	10.5	379	3.52	11.3	1.3	3.0	4.9	38	0.1	0.6	0.2	76	0.34	0.051
111582	Soil	1.8	56.1	13.4	94	0.2	42.2	13.6	327	3.69	9.6	1.6	2.5	5.5	76	0.1	0.3	0.2	102	0.32	0.051
111583	Soil	1.1	34.8	10.1	62	<0.1	29.4	14.5	418	3.17	9.7	1.0	3.3	4.6	29	<0.1	0.5	0.2	75	0.32	0.040
111584	Soil	1.6	61.4	11.9	90	<0.1	30.9	12.0	290	3.39	7.9	2.5	2.9	6.1	47	0.2	0.5	0.2	75	0.21	0.036
111585	Soil	1.8	26.6	11.8	55	<0.1	28.1	11.9	263	2.95	9.6	0.7	2.0	3.8	23	<0.1	0.4	0.2	73	0.16	0.020
111586	Soil	1.1	71.0	11.3	124	<0.1	66.6	12.3	207	3.66	2.8	2.6	<0.5	7.9	239	0.2	<0.1	0.3	114	0.42	0.058
111587	Soil	4.0	81.7	12.7	158	0.3	28.6	9.9	300	4.71	3.7	2.0	<0.5	12.4	146	0.4	0.1	0.4	108	0.19	0.080
111588	Soil	1.1	34.5	10.2	54	0.2	24.4	10.5	249	2.85	9.4	1.5	2.1	4.6	20	0.1	0.5	0.2	70	0.19	0.019
111589	Soil	1.0	40.8	4.5	89	<0.1	19.6	21.4	424	4.73	4.3	0.5	<0.5	1.4	32	0.2	0.2	<0.1	131	0.44	0.070
111590	Soil	1.0	40.5	4.5	92	<0.1	20.7	20.5	437	4.48	4.8	0.4	0.8	1.3	30	0.2	0.2	<0.1	125	0.45	0.075
111591	Soil	1.5	65.5	9.6	46	0.2	14.0	7.1	171	3.53	8.5	0.6	4.7	4.5	15	<0.1	0.5	0.4	67	0.09	0.041
111592	Soil	1.3	90.7	12.6	55	0.1	21.5	11.1	203	3.49	7.4	0.9	5.9	4.0	14	0.1	0.4	0.3	90	0.17	0.039

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
116682	Soil	18	52	0.59	254	0.103	<1	1.92	0.018	0.06	0.1	0.04	7.8	<0.1	<0.05	6	<0.5	<0.2
116683	Soil	9	54	1.12	173	0.133	<1	1.75	0.024	0.08	0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
116684	Soil	14	48	1.17	269	0.169	<1	2.27	0.018	0.31	<0.1	0.01	4.4	0.2	<0.05	6	<0.5	<0.2
116685	Soil	14	32	0.66	364	0.080	<1	1.60	0.024	0.06	0.1	0.06	4.0	<0.1	<0.05	5	0.6	<0.2
116686	Soil	13	37	0.68	316	0.085	<1	1.63	0.025	0.06	0.2	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
116687	Soil	13	34	0.68	283	0.088	<1	1.76	0.023	0.06	0.2	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2
116688	Soil	12	34	0.60	275	0.090	<1	1.67	0.021	0.05	0.2	0.02	4.2	<0.1	<0.05	5	0.5	<0.2
116689	Soil	13	33	0.52	241	0.088	<1	1.48	0.019	0.05	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
116690	Soil	13	36	0.52	250	0.090	<1	1.56	0.023	0.06	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
116691	Soil	11	31	0.55	226	0.080	<1	1.53	0.023	0.05	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
116692	Soil	12	31	0.55	250	0.078	<1	1.60	0.023	0.05	0.1	0.04	3.7	<0.1	<0.05	4	0.5	<0.2
111574	Soil	21	20	0.70	257	0.138	<1	2.01	0.013	0.45	0.1	0.03	8.8	0.1	<0.05	8	<0.5	<0.2
111575	Soil	15	26	1.05	721	0.077	<1	2.45	0.075	0.29	<0.1	0.01	6.8	<0.1	<0.05	6	<0.5	<0.2
111576	Soil	45	4	0.85	158	0.119	1	1.74	0.007	0.59	<0.1	<0.01	4.5	0.3	<0.05	7	<0.5	<0.2
111577	Soil	6	12	0.95	231	0.150	2	2.30	0.062	0.27	<0.1	0.01	5.5	0.2	<0.05	6	<0.5	<0.2
111578	Soil	4	91	1.20	322	0.158	1	2.75	0.028	0.27	0.1	0.01	2.8	0.1	<0.05	7	<0.5	<0.2
111579	Soil	34	55	1.13	311	0.143	<1	3.01	0.018	0.59	<0.1	0.02	3.7	0.6	0.20	7	0.8	<0.2
111580	Soil	13	52	0.77	265	0.114	1	2.63	0.014	0.14	<0.1	0.03	3.9	0.2	<0.05	6	<0.5	<0.2
111581	Soil	18	48	0.69	368	0.089	2	1.94	0.015	0.10	0.1	0.04	5.7	0.2	0.10	5	1.0	<0.2
111582	Soil	22	78	1.25	566	0.141	<1	2.50	0.020	0.39	<0.1	0.03	7.0	0.3	0.10	8	0.5	<0.2
111583	Soil	17	40	0.67	370	0.087	1	1.99	0.013	0.06	0.1	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
111584	Soil	22	64	0.71	356	0.095	2	2.59	0.016	0.21	0.1	0.04	5.5	0.3	0.06	6	0.6	<0.2
111585	Soil	12	43	0.60	236	0.089	2	2.29	0.009	0.05	0.1	0.02	4.3	0.1	<0.05	6	<0.5	<0.2
111586	Soil	15	111	1.57	1278	0.154	<1	3.38	0.021	0.67	<0.1	0.01	7.8	0.4	<0.05	9	0.6	<0.2
111587	Soil	61	61	1.44	538	0.154	1	3.30	0.074	1.03	<0.1	<0.01	4.7	0.7	0.62	8	2.0	<0.2
111588	Soil	14	36	0.58	208	0.078	1	1.88	0.013	0.06	<0.1	0.04	4.2	0.1	<0.05	5	<0.5	<0.2
111589	Soil	6	16	0.97	382	0.240	<1	3.00	0.048	0.53	<0.1	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
111590	Soil	6	16	0.97	390	0.234	<1	2.96	0.048	0.51	<0.1	0.02	5.2	0.3	<0.05	8	<0.5	<0.2
111591	Soil	14	31	0.40	262	0.077	<1	2.02	0.014	0.18	0.2	0.03	2.6	0.2	0.17	6	0.6	<0.2
111592	Soil	11	38	0.58	183	0.090	<1	2.34	0.013	0.11	0.2	0.03	4.2	0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
111593	Soil		6.1	377.9	8.9	82	0.1	30.8	11.6	357	3.95	2.0	1.6	1.6	12.5	50	0.1	<0.1	0.2	68	0.33	0.092
111594	Soil		1.4	412.3	5.6	74	0.2	38.4	19.5	300	4.24	4.1	3.4	<0.5	10.3	57	<0.1	0.2	0.2	60	0.28	0.045
111595	Soil		1.6	15.8	10.1	50	<0.1	15.0	8.5	176	3.39	7.9	0.5	0.9	2.2	21	0.1	0.4	0.2	85	0.18	0.049
111596	Soil		1.8	25.5	9.8	99	<0.1	33.7	17.2	383	3.92	8.8	0.5	<0.5	4.6	16	0.1	0.4	0.4	93	0.21	0.046
111597	Soil		1.3	32.7	10.0	82	0.1	36.4	15.8	368	3.78	7.3	0.8	1.5	6.3	22	<0.1	0.4	0.5	92	0.21	0.020
111598	Soil		1.1	29.0	9.2	78	0.1	29.5	18.5	557	5.18	6.1	1.0	<0.5	9.3	18	<0.1	0.3	0.2	92	0.27	0.038
111599	Soil		1.4	19.0	8.6	51	<0.1	22.6	9.9	250	3.36	6.5	0.8	1.3	5.0	20	<0.1	0.3	0.2	84	0.21	0.025
111600	Soil		1.2	23.9	8.2	54	<0.1	23.1	9.9	271	2.90	6.9	0.9	8.1	5.5	23	<0.1	0.4	0.2	72	0.28	0.031
111601	Soil		1.0	26.7	8.1	54	<0.1	22.7	11.6	306	2.77	5.7	0.9	2.0	5.2	26	<0.1	0.4	0.2	66	0.36	0.035
111602	Soil		0.8	26.7	6.6	70	<0.1	24.2	12.2	378	3.26	4.5	1.1	1.0	6.8	27	0.1	0.3	0.1	74	0.41	0.042
111603	Soil		0.8	24.3	5.6	73	<0.1	29.1	13.6	400	3.49	4.6	0.8	1.5	6.1	21	<0.1	0.2	<0.1	78	0.36	0.058
111604	Soil		1.1	153.6	8.9	113	0.3	25.1	12.5	506	4.08	4.0	1.8	<0.5	12.2	27	0.1	0.2	0.5	74	0.26	0.100
111605	Soil		1.1	34.9	10.7	67	<0.1	21.8	13.6	382	3.34	5.1	1.3	0.8	7.2	25	<0.1	0.3	0.2	79	0.29	0.025
111606	Soil		1.1	34.2	9.2	70	0.1	28.0	10.7	357	2.77	8.0	0.8	1.6	4.8	29	0.3	0.7	0.2	63	0.48	0.073
111607	Soil		1.1	26.6	7.7	60	<0.1	23.6	12.2	553	2.68	8.6	0.8	1.2	5.1	36	0.1	0.6	0.2	60	0.65	0.074
122306	Soil		1.3	27.1	11.0	53	0.2	19.4	10.3	398	3.04	7.5	1.1	1.7	9.4	20	<0.1	0.4	0.4	62	0.32	0.035
122307	Soil		1.4	14.6	9.1	62	<0.1	16.7	11.7	389	3.53	7.8	0.4	0.7	3.3	15	<0.1	0.4	0.2	87	0.18	0.023
122308	Soil		0.8	15.2	9.2	90	<0.1	14.0	9.5	462	3.33	5.5	0.9	2.0	10.9	19	<0.1	0.3	0.2	53	0.24	0.021
122309	Soil		1.8	29.9	23.6	82	<0.1	21.3	8.8	222	3.08	23.8	0.9	1.7	8.9	18	0.2	0.7	0.3	67	0.16	0.019
122310	Soil		2.3	47.1	18.8	96	<0.1	18.9	12.2	566	4.06	5.2	1.1	<0.5	16.3	10	0.1	0.4	0.9	41	0.16	0.030
122311	Soil		1.2	17.7	10.8	43	<0.1	18.7	8.6	198	2.97	9.3	0.6	1.3	4.8	15	<0.1	0.5	0.2	62	0.15	0.016
122312	Soil		1.3	32.3	10.4	109	<0.1	10.2	9.5	557	3.49	2.9	1.0	<0.5	12.2	13	<0.1	0.2	0.2	46	0.20	0.036
122313	Soil		1.5	21.6	8.6	50	<0.1	15.8	8.0	262	2.90	7.1	0.8	1.1	8.5	18	<0.1	0.5	0.3	60	0.15	0.017
122314	Soil		1.1	24.0	9.2	49	<0.1	18.9	7.3	312	2.57	6.4	1.6	2.3	14.1	29	<0.1	0.8	0.3	45	0.28	0.015
122315	Soil		0.6	35.6	10.5	53	<0.1	21.9	10.5	313	2.80	8.6	1.8	3.7	8.6	26	<0.1	0.6	0.2	63	0.22	0.013
122316	Soil		1.6	13.7	11.6	42	<0.1	16.3	7.7	312	2.60	7.0	0.6	0.9	5.7	14	<0.1	0.4	0.2	59	0.13	0.018
122317	Soil		1.3	22.9	10.7	50	<0.1	19.6	8.9	291	2.78	7.7	1.7	3.8	10.5	22	<0.1	0.5	0.2	56	0.21	0.013
122318	Soil		1.1	18.3	9.4	43	<0.1	12.8	5.8	332	2.35	6.2	1.6	2.2	10.4	23	<0.1	0.6	0.2	41	0.10	0.014
122319	Soil		0.4	54.1	6.8	103	<0.1	20.7	10.0	480	3.18	2.7	0.7	<0.5	12.8	9	<0.1	0.2	0.5	47	0.16	0.012
122320	Soil		0.6	26.7	9.5	94	<0.1	10.7	9.1	509	3.55	3.6	0.7	0.7	12.0	8	<0.1	0.2	0.2	40	0.17	0.030

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Page: 5 of 12 Part 2

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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	
111593	Soil	35	49	0.98	322	0.187	<1	3.04	0.019	0.99	<0.1	0.02	2.6	0.7	0.10	7	<0.5	<0.2
111594	Soil	68	46	0.77	287	0.141	<1	2.36	0.032	0.51	0.1	0.02	3.9	0.5	0.34	6	1.0	0.2
111595	Soil	10	31	0.49	128	0.105	1	1.93	0.010	0.11	0.1	0.02	2.7	0.1	<0.05	7	<0.5	<0.2
111596	Soil	9	43	0.90	164	0.155	1	2.83	0.009	0.34	0.1	0.02	3.9	0.2	<0.05	8	<0.5	<0.2
111597	Soil	17	46	1.00	167	0.163	1	2.87	0.010	0.13	0.2	0.02	4.0	0.2	<0.05	9	<0.5	<0.2
111598	Soil	10	48	1.10	249	0.249	1	3.32	0.014	0.57	0.1	0.01	4.7	0.4	<0.05	11	<0.5	<0.2
111599	Soil	16	36	0.71	162	0.175	1	2.20	0.011	0.16	0.1	0.02	3.3	0.2	<0.05	8	<0.5	<0.2
111600	Soil	18	36	0.67	190	0.136	2	1.99	0.013	0.12	0.1	0.02	4.0	0.1	<0.05	6	<0.5	<0.2
111601	Soil	17	36	0.63	285	0.098	<1	1.68	0.013	0.07	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
111602	Soil	21	38	0.88	422	0.178	<1	1.94	0.014	0.28	<0.1	0.02	4.0	0.2	<0.05	7	<0.5	<0.2
111603	Soil	18	46	1.03	295	0.229	1	2.28	0.012	0.54	0.1	0.01	4.0	0.3	<0.05	8	<0.5	<0.2
111604	Soil	47	39	1.25	323	0.233	<1	2.46	0.010	0.86	<0.1	0.02	3.5	0.4	<0.05	9	<0.5	<0.2
111605	Soil	22	38	0.89	257	0.171	<1	2.23	0.015	0.22	<0.1	0.02	4.0	0.2	<0.05	7	<0.5	<0.2
111606	Soil	17	33	0.64	344	0.100	1	1.63	0.022	0.12	0.2	0.03	3.7	0.1	<0.05	5	<0.5	<0.2
111607	Soil	16	29	0.61	306	0.104	2	1.44	0.024	0.09	0.3	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
122306	Soil	40	32	0.64	370	0.099	2	1.69	0.011	0.15	0.2	0.04	5.7	<0.1	<0.05	6	0.6	<0.2
122307	Soil	14	31	0.91	179	0.130	1	2.14	0.007	0.09	0.1	0.01	2.8	0.2	<0.05	8	<0.5	<0.2
122308	Soil	44	24	1.06	178	0.164	1	2.19	0.009	0.33	0.2	0.01	4.6	0.3	<0.05	8	<0.5	<0.2
122309	Soil	27	39	0.47	253	0.076	2	2.17	0.011	0.06	0.1	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
122310	Soil	25	28	0.67	160	0.092	1	2.19	0.007	0.39	0.1	0.02	4.3	0.2	<0.05	6	<0.5	<0.2
122311	Soil	11	32	0.46	247	0.072	<1	1.98	0.009	0.04	0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
122312	Soil	23	16	0.74	198	0.123	<1	1.76	0.008	0.50	0.1	0.01	5.2	0.2	<0.05	8	<0.5	<0.2
122313	Soil	14	27	0.53	134	0.073	<1	1.96	0.010	0.08	0.1	0.02	3.5	0.1	<0.05	6	<0.5	<0.2
122314	Soil	52	29	0.44	310	0.031	3	1.83	0.011	0.09	<0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
122315	Soil	27	38	0.50	331	0.080	<1	1.80	0.019	0.04	0.2	0.08	8.2	<0.1	<0.05	5	<0.5	<0.2
122316	Soil	10	32	0.42	186	0.060	1	1.81	0.009	0.05	0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
122317	Soil	33	37	0.47	317	0.051	2	1.97	0.010	0.06	0.1	0.04	5.3	0.1	<0.05	5	<0.5	<0.2
122318	Soil	22	25	0.31	178	0.046	2	1.42	0.009	0.07	0.1	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2
122319	Soil	17	20	1.74	275	0.164	<1	3.00	0.009	0.63	<0.1	<0.01	2.2	0.3	<0.05	8	<0.5	<0.2
122320	Soil	15	28	1.85	213	0.198	<1	2.88	0.007	0.81	0.1	<0.01	4.7	0.3	<0.05	11	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
122321	Soil	1.2	21.4	22.1	73	<0.1	21.4	8.7	298	3.48	4.7	1.6	<0.5	13.7	15	<0.1	0.7	0.3	42	0.25	0.052
122322	Soil	1.4	17.0	10.7	86	<0.1	12.8	10.0	523	4.20	7.9	0.8	0.8	7.2	12	<0.1	0.5	0.3	61	0.18	0.024
122323	Soil	0.9	21.0	11.0	51	<0.1	19.4	10.7	262	2.87	7.8	0.7	0.8	5.8	15	<0.1	0.7	0.2	53	0.21	0.023
122324	Soil	0.9	21.0	11.4	46	<0.1	22.2	10.8	238	2.71	9.3	0.6	2.6	6.2	16	<0.1	0.6	0.2	58	0.13	0.014
122325	Soil	1.2	24.2	11.4	52	<0.1	22.3	11.7	267	3.00	9.9	0.6	1.8	6.2	18	<0.1	0.6	0.2	67	0.15	0.012
122326	Soil	0.8	74.0	25.5	62	<0.1	14.4	16.3	379	4.50	2.6	0.9	1.4	6.4	23	0.1	0.6	0.4	76	0.28	0.020
122327	Soil	1.1	20.5	11.0	51	<0.1	22.5	10.2	251	2.77	8.4	0.7	1.6	7.3	16	<0.1	0.6	0.2	58	0.13	0.014
122328	Soil	1.4	20.9	11.6	40	<0.1	16.1	6.3	308	2.28	6.2	1.5	2.1	11.6	17	<0.1	0.7	0.2	46	0.13	0.011
122329	Soil	0.9	19.4	27.6	41	<0.1	16.7	8.0	229	2.54	7.0	1.0	2.6	9.0	14	<0.1	0.6	0.3	48	0.10	0.014
122330	Soil	0.7	28.5	12.5	48	<0.1	22.4	9.2	251	2.79	10.2	1.2	2.7	6.9	24	<0.1	0.7	0.2	65	0.20	0.010
122331	Soil	0.9	21.6	11.1	50	0.1	26.9	10.4	243	2.70	10.1	0.5	3.2	4.5	15	<0.1	0.7	0.2	58	0.12	0.015
122332	Soil	0.7	19.0	10.2	46	<0.1	19.6	8.8	218	2.59	8.8	0.7	1.1	7.3	16	<0.1	0.6	0.2	57	0.13	0.013
122333	Soil	1.0	17.4	11.9	62	0.2	16.2	9.4	327	2.75	6.2	0.5	1.2	5.6	14	0.1	0.4	0.3	60	0.15	0.026
122334	Soil	1.2	19.6	11.9	46	0.2	19.0	7.2	227	3.10	11.2	0.5	0.9	6.0	12	0.1	0.6	0.2	64	0.12	0.020
122335	Soil	0.8	16.6	18.1	93	<0.1	8.8	9.1	442	3.47	4.9	0.9	1.2	13.4	10	<0.1	0.4	0.3	39	0.17	0.012
122336	Soil	0.7	20.5	16.0	81	<0.1	12.7	10.5	462	3.30	5.8	1.5	1.8	18.1	17	<0.1	0.7	0.3	43	0.25	0.033
122337	Soil	15.4	25.0	13.1	73	<0.1	12.2	10.5	422	3.46	3.6	2.0	0.8	15.6	14	<0.1	0.6	0.3	35	0.30	0.042
107661	Soil	1.0	37.7	7.6	58	0.1	14.2	7.7	207	2.39	5.1	0.9	3.6	2.0	16	0.1	0.3	0.2	56	0.24	0.046
107662	Soil	1.4	39.3	8.2	71	0.2	17.0	10.2	275	2.90	6.6	1.1	2.3	3.7	20	0.2	0.4	0.2	62	0.33	0.073
107663	Soil	1.6	271.9	6.2	136	<0.1	15.1	11.9	565	5.45	1.7	1.5	8.6	9.4	17	0.3	0.2	0.9	102	0.25	0.062
107664	Soil	3.1	37.2	11.0	104	0.1	19.0	8.6	299	3.50	7.7	1.2	1.4	5.6	70	0.1	0.4	0.2	63	0.30	0.068
107665	Soil	0.8	13.3	6.2	42	<0.1	11.6	5.8	153	2.08	4.1	0.5	1.4	1.4	15	0.1	0.2	0.1	46	0.23	0.042
107666	Soil	1.9	20.0	6.9	47	0.1	16.1	12.3	220	2.81	5.8	0.8	1.8	2.3	17	0.1	0.3	0.1	67	0.29	0.055
107667	Soil	0.9	24.3	4.7	43	<0.1	18.3	11.7	353	2.57	4.1	0.5	2.6	2.8	18	<0.1	0.3	<0.1	60	0.37	0.045
107668	Soil	1.2	27.2	7.2	54	<0.1	21.7	12.3	331	3.18	6.7	0.5	1.7	2.6	19	<0.1	0.4	0.1	79	0.27	0.043
107669	Soil	1.1	28.1	6.6	49	<0.1	22.6	11.9	375	2.85	6.5	0.7	4.7	3.7	24	<0.1	0.4	0.1	64	0.33	0.054
107670	Soil	1.0	32.7	6.6	53	<0.1	24.5	15.2	414	3.26	6.6	0.5	1.3	2.9	23	<0.1	0.4	0.1	82	0.33	0.048
107671	Soil	1.0	28.0	8.3	53	<0.1	23.9	11.2	323	2.77	7.4	0.7	2.4	2.1	29	<0.1	0.4	0.1	67	0.46	0.068
107672	Soil	0.4	15.6	2.1	46	<0.1	39.3	17.4	495	2.95	2.2	0.3	<0.5	2.5	97	<0.1	0.2	<0.1	71	0.57	0.048
107673	Soil	0.9	33.6	10.0	58	<0.1	28.7	13.2	408	2.93	10.0	0.9	6.6	5.3	20	<0.1	0.5	0.2	66	0.20	0.030

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
122321	Soil	41	29	0.78	254	0.095	3	2.06	0.007	0.35	0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
122322	Soil	8	27	1.07	195	0.154	<1	2.74	0.008	0.45	0.1	0.01	4.3	0.3	<0.05	10	<0.5	<0.2
122323	Soil	7	30	0.56	210	0.076	<1	2.15	0.008	0.11	0.1	0.02	3.0	0.1	<0.05	5	0.5	<0.2
122324	Soil	10	34	0.53	223	0.068	<1	2.14	0.009	0.04	0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
122325	Soil	15	39	0.59	259	0.088	<1	2.47	0.014	0.05	<0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
122326	Soil	21	36	0.99	532	0.116	3	2.45	0.011	0.46	0.1	0.03	7.9	0.3	<0.05	8	<0.5	<0.2
122327	Soil	9	34	0.49	269	0.092	<1	2.14	0.009	0.07	0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
122328	Soil	23	30	0.38	172	0.076	<1	1.56	0.008	0.06	<0.1	0.06	5.6	<0.1	<0.05	4	<0.5	<0.2
122329	Soil	10	25	0.40	172	0.074	1	2.17	0.008	0.09	<0.1	0.02	3.0	0.1	<0.05	5	<0.5	<0.2
122330	Soil	24	41	0.53	317	0.089	<1	1.92	0.011	0.05	0.1	0.07	6.2	<0.1	<0.05	5	<0.5	<0.2
122331	Soil	9	34	0.49	285	0.060	<1	2.23	0.008	0.04	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
122332	Soil	19	34	0.49	179	0.080	<1	1.76	0.009	0.05	0.1	0.06	2.9	<0.1	<0.05	5	<0.5	<0.2
122333	Soil	9	29	0.49	192	0.077	<1	2.03	0.011	0.09	0.2	0.03	2.2	0.2	<0.05	6	<0.5	<0.2
122334	Soil	12	29	0.48	194	0.078	<1	2.01	0.008	0.06	0.1	0.03	2.2	0.1	<0.05	6	<0.5	<0.2
122335	Soil	5	17	0.71	129	0.125	<1	2.60	0.008	0.42	0.3	0.01	2.6	0.6	<0.05	8	<0.5	<0.2
122336	Soil	64	21	0.64	271	0.122	2	2.08	0.017	0.44	0.2	0.04	3.1	0.5	<0.05	6	<0.5	<0.2
122337	Soil	23	18	0.59	185	0.114	2	1.84	0.006	0.33	0.9	0.02	2.9	0.4	<0.05	6	<0.5	<0.2
107661	Soil	15	24	0.50	138	0.083	<1	1.53	0.013	0.10	0.2	0.05	2.5	0.1	<0.05	5	<0.5	<0.2
107662	Soil	15	28	0.59	189	0.097	<1	1.63	0.015	0.14	0.2	0.04	3.1	0.1	<0.05	5	<0.5	<0.2
107663	Soil	20	25	1.31	306	0.298	<1	2.71	0.012	1.15	<0.1	0.01	4.0	0.7	0.06	8	0.6	0.2
107664	Soil	23	31	0.78	306	0.100	<1	1.78	0.013	0.32	0.2	0.03	2.8	0.3	<0.05	5	0.6	<0.2
107665	Soil	8	23	0.50	131	0.076	<1	1.40	0.013	0.05	0.3	0.05	2.3	<0.1	<0.05	5	<0.5	<0.2
107666	Soil	11	30	0.64	234	0.094	<1	1.71	0.017	0.06	0.3	0.05	3.5	<0.1	<0.05	6	<0.5	<0.2
107667	Soil	10	34	0.77	211	0.117	<1	1.62	0.017	0.13	0.4	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
107668	Soil	9	34	0.74	194	0.132	<1	1.92	0.018	0.11	0.4	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
107669	Soil	14	35	0.71	254	0.121	<1	1.74	0.018	0.09	1.3	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
107670	Soil	12	39	0.87	239	0.145	<1	2.11	0.017	0.20	0.3	0.01	4.2	0.1	<0.05	6	<0.5	<0.2
107671	Soil	13	36	0.70	301	0.090	<1	1.74	0.016	0.10	0.2	0.04	4.3	<0.1	<0.05	6	<0.5	<0.2
107672	Soil	10	104	1.54	458	0.202	<1	2.32	0.029	0.54	<0.1	<0.01	4.3	0.2	<0.05	6	<0.5	<0.2
107673	Soil	16	40	0.58	271	0.090	1	2.30	0.017	0.06	0.1	0.03	5.2	0.1	<0.05	6	<0.5	<0.2

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 Report Date: August 16, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	
107674	Soil		0.8	24.7	8.9	55	<0.1	25.5	10.8	311	2.88	7.8	0.7	1.5	3.8	24	<0.1	0.5	0.1	66	0.27	0.041
107675	Soil		0.8	22.4	7.0	48	<0.1	32.1	14.5	360	3.16	7.0	0.6	17.3	3.3	25	<0.1	0.4	0.1	76	0.31	0.045
107676	Soil		1.1	25.1	8.6	63	<0.1	29.1	17.2	381	3.64	9.3	0.4	3.0	3.5	17	0.1	0.6	0.2	83	0.25	0.034
107677	Soil		1.0	26.8	5.7	48	<0.1	19.2	15.1	394	3.24	5.0	0.5	1.8	2.5	23	<0.1	0.3	<0.1	89	0.56	0.074
107678	Soil		0.8	35.2	2.6	52	<0.1	19.6	23.2	553	4.33	2.5	0.4	1.1	2.0	25	<0.1	0.2	<0.1	121	0.54	0.064
107679	Soil		0.8	31.4	9.1	52	<0.1	24.5	10.1	305	2.76	8.6	0.7	2.7	2.2	29	<0.1	0.5	0.1	64	0.38	0.098
107680	Soil		0.8	22.6	7.5	52	<0.1	25.6	11.4	350	2.85	7.9	0.6	2.1	3.1	24	0.1	0.5	0.1	71	0.32	0.071
107681	Soil		0.8	13.7	6.3	48	<0.1	16.4	14.4	312	3.89	5.6	0.4	0.5	3.1	14	<0.1	0.4	0.1	85	0.19	0.039
107682	Soil		1.0	27.0	2.8	94	<0.1	10.1	21.6	955	6.80	1.1	0.4	1.2	0.7	51	<0.1	<0.1	<0.1	166	1.28	0.221
107683	Soil		1.1	18.0	4.6	34	<0.1	19.2	15.8	306	2.99	4.1	0.5	<0.5	3.1	26	<0.1	0.2	<0.1	84	0.50	0.026
107684	Soil		0.7	59.1	0.9	29	0.2	44.4	17.2	493	2.18	1.6	0.1	1.4	0.8	68	<0.1	<0.1	<0.1	56	0.53	0.062
107685	Soil		0.9	53.6	2.1	31	<0.1	12.9	19.0	354	3.61	4.2	0.2	0.7	0.8	26	<0.1	0.2	<0.1	94	0.51	0.072
107686	Soil		5.1	212.0	1.0	63	<0.1	32.8	28.6	614	5.59	4.1	0.4	<0.5	1.6	85	<0.1	0.2	<0.1	86	0.36	0.092
107687	Soil		0.9	26.5	8.0	49	0.3	23.2	12.1	367	2.98	9.3	0.7	3.1	3.4	19	<0.1	0.5	0.1	71	0.25	0.052
107688	Soil		0.5	27.8	5.7	66	0.3	40.4	22.1	897	4.91	6.6	0.6	2.8	2.6	30	<0.1	0.4	0.1	146	0.49	0.065
107689	Soil		0.7	31.7	7.0	58	<0.1	25.3	16.8	544	3.92	7.8	0.8	2.3	3.6	18	<0.1	0.4	0.1	104	0.29	0.044
107690	Soil		0.7	32.6	7.9	59	0.1	25.9	18.5	548	4.00	8.6	1.1	2.6	4.4	17	<0.1	0.5	0.2	105	0.26	0.033
107691	Soil		1.3	20.1	9.0	46	2.2	18.5	10.9	411	3.62	10.0	0.4	0.9	2.3	12	0.1	0.6	0.2	91	0.15	0.039
107692	Soil		0.8	13.0	5.4	35	<0.1	18.6	14.3	287	3.34	4.7	0.4	<0.5	2.2	12	<0.1	0.3	0.1	90	0.33	0.053
107693	Soil		0.8	25.0	5.7	48	<0.1	18.9	16.0	349	3.42	6.9	0.4	2.1	1.9	10	0.1	0.4	0.1	88	0.19	0.047
107694	Soil		0.9	17.6	7.1	42	<0.1	16.1	8.4	214	2.71	8.3	0.4	1.0	2.2	11	0.1	0.5	0.1	66	0.16	0.037
107695	Soil		2.0	63.7	7.2	48	<0.1	17.2	8.8	172	2.47	5.6	1.5	3.5	1.2	21	<0.1	0.3	0.2	49	0.25	0.071
107696	Soil		0.8	16.4	4.4	58	0.5	22.7	16.4	388	3.19	3.1	0.2	1.4	1.4	9	<0.1	0.2	<0.1	84	0.22	0.053
107697	Soil		0.3	23.1	2.0	29	<0.1	16.4	15.1	207	2.60	2.5	0.4	0.6	2.5	11	<0.1	0.1	<0.1	60	0.36	0.062
107698	Soil		0.7	41.0	6.5	54	<0.1	53.0	14.3	363	2.84	7.7	0.7	2.3	3.8	21	<0.1	0.4	0.1	60	0.31	0.030
107699	Soil		1.5	44.0	8.2	47	<0.1	22.2	8.5	174	3.05	8.9	0.5	3.9	3.2	12	<0.1	0.3	0.2	74	0.15	0.023
107700	Soil		0.8	37.2	4.9	45	0.6	23.6	13.3	327	2.73	5.3	0.5	<0.5	2.9	15	<0.1	0.3	<0.1	55	0.20	0.024
107701	Soil		0.5	40.7	4.8	36	<0.1	27.2	10.2	222	2.32	4.0	0.4	<0.5	1.7	14	<0.1	0.2	<0.1	60	0.24	0.028
107702	Soil		0.8	35.6	4.5	46	<0.1	15.5	10.1	254	2.77	4.3	0.8	2.1	3.1	20	<0.1	0.3	<0.1	49	0.44	0.047
107703	Soil		0.8	25.0	7.6	48	0.7	17.1	8.9	254	2.70	7.3	0.7	2.9	3.3	19	<0.1	0.4	0.1	50	0.26	0.041

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
107674	Soil	15	38	0.67	210	0.114	<1	1.96	0.014	0.06	0.1	0.02	4.7	0.1	<0.05	6	<0.5	<0.2
107675	Soil	11	51	0.97	238	0.126	<1	2.27	0.021	0.14	0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
107676	Soil	8	38	0.82	252	0.132	<1	2.56	0.017	0.10	0.2	0.01	4.1	0.1	<0.05	6	<0.5	<0.2
107677	Soil	10	28	0.93	260	0.158	<1	2.01	0.033	0.16	<0.1	0.02	4.9	0.1	<0.05	6	<0.5	<0.2
107678	Soil	12	24	1.44	328	0.235	<1	2.53	0.032	0.55	0.6	<0.01	5.4	0.3	<0.05	7	<0.5	<0.2
107679	Soil	15	34	0.58	236	0.081	<1	1.69	0.016	0.06	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
107680	Soil	14	43	0.71	151	0.106	<1	1.73	0.016	0.09	0.3	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
107681	Soil	12	23	0.88	197	0.171	<1	2.51	0.014	0.29	0.1	<0.01	2.9	0.1	<0.05	8	<0.5	<0.2
107682	Soil	6	6	2.49	326	0.224	<1	3.91	0.053	0.64	0.1	0.01	5.9	0.3	<0.05	14	<0.5	<0.2
107683	Soil	7	32	0.78	196	0.130	<1	2.31	0.041	0.10	0.1	<0.01	4.7	<0.1	<0.05	6	<0.5	<0.2
107684	Soil	4	138	1.50	315	0.095	<1	2.15	0.037	0.30	0.5	<0.01	4.3	0.1	0.05	4	<0.5	<0.2
107685	Soil	3	23	0.80	214	0.065	<1	2.22	0.031	0.07	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
107686	Soil	9	77	1.45	282	0.094	<1	3.14	0.036	0.21	<0.1	<0.01	5.9	0.1	0.15	8	0.7	<0.2
107687	Soil	13	35	0.67	254	0.067	<1	1.88	0.013	0.05	0.1	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2
107688	Soil	11	76	1.81	429	0.188	<1	3.08	0.013	0.55	0.1	0.03	7.9	0.3	<0.05	9	<0.5	<0.2
107689	Soil	13	39	1.12	196	0.106	<1	2.49	0.012	0.05	0.1	0.03	7.7	0.1	<0.05	7	<0.5	<0.2
107690	Soil	22	45	0.98	221	0.112	1	2.50	0.012	0.08	0.1	0.04	8.6	0.2	<0.05	7	<0.5	<0.2
107691	Soil	7	34	0.55	167	0.058	<1	2.32	0.010	0.04	0.2	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
107692	Soil	6	42	0.88	236	0.136	<1	2.29	0.027	0.21	0.1	0.01	4.1	0.1	<0.05	9	<0.5	<0.2
107693	Soil	7	32	0.80	113	0.095	1	2.24	0.013	0.08	0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
107694	Soil	8	26	0.44	133	0.067	<1	1.73	0.012	0.03	0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
107695	Soil	18	26	0.55	255	0.059	<1	1.63	0.012	0.09	0.1	0.07	2.8	<0.1	0.06	5	<0.5	<0.2
107696	Soil	3	45	1.24	305	0.223	<1	2.37	0.013	0.29	<0.1	<0.01	1.5	<0.1	<0.05	8	<0.5	<0.2
107697	Soil	10	27	1.00	169	0.130	2	1.92	0.027	0.19	<0.1	<0.01	2.4	0.1	<0.05	6	<0.5	<0.2
107698	Soil	11	69	0.90	300	0.099	<1	1.68	0.012	0.08	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
107699	Soil	10	38	0.53	190	0.087	<1	1.96	0.009	0.06	0.2	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
107700	Soil	11	44	0.92	231	0.134	<1	2.08	0.011	0.24	0.1	0.02	2.3	0.2	<0.05	5	<0.5	<0.2
107701	Soil	7	49	0.83	205	0.102	<1	1.71	0.016	0.12	0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
107702	Soil	17	27	0.67	286	0.108	<1	1.87	0.027	0.14	0.1	0.02	3.4	0.1	<0.05	5	<0.5	<0.2
107703	Soil	12	28	0.54	274	0.083	<1	1.75	0.013	0.08	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

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
107704	Soil	1.6	87.9	9.7	198	<0.1	8.5	19.6	480	6.48	4.2	1.0	<0.5	2.5	33	0.4	0.2	<0.1	143	0.52	0.059
107705	Soil	1.8	35.5	9.0	83	<0.1	25.5	17.1	317	3.71	8.1	1.3	3.1	3.6	23	0.3	0.4	0.1	99	0.26	0.046
107706	Soil	1.6	32.0	6.2	101	<0.1	16.8	6.7	296	4.24	2.5	2.0	1.2	9.3	27	0.1	0.1	0.7	73	0.14	0.062
107707	Soil	1.2	52.0	10.8	67	<0.1	26.8	11.5	336	3.30	10.1	2.2	4.7	6.6	16	0.2	0.5	0.2	62	0.16	0.024
107708	Soil	0.6	26.2	5.2	66	<0.1	35.0	13.2	434	3.47	5.1	0.9	0.5	8.0	73	<0.1	0.1	<0.1	51	0.49	0.018
107709	Soil	1.3	33.7	8.9	80	<0.1	53.4	19.8	340	3.25	6.0	1.6	1.2	4.3	28	<0.1	0.2	0.2	77	0.46	0.115
107710	Soil	0.6	20.9	7.4	169	<0.1	12.6	18.3	847	4.32	2.8	0.3	<0.5	2.7	15	<0.1	0.1	<0.1	106	0.16	0.019
107711	Soil	0.5	47.9	2.8	80	<0.1	13.5	24.3	918	5.65	2.5	0.4	1.0	4.5	24	<0.1	0.1	<0.1	130	0.41	0.025
107712	Soil	0.9	19.0	5.5	70	<0.1	15.1	19.1	622	4.48	5.1	0.3	0.6	3.3	14	<0.1	0.2	<0.1	115	0.20	0.027
107713	Soil	1.1	14.1	10.5	56	<0.1	12.0	7.4	292	2.59	5.3	0.9	0.9	5.6	17	<0.1	0.3	0.1	69	0.17	0.015
107714	Soil	1.2	30.0	8.1	38	<0.1	10.2	5.2	243	2.00	5.8	1.9	1.0	14.7	8	<0.1	0.3	0.1	38	0.07	0.014
107715	Soil	3.6	62.7	10.4	67	<0.1	9.3	5.0	247	2.47	6.5	3.7	<0.5	20.1	16	<0.1	0.3	0.3	39	0.20	0.023
107716	Soil	1.1	19.4	8.7	52	0.1	8.7	5.9	447	2.32	5.6	0.7	1.2	11.0	14	<0.1	0.2	0.3	49	0.18	0.039
107717	Soil	1.0	11.9	8.0	47	<0.1	4.8	9.5	696	2.17	1.4	0.5	1.4	5.0	11	0.1	0.1	0.2	50	0.12	0.033
107718	Soil	1.2	23.4	10.3	86	<0.1	14.8	9.4	431	3.35	8.4	0.5	0.8	5.6	16	0.3	0.4	0.2	79	0.19	0.023
107719	Soil	0.9	31.4	6.2	63	<0.1	16.9	15.2	539	3.73	7.3	0.3	<0.5	3.2	20	<0.1	0.3	0.1	106	0.30	0.044
107720	Soil	0.5	37.0	2.0	80	<0.1	12.5	24.2	1080	4.51	1.5	0.3	2.9	5.0	10	0.1	<0.1	0.1	115	0.18	0.057
107721	Soil	0.5	29.2	7.2	65	<0.1	13.7	12.2	496	3.07	3.3	0.7	31.2	4.4	19	<0.1	0.3	0.1	77	0.26	0.049
107722	Soil	0.4	15.3	5.2	61	<0.1	11.8	11.4	384	2.94	4.5	0.4	3.7	3.5	15	<0.1	0.3	0.1	70	0.20	0.037
107723	Soil	0.6	20.0	5.4	51	<0.1	11.4	7.6	303	2.31	4.8	0.7	3.2	3.8	18	0.1	0.4	0.2	49	0.24	0.044
107724	Soil	0.6	21.0	5.8	50	<0.1	14.9	9.8	332	2.61	5.8	0.6	8.6	3.1	19	0.2	0.3	0.2	58	0.27	0.045
117801	Soil	0.7	7.7	7.9	99	<0.1	10.5	5.5	611	2.10	4.7	0.5	2.8	1.5	20	0.2	0.3	0.2	41	0.18	0.032
117802	Soil	0.9	12.6	6.8	124	<0.1	13.8	7.1	476	3.31	7.9	0.4	1.8	2.1	9	<0.1	0.5	0.2	55	0.09	0.024
117803	Soil	0.5	20.8	5.1	294	<0.1	6.5	3.1	581	3.74	3.8	0.6	2.6	3.3	13	0.2	0.3	0.1	17	0.11	0.031
117804	Soil	0.3	14.1	49.1	583	<0.1	4.3	2.9	992	3.80	1.8	1.1	<0.5	3.8	13	0.7	0.3	0.7	16	0.19	0.037
117805	Soil	0.9	20.3	13.6	1108	<0.1	7.1	6.6	1269	3.89	10.0	1.6	1.7	5.1	16	1.5	0.3	0.2	28	0.23	0.043
117806	Soil	0.6	13.9	10.3	170	<0.1	14.0	4.7	458	2.94	4.4	0.5	1.4	2.3	13	<0.1	0.4	0.2	34	0.14	0.023
117807	Soil	0.2	17.6	1.9	175	<0.1	12.3	6.6	1339	4.25	0.7	0.7	<0.5	4.5	13	<0.1	<0.1	<0.1	40	0.23	0.035
117808	Soil	0.1	17.9	8.1	122	<0.1	5.6	9.9	593	4.16	1.6	0.5	1.9	2.1	20	<0.1	0.1	0.2	65	0.70	0.206
117809	Soil	0.5	12.2	6.7	100	<0.1	14.8	9.8	470	3.18	5.6	0.4	5.0	2.6	26	<0.1	0.4	0.1	66	0.24	0.057

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Page: 8 of 12 Part 2

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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	
107704	Soil	12	9	1.02	324	0.128	<1	3.09	0.030	0.31	<0.1	<0.01	6.7	0.1	<0.05	8	<0.5	<0.2
107705	Soil	7	30	0.68	311	0.098	<1	2.33	0.019	0.09	0.1	0.02	4.1	0.1	<0.05	7	<0.5	<0.2
107706	Soil	35	48	1.08	304	0.157	<1	2.15	0.041	0.98	<0.1	0.01	4.0	0.7	0.53	7	0.8	<0.2
107707	Soil	26	37	0.57	288	0.083	2	2.24	0.010	0.09	0.1	0.04	5.2	0.1	<0.05	6	<0.5	<0.2
107708	Soil	14	45	0.93	355	0.232	<1	3.38	0.034	0.78	<0.1	<0.01	2.8	0.6	<0.05	8	<0.5	<0.2
107709	Soil	18	65	1.12	536	0.121	<1	2.27	0.018	0.26	0.1	0.02	3.6	0.3	0.06	7	<0.5	<0.2
107710	Soil	6	24	1.68	308	0.241	<1	3.26	0.013	1.19	0.1	<0.01	1.4	0.5	<0.05	8	<0.5	<0.2
107711	Soil	12	33	2.22	248	0.259	<1	3.65	0.023	1.32	<0.1	<0.01	3.3	0.5	<0.05	9	<0.5	<0.2
107712	Soil	4	37	1.79	215	0.246	<1	3.12	0.011	0.84	0.1	<0.01	2.3	0.3	<0.05	8	<0.5	<0.2
107713	Soil	15	27	0.59	163	0.095	<1	1.67	0.011	0.09	0.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
107714	Soil	5	20	0.30	87	0.038	2	1.39	0.007	0.07	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
107715	Soil	9	16	0.38	102	0.037	<1	2.20	0.005	0.16	0.1	0.02	2.4	0.2	0.06	7	<0.5	<0.2
107716	Soil	7	17	0.44	212	0.061	<1	1.48	0.005	0.18	0.1	0.01	2.1	0.1	<0.05	6	<0.5	<0.2
107717	Soil	6	12	0.53	142	0.116	<1	1.54	0.007	0.36	0.1	<0.01	1.6	0.2	0.06	7	<0.5	<0.2
107718	Soil	7	28	0.76	178	0.115	<1	2.10	0.007	0.30	0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
107719	Soil	5	41	1.08	204	0.153	<1	2.28	0.010	0.46	0.2	<0.01	2.9	0.2	0.05	7	<0.5	<0.2
107720	Soil	5	33	1.97	227	0.240	3	2.89	0.011	1.67	0.1	0.01	2.1	0.5	<0.05	7	<0.5	<0.2
107721	Soil	10	28	0.98	214	0.129	4	1.76	0.012	0.59	0.2	0.02	3.8	0.2	<0.05	5	<0.5	<0.2
107722	Soil	10	27	0.87	155	0.132	6	1.65	0.010	0.35	0.2	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
107723	Soil	11	22	0.58	171	0.088	5	1.31	0.011	0.13	0.2	0.03	2.9	0.1	<0.05	4	<0.5	<0.2
107724	Soil	10	23	0.69	169	0.109	4	1.64	0.010	0.20	0.2	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
117801	Soil	4	17	0.51	223	0.050	3	1.70	0.007	0.18	<0.1	0.01	1.9	0.1	<0.05	6	<0.5	<0.2
117802	Soil	5	22	0.71	160	0.111	2	2.08	0.006	0.34	<0.1	<0.01	4.7	0.3	<0.05	9	<0.5	<0.2
117803	Soil	8	8	0.37	163	0.134	5	1.61	0.006	0.50	<0.1	<0.01	10.3	0.4	<0.05	9	0.7	<0.2
117804	Soil	29	3	0.49	230	0.164	2	1.54	0.007	0.76	<0.1	0.25	11.8	0.4	<0.05	11	<0.5	<0.2
117805	Soil	27	10	0.60	220	0.095	3	1.52	0.007	0.47	<0.1	0.08	7.3	0.2	<0.05	9	2.4	<0.2
117806	Soil	7	21	0.45	141	0.058	2	1.46	0.007	0.18	<0.1	0.05	5.9	0.1	<0.05	7	1.5	<0.2
117807	Soil	23	24	1.41	204	0.230	2	2.14	0.008	1.23	<0.1	0.03	6.2	0.3	<0.05	13	1.7	<0.2
117808	Soil	15	7	1.51	416	0.129	2	2.10	0.019	0.67	0.1	0.02	7.6	0.3	<0.05	11	1.8	<0.2
117809	Soil	8	19	0.95	232	0.138	2	1.88	0.009	0.56	0.1	0.02	3.1	0.2	<0.05	8	0.9	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
117810	Soil		0.2	22.6	3.6	159	<0.1	10.5	7.7	1052	4.25	2.9	0.9	1.6	4.6	14	<0.1	0.4	0.1	53	0.21	0.058
117811	Soil		0.4	20.8	11.3	91	<0.1	3.6	8.1	743	4.46	1.4	0.6	2.0	2.2	18	0.2	0.5	<0.1	33	0.31	0.052
117812	Soil		0.4	34.3	2.3	114	<0.1	18.1	18.8	908	5.07	2.4	0.4	1.6	1.1	19	0.1	0.2	<0.1	125	0.52	0.144
117813	Soil		0.2	31.9	2.0	57	<0.1	15.7	12.8	303	2.28	2.1	0.2	<0.5	0.9	21	<0.1	0.1	<0.1	56	0.41	0.072
117814	Soil		0.3	43.9	2.5	90	<0.1	17.2	15.6	396	3.30	2.7	0.3	2.7	1.0	25	0.1	0.2	<0.1	86	0.46	0.072
117815	Soil		0.2	34.1	5.0	113	<0.1	6.7	10.7	533	3.60	2.7	0.9	2.3	2.1	30	<0.1	0.4	<0.1	75	0.34	0.083
117816	Soil		0.7	36.8	6.8	71	<0.1	27.4	15.0	476	3.27	5.0	0.4	2.7	1.8	16	<0.1	0.3	0.1	82	0.36	0.084
117817	Soil		0.1	45.1	3.3	65	<0.1	19.0	15.9	451	3.15	1.7	0.3	1.2	0.8	16	<0.1	0.3	<0.1	83	0.47	0.090
117818	Soil		0.7	17.3	7.5	100	<0.1	17.6	11.1	400	2.90	5.9	0.2	<0.5	2.0	20	0.1	0.3	0.1	66	0.19	0.035
117819	Soil		0.3	23.8	5.6	88	<0.1	19.2	10.7	478	3.09	6.0	0.5	1.0	1.8	37	<0.1	0.3	<0.1	58	0.54	0.148
117820	Soil		0.1	45.3	1.8	116	<0.1	8.4	17.0	857	4.02	0.7	0.5	0.8	1.4	33	<0.1	0.2	<0.1	104	0.81	0.153
117821	Soil		0.5	25.7	5.1	61	<0.1	39.4	16.7	601	4.23	4.2	0.5	3.4	3.2	36	<0.1	0.4	<0.1	61	0.72	0.082
117822	Soil		0.7	12.0	2.3	116	<0.1	6.9	5.5	1054	3.92	2.8	0.7	1.1	3.1	12	<0.1	0.3	<0.1	35	0.22	0.048
117823	Soil		0.8	12.3	2.6	153	<0.1	6.9	4.2	1122	4.06	1.8	0.6	0.6	3.9	11	<0.1	0.1	<0.1	34	0.17	0.036
117824	Soil		1.2	10.9	6.2	114	0.1	17.4	11.2	2109	3.03	3.3	0.3	1.5	2.6	20	<0.1	0.3	0.1	52	0.26	0.053
117825	Soil		0.4	6.3	5.0	47	<0.1	1.1	2.0	387	5.12	5.0	0.7	2.7	2.2	9	<0.1	0.2	0.2	5	0.08	0.016
117826	Soil		2.8	36.1	4.7	90	0.2	2.7	3.4	573	4.87	4.6	0.5	1.9	1.9	14	<0.1	0.2	0.2	29	0.09	0.022
117827	Soil		1.1	22.4	17.6	635	<0.1	5.4	7.0	993	3.73	1.8	0.6	2.0	2.1	11	1.0	0.2	<0.1	37	0.25	0.046
117828	Soil		0.6	15.8	6.7	102	<0.1	12.1	4.5	428	2.59	4.1	0.5	2.8	2.5	18	<0.1	0.2	0.1	39	0.21	0.023
117829	Soil		0.9	21.0	9.3	159	<0.1	10.7	4.0	552	3.61	4.0	0.6	2.7	4.4	14	<0.1	0.5	0.1	29	0.15	0.010
117830	Soil		0.6	27.0	12.1	95	<0.1	17.5	7.0	490	2.99	3.6	0.5	3.7	3.0	22	<0.1	0.4	0.1	44	0.31	0.015
117831	Soil		0.4	17.4	6.7	111	<0.1	9.0	4.1	403	2.48	2.9	0.5	3.2	2.8	15	<0.1	0.2	0.1	26	0.19	0.009
117832	Soil		0.5	22.3	24.9	106	<0.1	7.9	8.7	662	4.54	2.4	0.7	0.8	2.6	18	<0.1	0.3	0.3	49	0.43	0.106
117833	Soil		0.7	33.2	13.0	108	<0.1	21.4	9.9	639	3.39	5.8	0.6	2.7	3.8	30	0.1	0.5	0.1	57	0.45	0.058
117834	Soil		0.5	26.0	21.4	139	<0.1	10.3	3.6	604	3.86	4.7	0.7	2.7	3.7	16	<0.1	0.4	0.2	25	0.20	0.024
103724	Soil		7.4	51.4	9.2	92	<0.1	24.1	16.9	406	4.39	5.2	0.7	<0.5	1.2	33	0.1	0.4	0.3	127	0.56	0.082
103725	Soil		2.4	23.0	8.0	90	0.1	25.6	13.0	589	3.48	7.7	0.4	1.6	2.0	26	0.1	0.4	0.1	69	0.48	0.097
103726	Soil		1.3	17.2	15.2	131	0.1	10.6	9.1	605	6.28	5.1	0.8	6.1	2.9	25	0.1	2.4	0.2	35	0.44	0.120
103727	Soil		1.2	20.8	10.4	51	<0.1	24.1	8.7	277	3.21	9.6	0.6	2.4	4.1	21	<0.1	0.5	0.2	67	0.20	0.027
103728	Soil		0.2	18.0	7.6	159	<0.1	6.5	15.7	470	4.52	2.3	0.3	<0.5	1.4	53	<0.1	0.1	<0.1	128	0.41	0.050

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 9 of 12 Part 2

# CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
117810	Soil	32	11	1.10	238	0.157	2	2.04	0.008	0.92	<0.1	0.03	12.9	0.3	<0.05	11	<0.5	<0.2
117811	Soil	19	4	0.79	322	0.027	4	2.02	0.006	0.37	<0.1	0.06	11.2	0.1	<0.05	7	1.6	<0.2
117812	Soil	6	22	1.69	242	0.154	2	2.31	0.014	0.86	0.2	0.03	9.0	0.3	<0.05	10	0.7	<0.2
117813	Soil	3	18	0.95	118	0.106	2	1.47	0.024	0.36	<0.1	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
117814	Soil	8	19	1.04	155	0.141	2	1.68	0.031	0.19	0.2	0.02	3.9	0.2	<0.05	6	<0.5	<0.2
117815	Soil	10	9	1.10	116	0.115	3	1.88	0.016	0.43	<0.1	<0.01	5.9	0.2	<0.05	9	<0.5	<0.2
117816	Soil	5	51	1.09	192	0.128	2	1.94	0.017	0.43	0.1	0.01	3.9	0.1	<0.05	7	<0.5	<0.2
117817	Soil	6	43	1.33	219	0.150	<1	1.76	0.022	0.44	<0.1	0.01	4.5	0.2	<0.05	6	<0.5	<0.2
117818	Soil	5	28	0.76	136	0.104	2	1.92	0.013	0.10	0.1	<0.01	2.6	0.1	<0.05	7	<0.5	<0.2
117819	Soil	5	30	0.98	150	0.105	2	1.72	0.017	0.34	<0.1	<0.01	4.2	0.1	<0.05	7	<0.5	<0.2
117820	Soil	6	11	1.77	282	0.168	1	2.01	0.023	0.56	<0.1	0.06	5.2	0.3	<0.05	10	1.2	<0.2
117821	Soil	16	58	1.26	173	0.110	2	1.94	0.057	0.17	<0.1	0.05	7.9	0.1	<0.05	6	<0.5	<0.2
117822	Soil	13	8	0.97	298	0.165	2	1.88	0.008	0.93	<0.1	0.02	11.2	0.2	<0.05	11	<0.5	<0.2
117823	Soil	8	10	1.44	307	0.190	1	2.23	0.007	1.37	<0.1	0.02	12.2	0.3	<0.05	15	0.6	<0.2
117824	Soil	9	21	0.63	541	0.119	2	1.88	0.009	0.38	0.1	<0.01	4.9	0.2	<0.05	8	1.2	<0.2
117825	Soil	7	2	1.20	325	0.107	<1	2.33	0.017	1.33	<0.1	0.01	4.9	0.3	<0.05	11	0.6	<0.2
117826	Soil	9	5	1.05	323	0.164	3	2.22	0.021	1.21	<0.1	<0.01	4.1	0.5	0.56	9	1.1	<0.2
117827	Soil	14	5	0.92	264	0.199	1	1.67	0.014	0.77	<0.1	0.03	8.9	0.4	<0.05	9	0.7	<0.2
117828	Soil	9	19	0.49	216	0.117	2	1.46	0.008	0.32	0.1	0.01	4.8	0.2	<0.05	7	0.7	<0.2
117829	Soil	23	15	0.47	163	0.144	<1	1.91	0.008	0.33	<0.1	0.02	7.6	0.3	<0.05	10	<0.5	<0.2
117830	Soil	18	31	0.63	169	0.126	<1	1.57	0.016	0.22	0.1	0.03	7.0	0.2	<0.05	7	<0.5	<0.2
117831	Soil	11	12	0.39	142	0.121	<1	1.18	0.010	0.31	<0.1	0.01	4.5	0.3	<0.05	6	<0.5	<0.2
117832	Soil	11	11	0.58	196	0.153	<1	1.34	0.017	0.41	<0.1	<0.01	9.0	0.2	<0.05	8	<0.5	<0.2
117833	Soil	13	22	0.60	263	0.162	<1	1.73	0.031	0.27	0.1	0.03	7.3	0.2	<0.05	7	<0.5	<0.2
117834	Soil	12	10	0.44	162	0.139	<1	1.42	0.008	0.43	<0.1	0.01	10.5	0.2	<0.05	8	<0.5	<0.2
103724	Soil	4	44	1.42	226	0.233	<1	2.45	0.029	0.58	0.1	0.01	5.2	0.2	<0.05	9	<0.5	<0.2
103725	Soil	6	37	0.92	194	0.116	2	2.13	0.022	0.15	0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
103726	Soil	18	17	0.41	351	0.038	3	1.73	0.008	0.15	<0.1	0.39	16.5	0.1	<0.05	6	<0.5	<0.2
103727	Soil	10	39	0.50	259	0.082	<1	2.46	0.013	0.06	0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
103728	Soil	8	13	1.82	546	0.331	<1	2.90	0.014	1.12	<0.1	<0.01	2.1	0.3	<0.05	11	<0.5	<0.2





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Project: Rosebute  
 Report Date: August 16, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	%	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
103729	Soil	0.8	23.3	9.3	69	<0.1	19.4	9.0	384	3.17	6.4	0.8	2.8	5.2	21	<0.1	0.5	0.1	61	0.21	0.018
103730	Soil	0.8	40.2	11.3	212	0.1	24.3	10.5	475	3.29	9.8	0.8	3.7	5.1	34	0.2	0.7	0.2	71	0.37	0.033
103731	Soil	0.9	36.4	10.5	118	<0.1	13.2	6.6	808	3.63	4.4	1.2	4.4	5.3	27	<0.1	0.8	0.2	56	0.31	0.043
103732	Soil	0.8	13.4	9.6	69	<0.1	14.8	7.8	236	2.65	7.6	0.8	4.3	3.4	18	<0.1	0.4	0.1	60	0.13	0.022
103733	Soil	1.4	13.6	4.9	152	<0.1	15.2	12.3	841	4.76	1.8	0.7	2.0	5.1	10	<0.1	0.3	<0.1	47	0.11	0.034
103734	Soil	2.4	29.4	17.2	249	<0.1	37.1	10.9	631	5.98	5.0	1.1	1.6	2.7	16	0.2	0.6	0.3	70	0.17	0.025
103735	Soil	1.0	17.6	9.2	70	<0.1	20.1	10.6	369	3.46	8.5	0.6	2.4	4.4	20	<0.1	0.5	0.1	61	0.18	0.024
103736	Soil	1.2	18.3	33.0	75	0.1	13.9	5.4	290	2.92	5.3	0.8	3.8	3.1	19	0.2	0.4	0.4	46	0.20	0.034
103737	Soil	2.9	20.9	18.6	172	<0.1	14.3	7.9	560	4.97	9.2	0.6	1.4	2.5	14	0.2	0.6	0.3	54	0.14	0.069
103738	Soil	1.2	17.8	18.7	137	<0.1	11.1	8.4	484	3.28	3.7	0.6	0.8	3.1	20	0.1	0.5	0.2	50	0.19	0.034
103739	Soil	1.0	24.5	8.2	115	<0.1	18.1	9.4	439	3.26	6.0	0.8	2.6	5.6	15	0.1	0.6	0.1	47	0.13	0.021
103740	Soil	1.0	22.7	6.3	168	<0.1	12.8	6.4	505	3.64	4.2	0.8	1.7	4.7	12	0.1	0.4	0.1	32	0.11	0.018
103741	Soil	0.8	9.7	11.2	44	<0.1	10.7	4.9	147	2.52	7.2	0.6	2.2	2.9	19	0.1	0.4	0.3	56	0.17	0.020
103742	Soil	1.4	10.5	11.4	47	0.1	9.4	6.5	339	2.95	8.8	0.4	0.9	2.4	11	<0.1	0.4	0.3	81	0.11	0.076
103743	Soil	1.7	12.9	9.6	55	0.1	12.4	8.0	649	3.37	9.3	0.5	<0.5	2.3	13	0.1	0.7	0.3	69	0.12	0.045
103744	Soil	0.9	60.7	5.6	57	<0.1	21.1	13.2	342	3.53	5.7	0.4	1.9	2.1	16	<0.1	0.9	0.1	96	0.28	0.030
103745	Soil	1.0	36.4	7.8	46	<0.1	17.9	9.9	295	2.81	7.5	0.9	1.8	3.3	24	<0.1	0.6	0.1	66	0.33	0.036
103746	Soil	0.8	35.3	7.8	60	<0.1	16.4	13.7	356	3.85	6.8	0.4	1.5	2.3	22	<0.1	0.6	0.1	102	0.35	0.035
103747	Soil	0.9	20.0	6.8	51	<0.1	12.5	9.2	290	3.10	6.9	0.5	0.9	2.4	21	<0.1	0.5	0.1	79	0.35	0.032
103748	Soil	1.0	27.1	6.7	58	<0.1	15.2	11.7	375	3.20	6.6	1.0	1.4	3.6	24	<0.1	0.5	0.1	75	0.42	0.056
103750	Soil	0.9	22.2	7.1	60	<0.1	13.6	9.4	361	2.84	6.0	1.1	0.7	3.7	26	<0.1	0.5	0.1	62	0.54	0.054
103751	Soil	0.9	20.7	7.0	54	<0.1	14.0	8.2	319	2.57	6.0	1.1	4.9	3.5	30	<0.1	0.4	0.1	60	0.46	0.051
103752	Soil	1.0	18.4	7.3	51	0.1	13.5	8.1	274	2.52	5.5	0.8	2.3	3.1	27	<0.1	0.4	0.1	57	0.44	0.048
103753	Soil	0.8	20.4	5.8	56	<0.1	12.3	9.1	386	2.81	5.5	0.9	1.3	3.9	25	<0.1	0.3	<0.1	61	0.39	0.052
103754	Soil	0.7	19.5	6.2	48	<0.1	12.0	8.1	290	2.31	5.3	0.9	0.6	3.7	24	<0.1	0.4	0.1	53	0.40	0.055
103755	Soil	0.7	27.8	6.6	55	<0.1	14.6	8.0	271	2.52	7.4	1.0	1.6	3.8	28	<0.1	0.4	0.1	55	0.41	0.046
103756	Soil	0.6	30.8	5.6	51	<0.1	12.7	9.8	287	2.70	5.3	0.8	0.8	2.9	27	<0.1	0.3	<0.1	63	0.43	0.045
103757	Soil	0.6	105.0	3.0	82	<0.1	21.4	22.6	1101	5.26	2.8	0.9	<0.5	1.5	32	0.1	0.2	<0.1	178	0.75	0.087
103758	Soil	0.7	79.9	5.9	71	<0.1	18.5	19.8	466	4.82	6.8	0.9	0.8	2.5	34	0.1	0.4	<0.1	133	0.59	0.046
103759	Soil	0.9	90.8	6.9	84	<0.1	22.9	25.0	928	5.24	4.1	0.7	1.1	1.4	43	0.1	1.3	0.1	127	0.64	0.055

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
103729	Soil	26	36	0.61	265	0.128	<1	2.06	0.016	0.16	0.1	0.05	6.6	<0.1	<0.05	7	<0.5	<0.2
103730	Soil	21	38	0.58	313	0.130	<1	2.26	0.017	0.09	0.1	0.11	7.8	0.1	<0.05	7	<0.5	<0.2
103731	Soil	31	18	0.50	254	0.066	<1	1.82	0.009	0.13	0.2	0.14	12.0	0.1	<0.05	8	<0.5	<0.2
103732	Soil	8	33	0.50	156	0.097	<1	2.09	0.008	0.10	<0.1	0.01	3.1	0.1	<0.05	7	<0.5	<0.2
103733	Soil	6	24	0.87	167	0.208	<1	2.21	0.010	0.67	0.1	0.04	12.4	0.5	<0.05	12	<0.5	<0.2
103734	Soil	6	64	0.94	170	0.163	<1	2.85	0.007	0.31	<0.1	0.03	16.2	0.4	<0.05	14	0.5	<0.2
103735	Soil	11	31	0.60	188	0.122	1	2.17	0.017	0.15	0.1	0.02	5.0	0.1	<0.05	7	<0.5	<0.2
103736	Soil	14	24	0.37	171	0.064	<1	1.62	0.010	0.10	0.1	0.02	6.2	0.1	<0.05	6	<0.5	<0.2
103737	Soil	8	26	0.49	178	0.114	<1	2.27	0.011	0.26	0.1	0.04	7.3	0.2	<0.05	9	<0.5	<0.2
103738	Soil	10	16	0.59	236	0.118	<1	2.20	0.009	0.17	<0.1	0.02	4.9	0.2	<0.05	9	<0.5	<0.2
103739	Soil	11	30	0.47	233	0.114	<1	2.22	0.016	0.16	<0.1	0.03	6.7	0.2	<0.05	7	<0.5	<0.2
103740	Soil	10	21	0.44	207	0.151	<1	2.02	0.008	0.26	<0.1	0.02	9.0	0.2	<0.05	8	0.5	<0.2
103741	Soil	10	22	0.30	214	0.058	2	1.44	0.010	0.05	0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
103742	Soil	9	25	0.29	133	0.057	1	1.61	0.008	0.04	0.2	<0.01	2.0	<0.1	<0.05	8	<0.5	<0.2
103743	Soil	8	26	0.36	145	0.056	1	1.63	0.008	0.08	0.2	0.04	3.4	<0.1	<0.05	8	<0.5	<0.2
103744	Soil	6	36	0.80	117	0.113	2	1.99	0.022	0.07	<0.1	0.12	5.2	<0.1	<0.05	6	<0.5	<0.2
103745	Soil	12	29	0.55	244	0.078	1	1.62	0.019	0.04	0.1	0.11	5.4	<0.1	<0.05	5	<0.5	<0.2
103746	Soil	6	25	0.80	203	0.121	<1	2.19	0.021	0.12	0.1	0.04	4.7	<0.1	<0.05	7	<0.5	<0.2
103747	Soil	9	21	0.60	178	0.112	<1	1.63	0.020	0.05	0.1	0.06	4.0	<0.1	<0.05	6	<0.5	<0.2
103748	Soil	14	25	0.68	261	0.114	2	1.73	0.022	0.10	0.2	0.06	5.8	<0.1	<0.05	6	<0.5	<0.2
103750	Soil	14	22	0.58	245	0.098	1	1.57	0.018	0.14	0.2	0.04	5.4	<0.1	<0.05	5	<0.5	<0.2
103751	Soil	14	23	0.54	275	0.090	1	1.58	0.020	0.05	0.2	0.06	4.7	<0.1	<0.05	5	<0.5	<0.2
103752	Soil	13	21	0.52	230	0.091	1	1.60	0.022	0.06	0.2	0.05	4.1	<0.1	<0.05	5	<0.5	<0.2
103753	Soil	13	22	0.59	259	0.115	2	1.47	0.016	0.18	0.1	0.11	5.8	<0.1	<0.05	6	<0.5	<0.2
103754	Soil	13	20	0.51	215	0.095	1	1.31	0.018	0.13	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
103755	Soil	14	26	0.55	231	0.089	1	1.44	0.017	0.06	0.2	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
103756	Soil	12	22	0.72	213	0.091	1	1.51	0.021	0.09	<0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
103757	Soil	10	27	1.79	351	0.135	<1	2.73	0.047	0.67	<0.1	<0.01	12.3	0.1	<0.05	10	<0.5	<0.2
103758	Soil	10	19	1.18	296	0.154	<1	2.50	0.025	0.46	<0.1	0.01	9.4	<0.1	<0.05	8	<0.5	<0.2
103759	Soil	6	24	1.48	337	0.097	3	2.52	0.022	0.61	<0.1	0.03	15.7	0.2	<0.05	7	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
103760	Soil	0.8	24.0	5.6	64	<0.1	16.4	8.8	320	2.99	9.2	0.8	1.2	4.6	23	<0.1	0.4	0.2	47	0.28	0.034
103761	Soil	0.7	16.0	5.5	37	<0.1	19.0	9.1	256	2.23	6.4	0.4	<0.5	1.7	15	<0.1	0.3	0.2	56	0.21	0.050
103762	Soil	0.4	33.5	3.4	50	<0.1	29.2	14.2	356	2.97	3.6	0.4	1.5	2.2	20	<0.1	0.2	<0.1	71	0.35	0.043
103763	Soil	0.7	25.6	7.2	54	<0.1	18.8	9.0	262	2.77	7.1	0.8	1.6	3.5	24	<0.1	0.5	0.1	54	0.31	0.051
103764	Soil	0.8	36.8	5.9	239	<0.1	8.3	17.1	383	5.31	2.9	0.5	1.2	2.8	26	0.3	0.1	0.1	128	0.43	0.112
103765	Soil	0.8	15.5	5.1	76	<0.1	10.9	8.2	385	3.23	4.5	0.6	0.7	3.2	17	0.1	0.3	0.1	49	0.24	0.053
103766	Soil	4.7	74.0	11.6	119	0.7	10.8	4.2	191	4.33	2.5	2.7	0.5	11.7	132	0.2	0.1	0.4	71	0.19	0.103
103767	Soil	1.5	33.0	6.2	232	<0.1	31.4	17.0	604	4.68	3.3	1.5	<0.5	4.7	96	0.3	0.2	0.2	87	0.53	0.060
103768	Soil	1.0	33.1	18.3	311	<0.1	33.1	12.4	592	3.88	5.6	1.2	14.7	11.0	29	0.7	0.3	0.7	57	0.51	0.035
103769	Soil	2.0	54.2	6.5	67	0.1	22.9	11.1	261	3.65	4.8	2.2	1.5	17.0	33	<0.1	0.3	0.2	41	0.28	0.046
103770	Soil	0.7	61.6	6.1	92	<0.1	19.8	11.0	325	3.28	2.9	2.3	2.4	9.5	100	0.2	0.2	0.4	50	0.70	0.050
103771	Soil	1.4	29.3	11.9	77	0.1	19.5	7.2	158	2.95	8.4	1.2	2.2	2.3	20	0.4	0.4	0.3	75	0.19	0.059
103772	Soil	0.6	38.2	4.0	156	<0.1	19.2	16.3	604	4.29	0.7	1.0	1.0	3.0	61	0.3	<0.1	0.1	107	0.93	0.141
103773	Soil	0.9	19.5	8.8	80	<0.1	16.3	9.2	247	2.82	7.1	1.0	1.6	3.8	20	0.2	0.3	0.2	65	0.21	0.055
103774	Soil	1.2	144.2	7.1	98	0.1	26.9	12.1	357	3.77	3.8	2.0	5.8	11.5	31	0.2	0.2	0.9	62	0.33	0.087
103775	Soil	0.9	66.1	14.8	134	<0.1	25.8	13.3	576	4.06	2.4	2.6	1.5	16.7	75	0.2	0.2	0.2	49	0.37	0.041
103776	Soil	1.2	30.9	8.5	77	<0.1	30.6	13.9	331	4.09	5.9	1.6	<0.5	10.7	47	0.1	0.3	0.2	58	0.32	0.057
103777	Soil	2.6	101.9	24.3	122	<0.1	42.3	17.1	498	3.88	8.8	2.3	1.7	8.4	32	0.2	0.4	0.3	74	0.33	0.051
103778	Soil	1.1	60.0	7.6	134	<0.1	35.8	20.2	444	4.38	5.6	1.3	1.9	11.4	36	0.2	0.3	0.2	62	0.35	0.039
103779	Soil	0.9	36.2	8.6	73	<0.1	33.5	17.1	325	2.82	8.2	1.0	2.7	6.7	21	0.2	0.4	0.2	54	0.25	0.057
103780	Soil	2.3	69.4	14.1	65	0.1	28.1	11.3	274	3.19	8.0	1.6	0.7	3.9	28	0.2	0.5	0.2	75	0.14	0.033
103781	Soil	1.6	66.0	9.7	142	<0.1	41.4	17.5	437	4.29	7.7	1.8	6.2	3.6	28	0.2	0.4	0.2	100	0.28	0.084
103782	Soil	1.8	81.3	10.2	150	<0.1	39.8	23.7	608	3.87	4.5	1.4	1.5	4.0	28	0.2	0.3	0.2	113	0.32	0.083
103783	Soil	1.0	33.6	6.7	86	<0.1	37.3	14.7	445	3.80	5.2	1.2	10.0	7.9	39	0.2	0.2	0.1	83	0.22	0.066
103784	Soil	1.8	69.0	5.9	46	<0.1	29.1	12.1	299	2.98	1.3	2.1	0.7	5.5	76	0.1	<0.1	0.1	67	0.18	0.073
103785	Soil	0.9	51.7	8.1	145	<0.1	63.8	19.9	658	4.85	1.5	3.1	<0.5	21.7	35	0.1	<0.1	0.1	66	0.32	0.051
103786	Soil	1.6	36.6	16.8	55	<0.1	45.2	11.5	264	3.24	9.8	1.1	2.1	4.9	23	0.1	0.5	0.2	65	0.15	0.030
103787	Soil	2.1	27.9	14.5	72	<0.1	23.6	12.0	804	3.58	8.2	1.4	0.7	11.4	31	0.1	0.3	0.3	66	0.16	0.179
103788	Soil	1.2	25.1	10.8	77	<0.1	20.0	10.5	581	2.87	6.4	1.2	0.6	9.6	25	0.1	0.3	0.1	55	0.27	0.039
103789	Soil	0.9	18.5	8.0	82	<0.1	13.8	8.8	445	2.80	4.5	1.3	3.1	10.5	23	<0.1	0.2	0.1	55	0.26	0.032

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Page: 11 of 12 Part 2

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WHI11000791.1

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	
103760	Soil	14	22	0.52	186	0.080	<1	1.42	0.012	0.12	<0.1	0.01	6.9	0.1	<0.05	5	<0.5	<0.2
103761	Soil	8	38	0.61	155	0.095	1	1.56	0.011	0.13	0.2	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
103762	Soil	8	69	1.17	306	0.165	<1	2.25	0.024	0.40	0.1	<0.01	3.9	0.2	<0.05	6	<0.5	<0.2
103763	Soil	14	29	0.59	255	0.099	1	1.78	0.017	0.07	0.2	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
103764	Soil	14	12	1.61	363	0.122	<1	2.78	0.027	0.35	<0.1	<0.01	8.3	<0.1	<0.05	11	<0.5	<0.2
103765	Soil	12	18	0.68	203	0.111	1	1.75	0.013	0.26	0.1	<0.01	6.4	<0.1	<0.05	7	<0.5	<0.2
103766	Soil	56	23	0.79	252	0.094	<1	1.71	0.069	0.72	<0.1	<0.01	2.8	0.6	0.90	6	5.6	0.2
103767	Soil	8	25	1.37	650	0.273	<1	3.67	0.047	1.05	<0.1	<0.01	4.9	0.5	<0.05	10	0.6	<0.2
103768	Soil	40	46	0.83	335	0.141	<1	2.67	0.039	0.27	<0.1	<0.01	5.0	0.2	<0.05	8	<0.5	0.2
103769	Soil	55	29	0.63	193	0.155	<1	2.09	0.023	0.55	<0.1	0.01	3.2	0.4	0.14	6	<0.5	<0.2
103770	Soil	29	33	0.76	393	0.127	<1	2.50	0.057	0.42	<0.1	0.01	5.7	0.3	<0.05	7	<0.5	<0.2
103771	Soil	12	35	0.59	182	0.080	1	1.90	0.010	0.07	<0.1	0.03	3.2	0.2	<0.05	7	<0.5	<0.2
103772	Soil	10	54	1.74	914	0.283	<1	3.52	0.040	1.37	<0.1	<0.01	5.7	0.5	<0.05	10	<0.5	<0.2
103773	Soil	14	29	0.54	184	0.102	1	1.88	0.015	0.10	0.1	0.02	3.3	0.1	<0.05	6	<0.5	<0.2
103774	Soil	38	41	0.95	306	0.169	1	2.04	0.020	0.57	0.1	<0.01	4.1	0.4	0.07	7	0.5	<0.2
103775	Soil	52	42	0.85	267	0.239	<1	2.65	0.032	0.95	<0.1	<0.01	4.2	0.6	0.05	8	<0.5	<0.2
103776	Soil	20	44	0.90	202	0.240	<1	2.96	0.020	0.75	<0.1	<0.01	4.2	0.5	<0.05	10	<0.5	<0.2
103777	Soil	49	40	0.80	231	0.093	<1	2.08	0.012	0.19	<0.1	<0.01	4.3	0.2	<0.05	7	0.6	<0.2
103778	Soil	12	47	0.84	157	0.206	<1	2.62	0.018	0.62	<0.1	0.01	3.8	0.5	<0.05	11	<0.5	<0.2
103779	Soil	17	33	0.57	134	0.097	<1	1.82	0.013	0.10	0.1	0.02	2.6	0.1	<0.05	5	<0.5	<0.2
103780	Soil	17	37	0.56	231	0.098	<1	1.90	0.011	0.12	0.1	0.02	3.0	0.1	0.06	5	<0.5	<0.2
103781	Soil	20	35	0.84	413	0.118	<1	2.38	0.011	0.17	<0.1	0.02	4.4	0.1	<0.05	7	<0.5	<0.2
103782	Soil	14	35	0.98	375	0.165	<1	1.98	0.014	0.54	<0.1	0.02	4.1	0.3	<0.05	7	<0.5	<0.2
103783	Soil	21	32	0.99	266	0.212	<1	2.31	0.012	0.66	<0.1	0.02	2.9	0.4	<0.05	7	<0.5	<0.2
103784	Soil	18	42	1.15	346	0.195	<1	2.05	0.011	0.76	<0.1	0.01	2.2	0.5	<0.05	7	<0.5	<0.2
103785	Soil	104	65	1.99	546	0.356	<1	3.64	0.025	1.91	<0.1	<0.01	6.5	0.9	<0.05	13	<0.5	<0.2
103786	Soil	10	36	0.57	195	0.101	<1	2.27	0.010	0.10	0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
103787	Soil	27	28	0.59	146	0.088	<1	2.22	0.011	0.21	0.1	0.01	2.5	0.2	<0.05	8	<0.5	<0.2
103788	Soil	22	22	0.55	153	0.120	1	2.11	0.015	0.28	0.1	0.01	2.3	0.2	<0.05	6	<0.5	<0.2
103789	Soil	23	19	0.56	168	0.144	<1	2.03	0.017	0.42	<0.1	0.01	3.0	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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Project: Rosebute  
 Report Date: August 16, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000791.1

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
103790	Soil	0.8	19.2	8.1	88	<0.1	13.6	8.8	480	2.84	4.0	1.5	1.5	11.9	24	0.1	0.2	0.1	54	0.29	0.034
103791	Soil	1.2	13.4	9.9	70	<0.1	17.1	9.7	396	3.10	8.3	1.0	1.4	5.8	23	<0.1	0.4	0.2	64	0.21	0.050
103792	Soil	0.9	27.9	10.2	142	<0.1	14.3	9.7	415	2.73	4.7	1.6	2.0	8.0	28	0.2	0.3	0.1	49	0.29	0.048
103793	Soil	0.9	14.6	7.3	104	<0.1	10.0	8.6	486	2.77	3.2	2.7	1.0	16.3	30	0.2	0.2	<0.1	45	0.31	0.055
108880	Soil	1.2	14.9	9.3	56	<0.1	8.9	5.6	296	2.54	5.3	1.4	1.8	7.0	50	<0.1	0.2	0.2	63	0.17	0.031
108881	Soil	1.3	22.9	7.3	53	0.1	7.7	5.2	280	2.51	2.8	2.2	0.9	5.8	55	<0.1	0.1	0.1	51	0.17	0.041
108882	Soil	1.5	26.3	6.9	70	0.2	7.5	7.6	458	3.60	1.8	2.5	0.5	11.2	95	<0.1	0.1	0.1	71	0.20	0.048
108883	Soil	1.9	29.0	6.2	62	<0.1	6.2	9.5	449	3.31	1.9	1.6	<0.5	5.8	48	0.1	0.1	<0.1	81	0.19	0.033
108884	Soil	1.4	16.7	9.4	84	<0.1	12.3	11.1	550	2.99	5.2	2.0	1.9	12.5	28	0.2	0.3	0.1	59	0.18	0.025
108885	Soil	4.0	9.3	8.3	470	<0.1	3.7	10.0	1777	4.75	1.4	2.2	1.5	9.7	86	0.8	0.1	<0.1	59	0.55	0.045
108886	Soil	1.2	31.6	7.4	71	<0.1	15.7	11.9	396	3.07	6.4	1.4	1.7	6.2	28	<0.1	0.3	0.1	65	0.20	0.028
108887	Soil	0.9	161.9	4.7	104	0.1	11.2	19.5	816	5.94	1.1	0.5	1.1	1.8	24	<0.1	<0.1	<0.1	173	0.29	0.061
108888	Soil	2.6	72.6	6.5	71	0.1	13.7	14.5	651	4.93	3.3	0.9	1.8	5.1	70	<0.1	0.2	<0.1	116	0.23	0.046
108889	Soil	2.4	472.1	5.4	72	0.5	7.4	3.9	282	3.22	1.0	3.4	0.9	14.5	106	<0.1	<0.1	0.2	51	0.35	0.069
108890	Soil	2.8	452.4	4.6	70	0.7	8.3	3.8	278	3.41	1.3	2.7	0.9	13.8	109	<0.1	<0.1	0.2	47	0.34	0.063
108891	Soil	0.9	262.1	4.8	90	<0.1	7.9	13.2	598	5.29	0.8	3.1	3.8	15.3	130	<0.1	<0.1	<0.1	135	0.30	0.059
108892	Soil	6.2	273.1	23.4	222	<0.1	10.6	14.3	1045	5.91	1.6	0.8	2.1	2.5	75	<0.1	0.1	<0.1	159	0.33	0.039
108893	Soil	3.3	401.5	6.9	123	0.2	11.5	9.5	804	6.22	1.2	0.9	2.2	5.0	47	<0.1	0.1	<0.1	144	0.16	0.045
108894	Soil	1.3	127.6	3.2	108	0.1	8.8	9.3	850	5.15	<0.5	1.2	1.1	10.5	61	<0.1	0.1	<0.1	134	0.27	0.059
108895	Soil	10.4	108.6	4.9	106	0.1	9.6	12.1	842	5.62	0.8	2.0	2.3	11.1	45	<0.1	<0.1	<0.1	119	0.19	0.084



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Project: Rosebute  
 Report Date: August 16, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000791.1

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	
103790	Soil	26	18	0.61	173	0.155	<1	2.11	0.021	0.50	0.1	0.01	3.1	0.3	<0.05	7	<0.5	<0.2
103791	Soil	19	25	0.47	161	0.096	<1	1.97	0.012	0.11	0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
103792	Soil	23	20	0.56	182	0.078	<1	1.72	0.012	0.14	<0.1	0.05	2.7	<0.1	<0.05	5	<0.5	<0.2
103793	Soil	38	13	0.55	144	0.065	<1	1.74	0.012	0.29	<0.1	0.01	2.5	0.1	<0.05	6	<0.5	<0.2
108880	Soil	15	18	0.56	139	0.134	<1	1.57	0.020	0.26	<0.1	0.03	2.7	0.2	0.11	7	<0.5	<0.2
108881	Soil	18	17	0.60	189	0.113	<1	1.49	0.030	0.36	<0.1	0.02	2.7	0.2	0.25	6	0.7	<0.2
108882	Soil	27	17	1.05	343	0.174	<1	2.16	0.065	0.79	<0.1	0.02	4.0	0.3	0.60	7	1.0	<0.2
108883	Soil	17	11	1.13	228	0.211	<1	2.39	0.017	0.75	<0.1	0.01	2.6	0.3	0.13	7	<0.5	<0.2
108884	Soil	26	21	0.86	227	0.152	<1	2.31	0.017	0.33	<0.1	0.02	4.0	0.2	0.06	7	<0.5	<0.2
108885	Soil	29	5	2.71	282	0.196	<1	3.60	0.016	1.50	<0.1	<0.01	3.0	0.7	0.13	9	0.6	<0.2
108886	Soil	13	26	0.86	182	0.134	<1	2.23	0.013	0.28	0.1	0.03	3.2	0.2	<0.05	5	<0.5	<0.2
108887	Soil	4	34	2.60	845	0.322	<1	3.50	0.023	1.90	<0.1	0.01	4.6	0.5	<0.05	8	1.0	<0.2
108888	Soil	9	28	1.73	328	0.239	<1	3.61	0.015	1.00	<0.1	0.02	3.4	0.4	<0.05	8	0.6	<0.2
108889	Soil	36	22	1.31	306	0.181	<1	3.14	0.018	0.93	<0.1	0.01	3.4	0.3	0.81	7	3.9	<0.2
108890	Soil	25	22	1.20	209	0.164	<1	2.82	0.024	0.93	<0.1	<0.01	2.7	0.3	0.90	6	3.1	<0.2
108891	Soil	35	26	2.08	336	0.238	<1	3.45	0.023	1.50	<0.1	0.01	10.1	0.4	0.46	10	1.0	<0.2
108892	Soil	6	35	2.26	738	0.290	<1	3.85	0.025	1.59	<0.1	0.01	5.0	0.5	<0.05	11	0.9	<0.2
108893	Soil	11	32	1.96	491	0.265	<1	3.59	0.019	1.45	<0.1	<0.01	5.5	0.5	0.20	11	1.4	<0.2
108894	Soil	24	27	2.63	434	0.268	<1	3.88	0.017	1.53	<0.1	<0.01	7.4	0.6	<0.05	11	1.1	<0.2
108895	Soil	9	25	2.06	389	0.236	<1	3.52	0.017	1.15	<0.1	0.01	5.5	0.5	<0.05	9	1.7	<0.2



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Project: Rosebute  
 Report Date: August 16, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000791.1

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																					
116633	Soil	3.7	26.5	16.4	106	<0.1	22.0	10.6	445	3.49	6.8	0.7	5.3	6.1	13	0.5	0.7	0.6	59	0.16	0.029
REP 116633	QC	2.7	27.7	15.9	108	<0.1	20.9	10.2	449	3.43	6.7	0.7	4.3	5.9	13	0.4	0.7	0.6	58	0.16	0.027
116649	Soil	1.7	22.9	7.8	49	0.1	20.7	9.4	338	2.41	7.0	1.1	4.8	3.2	32	0.2	0.5	0.2	53	0.50	0.052
REP 116649	QC	0.3	20.7	7.8	50	<0.1	18.8	9.3	340	2.35	6.8	1.0	4.1	3.0	33	<0.1	0.4	0.1	52	0.49	0.052
116673	Soil	0.8	44.6	2.6	72	<0.1	17.5	19.4	480	5.05	2.3	0.3	<0.5	2.0	17	<0.1	0.2	<0.1	86	0.41	0.087
REP 116673	QC	0.8	43.5	2.6	72	<0.1	17.0	19.4	488	5.13	2.0	0.3	0.6	2.1	17	<0.1	0.2	<0.1	86	0.41	0.085
116688	Soil	0.9	27.2	7.7	49	<0.1	23.1	10.8	346	2.54	5.8	0.7	1.8	3.3	28	<0.1	0.4	0.1	61	0.48	0.051
REP 116688	QC	1.0	27.7	7.7	50	0.1	24.2	10.6	329	2.49	6.0	0.7	1.1	3.2	28	<0.1	0.4	0.1	61	0.48	0.052
111579	Soil	1.9	71.1	15.2	106	0.2	54.5	18.6	208	4.13	5.3	1.6	1.8	12.1	108	0.1	0.2	0.3	75	0.19	0.031
REP 111579	QC	2.0	74.2	15.0	110	0.2	58.1	19.0	209	4.27	4.5	1.6	0.7	12.8	113	0.1	0.2	0.3	78	0.20	0.035
111597	Soil	1.3	32.7	10.0	82	0.1	36.4	15.8	368	3.78	7.3	0.8	1.5	6.3	22	<0.1	0.4	0.5	92	0.21	0.020
REP 111597	QC	1.4	32.7	9.8	79	0.1	36.2	16.0	380	3.74	7.2	0.8	<0.5	6.1	22	<0.1	0.4	0.4	94	0.23	0.020
122317	Soil	1.3	22.9	10.7	50	<0.1	19.6	8.9	291	2.78	7.7	1.7	3.8	10.5	22	<0.1	0.5	0.2	56	0.21	0.013
REP 122317	QC	1.2	22.3	10.4	51	<0.1	18.6	8.2	298	2.70	7.5	1.6	2.8	10.3	21	<0.1	0.6	0.2	57	0.19	0.014
107666	Soil	1.9	20.0	6.9	47	0.1	16.1	12.3	220	2.81	5.8	0.8	1.8	2.3	17	0.1	0.3	0.1	67	0.29	0.055
REP 107666	QC	1.8	20.0	7.0	49	0.1	16.9	12.4	218	2.82	6.0	0.8	6.1	2.3	17	<0.1	0.3	0.1	64	0.28	0.053
107696	Soil	0.8	16.4	4.4	58	0.5	22.7	16.4	388	3.19	3.1	0.2	1.4	1.4	9	<0.1	0.2	<0.1	84	0.22	0.053
REP 107696	QC	0.8	16.3	4.4	60	<0.1	21.6	15.6	393	3.28	2.9	0.2	0.9	1.5	9	<0.1	0.2	<0.1	85	0.20	0.055
107704	Soil	1.6	87.9	9.7	198	<0.1	8.5	19.6	480	6.48	4.2	1.0	<0.5	2.5	33	0.4	0.2	<0.1	143	0.52	0.059
REP 107704	QC	1.5	88.2	9.5	194	<0.1	8.1	18.6	460	6.26	3.9	1.0	0.7	2.5	33	0.4	0.1	<0.1	141	0.50	0.056
117807	Soil	0.2	17.6	1.9	175	<0.1	12.3	6.6	1339	4.25	0.7	0.7	<0.5	4.5	13	<0.1	<0.1	<0.1	40	0.23	0.035
REP 117807	QC	0.1	17.8	1.8	174	<0.1	11.7	6.4	1306	4.20	1.1	0.7	1.8	4.5	13	<0.1	0.1	<0.1	39	0.27	0.034
117831	Soil	0.4	17.4	6.7	111	<0.1	9.0	4.1	403	2.48	2.9	0.5	3.2	2.8	15	<0.1	0.2	0.1	26	0.19	0.009
REP 117831	QC	0.9	17.4	6.6	107	<0.1	10.4	4.0	413	2.50	2.3	0.5	3.4	2.8	15	<0.1	0.2	<0.1	25	0.20	0.012
117832	Soil	0.5	22.3	24.9	106	<0.1	7.9	8.7	662	4.54	2.4	0.7	0.8	2.6	18	<0.1	0.3	0.3	49	0.43	0.106
REP 117832	QC	0.5	22.6	24.8	108	<0.1	8.0	8.8	682	4.51	2.2	0.7	0.9	2.6	18	<0.1	0.3	0.3	50	0.42	0.103
103727	Soil	1.2	20.8	10.4	51	<0.1	24.1	8.7	277	3.21	9.6	0.6	2.4	4.1	21	<0.1	0.5	0.2	67	0.20	0.027
REP 103727	QC	1.2	21.4	10.7	54	<0.1	25.4	9.0	284	3.38	9.7	0.6	2.5	4.1	21	<0.1	0.6	0.2	67	0.19	0.027

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Project: Rosebute  
Report Date: August 16, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000791.1

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																		
116633	Soil	11	43	0.85	190	0.087	<1	2.37	0.008	0.28	0.2	0.04	4.3	0.2	<0.05	8	<0.5	<0.2
REP 116633	QC	12	40	0.84	193	0.088	4	2.39	0.008	0.27	0.2	<0.01	4.2	0.2	<0.05	8	<0.5	<0.2
116649	Soil	12	29	0.50	261	0.067	1	1.52	0.021	0.05	0.2	0.05	3.7	<0.1	<0.05	5	0.8	<0.2
REP 116649	QC	12	25	0.51	255	0.065	2	1.50	0.021	0.05	0.2	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
116673	Soil	5	27	1.49	243	0.234	<1	3.29	0.020	0.69	0.2	<0.01	3.4	0.3	<0.05	9	<0.5	<0.2
REP 116673	QC	5	27	1.51	236	0.229	<1	3.24	0.020	0.67	0.2	0.01	3.1	0.3	<0.05	9	<0.5	<0.2
116688	Soil	12	34	0.60	275	0.090	<1	1.67	0.021	0.05	0.2	0.02	4.2	<0.1	<0.05	5	0.5	<0.2
REP 116688	QC	12	34	0.59	275	0.089	<1	1.66	0.020	0.05	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
111579	Soil	34	55	1.13	311	0.143	<1	3.01	0.018	0.59	<0.1	0.02	3.7	0.6	0.20	7	0.8	<0.2
REP 111579	QC	35	57	1.17	315	0.146	1	3.17	0.019	0.63	<0.1	0.01	3.8	0.6	0.22	8	<0.5	<0.2
111597	Soil	17	46	1.00	167	0.163	1	2.87	0.010	0.13	0.2	0.02	4.0	0.2	<0.05	9	<0.5	<0.2
REP 111597	QC	17	47	0.96	167	0.172	<1	2.74	0.010	0.14	0.1	0.02	4.4	0.2	<0.05	9	<0.5	<0.2
122317	Soil	33	37	0.47	317	0.051	2	1.97	0.010	0.06	0.1	0.04	5.3	0.1	<0.05	5	<0.5	<0.2
REP 122317	QC	33	37	0.49	319	0.062	2	1.91	0.010	0.07	0.2	0.05	5.3	0.1	<0.05	5	0.8	<0.2
107666	Soil	11	30	0.64	234	0.094	<1	1.71	0.017	0.06	0.3	0.05	3.5	<0.1	<0.05	6	<0.5	<0.2
REP 107666	QC	10	29	0.65	236	0.090	<1	1.71	0.016	0.06	0.3	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
107696	Soil	3	45	1.24	305	0.223	<1	2.37	0.013	0.29	<0.1	<0.01	1.5	<0.1	<0.05	8	<0.5	<0.2
REP 107696	QC	3	46	1.26	301	0.215	<1	2.34	0.016	0.27	<0.1	<0.01	1.3	<0.1	<0.05	8	<0.5	<0.2
107704	Soil	12	9	1.02	324	0.128	<1	3.09	0.030	0.31	<0.1	<0.01	6.7	0.1	<0.05	8	<0.5	<0.2
REP 107704	QC	12	7	0.96	319	0.121	<1	2.92	0.027	0.30	<0.1	<0.01	6.6	0.1	<0.05	8	<0.5	<0.2
117807	Soil	23	24	1.41	204	0.230	2	2.14	0.008	1.23	<0.1	0.03	6.2	0.3	<0.05	13	1.7	<0.2
REP 117807	QC	24	24	1.39	204	0.230	3	2.14	0.008	1.21	<0.1	0.01	6.2	0.3	<0.05	12	<0.5	<0.2
117831	Soil	11	12	0.39	142	0.121	<1	1.18	0.010	0.31	<0.1	0.01	4.5	0.3	<0.05	6	<0.5	<0.2
REP 117831	QC	11	12	0.39	145	0.124	1	1.20	0.010	0.32	<0.1	0.03	4.0	0.2	<0.05	6	1.1	<0.2
117832	Soil	11	11	0.58	196	0.153	<1	1.34	0.017	0.41	<0.1	<0.01	9.0	0.2	<0.05	8	<0.5	<0.2
REP 117832	QC	11	11	0.57	193	0.148	<1	1.31	0.017	0.40	<0.1	<0.01	9.1	0.2	<0.05	8	<0.5	<0.2
103727	Soil	10	39	0.50	259	0.082	<1	2.46	0.013	0.06	0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
REP 103727	QC	10	40	0.50	268	0.078	<1	2.47	0.012	0.06	0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
Report Date: August 16, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000791.1

		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
103747	Soil	0.9	20.0	6.8	51	<0.1	12.5	9.2	290	3.10	6.9	0.5	0.9	2.4	21	<0.1	0.5	0.1	79	0.35	0.032
REP 103747	QC	0.8	19.7	6.6	50	<0.1	12.8	9.3	294	3.06	6.7	0.4	<0.5	2.3	20	<0.1	0.5	0.1	80	0.33	0.030
103762	Soil	0.4	33.5	3.4	50	<0.1	29.2	14.2	356	2.97	3.6	0.4	1.5	2.2	20	<0.1	0.2	<0.1	71	0.35	0.043
REP 103762	QC	0.5	34.1	3.5	51	<0.1	30.8	15.4	366	3.07	3.9	0.4	<0.5	2.4	20	<0.1	0.2	<0.1	71	0.38	0.043
103785	Soil	0.9	51.7	8.1	145	<0.1	63.8	19.9	658	4.85	1.5	3.1	<0.5	21.7	35	0.1	<0.1	0.1	66	0.32	0.051
REP 103785	QC	0.8	52.5	8.1	147	<0.1	65.4	20.2	657	4.89	1.6	3.2	<0.5	21.2	36	<0.1	<0.1	0.1	66	0.32	0.052
108886	Soil	1.2	31.6	7.4	71	<0.1	15.7	11.9	396	3.07	6.4	1.4	1.7	6.2	28	<0.1	0.3	0.1	65	0.20	0.028
REP 108886	QC	1.3	30.5	7.6	68	<0.1	15.5	11.8	404	3.12	5.5	1.3	1.3	6.1	27	<0.1	0.3	0.1	64	0.19	0.028
Reference Materials																					
STD DS8	Standard	12.6	110.3	122.0	311	1.8	38.3	7.5	592	2.37	26.7	2.6	110.1	6.3	68	2.3	5.7	6.9	44	0.64	0.078
STD DS8	Standard	14.1	116.1	129.8	318	1.8	39.3	7.9	641	2.55	26.7	3.1	107.2	7.7	77	2.4	6.2	7.1	44	0.73	0.079
STD DS8	Standard	13.4	114.8	128.0	309	1.8	39.2	7.7	616	2.54	27.6	2.9	121.0	7.1	69	2.5	5.9	6.8	43	0.68	0.088
STD DS8	Standard	14.5	103.2	129.8	302	1.8	38.8	7.8	601	2.36	23.6	2.7	104.2	6.5	63	2.2	5.2	6.5	43	0.71	0.079
STD DS8	Standard	12.5	111.5	129.2	312	1.9	39.8	7.8	618	2.54	26.0	2.7	112.8	6.6	59	2.3	5.4	6.7	45	0.65	0.075
STD DS8	Standard	13.0	105.9	122.9	301	1.7	36.5	7.3	591	2.37	25.0	2.8	108.6	6.8	67	2.1	5.5	6.6	40	0.71	0.076
STD DS8	Standard	11.7	98.3	115.2	290	1.7	34.9	6.9	612	2.24	22.8	2.4	102.6	5.8	57	1.9	5.2	6.9	37	0.59	0.066
STD DS8	Standard	15.0	116.7	128.6	315	1.9	44.0	8.5	640	2.53	27.7	2.6	110.0	6.9	61	2.2	5.4	6.4	50	0.71	0.081
STD DS8	Standard	14.9	104.5	125.1	322	2.0	42.2	7.7	689	2.43	26.1	2.7	129.9	6.4	65	2.7	6.1	7.7	42	0.71	0.079
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	0.03	<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



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Project: Rosebute  
Report Date: August 16, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000791.1

		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
103747	Soil	9	21	0.60	178	0.112	<1	1.63	0.020	0.05	0.1	0.06	4.0	<0.1	<0.05	6	<0.5	<0.2
REP 103747	QC	8	21	0.58	173	0.108	1	1.63	0.018	0.05	0.1	0.04	4.1	<0.1	<0.05	6	<0.5	<0.2
103762	Soil	8	69	1.17	306	0.165	<1	2.25	0.024	0.40	0.1	<0.01	3.9	0.2	<0.05	6	<0.5	<0.2
REP 103762	QC	8	69	1.19	311	0.166	<1	2.29	0.025	0.41	0.1	<0.01	3.8	0.2	<0.05	6	<0.5	<0.2
103785	Soil	104	65	1.99	546	0.356	<1	3.64	0.025	1.91	<0.1	<0.01	6.5	0.9	<0.05	13	<0.5	<0.2
REP 103785	QC	105	67	1.97	560	0.359	<1	3.64	0.023	1.90	<0.1	<0.01	6.5	0.9	<0.05	13	<0.5	<0.2
108886	Soil	13	26	0.86	182	0.134	<1	2.23	0.013	0.28	0.1	0.03	3.2	0.2	<0.05	5	<0.5	<0.2
REP 108886	QC	13	26	0.84	182	0.134	<1	2.17	0.013	0.28	0.1	0.03	2.8	0.2	<0.05	5	0.5	<0.2
Reference Materials																		
STD DS8	Standard	13	115	0.59	270	0.117	3	0.89	0.097	0.42	2.8	0.22	1.8	5.4	0.16	5	4.9	5.0
STD DS8	Standard	17	127	0.64	295	0.146	2	0.97	0.112	0.44	3.0	0.20	2.7	5.4	0.12	5	5.1	4.8
STD DS8	Standard	15	113	0.62	293	0.122	4	0.93	0.089	0.41	3.1	0.20	2.4	5.6	0.15	5	5.3	5.1
STD DS8	Standard	15	123	0.59	275	0.123	1	0.92	0.089	0.43	3.0	0.21	2.2	5.4	0.15	5	5.0	5.1
STD DS8	Standard	13	124	0.62	271	0.110	3	0.91	0.080	0.42	3.0	0.21	2.0	5.7	0.19	5	4.9	5.1
STD DS8	Standard	14	111	0.59	277	0.120	1	0.89	0.096	0.42	3.0	0.21	2.1	5.3	0.15	5	5.2	4.8
STD DS8	Standard	12	105	0.55	238	0.096	4	0.78	0.072	0.38	2.8	0.17	1.9	5.1	0.11	4	5.5	4.0
STD DS8	Standard	15	127	0.61	282	0.122	4	0.91	0.098	0.42	3.0	0.18	2.2	5.1	0.20	5	4.9	5.2
STD DS8	Standard	14	115	0.61	269	0.110	5	0.93	0.088	0.44	3.2	0.21	2.7	5.8	0.15	5	6.7	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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**Client:** **Taku Gold Corp**  
680 3rd Ave, Suite 203  
Val D'Or QC J9P 1S5 Canada

Submitted By: Lauren Wilson  
Receiving Lab: Canada-Whitehorse  
Received: July 28, 2011  
Report Date: August 18, 2011  
Page: 1 of 11

# CERTIFICATE OF ANALYSIS

WHI11000771.1

## CLIENT JOB INFORMATION

Project: Rosebute  
Shipment ID: 20110720102439  
P.O. Number  
Number of Samples: 282

## 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.

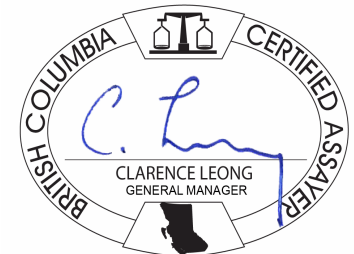
Invoice To: Taku Gold Corp  
680 3rd Ave, Suite 203  
Val D'Or QC J9P 1S5  
Canada

CC: Mark Fekete

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	282	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	282	Dry at 60C			WHI
1DX2	282	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: Rosebute  
 Report Date: August 18, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
114104	Soil	1.0	16.6	18.1	145	<0.1	12.6	9.0	344	3.27	6.6	1.2	10.7	15.3	21	0.2	2.4	0.2	55	0.24	0.022
114105	Soil	1.8	24.0	17.3	59	0.8	19.1	9.0	392	2.69	7.2	0.3	11.5	2.8	12	0.2	6.3	0.2	57	0.15	0.023
114106	Soil	1.5	21.6	53.9	90	0.8	17.0	10.0	587	2.80	4.4	0.4	4.0	2.5	15	0.2	4.3	0.2	60	0.20	0.061
114107	Soil	1.3	31.3	12.2	74	<0.1	28.7	11.2	480	3.22	9.3	0.8	11.5	9.8	24	<0.1	1.1	0.1	67	0.40	0.033
114108	Soil	2.0	23.5	17.9	82	0.2	29.7	12.0	377	3.53	9.2	1.0	4.0	10.6	20	0.2	1.3	0.2	76	0.34	0.036
114109	Soil	1.9	25.1	17.8	84	<0.1	29.1	10.8	364	3.11	9.2	1.1	5.8	10.6	24	<0.1	2.2	0.2	68	0.41	0.027
114110	Soil	1.7	17.4	19.4	86	0.1	22.7	12.6	543	3.20	6.8	0.7	1.3	4.9	19	0.1	2.9	0.2	61	0.41	0.043
114111	Soil	1.2	33.9	17.7	114	0.6	20.1	11.4	750	3.25	5.5	1.6	6.9	6.7	33	<0.1	3.3	<0.1	31	2.07	0.104
114112	Soil	2.4	22.6	19.8	46	0.3	22.2	7.1	293	2.22	7.0	1.1	4.9	19.0	19	<0.1	2.9	1.2	37	0.28	0.025
114113	Soil	5.7	30.4	33.7	65	0.2	27.5	7.9	388	2.53	8.7	1.3	4.3	14.8	21	<0.1	2.5	0.2	42	0.33	0.025
114114	Soil	2.9	57.7	19.8	110	<0.1	34.4	14.3	624	3.85	5.5	1.4	4.3	13.2	22	<0.1	1.3	1.9	64	0.36	0.027
114115	Soil	5.1	53.6	17.9	107	<0.1	25.6	11.7	538	3.42	30.3	1.4	3.2	11.3	28	<0.1	0.8	0.3	61	0.34	0.026
114116	Soil	3.2	24.6	23.6	83	<0.1	27.5	11.6	704	3.06	6.5	0.9	5.5	7.6	20	<0.1	0.8	0.2	48	0.31	0.016
114117	Soil	2.4	19.5	18.9	59	0.1	23.3	7.0	241	2.51	5.5	0.9	0.9	12.6	14	<0.1	0.7	0.2	47	0.19	0.018
114118	Soil	1.6	40.0	11.8	50	0.1	29.5	9.2	379	2.51	9.7	0.8	9.3	7.2	46	<0.1	0.9	0.2	55	1.69	0.045
114119	Soil	1.0	18.0	37.0	49	0.4	9.3	5.0	521	1.49	2.0	1.0	5.9	7.6	95	0.3	1.6	0.1	15	6.49	0.058
114120	Soil	2.5	66.9	42.9	89	0.2	20.6	12.1	574	3.65	4.8	2.0	1.0	23.9	15	0.1	4.2	1.1	46	0.41	0.038
114121	Soil	2.4	16.2	28.5	71	0.1	22.1	10.2	503	2.87	5.5	1.0	3.3	15.9	21	<0.1	0.8	0.1	47	0.51	0.024
114122	Soil	1.6	40.3	22.4	122	0.1	40.8	17.1	866	4.07	4.2	1.6	4.9	14.6	32	0.1	1.9	0.2	79	0.65	0.064
114123	Soil	1.5	18.9	22.6	72	<0.1	22.4	10.3	394	3.37	6.7	1.5	2.3	17.0	21	<0.1	1.2	0.3	65	0.41	0.044
114124	Soil	1.6	22.1	22.8	66	0.1	15.3	8.2	626	2.24	5.3	1.3	6.2	25.8	30	0.1	2.0	0.2	37	1.74	0.081
114125	Soil	2.1	24.4	40.4	96	<0.1	27.0	11.4	503	3.52	8.7	2.2	2.6	34.3	20	<0.1	1.6	0.3	65	0.40	0.065
114126	Soil	1.3	41.0	31.1	113	<0.1	45.7	19.4	966	4.33	8.8	1.4	6.2	9.8	31	0.1	1.6	0.2	102	0.62	0.061
114127	Soil	2.5	23.9	30.7	60	0.1	29.4	11.2	599	3.05	6.2	1.3	<0.5	23.4	21	<0.1	1.1	0.2	62	0.41	0.047
114128	Soil	1.7	24.7	25.3	106	<0.1	30.3	13.9	573	4.03	8.1	1.5	1.4	16.6	27	<0.1	1.3	0.5	82	0.53	0.052
103930	Soil	1.8	25.5	18.8	83	0.2	29.2	14.7	690	3.91	7.6	1.4	3.2	8.1	35	<0.1	0.9	0.1	69	0.48	0.066
103931	Soil	3.3	41.5	53.8	145	0.3	17.6	10.0	744	4.19	3.6	2.8	7.1	14.6	25	<0.1	1.5	0.8	55	0.39	0.055
103932	Soil	3.7	36.6	30.9	70	3.5	34.0	12.2	450	3.35	10.5	0.9	287.6	6.3	30	<0.1	0.8	0.3	72	0.43	0.041
103933	Soil	2.0	35.4	17.5	70	0.5	22.5	11.5	745	3.13	6.3	1.6	36.7	8.5	63	0.1	2.3	0.2	50	3.19	0.068
103934	Soil	1.1	34.1	13.7	74	0.2	26.7	10.6	394	2.70	7.2	0.6	5.1	4.6	51	0.2	0.7	0.2	58	0.59	0.067

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**Project:** Rosebute  
**Report Date:** August 18, 2011

**Page:** 2 of 11 Part 2

# CERTIFICATE OF ANALYSIS

WHI11000771.1

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	0.1	0.01	0.1	0.05	1	0.5	0.2
114104	Soil	29	23	0.77	250	0.013	<1	2.22	0.009	0.03	0.1	0.97	2.3	<0.1	<0.05	9	<0.5	<0.2
114105	Soil	7	33	0.53	270	0.037	<1	1.83	0.011	0.05	0.3	0.21	2.0	<0.1	<0.05	6	<0.5	<0.2
114106	Soil	6	29	0.61	230	0.024	<1	1.55	0.006	0.07	0.6	0.12	1.9	<0.1	<0.05	7	<0.5	<0.2
114107	Soil	36	42	0.69	242	0.056	<1	1.43	0.014	0.06	0.3	0.09	7.0	<0.1	<0.05	5	<0.5	<0.2
114108	Soil	13	52	0.65	207	0.053	2	1.81	0.009	0.08	0.2	0.03	6.3	<0.1	<0.05	6	<0.5	<0.2
114109	Soil	14	47	0.60	278	0.053	1	1.55	0.012	0.06	0.2	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
114110	Soil	8	39	0.61	339	0.046	2	1.69	0.011	0.13	0.2	0.12	3.7	<0.1	<0.05	6	<0.5	<0.2
114111	Soil	39	19	0.29	537	0.003	6	0.94	0.008	0.14	0.1	0.35	3.7	0.1	<0.05	3	<0.5	<0.2
114112	Soil	19	33	0.36	186	0.040	2	1.07	0.009	0.08	0.2	0.05	3.8	<0.1	<0.05	3	<0.5	<0.2
114113	Soil	9	40	0.33	272	0.024	2	1.43	0.007	0.10	0.2	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
114114	Soil	31	49	0.98	364	0.114	<1	1.99	0.012	0.34	0.5	0.06	7.8	0.3	<0.05	7	<0.5	<0.2
114115	Soil	80	45	1.33	294	0.190	<1	2.32	0.014	0.37	0.3	0.04	4.3	0.3	<0.05	8	<0.5	<0.2
114116	Soil	9	42	0.72	239	0.081	2	1.82	0.010	0.26	0.2	0.03	4.2	0.1	<0.05	7	<0.5	<0.2
114117	Soil	14	40	0.47	158	0.048	1	1.73	0.010	0.08	0.1	0.02	6.0	<0.1	<0.05	4	<0.5	<0.2
114118	Soil	21	35	0.65	236	0.072	1	1.41	0.025	0.07	0.2	0.07	4.7	<0.1	<0.05	4	<0.5	<0.2
114119	Soil	30	9	0.18	253	0.004	2	0.40	0.005	0.07	0.7	0.06	2.2	<0.1	<0.05	1	<0.5	<0.2
114120	Soil	27	31	0.69	171	0.058	2	1.72	0.004	0.51	0.3	0.14	4.9	0.3	<0.05	6	<0.5	<0.2
114121	Soil	18	36	0.46	188	0.038	2	1.48	0.007	0.20	0.3	0.03	4.5	0.1	<0.05	5	<0.5	<0.2
114122	Soil	40	58	1.03	286	0.077	1	1.80	0.013	0.16	0.3	0.08	8.0	0.1	<0.05	7	<0.5	<0.2
114123	Soil	27	38	0.69	202	0.064	1	1.80	0.009	0.16	0.2	0.06	5.2	<0.1	<0.05	7	<0.5	<0.2
114124	Soil	52	26	0.15	168	0.007	2	0.52	0.003	0.11	1.0	0.07	4.6	<0.1	<0.05	2	<0.5	<0.2
114125	Soil	48	43	0.76	147	0.065	<1	1.87	0.007	0.33	0.2	0.03	5.8	0.2	<0.05	8	<0.5	<0.2
114126	Soil	33	64	1.32	202	0.093	1	2.14	0.009	0.19	0.2	0.13	7.7	0.1	<0.05	10	<0.5	<0.2
114127	Soil	32	50	0.56	240	0.067	1	1.62	0.010	0.21	0.2	0.04	4.8	0.1	<0.05	6	<0.5	<0.2
114128	Soil	29	50	1.01	189	0.095	2	2.19	0.011	0.34	0.2	0.04	6.5	0.2	<0.05	9	<0.5	<0.2
103930	Soil	33	54	1.09	226	0.111	1	2.25	0.011	0.26	0.3	0.03	5.4	<0.1	<0.05	8	<0.5	<0.2
103931	Soil	51	25	0.73	191	0.009	1	1.49	0.008	0.09	0.2	0.05	5.8	<0.1	<0.05	5	<0.5	<0.2
103932	Soil	20	51	0.75	312	0.108	<1	1.92	0.013	0.24	10.9	0.17	6.2	0.1	<0.05	6	0.5	0.9
103933	Soil	29	27	0.69	332	0.047	3	1.48	0.012	0.17	3.5	0.13	4.6	0.1	<0.05	5	<0.5	<0.2
103934	Soil	15	30	0.62	362	0.100	2	1.72	0.033	0.12	0.4	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2



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Project: Rosebute  
 Report Date: August 18, 2011

Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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
103935	Soil	1.0	32.3	11.5	64	0.2	25.1	9.3	396	2.63	7.0	0.5	14.5	4.9	38	0.1	0.9	0.2	54	0.63	0.051
103936	Soil	1.0	38.2	12.2	59	0.2	28.4	11.2	448	2.63	9.2	0.6	8.8	4.6	57	0.2	0.9	0.2	56	1.67	0.054
103937	Soil	1.3	21.6	12.3	54	<0.1	26.2	11.0	577	2.64	8.9	1.3	4.0	4.1	33	0.1	0.7	0.2	58	0.54	0.057
103938	Soil	1.1	19.7	11.5	46	<0.1	17.6	9.3	337	2.32	7.7	0.6	0.6	7.1	18	<0.1	0.5	0.1	45	0.24	0.049
103910	Soil	0.6	32.3	11.3	58	0.1	25.3	9.9	446	2.66	10.1	0.6	5.5	4.3	40	<0.1	0.7	0.2	60	0.67	0.072
103911	Soil	1.8	98.0	21.1	187	<0.1	29.6	18.8	839	5.01	9.9	3.0	10.3	31.2	44	0.1	1.9	0.1	97	0.56	0.055
103912	Soil	0.7	33.1	9.5	53	0.1	25.7	10.1	467	2.52	9.5	0.6	2.2	3.8	38	0.1	0.6	0.1	51	0.54	0.081
103913	Soil	1.2	29.5	17.9	64	<0.1	25.7	9.0	293	2.80	11.3	1.1	1.5	7.1	38	<0.1	1.0	0.3	60	0.42	0.034
103914	Soil	1.2	17.9	18.7	95	0.1	21.7	9.7	416	2.82	9.0	0.9	3.0	10.4	30	0.2	1.0	0.3	58	0.29	0.041
103915	Soil	0.9	11.2	10.4	49	<0.1	16.2	7.1	265	2.23	8.8	0.4	1.5	3.1	21	<0.1	0.5	0.1	51	0.24	0.018
103916	Soil	1.4	30.8	16.6	60	0.1	27.5	10.9	381	2.87	10.0	0.8	4.5	7.9	30	<0.1	0.9	0.2	65	0.39	0.031
103917	Soil	1.1	37.3	10.8	53	0.1	28.4	9.3	366	2.92	13.1	1.1	10.0	5.6	29	0.1	1.1	0.2	63	0.37	0.027
103918	Soil	1.2	14.0	14.9	80	<0.1	23.5	9.1	421	2.83	10.4	0.4	0.7	3.7	27	0.2	0.5	0.2	64	0.34	0.045
103919	Soil	1.9	20.6	10.1	61	0.2	17.4	7.8	421	2.57	10.5	0.8	1.8	8.1	22	<0.1	2.6	0.2	45	0.29	0.026
103920	Soil	1.3	21.0	20.9	95	0.1	18.3	9.9	548	3.02	9.9	0.6	2.0	7.5	27	0.1	0.9	0.2	53	0.32	0.026
103921	Soil	0.7	38.7	109.6	200	0.2	17.8	11.2	475	3.37	16.2	1.1	<0.5	7.8	32	0.3	0.7	5.0	55	0.33	0.043
103922	Soil	1.1	16.0	13.7	87	<0.1	15.1	11.0	471	3.15	8.3	1.0	<0.5	19.0	38	<0.1	0.7	0.2	47	0.35	0.053
103923	Soil	1.6	20.3	28.0	121	<0.1	21.4	11.9	728	3.48	11.5	1.4	<0.5	20.2	39	0.1	1.8	0.2	54	0.39	0.042
103924	Soil	1.6	24.8	22.3	70	0.3	27.6	9.9	423	3.05	13.5	1.4	3.2	11.9	25	0.1	1.6	0.2	52	0.41	0.030
103925	Soil	2.2	32.8	19.8	78	0.3	27.4	10.9	459	3.11	12.3	1.7	3.9	14.4	34	0.1	0.9	0.3	57	0.43	0.052
103926	Soil	1.2	33.2	21.5	81	<0.1	19.7	10.5	508	2.93	10.0	1.1	1.3	18.7	42	0.2	0.9	0.2	50	0.50	0.033
103927	Soil	1.3	14.6	10.0	83	<0.1	21.7	11.5	418	3.27	8.9	0.7	0.8	7.2	27	<0.1	0.5	0.1	59	0.34	0.048
103928	Soil	1.2	38.6	18.0	101	<0.1	36.4	27.8	913	4.31	9.2	0.7	<0.5	3.4	54	<0.1	0.8	0.1	92	0.67	0.044
103929	Soil	1.2	18.5	14.8	93	0.2	22.5	12.5	735	3.21	8.0	1.1	5.7	8.4	37	0.1	0.4	0.1	56	0.49	0.042
110517	Soil	0.6	31.6	12.6	54	0.3	26.7	10.3	678	2.42	13.4	0.8	45.3	2.1	36	0.4	0.7	0.2	50	1.72	0.065
110518	Soil	1.0	65.8	14.0	48	0.2	12.2	5.8	407	1.48	8.3	1.0	130.5	11.0	17	<0.1	3.5	0.2	20	0.41	0.015
110519	Soil	0.7	31.9	67.7	221	0.2	16.3	7.3	857	3.18	8.8	1.0	11.9	10.8	25	1.1	0.9	0.2	49	1.26	0.119
110520	Soil	0.7	24.9	43.4	85	0.2	9.1	4.6	304	1.39	7.2	0.7	40.8	12.3	16	0.4	0.5	0.6	21	0.29	0.018
110521	Soil	0.7	22.7	14.1	123	<0.1	29.9	13.3	382	3.18	13.0	0.4	1.0	4.7	232	<0.1	1.4	<0.1	86	1.70	0.112
110522	Soil	0.8	31.0	20.7	132	0.1	15.7	17.3	773	4.45	12.0	0.5	<0.5	3.8	76	0.3	4.1	0.1	93	0.50	0.061

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 3 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
103935	Soil	16	29	0.63	313	0.081	1	1.63	0.027	0.08	1.0	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
103936	Soil	16	30	0.70	327	0.075	1	1.50	0.028	0.06	0.6	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
103937	Soil	12	34	0.61	303	0.076	2	1.71	0.021	0.08	0.2	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
103938	Soil	7	26	0.44	161	0.081	<1	1.50	0.013	0.20	0.3	0.02	4.2	0.1	<0.05	5	<0.5	<0.2
103910	Soil	16	32	0.68	273	0.074	2	1.38	0.022	0.06	0.2	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
103911	Soil	56	59	1.15	259	0.116	<1	2.01	0.015	0.07	0.5	0.09	11.1	<0.1	<0.05	14	<0.5	<0.2
103912	Soil	13	29	0.53	300	0.065	4	1.21	0.031	0.06	0.2	0.05	4.0	<0.1	0.06	4	<0.5	<0.2
103913	Soil	18	38	0.49	252	0.086	2	1.67	0.023	0.07	0.2	0.07	4.9	<0.1	<0.05	5	<0.5	<0.2
103914	Soil	20	35	0.48	248	0.056	2	1.85	0.008	0.10	0.1	0.06	4.3	<0.1	<0.05	7	<0.5	<0.2
103915	Soil	9	28	0.42	179	0.071	<1	1.33	0.011	0.09	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
103916	Soil	23	44	0.48	265	0.086	<1	1.81	0.015	0.06	0.1	0.16	5.5	<0.1	<0.05	6	<0.5	<0.2
103917	Soil	19	41	0.51	282	0.082	1	1.93	0.017	0.06	0.1	0.13	7.0	<0.1	<0.05	6	<0.5	<0.2
103918	Soil	9	38	0.46	282	0.067	4	2.01	0.010	0.08	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
103919	Soil	12	27	0.44	304	0.045	4	1.62	0.009	0.15	0.1	0.26	3.7	<0.1	<0.05	5	<0.5	<0.2
103920	Soil	10	30	0.53	274	0.061	<1	2.03	0.007	0.21	0.2	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
103921	Soil	12	25	0.62	243	0.103	<1	1.97	0.008	0.32	0.1	0.04	4.2	0.2	<0.05	7	<0.5	2.4
103922	Soil	16	24	0.58	253	0.086	<1	1.84	0.007	0.30	0.2	0.02	2.2	0.2	<0.05	8	<0.5	<0.2
103923	Soil	35	35	0.63	327	0.045	1	2.02	0.008	0.16	0.4	0.04	4.5	<0.1	<0.05	10	<0.5	<0.2
103924	Soil	46	52	0.47	477	0.057	3	1.97	0.009	0.20	0.3	0.34	5.7	<0.1	<0.05	6	<0.5	<0.2
103925	Soil	41	40	0.55	259	0.075	<1	1.99	0.010	0.19	0.2	0.04	5.7	0.1	<0.05	7	<0.5	<0.2
103926	Soil	39	27	0.60	235	0.055	<1	1.89	0.023	0.11	0.1	0.06	4.0	<0.1	<0.05	7	<0.5	<0.2
103927	Soil	11	37	0.67	201	0.137	<1	2.19	0.008	0.27	0.2	0.01	3.7	0.1	<0.05	7	<0.5	<0.2
103928	Soil	12	71	1.62	204	0.172	3	2.86	0.012	0.12	0.3	0.01	6.4	<0.1	<0.05	8	<0.5	<0.2
103929	Soil	26	56	0.87	234	0.114	<1	2.10	0.008	0.26	0.5	0.02	5.1	<0.1	<0.05	8	<0.5	<0.2
110517	Soil	14	27	0.77	350	0.042	<1	1.54	0.017	0.05	0.5	0.27	3.6	<0.1	<0.05	4	0.6	<0.2
110518	Soil	26	14	0.28	494	0.003	<1	1.24	0.004	0.13	1.3	0.20	3.5	0.1	<0.05	4	<0.5	<0.2
110519	Soil	46	27	0.35	148	0.014	<1	1.28	0.006	0.03	1.6	0.11	6.6	<0.1	<0.05	5	0.6	<0.2
110520	Soil	23	11	0.25	157	0.008	<1	0.89	0.009	0.08	0.2	0.22	1.8	<0.1	<0.05	3	<0.5	<0.2
110521	Soil	9	59	1.00	170	0.093	1	3.88	0.017	0.13	0.2	0.01	5.5	<0.1	<0.05	12	<0.5	<0.2
110522	Soil	10	31	1.63	196	0.153	4	2.87	0.008	0.11	0.4	0.05	3.7	<0.1	<0.05	10	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 4 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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
110523	Soil	0.7	65.7	12.1	92	0.1	33.4	18.9	486	4.50	13.7	0.6	4.4	4.9	31	0.1	1.9	0.2	116	0.35	0.024
110524	Soil	3.3	31.6	16.8	113	<0.1	24.1	10.0	406	3.80	9.8	2.0	11.2	18.0	22	<0.1	0.7	0.2	48	0.24	0.028
110525	Soil	1.0	22.0	11.9	83	<0.1	24.9	10.6	452	3.28	11.2	0.9	<0.5	7.1	31	<0.1	0.6	0.2	69	0.33	0.028
110526	Soil	1.5	46.2	10.8	112	<0.1	25.0	12.0	611	3.47	8.8	1.2	7.1	13.1	28	<0.1	0.9	0.2	64	0.50	0.070
110527	Soil	0.8	24.5	9.9	52	<0.1	26.1	10.3	364	2.76	15.2	0.7	1.9	5.9	29	<0.1	0.7	0.2	57	0.46	0.039
110528	Soil	1.0	31.5	9.6	73	<0.1	27.2	11.4	517	2.98	11.3	1.1	3.7	6.5	34	<0.1	0.6	0.1	69	0.80	0.061
110529	Soil	4.1	41.2	22.1	84	1.5	27.1	11.0	552	3.25	13.4	1.3	9.9	9.6	30	0.1	2.5	0.5	57	0.62	0.032
110530	Soil	1.3	31.4	11.6	62	0.5	22.4	9.4	381	2.69	13.0	1.2	14.1	5.0	33	0.1	0.9	0.3	52	0.59	0.048
110531	Soil	3.2	30.7	19.4	54	2.6	14.9	7.0	266	2.34	9.4	1.7	4.6	5.6	30	0.1	2.9	0.3	39	0.40	0.034
110532	Soil	1.3	24.8	15.7	100	0.3	20.8	13.0	463	3.57	11.7	0.9	2.8	6.0	38	0.1	3.6	0.6	64	0.50	0.025
110533	Soil	1.3	35.8	14.7	56	0.2	25.8	10.4	432	2.82	16.0	3.0	2.9	5.9	27	0.1	1.3	0.2	57	0.39	0.029
110534	Soil	1.3	28.0	11.5	57	0.1	21.0	9.1	322	2.84	13.9	1.5	6.2	6.7	27	0.1	1.1	0.2	55	0.36	0.031
110535	Soil	1.2	24.5	23.7	63	0.1	19.0	8.2	282	2.66	5.9	0.9	7.4	5.9	22	<0.1	1.3	0.2	49	0.34	0.031
110536	Soil	1.4	27.2	11.0	76	0.1	27.1	11.4	611	3.17	7.0	1.3	7.5	6.6	31	0.1	1.2	0.2	56	0.54	0.058
110537	Soil	3.3	30.6	33.5	108	0.1	17.5	13.0	803	3.97	3.1	1.5	2.8	9.2	24	0.1	2.3	0.2	65	0.42	0.067
110538	Soil	1.5	34.1	14.5	61	<0.1	24.1	9.7	463	2.83	9.2	1.0	4.3	8.9	25	<0.1	1.0	0.2	54	0.34	0.035
110539	Soil	1.2	30.1	13.3	98	0.1	26.4	13.5	656	3.59	6.0	0.7	1.6	11.3	31	<0.1	0.6	0.1	63	0.60	0.049
110540	Soil	1.5	22.7	11.0	125	0.1	26.2	13.5	680	3.59	4.7	0.9	4.4	13.1	30	<0.1	0.6	<0.1	62	0.64	0.070
110541	Soil	1.2	28.4	12.4	122	0.1	18.4	14.0	656	3.59	5.0	1.3	1.0	12.1	56	<0.1	0.7	<0.1	60	0.58	0.068
111730	Soil	9.9	49.4	19.1	56	0.2	26.7	10.9	213	2.95	8.6	0.9	30.7	6.7	23	<0.1	1.3	0.6	57	0.26	0.015
111731	Soil	1.3	42.3	10.5	114	<0.1	13.9	13.2	556	3.32	5.4	1.1	10.2	7.9	54	<0.1	0.6	0.1	70	0.64	0.019
111732	Soil	0.7	12.1	11.5	211	<0.1	14.1	11.0	311	3.68	13.5	0.5	0.8	4.1	37	<0.1	1.5	<0.1	67	0.51	0.054
111733	Soil	1.2	78.0	125.3	149	0.1	16.5	8.9	314	2.55	12.1	1.0	14.1	9.5	51	<0.1	1.0	1.6	45	0.50	0.060
111734	Soil	0.6	28.2	15.5	114	<0.1	13.6	10.5	483	3.33	6.0	0.7	2.1	7.4	36	0.1	1.4	0.1	56	0.60	0.104
111735	Soil	0.4	57.7	5.6	92	<0.1	23.3	13.6	348	3.00	7.4	0.6	2.4	5.0	54	<0.1	0.9	<0.1	68	0.66	0.069
111736	Soil	1.4	28.5	9.1	62	<0.1	27.2	10.4	291	2.79	8.8	0.5	1.0	6.8	40	<0.1	0.8	0.1	62	0.44	0.031
111737	Soil	0.5	48.8	9.2	101	<0.1	18.9	13.0	317	3.42	6.8	0.9	2.1	7.5	48	<0.1	1.6	0.1	67	0.51	0.063
111738	Soil	0.7	49.2	7.3	111	<0.1	17.1	15.5	428	3.89	4.8	1.2	4.0	16.0	86	<0.1	1.2	0.3	84	0.81	0.120
111739	Soil	0.5	123.4	7.2	119	<0.1	37.0	25.5	570	4.18	5.0	0.8	4.9	7.4	48	<0.1	1.4	<0.1	108	0.84	0.102
111740	Soil	0.8	147.9	6.7	134	<0.1	41.2	26.6	709	4.81	5.2	0.8	7.1	5.6	59	<0.1	1.6	<0.1	116	0.94	0.123

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Page: 4 of 11 Part 2

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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	
110523	Soil	12	74	1.72	251	0.107	<1	3.09	0.011	0.09	0.3	0.05	11.6	0.1	<0.05	9	<0.5	<0.2
110524	Soil	15	45	0.73	180	0.059	1	2.14	0.007	0.28	0.2	0.02	4.7	0.2	<0.05	9	<0.5	<0.2
110525	Soil	13	42	0.72	249	0.115	2	2.17	0.011	0.24	0.1	0.02	5.6	0.1	<0.05	8	<0.5	<0.2
110526	Soil	29	35	0.88	193	0.050	1	1.74	0.012	0.09	0.2	0.06	6.6	<0.1	<0.05	9	<0.5	<0.2
110527	Soil	22	34	0.54	258	0.085	2	1.56	0.020	0.07	0.1	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2
110528	Soil	48	41	0.86	207	0.073	3	1.66	0.019	0.07	0.2	0.06	7.3	0.1	<0.05	7	<0.5	<0.2
110529	Soil	27	36	0.59	306	0.058	5	1.73	0.018	0.11	0.2	0.27	6.6	0.1	<0.05	6	<0.5	<0.2
110530	Soil	18	28	0.54	389	0.073	2	1.55	0.019	0.09	0.2	0.11	4.5	<0.1	<0.05	5	<0.5	<0.2
110531	Soil	23	23	0.35	595	0.040	4	1.55	0.012	0.16	0.2	0.18	3.5	<0.1	<0.05	5	<0.5	<0.2
110532	Soil	12	35	0.89	362	0.050	4	2.11	0.012	0.13	0.2	0.33	4.5	<0.1	<0.05	8	<0.5	<0.2
110533	Soil	28	38	0.53	376	0.077	3	1.58	0.019	0.08	0.2	0.14	6.1	<0.1	<0.05	5	1.0	<0.2
110534	Soil	20	32	0.48	282	0.073	3	1.58	0.016	0.07	0.2	0.07	5.7	<0.1	<0.05	5	<0.5	<0.2
110535	Soil	16	33	0.43	215	0.051	2	1.48	0.015	0.07	0.1	0.07	5.1	<0.1	<0.05	5	0.9	<0.2
110536	Soil	21	46	0.60	313	0.045	2	1.52	0.016	0.07	0.2	0.06	5.2	<0.1	<0.05	5	1.0	<0.2
110537	Soil	27	28	0.60	354	0.035	1	1.38	0.007	0.22	0.3	0.07	7.0	<0.1	<0.05	6	0.7	<0.2
110538	Soil	26	33	0.43	275	0.054	2	1.47	0.014	0.06	0.3	0.05	5.0	<0.1	<0.05	4	0.6	<0.2
110539	Soil	25	38	0.88	274	0.105	2	2.07	0.009	0.48	0.2	0.05	4.0	0.3	<0.05	8	0.9	<0.2
110540	Soil	30	39	1.04	242	0.111	2	2.04	0.009	0.58	0.2	0.06	3.4	0.3	<0.05	10	0.6	<0.2
110541	Soil	21	33	0.92	291	0.132	2	2.24	0.010	0.35	0.3	0.03	3.3	0.2	<0.05	9	0.6	<0.2
111730	Soil	23	37	0.43	280	0.050	<1	1.71	0.011	0.10	4.8	0.17	6.4	0.1	<0.05	5	1.0	<0.2
111731	Soil	13	17	1.26	169	0.046	1	2.27	0.009	0.12	0.4	0.10	6.4	<0.1	<0.05	11	0.8	<0.2
111732	Soil	17	25	1.03	159	0.020	1	2.52	0.009	0.12	0.2	0.04	3.2	<0.1	<0.05	12	0.6	<0.2
111733	Soil	21	27	0.50	117	0.075	<1	1.55	0.012	0.16	0.2	0.16	2.9	0.1	<0.05	5	0.7	0.4
111734	Soil	16	20	0.90	274	0.096	2	1.95	0.012	0.43	0.2	0.05	3.1	0.2	<0.05	7	<0.5	<0.2
111735	Soil	19	38	1.04	263	0.169	<1	1.85	0.028	0.16	0.1	0.03	4.2	<0.1	<0.05	6	0.8	<0.2
111736	Soil	12	45	0.60	202	0.087	1	1.74	0.018	0.11	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
111737	Soil	20	27	0.82	213	0.129	1	1.90	0.012	0.17	<0.1	0.06	5.5	<0.1	<0.05	7	1.1	<0.2
111738	Soil	33	29	1.11	232	0.155	1	2.32	0.023	0.21	0.1	0.02	6.5	0.1	<0.05	9	<0.5	<0.2
111739	Soil	37	97	1.73	201	0.127	1	2.55	0.018	0.05	0.1	0.05	8.9	<0.1	<0.05	9	0.5	<0.2
111740	Soil	28	117	1.97	225	0.114	<1	2.87	0.017	0.05	0.2	0.08	10.4	<0.1	<0.05	10	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
111741	Soil	1.1	38.0	12.5	123	<0.1	22.2	15.9	573	3.62	6.8	0.4	2.3	4.2	60	0.1	3.5	<0.1	71	0.64	0.114
111742	Soil	0.7	71.9	8.4	105	<0.1	20.6	12.6	354	3.30	7.9	0.5	0.8	2.9	79	<0.1	1.4	<0.1	78	0.75	0.076
111743	Soil	0.7	10.5	9.4	44	<0.1	7.9	5.0	169	2.11	7.7	0.8	1.9	4.6	16	<0.1	3.8	<0.1	31	0.27	0.023
111744	Soil	1.3	23.0	11.2	59	<0.1	16.3	7.8	227	2.34	6.3	0.9	5.3	8.6	16	<0.1	2.2	0.8	36	0.23	0.024
111745	Soil	0.9	13.7	8.7	52	<0.1	17.2	7.8	405	2.25	5.8	0.5	5.5	5.0	17	0.1	1.4	0.1	47	0.17	0.018
111746	Soil	1.3	16.4	9.7	63	<0.1	18.4	10.0	444	2.71	6.4	0.6	2.9	8.1	31	0.1	0.7	0.1	52	0.25	0.033
111747	Soil	1.3	34.7	15.9	82	0.2	16.3	11.1	550	3.27	3.3	1.5	17.7	20.9	23	<0.1	3.6	0.2	26	0.34	0.049
111748	Soil	1.1	37.4	9.2	51	<0.1	25.8	8.0	267	2.64	8.2	1.0	13.3	8.3	27	<0.1	1.0	0.1	56	0.40	0.043
111749	Soil	1.2	18.5	9.9	65	<0.1	20.9	9.7	258	3.06	9.4	0.6	1.2	7.5	26	<0.1	0.7	0.1	61	0.31	0.024
111750	Soil	1.0	41.8	16.6	83	<0.1	15.1	9.4	214	3.58	4.4	2.0	6.3	21.4	15	<0.1	1.6	0.4	51	0.19	0.033
111751	Soil	1.1	15.5	8.9	69	<0.1	14.4	7.4	399	2.79	4.2	0.7	1.1	8.4	17	<0.1	0.6	0.2	38	0.17	0.026
111752	Soil	1.0	74.3	25.4	194	<0.1	40.4	15.0	928	3.79	9.3	2.0	5.9	23.7	26	0.2	0.4	0.1	55	0.40	0.027
111753	Soil	0.9	19.9	9.7	58	<0.1	18.0	10.1	401	2.68	3.9	0.7	9.6	7.3	25	<0.1	0.3	<0.1	36	0.24	0.018
111754	Soil	0.9	23.4	6.1	79	<0.1	13.9	11.2	457	3.66	4.6	1.2	2.1	8.9	28	<0.1	0.5	<0.1	49	0.34	0.028
111755	Soil	10.1	34.6	26.4	72	0.7	25.5	11.0	462	3.10	6.1	1.1	188.7	8.9	22	<0.1	1.6	0.2	51	0.30	0.034
111756	Soil	1.9	27.9	15.7	90	0.3	20.0	10.3	591	3.25	5.6	0.8	40.5	8.3	30	0.1	2.5	0.2	54	0.45	0.064
111757	Soil	1.2	24.3	10.9	70	<0.1	18.9	11.6	571	3.24	5.1	0.9	18.5	6.2	27	<0.1	1.2	0.1	66	0.43	0.032
111758	Soil	1.4	32.8	9.7	67	0.2	26.6	9.9	436	2.70	7.5	0.5	13.0	4.6	34	0.2	0.8	0.1	54	0.60	0.047
111759	Soil	1.0	31.7	10.4	65	0.2	24.6	9.7	415	2.80	9.6	1.0	7.5	4.2	50	0.1	0.9	0.2	52	0.97	0.058
111760	Soil	1.1	31.3	9.9	57	0.2	24.8	9.9	441	2.73	11.4	1.1	9.1	4.7	37	<0.1	0.7	0.2	52	0.59	0.052
113445	Soil	2.1	38.2	13.2	126	0.1	22.9	11.0	449	4.90	28.8	0.9	10.9	7.9	29	0.1	5.0	<0.1	104	0.59	0.129
113446	Soil	1.2	34.1	13.4	75	<0.1	31.5	11.2	269	3.39	12.0	0.9	3.8	7.4	40	<0.1	1.1	0.2	70	0.28	0.013
113447	Soil	1.3	17.5	11.9	71	0.1	16.3	8.3	566	2.64	11.0	0.9	1.6	7.8	26	0.2	1.6	0.2	44	0.29	0.023
113448	Soil	1.0	13.1	9.5	59	<0.1	18.3	8.7	702	2.49	9.6	0.4	<0.5	4.5	25	<0.1	0.4	0.1	55	0.26	0.025
113449	Soil	0.8	26.6	10.8	84	<0.1	22.4	9.7	333	3.14	15.3	1.1	0.9	16.1	45	0.1	0.8	0.1	61	0.39	0.053
113450	Soil	0.9	38.7	9.7	83	<0.1	22.9	8.1	332	2.99	13.3	1.2	14.4	8.6	47	<0.1	0.7	0.1	57	0.57	0.059
113451	Soil	1.3	28.8	10.8	50	0.1	24.0	8.3	260	2.55	13.2	0.7	2.0	5.0	30	<0.1	0.6	0.2	55	0.37	0.033
113452	Soil	1.0	26.8	17.3	72	0.1	19.3	9.2	479	2.83	12.2	1.0	3.3	6.5	36	0.1	0.8	0.2	53	0.48	0.016
113453	Soil	0.3	23.7	6.6	52	0.2	14.4	7.4	404	1.68	9.8	2.1	9.9	2.9	49	0.2	0.7	0.1	37	1.09	0.078
113454	Soil	1.0	22.9	10.1	51	<0.1	20.7	7.6	270	2.56	12.3	0.8	0.7	4.9	29	<0.1	0.6	0.1	59	0.44	0.035

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 5 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
111741	Soil	11	40	1.45	179	0.097	2	2.63	0.008	0.05	0.2	0.56	3.7	<0.1	<0.05	9	0.6	<0.2
111742	Soil	9	40	1.83	128	0.147	2	2.76	0.017	0.10	0.1	0.02	5.2	<0.1	<0.05	10	0.6	<0.2
111743	Soil	20	11	0.26	324	0.003	4	1.44	0.006	0.10	0.3	0.07	3.2	0.1	<0.05	4	<0.5	<0.2
111744	Soil	12	26	0.40	260	0.027	2	1.48	0.008	0.12	0.2	0.15	3.4	<0.1	<0.05	5	<0.5	<0.2
111745	Soil	9	27	0.45	269	0.044	2	1.54	0.008	0.07	0.3	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
111746	Soil	9	30	0.48	272	0.060	2	1.76	0.009	0.11	0.2	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
111747	Soil	29	20	0.56	230	0.015	5	1.88	0.010	0.17	0.4	0.29	3.0	0.1	<0.05	7	1.1	<0.2
111748	Soil	23	37	0.54	188	0.075	2	1.50	0.018	0.08	0.3	0.06	5.1	<0.1	<0.05	5	0.8	<0.2
111749	Soil	9	37	0.55	277	0.067	1	2.18	0.008	0.10	0.2	0.02	3.1	<0.1	<0.05	7	0.7	<0.2
111750	Soil	47	26	0.31	107	0.020	1	1.12	0.006	0.07	0.3	0.05	6.8	<0.1	<0.05	5	0.6	<0.2
111751	Soil	16	23	0.53	153	0.076	1	1.75	0.011	0.25	0.2	0.01	3.6	0.1	<0.05	6	0.5	<0.2
111752	Soil	67	39	0.85	277	0.125	2	1.93	0.010	0.40	0.2	0.14	4.3	0.3	<0.05	8	0.9	<0.2
111753	Soil	9	21	0.88	172	0.103	2	1.97	0.008	0.16	0.4	<0.01	2.5	0.1	<0.05	6	<0.5	<0.2
111754	Soil	27	20	1.20	206	0.143	<1	2.25	0.010	0.41	0.3	0.01	5.8	0.2	<0.05	9	0.8	<0.2
111755	Soil	27	32	0.73	231	0.065	2	1.91	0.015	0.13	4.8	0.20	5.0	0.1	<0.05	6	0.6	0.7
111756	Soil	35	27	0.81	381	0.054	4	1.92	0.017	0.13	1.7	0.15	4.8	0.1	<0.05	7	<0.5	<0.2
111757	Soil	22	30	0.76	246	0.099	4	2.28	0.015	0.16	1.0	0.03	5.2	0.1	<0.05	8	<0.5	<0.2
111758	Soil	19	34	0.62	335	0.080	3	1.74	0.023	0.08	0.5	0.06	4.1	<0.1	<0.05	5	0.6	<0.2
111759	Soil	15	29	0.67	362	0.077	3	1.73	0.031	0.09	0.3	0.04	4.5	<0.1	0.07	5	<0.5	<0.2
111760	Soil	16	31	0.59	297	0.076	2	1.74	0.024	0.07	0.3	0.04	4.6	<0.1	<0.05	5	0.7	<0.2
113445	Soil	12	36	0.79	270	0.011	3	1.91	0.009	0.04	0.3	0.09	10.3	<0.1	<0.05	12	<0.5	<0.2
113446	Soil	25	55	0.68	308	0.099	2	2.49	0.015	0.06	0.2	0.05	8.7	<0.1	<0.05	8	<0.5	<0.2
113447	Soil	19	26	0.50	379	0.036	3	1.75	0.010	0.10	0.2	0.09	3.1	<0.1	<0.05	5	<0.5	<0.2
113448	Soil	10	30	0.46	324	0.053	3	1.69	0.009	0.06	0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
113449	Soil	22	36	0.69	206	0.104	1	2.01	0.013	0.13	0.3	0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
113450	Soil	23	37	0.78	199	0.097	1	1.71	0.020	0.08	0.3	0.07	5.9	<0.1	<0.05	7	0.6	<0.2
113451	Soil	14	35	0.49	192	0.079	2	1.41	0.016	0.07	0.3	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
113452	Soil	16	28	0.53	260	0.070	2	1.52	0.027	0.07	0.3	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
113453	Soil	18	20	0.41	315	0.048	3	1.08	0.018	0.06	0.3	0.08	2.9	<0.1	<0.05	4	<0.5	<0.2
113454	Soil	13	32	0.49	293	0.070	2	1.58	0.021	0.06	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 6 of 11 Part 1

CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
113455	Soil		0.7	31.2	9.8	58	<0.1	26.1	10.0	433	2.82	15.5	0.7	2.2	5.0	39	<0.1	0.8	0.2	60	0.61	0.028
113456	Soil		0.5	29.0	16.5	110	<0.1	17.6	10.1	420	3.38	11.1	2.5	9.0	24.3	37	<0.1	1.4	0.1	48	0.42	0.046
113457	Soil		3.1	35.3	17.0	96	0.3	16.8	10.0	474	3.38	10.2	1.4	27.6	18.6	38	0.1	1.7	0.6	45	0.44	0.043
113458	Soil		0.9	42.8	19.3	99	<0.1	20.1	10.5	606	3.71	10.3	1.9	6.6	14.5	28	0.1	5.5	0.3	44	0.40	0.078
113459	Soil		1.1	16.7	30.6	84	<0.1	13.0	10.5	431	2.99	9.9	1.5	4.8	22.5	47	0.1	1.3	0.2	39	0.39	0.044
113460	Soil		1.1	29.1	15.2	67	0.2	23.6	9.1	316	2.98	14.3	1.3	25.8	10.5	31	<0.1	0.7	0.2	55	0.38	0.064
113461	Soil		1.4	34.2	27.3	62	0.2	28.7	9.6	330	2.67	16.6	1.0	16.9	13.3	31	<0.1	1.5	0.4	50	0.41	0.026
113462	Soil		1.3	29.4	18.8	65	0.2	20.8	7.1	334	2.58	13.3	1.6	4.6	19.6	27	<0.1	3.0	0.3	40	0.35	0.025
113463	Soil		1.3	55.4	9.2	55	0.3	27.3	9.0	310	2.18	14.8	0.9	6.9	3.5	124	0.2	1.4	0.1	45	7.12	0.053
113464	Soil		2.1	31.0	10.8	54	0.2	22.0	7.1	388	2.52	9.6	2.1	6.6	6.0	41	<0.1	1.4	0.3	49	0.71	0.054
113465	Soil		1.6	36.7	13.2	73	0.2	24.3	9.1	414	2.72	12.2	0.7	8.7	6.7	41	0.2	1.0	0.2	52	0.68	0.041
113466	Soil		0.8	29.9	9.7	73	0.1	25.4	9.3	417	2.55	14.8	0.6	2.2	4.4	49	0.2	0.8	0.2	47	1.43	0.072
113467	Soil		0.9	33.3	10.2	56	0.1	24.3	8.8	386	2.57	12.1	0.8	1.4	6.2	52	<0.1	0.7	0.2	56	1.56	0.045
113468	Soil		0.8	35.5	9.2	66	0.1	27.0	10.7	477	2.61	12.4	0.6	3.2	5.2	62	0.2	0.9	0.2	53	1.85	0.082
113469	Soil		0.7	35.8	11.0	61	0.2	27.0	9.7	433	2.72	12.3	1.0	1.8	5.2	46	0.1	0.8	0.2	54	0.71	0.046
113470	Soil		0.8	31.8	9.4	59	0.2	25.3	9.9	484	2.57	13.0	2.3	5.7	3.4	62	0.1	0.8	0.2	53	1.14	0.071
113471	Soil		0.7	32.2	9.2	58	0.1	25.1	9.2	385	2.61	13.6	1.0	3.5	3.7	51	<0.1	0.7	0.2	55	1.08	0.065
113472	Soil		0.9	24.4	9.7	56	0.1	20.2	8.8	384	2.34	12.6	0.7	2.1	4.9	36	<0.1	0.7	0.1	47	0.62	0.052
113473	Soil		0.7	59.4	5.7	139	0.3	77.0	29.9	1354	5.69	8.9	0.7	26.3	2.9	21	<0.1	0.7	<0.1	171	0.86	0.037
113474	Soil		0.8	23.5	10.0	45	0.1	17.2	10.0	323	2.09	11.4	0.7	2.0	4.4	37	<0.1	0.8	0.1	38	0.62	0.057
105837	Soil		1.4	15.5	22.2	42	0.1	20.5	5.6	415	1.67	17.3	0.6	12.6	3.3	32	0.3	0.6	0.3	47	2.14	0.041
105838	Soil		0.6	17.0	7.6	24	0.1	13.0	5.0	185	1.32	11.0	0.8	20.1	7.6	18	<0.1	0.5	0.2	33	0.27	0.017
105839	Soil		1.8	10.4	10.3	40	<0.1	14.4	7.2	295	2.27	12.7	0.5	1.1	3.5	12	0.1	0.5	0.2	56	0.14	0.028
105840	Soil		1.5	10.4	9.9	43	<0.1	16.0	6.5	270	2.34	11.4	0.4	1.1	3.1	13	<0.1	0.4	0.2	56	0.16	0.034
105841	Soil		0.8	82.3	7.7	117	0.1	49.2	12.8	732	3.32	6.3	0.8	14.0	8.6	24	<0.1	0.8	0.2	52	0.67	0.031
105842	Soil		0.2	34.6	9.0	100	<0.1	9.3	4.6	583	2.13	3.8	1.0	12.9	12.9	16	<0.1	2.3	0.2	20	0.45	0.029
105843	Soil		1.3	17.2	16.8	91	0.1	17.0	8.3	479	2.30	5.8	0.7	2.2	4.4	19	0.2	0.8	0.2	43	0.36	0.051
105844	Soil		0.7	27.3	9.1	63	<0.1	18.3	7.9	225	2.57	8.6	0.7	6.0	5.3	32	<0.1	0.8	0.2	56	0.47	0.063
105845	Soil		0.9	24.3	13.8	179	<0.1	21.1	15.5	706	4.61	7.7	1.1	18.6	6.6	91	0.1	1.6	0.1	95	0.71	0.099
105846	Soil		1.0	50.6	11.8	119	<0.1	34.2	21.3	650	4.04	5.9	0.6	1.2	3.9	48	0.1	1.0	0.1	108	0.55	0.084

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 6 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000771.1

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
113455	Soil	16	33	0.57	332	0.075	3	1.69	0.032	0.07	0.2	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
113456	Soil	52	23	0.69	215	0.034	1	1.77	0.012	0.08	0.3	0.06	4.9	<0.1	<0.05	8	<0.5	<0.2
113457	Soil	39	28	0.68	187	0.052	2	1.97	0.007	0.09	1.3	0.08	5.2	<0.1	<0.05	10	<0.5	<0.2
113458	Soil	33	26	0.81	224	0.025	4	1.95	0.008	0.22	0.3	0.59	5.2	0.1	<0.05	9	<0.5	<0.2
113459	Soil	49	22	0.48	197	0.020	2	1.88	0.006	0.18	0.2	0.01	3.9	<0.1	<0.05	8	<0.5	<0.2
113460	Soil	29	36	0.53	206	0.061	2	1.95	0.009	0.15	0.4	0.04	5.4	<0.1	<0.05	6	<0.5	<0.2
113461	Soil	27	34	0.48	237	0.066	2	1.67	0.013	0.11	0.3	0.13	4.7	<0.1	<0.05	6	<0.5	<0.2
113462	Soil	35	26	0.43	208	0.043	2	1.62	0.008	0.12	0.3	0.20	4.7	<0.1	<0.05	7	<0.5	<0.2
113463	Soil	17	25	0.63	291	0.051	3	1.33	0.025	0.08	0.3	0.13	3.4	<0.1	0.08	4	0.8	<0.2
113464	Soil	21	31	0.53	347	0.063	5	1.46	0.024	0.08	0.2	0.14	4.4	<0.1	0.07	5	<0.5	<0.2
113465	Soil	24	30	0.59	358	0.066	3	1.78	0.025	0.09	0.2	0.08	4.3	<0.1	<0.05	6	<0.5	<0.2
113466	Soil	15	26	0.68	336	0.070	4	1.36	0.029	0.09	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
113467	Soil	17	29	0.58	273	0.087	3	1.67	0.031	0.08	0.2	0.04	4.5	<0.1	<0.05	5	0.5	<0.2
113468	Soil	16	29	0.78	300	0.078	3	1.37	0.035	0.09	0.3	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
113469	Soil	19	32	0.58	323	0.080	3	1.74	0.036	0.08	0.2	0.04	4.8	<0.1	<0.05	5	0.5	<0.2
113470	Soil	16	28	0.61	351	0.057	4	1.46	0.035	0.07	0.2	0.03	3.8	<0.1	<0.05	4	1.2	<0.2
113471	Soil	15	29	0.66	302	0.068	3	1.51	0.030	0.08	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
113472	Soil	14	25	0.50	246	0.072	3	1.43	0.025	0.11	0.3	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
113473	Soil	14	167	3.39	132	0.301	3	3.40	0.012	0.86	4.4	0.07	19.8	0.6	<0.05	14	<0.5	<0.2
113474	Soil	14	18	0.40	218	0.066	3	1.22	0.025	0.06	0.2	0.04	3.1	<0.1	<0.05	4	0.7	<0.2
105837	Soil	15	27	1.12	258	0.029	5	1.44	0.010	0.08	0.8	0.11	4.6	<0.1	0.05	5	<0.5	<0.2
105838	Soil	35	18	0.25	469	0.017	3	1.11	0.010	0.09	0.3	0.03	2.7	<0.1	<0.05	3	0.9	<0.2
105839	Soil	9	25	0.32	168	0.048	4	1.27	0.007	0.11	0.2	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
105840	Soil	9	28	0.35	197	0.047	3	1.37	0.006	0.10	0.2	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
105841	Soil	23	77	1.18	245	0.036	<1	1.98	0.012	0.06	0.5	0.09	5.0	<0.1	<0.05	9	<0.5	<0.2
105842	Soil	24	9	0.61	163	0.015	1	1.30	0.007	0.15	0.2	0.08	2.5	0.2	<0.05	6	<0.5	<0.2
105843	Soil	6	30	0.52	176	0.045	<1	1.38	0.009	0.14	0.2	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
105844	Soil	14	32	0.57	122	0.083	<1	1.43	0.011	0.15	0.3	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
105845	Soil	25	37	1.26	396	0.128	<1	3.07	0.010	0.19	0.4	0.03	7.9	<0.1	<0.05	14	<0.5	<0.2
105846	Soil	5	102	1.41	303	0.085	<1	2.48	0.016	0.10	0.3	0.01	8.4	<0.1	<0.05	11	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 7 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
105847	Soil	3.0	32.9	30.7	51	0.8	17.4	7.1	232	2.34	6.9	1.5	22.3	17.7	21	<0.1	4.2	0.3	31	0.31	0.022
105848	Soil	1.0	13.6	11.0	60	0.1	16.2	7.6	422	2.32	6.4	0.7	4.7	4.4	40	<0.1	0.6	0.1	46	0.35	0.021
105849	Soil	1.0	38.4	10.5	94	<0.1	30.7	18.2	523	3.55	4.4	0.8	6.5	8.5	46	<0.1	0.9	0.1	78	0.61	0.025
105850	Soil	1.4	40.3	15.3	79	0.2	26.1	12.4	574	3.12	7.6	1.0	15.1	7.7	36	<0.1	1.1	0.2	66	0.60	0.037
105851	Soil	0.7	30.7	11.9	67	0.1	20.6	9.6	321	2.88	7.5	1.2	31.6	7.4	34	<0.1	0.9	0.2	60	0.56	0.028
105852	Soil	1.5	20.4	10.8	82	<0.1	17.5	10.3	520	2.76	5.6	0.8	3.5	6.3	62	0.1	0.8	0.1	59	0.60	0.031
105853	Soil	1.3	18.9	10.8	65	<0.1	18.4	11.1	439	3.05	9.1	1.3	1.2	12.9	22	<0.1	0.9	0.2	54	0.35	0.041
105854	Soil	1.5	31.2	14.9	90	0.1	18.3	13.0	524	4.08	12.2	2.2	6.3	21.5	33	<0.1	3.2	0.1	59	0.39	0.037
105855	Soil	1.3	45.5	18.2	108	<0.1	15.1	12.4	579	4.51	5.4	3.4	7.9	43.1	30	<0.1	3.4	0.4	59	0.49	0.075
105856	Soil	0.9	36.2	10.0	60	<0.1	26.2	10.5	431	2.89	9.0	0.8	11.6	7.0	35	<0.1	0.8	0.2	62	0.51	0.042
105857	Soil	1.3	23.2	11.7	70	<0.1	14.0	8.2	514	3.02	5.8	1.2	3.5	13.7	26	<0.1	2.1	0.2	46	0.37	0.027
105858	Soil	2.1	29.6	21.0	80	<0.1	24.7	9.4	531	2.77	5.6	0.9	4.1	9.4	29	<0.1	1.6	0.2	50	0.49	0.018
105859	Soil	0.9	32.1	10.1	48	0.1	27.3	8.9	343	2.62	9.0	0.6	4.7	5.8	35	<0.1	0.7	0.2	56	0.56	0.039
105860	Soil	1.3	30.1	10.6	63	<0.1	19.7	10.0	427	2.48	6.1	2.8	3.8	7.0	38	<0.1	0.7	0.2	49	0.61	0.054
105861	Soil	1.5	47.4	12.0	61	0.2	27.2	9.4	775	2.42	6.0	1.9	7.3	4.4	56	0.5	0.7	0.2	48	0.92	0.063
105862	Soil	1.2	14.7	8.2	90	<0.1	6.9	8.2	594	3.13	4.0	1.3	17.3	14.9	21	<0.1	1.1	<0.1	40	0.46	0.048
105863	Soil	0.9	16.2	11.9	105	<0.1	16.6	11.4	635	3.35	4.0	1.2	4.5	7.9	37	<0.1	0.9	<0.1	54	0.62	0.092
105864	Soil	1.6	19.9	11.8	59	<0.1	14.9	9.3	433	2.64	7.4	0.8	8.2	7.3	31	<0.1	0.7	0.1	51	0.38	0.042
105865	Soil	1.2	15.5	11.0	57	<0.1	15.1	9.1	271	2.57	6.5	0.7	6.1	7.0	27	<0.1	0.8	0.1	52	0.33	0.030
105866	Soil	1.6	29.3	13.0	60	0.1	26.2	8.5	318	2.55	7.1	1.4	4.9	5.4	42	0.1	0.7	0.2	50	0.56	0.057
105867	Soil	1.0	31.2	8.7	52	0.1	24.6	8.4	325	2.39	6.9	2.4	3.0	4.7	42	0.1	0.7	0.2	50	0.60	0.057
105868	Soil	1.1	21.1	9.3	48	<0.1	18.9	8.4	337	2.42	7.6	2.4	5.9	4.7	35	<0.1	0.5	0.2	53	0.48	0.052
105869	Soil	0.7	21.5	17.5	156	0.2	23.8	16.1	426	4.13	5.5	1.2	2.0	9.0	21	0.3	4.0	<0.1	92	0.33	0.046
105870	Soil	1.5	19.5	16.4	104	0.1	23.8	15.0	524	4.07	10.6	0.6	2.9	3.5	49	0.2	3.7	0.1	101	0.48	0.043
105871	Soil	2.4	65.9	33.3	118	0.5	22.7	15.4	682	4.79	40.5	0.6	2.9	9.0	20	0.3	2.2	<0.1	99	0.54	0.063
105872	Soil	1.6	67.3	10.3	136	0.3	21.3	19.1	1217	4.74	218.3	0.7	2.6	7.0	33	0.1	6.1	<0.1	104	1.15	0.140
105873	Soil	1.2	16.0	10.4	102	<0.1	19.5	11.0	503	3.34	13.6	0.7	0.9	4.3	29	0.1	2.0	<0.1	72	0.66	0.081
105874	Soil	3.4	17.9	24.7	100	<0.1	28.7	9.7	434	3.03	5.7	0.9	1.5	7.6	13	0.6	5.5	0.3	60	0.24	0.028
105875	Soil	5.4	19.8	24.6	111	0.7	14.5	8.1	351	3.09	9.1	1.6	15.4	23.0	24	0.5	6.7	0.5	36	0.46	0.047
105876	Soil	2.9	47.2	25.3	75	3.5	19.0	8.5	457	2.61	7.6	1.6	8.5	6.2	32	0.4	12.3	0.7	31	0.99	0.047

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Page: 7 of 11 Part 2

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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
105847	Soil	22	27	0.35	262	0.013	2	1.54	0.006	0.16	0.2	0.05	2.2	<0.1	<0.05	4	<0.5	<0.2
105848	Soil	7	26	0.48	219	0.063	<1	1.83	0.009	0.11	0.2	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
105849	Soil	21	48	1.30	289	0.165	<1	2.50	0.012	0.11	0.1	0.02	3.8	0.1	<0.05	8	<0.5	<0.2
105850	Soil	20	39	0.69	479	0.093	<1	2.00	0.028	0.09	0.2	0.11	5.2	<0.1	<0.05	7	<0.5	<0.2
105851	Soil	19	34	0.63	399	0.091	<1	1.93	0.024	0.08	0.2	0.06	5.1	<0.1	<0.05	6	<0.5	<0.2
105852	Soil	8	32	0.63	239	0.108	1	1.68	0.015	0.16	0.3	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
105853	Soil	12	30	0.54	214	0.070	1	1.73	0.012	0.18	0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
105854	Soil	31	28	1.07	195	0.020	<1	2.23	0.009	0.07	<0.1	0.10	7.0	<0.1	<0.05	10	0.6	<0.2
105855	Soil	81	24	0.90	177	0.039	<1	2.07	0.008	0.11	0.3	0.24	7.2	0.1	<0.05	10	<0.5	<0.2
105856	Soil	19	34	0.65	266	0.096	<1	1.66	0.031	0.08	0.1	0.06	4.9	<0.1	<0.05	5	<0.5	<0.2
105857	Soil	40	21	0.54	308	0.038	<1	1.78	0.012	0.11	0.3	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
105858	Soil	26	31	0.44	443	0.063	<1	1.84	0.016	0.10	0.2	0.10	4.7	<0.1	<0.05	6	<0.5	<0.2
105859	Soil	19	34	0.56	329	0.079	<1	1.61	0.026	0.06	0.2	0.04	4.5	<0.1	<0.05	5	<0.5	<0.2
105860	Soil	21	26	0.49	424	0.071	<1	1.46	0.022	0.06	0.2	0.06	4.1	<0.1	<0.05	5	<0.5	<0.2
105861	Soil	25	28	0.43	578	0.051	<1	1.53	0.024	0.06	0.1	0.08	3.5	<0.1	<0.05	5	0.5	<0.2
105862	Soil	28	11	0.67	192	0.020	<1	1.70	0.009	0.10	0.3	0.02	4.3	<0.1	<0.05	9	<0.5	<0.2
105863	Soil	21	19	0.85	180	0.031	<1	1.79	0.011	0.06	<0.1	0.03	4.7	<0.1	<0.05	9	<0.5	<0.2
105864	Soil	16	25	0.48	196	0.058	<1	1.38	0.012	0.06	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
105865	Soil	11	26	0.45	180	0.065	<1	1.62	0.010	0.08	0.1	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
105866	Soil	18	35	0.52	296	0.076	<1	1.61	0.022	0.09	0.2	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
105867	Soil	16	30	0.49	287	0.073	<1	1.48	0.021	0.06	0.2	0.05	3.6	<0.1	<0.05	4	0.7	<0.2
105868	Soil	14	31	0.52	243	0.076	<1	1.54	0.019	0.06	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
105869	Soil	13	43	0.82	406	0.008	<1	2.23	0.007	0.05	<0.1	0.45	7.5	<0.1	<0.05	10	0.5	<0.2
105870	Soil	10	44	0.99	360	0.068	<1	2.93	0.009	0.04	0.1	0.15	5.2	<0.1	<0.05	10	<0.5	<0.2
105871	Soil	35	21	0.26	255	0.003	<1	1.18	0.007	0.04	<0.1	0.30	12.8	<0.1	<0.05	5	0.8	<0.2
105872	Soil	28	25	0.98	338	0.016	<1	2.14	0.007	0.07	<0.1	0.49	10.0	<0.1	<0.05	10	1.1	<0.2
105873	Soil	11	30	0.65	273	0.031	<1	1.62	0.014	0.06	0.1	0.06	5.4	<0.1	<0.05	7	<0.5	<0.2
105874	Soil	5	54	0.57	172	0.026	<1	1.27	0.008	0.08	0.2	0.08	2.2	<0.1	<0.05	6	<0.5	<0.2
105875	Soil	36	18	0.38	433	0.004	2	1.16	0.007	0.13	0.1	0.25	4.1	<0.1	<0.05	5	<0.5	<0.2
105876	Soil	44	22	0.29	405	0.011	2	0.98	0.012	0.09	0.2	0.37	4.1	<0.1	<0.05	3	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 8 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
105877	Soil	1.9	35.9	22.4	103	0.8	21.0	13.2	789	2.79	29.1	0.7	57.1	5.5	31	0.8	3.1	0.7	44	2.64	0.054
105878	Soil	1.0	33.0	20.6	144	0.3	17.1	13.5	645	4.65	29.4	0.9	19.3	4.8	13	0.5	8.9	0.4	69	0.58	0.098
105879	Soil	0.8	73.0	8.4	134	0.1	18.2	22.0	774	5.61	118.0	0.8	6.7	5.5	41	0.5	3.4	0.4	153	3.80	0.111
105880	Soil	1.0	43.2	18.7	85	0.4	25.9	11.9	452	2.84	249.7	0.6	9.3	3.2	88	0.4	5.0	0.2	65	6.50	0.071
105881	Soil	2.2	85.4	50.3	100	1.9	47.0	14.7	809	2.57	21.2	0.7	11.5	6.7	36	0.5	16.7	1.2	41	2.39	0.070
105882	Soil	0.8	60.8	25.9	102	0.1	11.5	9.1	368	3.25	6.7	2.1	3.6	29.7	23	0.3	3.2	0.8	34	0.29	0.067
105883	Soil	1.3	37.2	11.8	54	0.1	31.8	9.7	352	3.09	12.8	1.3	7.5	8.1	29	0.3	1.2	0.4	66	0.36	0.042
105884	Soil	2.0	14.4	29.4	137	<0.1	15.5	8.8	459	3.79	8.5	1.3	5.1	11.6	28	0.4	3.4	0.4	69	0.42	0.052
105885	Soil	1.3	35.9	13.5	69	0.2	26.6	11.2	463	3.03	9.4	0.7	12.4	7.1	33	0.3	2.5	0.4	63	0.66	0.050
105886	Soil	1.5	38.0	25.0	84	0.2	22.9	9.2	417	2.73	10.3	0.7	14.5	7.4	29	0.3	5.1	0.8	52	0.49	0.030
105887	Soil	4.5	41.0	66.0	87	0.9	16.8	6.2	178	2.29	12.4	0.8	25.2	8.2	25	0.3	7.6	1.7	43	0.35	0.025
105888	Soil	2.9	53.8	49.4	121	0.8	30.0	11.7	782	3.13	39.7	0.9	253.5	7.5	27	0.5	2.9	0.6	49	0.66	0.042
105889	Soil	1.1	26.7	10.2	56	0.1	24.5	9.9	332	2.56	10.4	1.1	29.4	5.5	26	0.1	0.9	0.2	53	0.31	0.038
105890	Soil	1.3	24.5	10.9	55	<0.1	21.9	8.3	324	2.60	10.8	1.0	32.6	5.6	23	0.1	0.9	0.2	48	0.26	0.032
105891	Soil	1.5	97.1	25.5	123	0.3	14.8	7.9	399	2.27	6.6	1.2	64.7	10.4	23	0.4	1.1	0.7	26	0.25	0.035
105892	Soil	2.3	203.2	153.5	129	0.8	9.2	2.7	53	1.77	8.7	1.0	16.8	9.9	12	0.2	1.2	6.9	26	0.09	0.024
105893	Soil	1.0	20.9	11.6	151	<0.1	17.1	10.3	397	3.74	7.1	1.1	6.0	5.7	78	0.3	0.9	0.4	78	0.56	0.114
105894	Soil	0.8	11.8	13.5	64	<0.1	10.2	5.2	218	1.89	4.7	0.5	5.1	2.6	44	0.1	0.7	0.5	38	0.31	0.040
105895	Soil	1.6	29.0	12.3	60	0.2	24.8	8.0	719	2.31	4.8	0.6	17.8	5.0	40	0.2	0.7	0.3	51	0.48	0.046
116824	Soil	1.2	16.9	16.0	67	<0.1	17.9	8.8	297	2.99	6.3	0.8	3.2	6.1	19	0.2	1.2	0.2	75	0.20	0.024
116825	Soil	1.2	18.7	13.0	61	0.2	22.0	10.0	218	3.11	9.3	0.7	3.4	6.7	21	0.2	1.0	0.2	73	0.20	0.018
116826	Soil	1.4	15.2	13.9	84	0.2	21.2	9.8	366	3.41	10.2	0.5	3.7	5.4	21	0.3	1.3	0.3	78	0.24	0.042
116827	Soil	0.7	25.9	10.9	76	<0.1	26.0	10.5	409	3.37	9.0	0.9	3.3	6.2	29	<0.1	1.8	0.2	78	0.50	0.046
116828	Soil	1.0	52.0	13.5	112	0.1	24.6	14.3	675	4.00	9.0	0.7	5.4	4.0	53	0.4	4.0	0.1	97	0.73	0.061
116829	Soil	1.2	22.6	34.6	83	0.8	16.2	10.0	891	2.93	5.1	1.1	2.8	6.0	21	1.0	3.0	0.2	64	0.36	0.040
116830	Soil	1.0	13.2	35.1	137	0.2	14.2	10.0	500	4.33	7.2	0.8	6.8	8.8	27	0.2	3.6	0.1	86	0.63	0.071
116831	Soil	0.9	19.6	27.0	94	0.3	19.8	10.1	335	3.44	8.6	0.9	2.7	9.4	25	0.2	3.2	0.2	72	0.43	0.028
116832	Soil	1.3	24.7	18.7	103	0.4	25.1	11.5	398	3.69	8.0	0.8	3.3	5.5	52	0.4	4.5	0.2	84	0.45	0.027
116833	Soil	1.5	27.6	17.2	72	0.3	23.8	10.3	356	3.01	8.3	1.2	5.5	9.5	35	0.2	2.9	0.4	56	0.46	0.020
116834	Soil	1.0	26.6	14.9	67	0.3	15.3	9.3	431	3.14	6.7	0.9	6.4	5.0	34	0.3	8.3	0.2	56	0.49	0.018

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 8 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000771.1

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
105877	Soil	18	24	0.38	345	0.009	3	1.01	0.009	0.11	0.2	0.31	4.3	<0.1	0.07	4	<0.5	<0.2
105878	Soil	12	17	0.45	155	0.002	4	1.17	0.004	0.18	0.9	1.07	7.3	0.1	<0.05	5	0.6	<0.2
105879	Soil	28	23	1.87	293	0.005	4	2.97	0.012	0.13	0.1	0.23	13.8	<0.1	<0.05	12	<0.5	<0.2
105880	Soil	14	30	0.93	422	0.024	2	1.56	0.024	0.07	0.2	0.27	5.0	<0.1	0.07	6	0.8	<0.2
105881	Soil	17	42	0.36	270	0.011	3	1.05	0.012	0.14	0.4	0.41	3.1	0.1	0.06	3	0.5	<0.2
105882	Soil	28	15	0.44	248	0.008	2	1.78	0.006	0.20	0.3	0.04	3.2	0.2	<0.05	8	<0.5	<0.2
105883	Soil	29	47	0.52	223	0.086	2	1.74	0.016	0.08	0.2	0.07	5.1	<0.1	<0.05	5	0.7	<0.2
105884	Soil	12	26	0.38	253	0.028	<1	1.56	0.010	0.08	0.4	0.05	5.1	<0.1	<0.05	7	<0.5	<0.2
105885	Soil	25	38	0.69	491	0.059	3	1.78	0.032	0.08	0.3	0.22	5.1	<0.1	<0.05	6	0.5	<0.2
105886	Soil	23	32	0.56	375	0.054	2	1.61	0.018	0.10	0.2	0.20	4.0	<0.1	<0.05	5	0.6	<0.2
105887	Soil	18	30	0.37	689	0.045	1	1.38	0.011	0.08	0.2	0.22	2.9	<0.1	<0.05	4	0.9	<0.2
105888	Soil	35	32	0.55	459	0.040	2	1.74	0.018	0.12	1.0	0.29	5.0	<0.1	<0.05	6	<0.5	<0.2
105889	Soil	19	40	0.57	301	0.068	3	1.54	0.015	0.13	0.2	0.04	5.1	0.1	<0.05	5	0.6	<0.2
105890	Soil	20	35	0.53	282	0.067	2	1.40	0.014	0.16	0.2	0.03	4.5	0.1	<0.05	4	0.5	<0.2
105891	Soil	18	20	0.40	394	0.007	1	1.66	0.005	0.19	3.1	0.04	2.4	0.1	<0.05	5	<0.5	0.4
105892	Soil	11	14	0.13	119	0.006	<1	0.90	0.002	0.08	2.7	0.10	1.3	<0.1	<0.05	2	0.6	0.4
105893	Soil	15	30	1.15	230	0.192	2	2.60	0.014	0.60	0.5	0.02	2.7	0.2	<0.05	10	<0.5	<0.2
105894	Soil	5	16	0.43	144	0.021	<1	1.61	0.007	0.12	0.7	<0.01	1.6	0.2	<0.05	5	<0.5	<0.2
105895	Soil	18	33	0.49	285	0.056	1	1.62	0.016	0.10	1.1	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
116824	Soil	16	34	0.50	244	0.066	<1	2.07	0.011	0.05	0.1	0.05	3.4	0.1	<0.05	7	<0.5	<0.2
116825	Soil	15	40	0.55	325	0.068	1	2.46	0.013	0.05	0.1	0.04	3.5	<0.1	<0.05	7	<0.5	<0.2
116826	Soil	10	37	0.59	268	0.063	<1	2.53	0.008	0.09	0.1	0.05	2.8	<0.1	<0.05	8	<0.5	<0.2
116827	Soil	30	37	0.63	451	0.056	1	2.07	0.017	0.05	0.1	0.19	7.7	<0.1	<0.05	7	0.7	<0.2
116828	Soil	21	29	0.81	275	0.048	<1	1.69	0.017	0.04	0.1	0.25	9.7	<0.1	<0.05	7	0.6	<0.2
116829	Soil	53	26	0.40	424	0.030	2	1.82	0.013	0.08	0.1	0.12	4.8	<0.1	<0.05	7	<0.5	<0.2
116830	Soil	11	26	0.51	514	0.007	2	1.85	0.009	0.08	<0.1	0.07	8.0	<0.1	<0.05	8	<0.5	<0.2
116831	Soil	38	32	0.54	311	0.039	1	2.00	0.012	0.07	0.2	0.09	5.2	<0.1	<0.05	7	0.8	<0.2
116832	Soil	14	51	1.00	293	0.064	2	2.34	0.014	0.08	0.1	0.14	5.2	<0.1	<0.05	10	<0.5	<0.2
116833	Soil	33	36	0.54	333	0.046	3	1.60	0.017	0.10	0.1	0.13	4.9	<0.1	<0.05	6	0.6	<0.2
116834	Soil	16	28	0.50	509	0.032	1	1.92	0.013	0.12	0.1	0.18	3.7	<0.1	<0.05	6	<0.5	<0.2

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Page: 9 of 11 Part 1

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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	
116835	Soil	1.8	25.4	26.6	60	1.5	16.6	7.7	359	2.52	9.8	1.3	9.3	8.3	37	0.1	3.8	0.2	42	0.83	0.032
116836	Soil	0.9	29.9	27.3	90	0.2	16.7	10.4	554	3.36	6.2	1.5	<0.5	16.2	41	0.1	1.0	0.6	60	0.48	0.033
116837	Soil	1.5	31.9	22.8	94	0.2	22.6	9.2	445	3.18	10.3	2.0	5.1	20.5	41	0.2	1.8	1.1	59	0.48	0.041
116838	Soil	0.7	15.8	16.9	68	<0.1	18.0	7.0	424	2.68	7.8	1.5	3.6	11.9	18	0.1	3.1	0.3	44	0.31	0.025
116839	Soil	1.6	62.5	23.5	62	0.7	32.5	8.0	342	2.61	9.1	1.6	31.5	6.1	46	0.2	4.2	0.4	50	1.03	0.074
116840	Soil	1.0	18.2	11.0	56	<0.1	21.1	9.2	262	2.95	9.5	0.5	1.7	5.0	28	<0.1	0.5	0.2	64	0.35	0.018
116841	Soil	1.5	37.8	10.8	128	0.1	20.5	16.9	1314	3.44	5.2	0.4	<0.5	2.5	36	0.2	0.3	0.1	70	0.55	0.064
116842	Soil	0.5	36.6	65.6	190	<0.1	7.3	10.5	673	3.46	9.3	1.2	3.1	10.0	12	0.1	0.4	0.2	42	0.44	0.077
116843	Soil	1.4	29.2	8.9	64	<0.1	21.7	9.4	331	2.84	16.1	0.5	2.1	4.4	18	<0.1	0.8	0.1	53	0.38	0.026
116844	Soil	0.4	32.1	17.3	77	<0.1	9.5	4.4	497	1.41	12.4	0.7	11.3	4.0	97	0.2	1.2	0.1	20	10.70	0.031
116845	Soil	2.6	42.4	72.6	163	0.1	15.5	11.9	864	3.57	3.9	1.9	22.2	10.4	18	0.3	0.6	0.2	46	0.34	0.075
116846	Soil	2.1	143.6	30.0	86	0.4	30.9	8.0	199	2.29	9.8	0.6	26.0	7.7	18	<0.1	0.7	1.7	41	0.23	0.012
116847	Soil	1.3	30.7	10.9	58	0.2	20.4	8.3	435	2.28	6.6	0.8	3.8	3.3	28	<0.1	0.4	0.4	47	0.45	0.042
116848	Soil	0.9	34.7	9.1	85	0.1	21.1	11.6	403	3.05	8.8	0.7	10.9	6.7	30	<0.1	0.5	0.2	65	0.44	0.053
101520	Soil	0.8	29.8	8.4	59	0.1	28.0	10.1	459	2.50	13.1	0.5	4.2	1.5	50	0.3	0.6	0.1	49	4.71	0.047
101521	Soil	1.1	41.4	12.8	53	1.8	27.7	9.0	337	2.88	13.7	0.6	3.0	6.8	23	<0.1	2.2	0.2	56	0.40	0.021
101522	Soil	1.5	15.6	10.6	97	<0.1	9.2	10.0	122	3.94	9.9	0.5	2.7	4.4	12	<0.1	3.9	<0.1	71	0.36	0.026
101523	Soil	2.7	15.4	22.7	55	3.5	13.5	7.4	384	2.51	35.3	0.2	<0.5	1.8	15	0.3	1.1	0.1	58	0.27	0.021
101524	Soil	0.7	13.1	13.9	57	0.5	17.1	9.5	336	2.75	10.9	0.6	5.0	3.7	20	<0.1	1.9	0.1	50	0.46	0.020
101525	Soil	0.8	26.6	9.3	55	0.1	25.4	10.3	438	2.25	14.9	0.5	3.0	2.1	39	0.2	0.7	0.1	43	4.34	0.057
101526	Soil	0.7	32.8	7.9	53	0.1	30.3	11.3	453	2.52	11.9	0.5	3.6	2.2	51	0.2	0.7	0.1	50	3.89	0.042
101527	Soil	0.7	34.5	7.8	51	0.1	28.7	9.7	376	2.39	12.5	0.4	6.1	1.7	47	0.2	0.5	0.1	52	3.24	0.051
101528	Soil	0.5	31.5	7.2	53	<0.1	28.3	11.0	440	2.61	13.7	0.4	10.5	2.4	30	0.1	0.6	0.1	58	1.21	0.054
101529	Soil	0.9	61.3	31.3	125	0.4	19.7	7.7	301	2.15	11.2	0.6	18.9	4.6	29	0.5	3.5	0.5	34	3.49	0.061
101530	Soil	0.7	30.2	7.7	53	<0.1	29.5	10.9	434	2.68	11.7	0.4	4.0	2.9	28	<0.1	0.5	0.1	53	0.87	0.036
101531	Soil	0.5	36.7	16.0	69	0.1	23.7	10.2	392	2.52	11.9	0.6	6.3	2.4	29	0.2	0.9	0.2	52	1.64	0.052
101532	Soil	0.6	34.6	13.7	68	0.2	20.9	9.7	410	2.35	13.2	0.5	21.7	2.3	36	0.2	0.8	0.2	49	2.35	0.068
101533	Soil	0.9	31.8	12.9	73	<0.1	21.1	11.6	430	3.28	8.8	1.8	3.8	18.8	29	<0.1	1.2	0.1	58	0.49	0.040
101534	Soil	1.2	47.6	9.2	91	<0.1	26.0	13.9	490	3.66	12.4	0.7	10.5	11.4	47	0.1	0.8	0.1	70	0.62	0.036
101535	Soil	0.9	40.9	9.3	68	0.1	30.1	11.1	506	2.75	11.3	0.5	3.8	3.9	39	0.1	0.7	0.2	59	0.99	0.060

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 9 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
116835	Soil	25	25	0.37	481	0.032	2	1.34	0.017	0.09	0.1	0.18	3.4	<0.1	<0.05	4	<0.5	<0.2
116836	Soil	32	29	0.50	395	0.037	<1	2.08	0.010	0.07	0.1	0.03	4.9	<0.1	<0.05	9	<0.5	<0.2
116837	Soil	48	37	0.55	260	0.042	1	2.06	0.010	0.10	0.2	0.06	5.2	<0.1	<0.05	8	<0.5	<0.2
116838	Soil	26	23	0.27	168	0.021	3	1.20	0.008	0.12	0.3	0.06	5.1	<0.1	<0.05	4	<0.5	<0.2
116839	Soil	26	39	0.57	802	0.055	2	1.38	0.020	0.10	0.5	0.23	4.4	<0.1	<0.05	4	0.8	<0.2
116840	Soil	10	36	0.59	283	0.081	<1	2.03	0.011	0.08	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
116841	Soil	5	44	1.23	472	0.136	2	2.14	0.011	0.62	0.1	0.03	2.7	0.3	<0.05	7	<0.5	<0.2
116842	Soil	23	12	0.85	198	0.150	<1	1.59	0.006	0.54	0.4	0.04	4.3	0.5	<0.05	6	<0.5	<0.2
116843	Soil	10	38	0.59	246	0.069	1	1.69	0.012	0.14	0.4	0.03	3.7	0.1	<0.05	5	<0.5	<0.2
116844	Soil	16	8	0.51	417	0.012	2	1.00	0.008	0.07	0.3	0.27	1.7	0.1	0.12	4	<0.5	<0.2
116845	Soil	33	41	0.81	368	0.109	<1	1.70	0.007	0.45	0.4	0.06	4.7	0.3	<0.05	7	<0.5	<0.2
116846	Soil	19	41	0.66	210	0.054	<1	1.54	0.012	0.06	0.4	0.11	3.6	<0.1	<0.05	4	0.6	0.4
116847	Soil	14	32	0.55	288	0.061	1	1.52	0.012	0.14	0.5	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
116848	Soil	18	44	1.01	171	0.113	2	2.31	0.009	0.38	0.4	0.03	5.6	0.2	<0.05	7	<0.5	<0.2
101520	Soil	11	28	0.79	234	0.049	<1	1.60	0.021	0.05	0.2	0.09	3.4	<0.1	0.12	4	<0.5	<0.2
101521	Soil	18	38	0.45	594	0.069	2	1.63	0.016	0.06	0.2	0.22	5.4	<0.1	<0.05	5	<0.5	<0.2
101522	Soil	10	13	0.16	373	0.002	<1	1.35	0.005	0.04	0.3	0.08	4.6	<0.1	<0.05	4	0.6	<0.2
101523	Soil	7	25	0.36	348	0.042	<1	1.31	0.009	0.06	0.1	0.04	1.9	<0.1	<0.05	5	<0.5	<0.2
101524	Soil	12	28	0.45	425	0.047	3	1.61	0.014	0.09	0.1	0.09	3.9	<0.1	<0.05	5	<0.5	<0.2
101525	Soil	12	26	0.71	191	0.041	2	1.30	0.016	0.06	0.2	0.15	3.3	<0.1	0.09	4	<0.5	<0.2
101526	Soil	12	31	0.83	261	0.060	1	1.45	0.022	0.05	0.2	0.10	3.7	<0.1	0.10	4	<0.5	<0.2
101527	Soil	12	30	0.83	248	0.053	2	1.45	0.020	0.05	0.2	0.09	3.4	<0.1	0.11	4	<0.5	<0.2
101528	Soil	12	31	0.69	251	0.061	2	1.45	0.022	0.04	0.2	0.07	3.5	<0.1	0.05	4	<0.5	<0.2
101529	Soil	20	19	0.64	183	0.013	2	1.21	0.011	0.09	0.4	0.27	2.8	<0.1	0.09	4	<0.5	<0.2
101530	Soil	13	30	0.63	268	0.066	1	1.42	0.027	0.05	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
101531	Soil	15	27	0.89	278	0.046	2	1.54	0.019	0.05	0.2	0.15	3.6	<0.1	<0.05	5	0.7	<0.2
101532	Soil	14	25	1.01	217	0.044	2	1.35	0.018	0.06	0.3	0.13	3.3	<0.1	0.09	4	0.6	<0.2
101533	Soil	42	26	0.62	256	0.056	2	1.65	0.013	0.13	0.3	0.05	5.7	<0.1	<0.05	6	<0.5	<0.2
101534	Soil	23	40	0.86	246	0.082	1	2.08	0.010	0.07	0.3	0.03	5.6	<0.1	<0.05	8	<0.5	<0.2
101535	Soil	15	32	0.76	328	0.072	2	1.57	0.027	0.08	0.3	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 10 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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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
101536	Soil	1.5	29.6	10.8	52	<0.1	12.3	5.9	397	2.18	6.6	0.9	8.2	9.2	10	<0.1	0.6	0.2	28	0.19	0.028
101537	Soil	1.1	32.1	10.1	60	0.1	31.3	12.0	341	3.26	13.9	1.1	0.7	6.3	26	<0.1	0.7	0.2	70	0.36	0.042
101538	Soil	0.8	31.2	9.8	65	<0.1	25.4	11.3	422	3.07	12.5	0.8	3.5	6.3	30	0.1	1.1	0.2	65	0.51	0.026
101539	Soil	1.0	24.0	9.3	69	<0.1	23.1	12.5	435	3.02	10.7	0.8	3.0	8.3	23	<0.1	1.5	0.2	54	0.32	0.041
101540	Soil	1.4	29.6	12.4	74	<0.1	19.4	11.7	437	3.15	10.5	1.3	4.5	11.3	21	<0.1	1.8	0.2	52	0.31	0.043
101541	Soil	1.6	43.5	13.4	82	<0.1	18.2	11.2	434	3.21	8.8	1.0	12.4	17.1	26	0.1	2.1	0.1	43	0.32	0.029
101542	Soil	1.0	20.8	13.4	70	<0.1	24.8	8.8	252	3.25	12.5	0.6	10.2	5.6	18	0.2	0.8	0.2	67	0.20	0.035
101543	Soil	1.1	17.4	10.0	82	<0.1	17.5	14.2	1959	2.85	5.3	0.5	<0.5	7.6	33	0.2	0.6	0.1	52	0.31	0.068
101544	Soil	0.9	17.6	9.4	53	<0.1	21.0	9.3	259	2.92	11.0	0.5	2.0	4.4	15	<0.1	0.9	0.2	58	0.19	0.046
101545	Soil	1.0	23.8	9.9	54	0.1	24.0	10.2	266	2.94	10.9	0.8	8.1	6.0	25	<0.1	0.7	0.1	61	0.32	0.051
101546	Soil	0.4	14.2	8.6	61	<0.1	17.7	8.7	154	2.18	7.9	0.6	5.3	2.4	34	<0.1	0.6	<0.1	41	0.34	0.076
103939	Soil	1.2	17.2	13.8	66	0.2	18.3	8.5	218	3.03	8.7	0.7	5.8	5.6	23	<0.1	1.2	0.1	63	0.54	0.034
103940	Soil	1.0	18.4	17.2	71	0.2	16.6	9.1	267	2.91	7.8	1.1	6.7	8.4	27	0.1	1.7	0.2	66	0.55	0.036
103941	Soil	1.1	22.5	17.6	90	0.3	15.1	14.1	951	3.13	4.2	2.0	9.3	11.3	23	0.3	2.2	0.2	71	0.52	0.052
103942	Soil	0.6	50.4	11.5	68	0.3	27.3	10.7	437	2.84	7.7	1.1	6.3	8.0	31	<0.1	1.1	0.2	64	0.62	0.046
103943	Soil	1.3	11.9	13.9	89	0.1	6.0	6.8	328	3.21	3.8	1.6	3.4	14.1	19	<0.1	4.7	<0.1	27	0.34	0.085
103944	Soil	1.1	11.4	9.4	55	0.7	9.3	5.6	516	2.08	3.2	0.4	2.0	3.1	13	0.2	1.3	0.2	53	0.15	0.017
103945	Soil	0.7	15.3	12.3	81	<0.1	16.7	7.8	229	2.78	5.1	0.9	3.6	8.7	15	<0.1	2.8	0.2	45	0.24	0.020
103946	Soil	0.6	38.3	17.2	162	0.7	35.2	16.5	1338	4.45	3.8	1.4	4.5	21.1	21	0.5	5.8	1.0	71	0.67	0.089
103947	Soil	0.6	33.3	10.3	72	0.3	26.1	11.2	466	3.00	7.1	0.7	10.0	8.2	30	<0.1	1.9	0.2	64	0.67	0.025
103948	Soil	0.9	95.7	21.4	311	<0.1	12.2	15.3	502	4.71	5.3	0.8	2.1	9.3	20	0.2	2.2	0.5	80	0.43	0.057
103949	Soil	1.0	27.9	11.2	77	<0.1	20.5	8.9	330	2.89	7.7	0.9	3.9	11.7	24	0.1	1.8	0.2	65	0.43	0.027
103950	Soil	0.6	17.2	33.5	77	<0.1	8.7	5.9	296	2.36	3.8	0.9	4.0	35.8	10	<0.1	2.0	<0.1	30	0.23	0.018
103951	Soil	1.6	19.3	16.2	59	0.4	11.8	8.7	623	2.70	4.5	4.2	47.1	25.5	29	<0.1	7.6	0.3	21	0.21	0.031
103952	Soil	1.2	14.6	11.7	40	0.3	16.7	9.0	410	2.51	5.4	0.9	3.2	5.3	22	<0.1	0.7	0.2	63	0.33	0.016
103953	Soil	1.3	20.1	13.0	55	<0.1	20.0	9.8	311	2.74	8.7	1.1	9.3	10.2	23	<0.1	1.5	0.2	62	0.35	0.022
103954	Soil	0.9	27.2	9.8	47	0.1	23.5	9.1	375	2.70	8.8	0.9	3.6	6.7	29	<0.1	1.0	0.2	61	0.45	0.026
103955	Soil	0.9	34.9	12.5	60	0.2	22.2	9.7	433	2.70	8.9	0.6	5.3	7.1	33	<0.1	1.4	0.2	58	0.58	0.029
103956	Soil	1.4	19.2	80.3	114	0.3	9.7	7.8	517	2.65	2.6	1.7	3.4	23.0	19	0.4	2.7	0.2	40	0.38	0.054
103957	Soil	1.4	32.8	11.2	57	0.2	23.7	9.0	396	2.63	7.8	0.9	6.0	7.1	38	<0.1	1.2	0.2	61	0.59	0.036

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Page: 10 of 11 Part 2

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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	
101536	Soil	33	12	0.19	165	0.005	<1	1.11	0.005	0.12	0.6	0.06	3.9	<0.1	<0.05	3	<0.5	<0.2
101537	Soil	24	45	0.56	292	0.087	1	2.11	0.011	0.08	0.2	0.04	6.2	<0.1	<0.05	6	<0.5	<0.2
101538	Soil	18	38	0.64	281	0.079	1	1.82	0.019	0.08	0.3	0.07	5.2	<0.1	<0.05	6	<0.5	<0.2
101539	Soil	11	35	0.62	246	0.063	2	1.67	0.010	0.12	0.2	0.07	4.5	<0.1	<0.05	6	<0.5	<0.2
101540	Soil	15	32	0.55	226	0.053	1	1.62	0.009	0.14	0.5	0.08	4.4	<0.1	<0.05	5	<0.5	<0.2
101541	Soil	41	25	0.74	198	0.043	2	1.77	0.008	0.10	0.4	0.16	5.1	<0.1	<0.05	6	<0.5	<0.2
101542	Soil	10	40	0.54	225	0.080	1	2.06	0.011	0.10	0.2	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
101543	Soil	15	24	0.43	381	0.054	<1	1.73	0.008	0.09	0.2	0.04	2.5	<0.1	<0.05	7	<0.5	<0.2
101544	Soil	9	34	0.43	186	0.066	1	1.61	0.008	0.11	0.2	0.04	2.9	<0.1	<0.05	5	<0.5	<0.2
101545	Soil	14	38	0.47	173	0.085	1	1.69	0.012	0.10	0.2	0.06	4.1	<0.1	<0.05	5	<0.5	<0.2
101546	Soil	6	51	0.52	102	0.046	<1	1.91	0.011	0.06	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
103939	Soil	14	35	0.48	392	0.050	<1	2.03	0.011	0.05	0.2	0.08	3.7	<0.1	<0.05	6	<0.5	<0.2
103940	Soil	22	35	0.53	413	0.048	<1	1.99	0.014	0.05	0.2	0.13	4.1	<0.1	<0.05	7	<0.5	<0.2
103941	Soil	30	28	0.51	710	0.027	<1	1.63	0.013	0.05	0.3	0.13	5.1	<0.1	<0.05	6	0.7	<0.2
103942	Soil	51	32	0.49	682	0.044	<1	1.58	0.022	0.05	0.2	0.16	6.0	<0.1	<0.05	5	<0.5	<0.2
103943	Soil	28	8	0.11	572	0.002	<1	1.15	0.006	0.15	0.2	0.02	2.6	0.1	<0.05	2	<0.5	<0.2
103944	Soil	9	19	0.32	256	0.052	<1	0.97	0.010	0.10	0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
103945	Soil	10	27	0.52	310	0.012	<1	1.63	0.007	0.11	0.2	0.07	3.5	<0.1	<0.05	6	<0.5	<0.2
103946	Soil	92	97	1.47	572	0.031	<1	2.08	0.010	0.16	0.2	0.99	7.5	0.1	<0.05	9	<0.5	<0.2
103947	Soil	37	38	0.76	627	0.068	<1	1.76	0.024	0.09	0.1	0.11	5.2	<0.1	<0.05	6	<0.5	<0.2
103948	Soil	7	22	1.15	209	0.076	<1	2.40	0.009	0.36	0.1	0.07	4.8	0.3	<0.05	13	<0.5	<0.2
103949	Soil	28	31	0.57	188	0.049	<1	1.60	0.020	0.06	0.2	0.06	5.8	<0.1	<0.05	6	<0.5	<0.2
103950	Soil	60	11	0.15	122	0.007	<1	0.82	0.005	0.07	0.5	0.09	3.4	<0.1	<0.05	3	<0.5	<0.2
103951	Soil	38	11	0.20	851	0.004	<1	0.91	0.006	0.19	0.2	0.12	4.0	<0.1	<0.05	2	<0.5	<0.2
103952	Soil	15	29	0.42	391	0.053	<1	1.66	0.014	0.06	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
103953	Soil	26	31	0.50	388	0.051	<1	1.89	0.018	0.09	0.1	0.15	5.7	<0.1	<0.05	6	<0.5	<0.2
103954	Soil	24	30	0.52	341	0.072	<1	1.61	0.026	0.07	0.2	0.06	5.1	<0.1	<0.05	5	<0.5	<0.2
103955	Soil	21	28	0.57	420	0.069	<1	1.65	0.028	0.08	0.2	0.13	4.6	<0.1	<0.05	5	<0.5	<0.2
103956	Soil	29	12	0.33	300	0.012	<1	1.04	0.012	0.09	0.4	0.09	4.3	<0.1	<0.05	4	<0.5	<0.2
103957	Soil	21	31	0.58	377	0.070	<1	1.68	0.029	0.07	0.2	0.08	4.6	<0.1	<0.05	5	<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: Rosebute  
 Report Date: August 18, 2011

Page: 11 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000771.1

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
103958	Soil	0.9	30.9	13.9	56	0.2	20.0	9.2	417	2.50	7.8	0.8	3.1	8.0	39	0.2	1.0	0.2	51	1.03	0.069
103959	Soil	0.5	18.0	17.4	147	0.1	11.7	12.0	796	4.05	3.8	1.4	2.1	17.2	29	0.2	1.4	0.2	62	0.81	0.120
103960	Soil	1.0	42.5	15.3	114	<0.1	15.1	15.5	739	4.05	5.6	1.1	5.0	10.1	45	0.1	0.9	0.9	79	0.56	0.043
103961	Soil	1.4	25.9	13.9	80	0.1	17.8	10.0	294	3.57	7.4	0.9	2.7	7.0	29	<0.1	1.0	0.7	69	0.45	0.025
103962	Soil	0.9	25.1	11.0	61	0.1	29.4	11.5	597	3.00	5.3	0.9	3.1	6.1	25	<0.1	0.7	0.2	65	0.44	0.024
103963	Soil	0.4	28.3	9.6	52	0.2	20.4	8.9	377	2.54	8.4	0.6	2.5	3.3	47	<0.1	0.6	0.2	56	1.22	0.065
103964	Soil	0.7	34.8	12.5	69	0.2	22.6	11.0	547	2.91	8.1	0.6	1.5	4.6	40	<0.1	0.7	0.4	63	0.87	0.041
103965	Soil	0.8	23.9	17.8	102	<0.1	45.5	16.1	542	4.01	9.3	1.6	<0.5	18.9	40	<0.1	1.6	0.2	87	0.61	0.078
103966	Soil	0.7	21.7	11.8	84	<0.1	14.6	8.3	508	2.73	4.0	1.2	5.1	8.9	24	<0.1	1.1	0.5	60	0.47	0.076
103967	Soil	1.0	23.8	16.1	108	0.1	26.3	13.7	819	3.59	6.8	2.0	5.6	22.9	84	<0.1	1.5	0.2	70	0.57	0.051
103968	Soil	1.1	20.9	17.5	97	<0.1	23.2	10.8	488	3.42	8.0	0.9	2.1	9.8	36	<0.1	1.4	0.5	73	0.50	0.054
103969	Soil	0.8	22.6	9.7	60	0.1	15.8	9.9	617	2.83	4.6	0.9	2.2	14.7	30	<0.1	0.7	0.1	59	0.44	0.037



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Project: Rosebute  
 Report Date: August 18, 2011

Page: 11 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000771.1

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	
103958	Soil	25	22	0.55	341	0.056	<1	1.32	0.026	0.08	0.3	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
103959	Soil	51	14	1.01	302	0.083	<1	1.92	0.009	0.43	0.4	0.06	5.1	0.3	<0.05	8	<0.5	<0.2
103960	Soil	16	26	1.09	327	0.166	<1	2.21	0.012	0.52	0.2	0.03	4.6	0.2	<0.05	8	<0.5	<0.2
103961	Soil	10	33	0.83	318	0.085	<1	2.36	0.010	0.29	0.2	0.02	4.2	0.1	<0.05	8	<0.5	<0.2
103962	Soil	23	37	0.48	411	0.076	<1	2.07	0.021	0.11	0.1	0.06	5.9	<0.1	<0.05	6	<0.5	<0.2
103963	Soil	15	27	0.60	373	0.071	<1	1.36	0.030	0.10	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
103964	Soil	14	31	0.71	424	0.084	<1	1.79	0.032	0.12	0.2	0.07	4.0	<0.1	<0.05	6	<0.5	<0.2
103965	Soil	23	187	1.36	233	0.111	2	2.86	0.008	0.37	0.2	0.02	6.7	0.3	<0.05	10	<0.5	<0.2
103966	Soil	26	18	0.74	163	0.046	<1	1.57	0.010	0.24	0.1	0.03	4.4	<0.1	<0.05	8	0.5	<0.2
103967	Soil	58	60	0.99	216	0.028	<1	2.52	0.007	0.13	0.2	0.06	5.1	<0.1	<0.05	11	<0.5	<0.2
103968	Soil	13	46	0.85	217	0.051	<1	2.34	0.012	0.11	0.1	0.02	7.8	<0.1	<0.05	10	<0.5	<0.2
103969	Soil	18	28	0.65	328	0.070	<1	1.86	0.012	0.20	0.1	0.03	3.7	0.1	<0.05	7	<0.5	<0.2



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Project: Rosebute  
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Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000771.1

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																					
114115	Soil	5.1	53.6	17.9	107	<0.1	25.6	11.7	538	3.42	30.3	1.4	3.2	11.3	28	<0.1	0.8	0.3	61	0.34	0.026
REP 114115	QC	5.3	53.4	18.6	105	<0.1	27.3	12.6	557	3.52	30.9	1.4	3.2	11.6	28	<0.1	0.7	0.3	62	0.36	0.025
114122	Soil	1.6	40.3	22.4	122	0.1	40.8	17.1	866	4.07	4.2	1.6	4.9	14.6	32	0.1	1.9	0.2	79	0.65	0.064
REP 114122	QC	1.9	42.6	23.2	122	0.1	42.8	17.5	918	4.33	4.7	1.7	5.0	14.8	34	0.1	1.9	0.2	87	0.70	0.070
103912	Soil	0.7	33.1	9.5	53	0.1	25.7	10.1	467	2.52	9.5	0.6	2.2	3.8	38	0.1	0.6	0.1	51	0.54	0.081
REP 103912	QC	0.6	33.1	9.5	51	0.1	25.6	10.0	477	2.64	10.2	0.6	3.8	3.8	38	<0.1	0.6	0.1	53	0.54	0.084
110526	Soil	1.5	46.2	10.8	112	<0.1	25.0	12.0	611	3.47	8.8	1.2	7.1	13.1	28	<0.1	0.9	0.2	64	0.50	0.070
REP 110526	QC	1.6	46.2	11.3	111	<0.1	24.2	11.6	595	3.46	8.5	1.1	8.9	13.1	29	0.1	0.9	0.2	64	0.51	0.072
111735	Soil	0.4	57.7	5.6	92	<0.1	23.3	13.6	348	3.00	7.4	0.6	2.4	5.0	54	<0.1	0.9	<0.1	68	0.66	0.069
REP 111735	QC	0.4	60.7	5.7	92	<0.1	24.6	13.5	353	3.00	7.1	0.6	2.2	4.8	52	<0.1	0.8	<0.1	68	0.66	0.072
111737	Soil	0.5	48.8	9.2	101	<0.1	18.9	13.0	317	3.42	6.8	0.9	2.1	7.5	48	<0.1	1.6	0.1	67	0.51	0.063
REP 111737	QC	0.7	48.0	8.8	99	<0.1	18.3	13.1	286	3.34	6.8	0.9	5.1	7.2	52	0.1	1.8	0.1	67	0.56	0.062
113448	Soil	1.0	13.1	9.5	59	<0.1	18.3	8.7	702	2.49	9.6	0.4	<0.5	4.5	25	<0.1	0.4	0.1	55	0.26	0.025
REP 113448	QC	1.0	13.5	9.8	63	<0.1	19.7	9.2	726	2.55	9.5	0.4	<0.5	4.7	27	0.1	0.5	0.2	58	0.27	0.025
113469	Soil	0.7	35.8	11.0	61	0.2	27.0	9.7	433	2.72	12.3	1.0	1.8	5.2	46	0.1	0.8	0.2	54	0.71	0.046
REP 113469	QC	0.7	36.3	11.0	57	0.1	26.6	9.5	414	2.66	11.3	1.0	2.0	5.0	44	<0.1	0.8	0.2	54	0.74	0.046
105844	Soil	0.7	27.3	9.1	63	<0.1	18.3	7.9	225	2.57	8.6	0.7	6.0	5.3	32	<0.1	0.8	0.2	56	0.47	0.063
REP 105844	QC	0.7	26.9	8.8	65	<0.1	18.3	8.1	222	2.55	8.6	0.7	4.7	5.1	32	<0.1	0.8	0.2	57	0.46	0.063
105863	Soil	0.9	16.2	11.9	105	<0.1	16.6	11.4	635	3.35	4.0	1.2	4.5	7.9	37	<0.1	0.9	<0.1	54	0.62	0.092
REP 105863	QC	1.1	16.1	12.2	106	<0.1	16.4	11.7	650	3.40	4.2	1.1	4.5	8.1	40	0.1	0.9	<0.1	57	0.63	0.093
105877	Soil	1.9	35.9	22.4	103	0.8	21.0	13.2	789	2.79	29.1	0.7	57.1	5.5	31	0.8	3.1	0.7	44	2.64	0.054
REP 105877	QC	2.0	34.2	21.6	101	0.8	19.2	12.8	788	2.78	28.9	0.7	48.8	5.3	29	0.6	3.2	0.6	41	2.49	0.050
116826	Soil	1.4	15.2	13.9	84	0.2	21.2	9.8	366	3.41	10.2	0.5	3.7	5.4	21	0.3	1.3	0.3	78	0.24	0.042
REP 116826	QC	1.3	14.5	13.5	86	0.2	21.5	10.0	367	3.47	10.0	0.4	3.3	5.2	19	0.3	1.0	0.2	78	0.23	0.037
101529	Soil	0.9	61.3	31.3	125	0.4	19.7	7.7	301	2.15	11.2	0.6	18.9	4.6	29	0.5	3.5	0.5	34	3.49	0.061
REP 101529	QC	1.1	63.6	31.5	132	0.4	19.9	7.9	284	1.88	10.9	0.6	22.8	4.9	29	0.4	3.8	0.5	29	3.62	0.061
103939	Soil	1.2	17.2	13.8	66	0.2	18.3	8.5	218	3.03	8.7	0.7	5.8	5.6	23	<0.1	1.2	0.1	63	0.54	0.034
REP 103939	QC	1.1	17.5	13.6	66	0.3	18.3	8.5	223	3.01	9.0	0.7	3.3	5.5	24	<0.1	1.3	0.1	64	0.54	0.036

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**Page:** 1 of 2 Part 2

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																		
114115	Soil	80	45	1.33	294	0.190	<1	2.32	0.014	0.37	0.3	0.04	4.3	0.3	<0.05	8	<0.5	<0.2
REP 114115	QC	80	46	1.30	297	0.189	<1	2.29	0.014	0.38	0.3	0.05	4.3	0.3	<0.05	9	<0.5	<0.2
114122	Soil	40	58	1.03	286	0.077	1	1.80	0.013	0.16	0.3	0.08	8.0	0.1	<0.05	7	<0.5	<0.2
REP 114122	QC	42	61	1.13	299	0.087	1	1.95	0.014	0.18	0.3	0.08	9.0	0.2	<0.05	7	<0.5	<0.2
103912	Soil	13	29	0.53	300	0.065	4	1.21	0.031	0.06	0.2	0.05	4.0	<0.1	0.06	4	<0.5	<0.2
REP 103912	QC	12	30	0.53	308	0.064	<1	1.22	0.031	0.06	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
110526	Soil	29	35	0.88	193	0.050	1	1.74	0.012	0.09	0.2	0.06	6.6	<0.1	<0.05	9	<0.5	<0.2
REP 110526	QC	29	35	0.86	196	0.048	2	1.72	0.011	0.09	0.2	0.04	6.5	<0.1	<0.05	9	<0.5	<0.2
111735	Soil	19	38	1.04	263	0.169	<1	1.85	0.028	0.16	0.1	0.03	4.2	<0.1	<0.05	6	0.8	<0.2
REP 111735	QC	19	39	1.08	262	0.167	2	1.88	0.028	0.16	0.1	0.04	4.3	<0.1	<0.05	7	0.9	<0.2
111737	Soil	20	27	0.82	213	0.129	1	1.90	0.012	0.17	<0.1	0.06	5.5	<0.1	<0.05	7	1.1	<0.2
REP 111737	QC	20	25	0.81	204	0.152	2	2.02	0.012	0.18	0.1	0.06	5.6	<0.1	<0.05	7	0.7	<0.2
113448	Soil	10	30	0.46	324	0.053	3	1.69	0.009	0.06	0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
REP 113448	QC	10	32	0.47	336	0.054	2	1.72	0.009	0.07	0.2	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
113469	Soil	19	32	0.58	323	0.080	3	1.74	0.036	0.08	0.2	0.04	4.8	<0.1	<0.05	5	0.5	<0.2
REP 113469	QC	18	30	0.57	323	0.070	4	1.64	0.033	0.08	0.2	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
105844	Soil	14	32	0.57	122	0.083	<1	1.43	0.011	0.15	0.3	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
REP 105844	QC	14	32	0.56	121	0.085	<1	1.40	0.010	0.14	0.3	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
105863	Soil	21	19	0.85	180	0.031	<1	1.79	0.011	0.06	<0.1	0.03	4.7	<0.1	<0.05	9	<0.5	<0.2
REP 105863	QC	21	19	0.85	180	0.039	<1	1.86	0.013	0.06	<0.1	0.02	4.9	<0.1	<0.05	10	<0.5	<0.2
105877	Soil	18	24	0.38	345	0.009	3	1.01	0.009	0.11	0.2	0.31	4.3	<0.1	0.07	4	<0.5	<0.2
REP 105877	QC	17	22	0.36	342	0.009	3	0.93	0.009	0.11	0.2	0.31	4.0	<0.1	0.05	3	<0.5	<0.2
116826	Soil	10	37	0.59	268	0.063	<1	2.53	0.008	0.09	0.1	0.05	2.8	<0.1	<0.05	8	<0.5	<0.2
REP 116826	QC	9	36	0.59	266	0.054	1	2.43	0.008	0.08	0.1	0.06	2.7	<0.1	<0.05	7	<0.5	<0.2
101529	Soil	20	19	0.64	183	0.013	2	1.21	0.011	0.09	0.4	0.27	2.8	<0.1	0.09	4	<0.5	<0.2
REP 101529	QC	22	17	0.62	195	0.017	1	1.27	0.010	0.09	0.3	0.30	3.0	0.1	0.14	4	0.8	<0.2
103939	Soil	14	35	0.48	392	0.050	<1	2.03	0.011	0.05	0.2	0.08	3.7	<0.1	<0.05	6	<0.5	<0.2
REP 103939	QC	14	35	0.52	392	0.049	1	2.05	0.011	0.04	0.2	0.09	3.8	<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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Client: **Taku Gold Corp**  
 680 3rd Ave, Suite 203  
 Val D'Or QC J9P 1S5 Canada

Project: Rosebute  
 Report Date: August 18, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000771.1

		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 %
103944	Soil	1.1	11.4	9.4	55	0.7	9.3	5.6	516	2.08	3.2	0.4	2.0	3.1	13	0.2	1.3	0.2	53	0.15	0.017
REP 103944	QC	1.1	11.3	9.3	56	0.6	9.9	5.7	528	2.12	3.1	0.4	3.5	3.1	13	0.2	1.4	0.2	55	0.14	0.017
Reference Materials																					
STD DS8	Standard	14.5	124.4	140.7	335	1.8	43.7	8.5	662	2.68	26.6	3.0	119.5	7.1	69	2.4	6.4	7.5	46	0.74	0.088
STD DS8	Standard	13.9	121.0	110.2	310	1.8	40.8	7.7	650	2.48	25.6	2.4	111.1	5.8	63	2.4	5.2	5.7	43	0.69	0.083
STD DS8	Standard	13.3	115.3	104.1	317	1.8	37.6	8.0	623	2.52	26.5	2.3	102.8	5.7	60	2.3	4.9	5.6	38	0.69	0.077
STD DS8	Standard	13.8	111.0	123.5	315	1.8	38.6	7.4	614	2.53	25.8	2.7	107.7	6.8	69	2.4	5.9	6.7	45	0.70	0.081
STD DS8	Standard	12.6	106.5	122.4	314	1.8	36.5	7.4	621	2.51	31.1	2.6	105.4	6.6	66	2.3	5.5	6.5	40	0.69	0.080
STD DS8	Standard	14.1	105.9	125.6	311	1.8	35.6	7.5	619	2.51	31.1	2.8	111.9	6.9	69	2.6	5.2	6.4	41	0.71	0.078
STD DS8	Standard	12.0	101.3	124.4	295	1.8	33.6	6.9	610	2.37	24.1	2.7	110.0	6.9	69	2.2	5.6	6.7	45	0.67	0.072
STD DS8	Standard	13.5	111.3	129.1	310	1.7	38.5	7.6	618	2.45	26.1	2.9	106.6	7.3	70	2.4	5.7	6.7	42	0.75	0.079
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:** Rosebute  
**Report Date:** August 18, 2011

**Page:** 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11000771.1

		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
103944	Soil	9	19	0.32	256	0.052	<1	0.97	0.010	0.10	0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
REP 103944	QC	8	19	0.31	245	0.051	<1	0.98	0.009	0.09	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	133	0.72	279	0.127	3	0.99	0.093	0.46	3.2	0.21	2.1	5.7	0.16	5	5.4	5.4
STD DS8	Standard	14	124	0.62	288	0.112	2	0.97	0.100	0.42	2.7	0.20	2.3	5.5	0.14	5	4.8	4.6
STD DS8	Standard	14	119	0.59	286	0.115	3	0.89	0.087	0.40	3.0	0.21	2.0	5.2	0.19	5	5.1	4.8
STD DS8	Standard	16	120	0.63	279	0.123	3	0.92	0.094	0.43	2.9	0.20	1.9	5.3	0.17	5	5.0	5.2
STD DS8	Standard	14	112	0.58	265	0.108	4	0.92	0.087	0.43	2.9	0.20	2.5	5.6	0.15	5	4.9	5.1
STD DS8	Standard	15	117	0.58	277	0.120	4	0.95	0.092	0.41	3.1	0.22	2.2	5.4	0.11	5	5.3	5.0
STD DS8	Standard	15	112	0.61	273	0.114	<1	0.92	0.102	0.42	3.0	0.20	2.9	5.5	0.15	5	4.3	4.3
STD DS8	Standard	16	119	0.62	276	0.123	2	0.94	0.098	0.42	2.8	0.20	2.0	5.4	0.18	5	6.0	5.4
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Lauren Wilson
Receiving Lab: Canada-Whitehorse
Received: July 28, 2011
Report Date: August 16, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000770.1

CLIENT JOB INFORMATION

Project: Rosebute
Shipment ID: 20110718110256
P.O. Number
Number of Samples: 316

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.

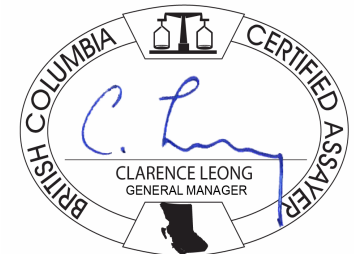
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Mark Fekete

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: Rosebute  
 Report Date: August 16, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
113383	Soil	0.9	29.2	7.1	56	<0.1	20.1	9.0	488	2.75	6.9	3.3	<0.5	11.7	21	<0.1	0.4	0.2	54	0.27	0.037
113384	Soil	2.2	18.5	7.6	52	<0.1	13.8	7.9	313	2.63	4.8	1.7	2.7	7.2	21	<0.1	0.6	0.9	43	0.30	0.028
113385	Soil	1.0	28.1	6.7	53	<0.1	20.1	9.1	389	2.80	6.9	1.6	2.7	7.4	22	<0.1	0.4	0.2	49	0.33	0.035
113386	Soil	1.2	12.3	7.5	43	<0.1	14.9	6.6	268	2.46	6.4	0.5	2.3	4.2	20	<0.1	0.4	0.2	50	0.27	0.030
113387	Soil	1.5	15.1	7.9	53	<0.1	16.5	7.1	268	3.03	8.5	0.6	0.8	4.9	17	0.1	0.4	0.2	63	0.22	0.031
113388	Soil	1.2	11.8	8.1	33	<0.1	12.3	5.5	176	2.15	5.0	0.3	1.1	3.5	13	<0.1	0.4	0.2	52	0.12	0.016
113389	Soil	1.1	18.6	7.8	46	<0.1	18.5	8.0	269	2.60	6.7	0.7	3.4	5.7	19	<0.1	0.5	0.1	54	0.24	0.022
113390	Soil	1.2	12.1	8.0	34	<0.1	11.3	4.9	237	2.06	4.4	0.4	0.5	3.5	14	<0.1	0.5	0.2	45	0.16	0.018
113391	Soil	1.1	40.1	14.4	78	<0.1	20.1	16.1	786	4.32	6.6	2.2	2.2	17.9	23	<0.1	1.7	0.2	82	0.28	0.047
113392	Soil	1.0	13.4	8.2	46	0.1	15.3	7.3	191	2.74	7.8	0.6	3.1	6.5	17	<0.1	0.5	0.1	59	0.20	0.027
113393	Soil	1.3	13.6	8.6	50	<0.1	16.9	9.2	438	3.03	6.7	1.0	2.3	12.5	18	<0.1	0.8	0.1	61	0.24	0.033
113394	Soil	2.2	10.5	17.3	78	<0.1	14.3	6.7	392	2.80	3.2	1.1	2.7	7.3	17	<0.1	1.8	<0.1	22	0.27	0.029
113395	Soil	1.0	17.0	9.2	51	<0.1	21.5	11.2	214	2.82	7.8	0.7	0.9	3.9	24	<0.1	0.6	0.2	59	0.37	0.039
113396	Soil	0.8	26.8	8.6	44	0.1	22.7	9.0	275	2.60	8.2	1.2	2.5	4.3	25	<0.1	0.5	0.2	53	0.32	0.038
113397	Soil	1.0	20.9	8.2	50	<0.1	21.8	9.9	312	2.77	6.6	0.8	1.4	5.3	20	<0.1	0.5	0.1	56	0.21	0.018
113398	Soil	1.1	15.1	10.0	52	<0.1	11.3	5.9	265	2.38	4.1	0.5	2.4	4.1	17	<0.1	0.3	0.5	49	0.22	0.025
113399	Soil	1.5	28.9	9.6	68	<0.1	17.4	10.1	572	3.53	4.1	1.5	<0.5	13.6	18	<0.1	0.6	0.1	58	0.22	0.030
113400	Soil	1.2	18.5	15.6	54	0.1	17.4	8.0	345	2.50	5.3	1.0	2.5	6.3	23	<0.1	0.6	0.2	52	0.35	0.043
113401	Soil	1.8	14.6	21.0	70	0.1	10.0	6.3	550	2.31	3.4	1.6	0.6	5.9	14	<0.1	2.9	0.2	22	0.16	0.042
113402	Soil	1.4	17.7	9.8	56	0.1	15.8	6.9	379	2.55	4.2	1.1	1.5	6.4	24	<0.1	0.6	0.1	49	0.39	0.039
113403	Soil	2.2	32.3	7.0	78	<0.1	19.7	10.2	351	3.30	3.7	0.6	<0.5	4.8	25	<0.1	0.7	0.2	68	0.42	0.046
113404	Soil	0.4	15.6	11.6	64	<0.1	13.6	6.1	209	2.18	4.6	0.9	0.6	6.8	24	0.1	0.7	0.2	50	0.42	0.044
113405	Soil	0.6	25.0	8.7	57	<0.1	17.4	10.3	450	2.89	7.2	1.6	2.9	6.6	28	0.2	0.6	0.1	56	0.50	0.058
113406	Soil	0.4	16.9	8.5	54	<0.1	15.1	6.9	188	2.50	6.5	0.9	2.5	5.4	25	0.1	0.6	0.1	51	0.48	0.046
113407	Soil	0.8	25.6	6.7	56	<0.1	23.0	9.7	418	2.38	7.5	0.6	4.9	3.1	36	0.1	0.6	0.1	56	0.67	0.067
113408	Soil	0.6	32.1	6.6	57	0.1	25.0	9.9	366	2.45	7.7	0.5	2.6	3.5	35	0.1	0.5	0.1	58	0.66	0.067
113409	Soil	0.7	31.0	6.4	55	0.1	22.8	9.2	416	2.18	7.4	0.5	2.1	2.8	35	0.1	0.6	0.1	50	0.78	0.068
113410	Soil	1.0	20.6	6.7	51	<0.1	19.4	8.4	313	2.33	7.3	0.8	1.7	3.3	32	<0.1	0.4	0.1	53	0.56	0.066
113411	Soil	0.7	29.8	7.0	58	<0.1	21.8	10.2	387	2.46	6.6	0.7	2.4	3.9	32	<0.1	0.6	0.1	57	0.53	0.064
113412	Soil	0.7	20.3	6.3	58	<0.1	16.2	9.1	264	2.61	7.4	0.6	1.7	5.1	25	0.1	0.4	0.1	52	0.33	0.033

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Page: 2 of 12 Part 2

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	
113383	Soil	144	32	0.44	262	0.065	1	1.71	0.011	0.05	0.2	0.07	8.9	0.1	<0.05	5	0.8	<0.2
113384	Soil	30	24	0.38	299	0.038	<1	1.35	0.008	0.09	0.2	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2
113385	Soil	26	29	0.53	284	0.081	1	1.67	0.013	0.12	0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
113386	Soil	12	25	0.37	201	0.059	1	1.41	0.010	0.06	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
113387	Soil	13	28	0.37	214	0.060	1	1.61	0.008	0.05	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
113388	Soil	8	23	0.26	139	0.059	<1	1.40	0.010	0.04	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
113389	Soil	21	31	0.41	268	0.053	<1	1.76	0.010	0.04	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
113390	Soil	16	19	0.28	229	0.033	<1	1.36	0.007	0.04	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
113391	Soil	69	61	1.03	326	0.024	2	2.10	0.008	0.05	0.2	0.10	9.8	<0.1	<0.05	8	<0.5	<0.2
113392	Soil	19	29	0.44	234	0.052	<1	1.80	0.009	0.04	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
113393	Soil	45	30	0.45	356	0.048	<1	1.77	0.009	0.04	0.1	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
113394	Soil	19	21	0.19	275	0.007	2	0.96	0.007	0.10	<0.1	0.04	3.5	<0.1	<0.05	3	<0.5	<0.2
113395	Soil	10	35	0.54	320	0.057	1	1.94	0.015	0.05	0.2	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
113396	Soil	14	30	0.47	291	0.060	<1	1.47	0.015	0.05	0.1	0.04	4.9	<0.1	<0.05	4	<0.5	<0.2
113397	Soil	14	34	0.49	260	0.065	<1	1.83	0.010	0.05	0.2	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
113398	Soil	14	22	0.35	170	0.061	<1	1.39	0.008	0.06	0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
113399	Soil	28	31	0.41	225	0.078	<1	1.93	0.008	0.15	0.1	0.03	6.2	0.1	<0.05	6	<0.5	<0.2
113400	Soil	25	29	0.39	326	0.053	1	1.71	0.011	0.05	0.2	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
113401	Soil	22	16	0.16	122	0.011	<1	0.96	0.006	0.08	0.2	0.04	1.6	<0.1	<0.05	3	<0.5	<0.2
113402	Soil	28	28	0.39	434	0.052	<1	1.78	0.012	0.07	0.1	0.05	4.5	<0.1	<0.05	6	<0.5	<0.2
113403	Soil	19	38	0.68	220	0.084	<1	1.82	0.017	0.12	0.2	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
113404	Soil	21	24	0.40	237	0.061	<1	1.47	0.016	0.05	0.2	0.06	3.7	<0.1	<0.05	5	<0.5	<0.2
113405	Soil	30	27	0.42	292	0.056	<1	1.58	0.014	0.05	0.2	0.06	4.4	<0.1	<0.05	5	0.6	<0.2
113406	Soil	18	27	0.46	201	0.066	<1	1.52	0.014	0.05	0.2	0.06	3.4	<0.1	<0.05	5	0.7	<0.2
113407	Soil	12	28	0.51	257	0.074	1	1.29	0.023	0.06	0.2	0.04	3.6	<0.1	<0.05	4	0.6	<0.2
113408	Soil	13	29	0.57	266	0.084	1	1.43	0.028	0.06	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
113409	Soil	12	24	0.51	279	0.065	2	1.24	0.023	0.06	0.1	0.02	3.2	<0.1	<0.05	4	0.5	<0.2
113410	Soil	12	26	0.49	250	0.070	2	1.30	0.019	0.05	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
113411	Soil	13	29	0.56	229	0.081	<1	1.43	0.023	0.08	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
113412	Soil	11	26	0.53	200	0.087	<1	1.62	0.016	0.14	0.1	0.01	4.8	0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
113413	Soil	1.2	13.2	9.7	69	<0.1	12.4	6.6	273	2.52	3.9	0.4	5.4	2.1	14	0.1	1.0	0.1	50	0.14	0.030
113414	Soil	0.8	25.7	13.7	191	0.1	13.2	9.8	367	4.17	2.0	1.6	1.0	3.9	28	0.1	1.8	0.1	48	0.34	0.042
113415	Soil	1.4	31.4	8.2	105	0.1	22.0	12.1	294	4.11	11.2	0.5	2.2	2.9	25	0.1	0.4	0.1	99	0.20	0.042
113416	Soil	0.3	14.0	6.0	82	<0.1	8.1	7.1	256	2.30	5.0	0.3	0.8	2.2	274	<0.1	0.2	<0.1	57	2.28	0.024
113417	Soil	1.0	16.5	8.4	67	<0.1	21.7	9.5	213	2.94	10.8	0.3	<0.5	2.4	20	0.1	0.4	0.1	79	0.13	0.038
113418	Soil	1.0	15.5	8.4	64	<0.1	21.4	9.0	391	2.75	8.2	0.4	4.7	2.9	32	<0.1	0.5	0.1	65	0.29	0.081
113419	Soil	0.8	19.0	10.1	82	<0.1	23.5	10.5	455	3.14	10.1	0.5	10.4	4.4	50	0.1	0.5	0.2	75	0.25	0.067
113420	Soil	0.9	16.9	9.8	58	<0.1	23.7	9.5	300	2.82	10.2	0.4	1.5	3.5	25	0.1	0.6	0.2	67	0.20	0.037
113421	Soil	1.0	18.9	9.7	59	0.1	23.1	9.4	300	2.71	9.7	0.5	1.1	3.7	36	<0.1	0.6	0.2	62	0.37	0.060
113422	Soil	1.1	31.0	9.9	90	<0.1	18.7	11.2	410	3.27	9.6	0.7	5.3	4.6	38	<0.1	0.8	0.1	79	0.43	0.041
113423	Soil	0.8	17.9	9.0	47	<0.1	19.9	8.9	249	2.36	7.5	0.5	11.8	3.9	25	<0.1	0.5	0.1	59	0.28	0.031
113424	Soil	1.1	25.0	17.2	70	0.2	18.4	9.2	266	2.92	24.0	0.5	3.7	3.6	32	<0.1	0.9	0.1	69	0.38	0.034
113425	Soil	0.9	34.6	11.9	68	<0.1	28.3	11.0	377	3.12	12.1	0.5	4.7	4.9	38	<0.1	0.9	0.2	73	0.56	0.036
113426	Soil	0.5	35.7	10.9	52	0.2	23.3	9.7	400	2.32	7.5	1.1	2.7	2.5	43	0.1	0.9	0.1	51	1.33	0.040
113427	Soil	0.4	24.3	11.2	56	0.1	18.6	8.5	308	2.32	8.0	0.4	2.0	2.3	37	0.2	0.6	0.1	52	1.10	0.043
113428	Soil	0.4	15.6	11.0	47	<0.1	22.3	9.8	313	2.73	7.9	0.6	2.9	2.8	25	0.1	0.5	0.2	64	0.77	0.018
113429	Soil	0.9	26.6	12.4	60	0.2	25.9	11.1	409	2.52	12.6	0.6	5.3	2.4	43	0.3	0.9	0.1	57	2.62	0.045
113430	Soil	0.8	21.7	10.4	51	0.1	21.2	9.7	427	2.14	9.9	0.7	10.7	2.9	58	0.2	1.0	0.1	44	4.73	0.057
113431	Soil	0.5	33.6	13.6	50	0.2	25.3	10.6	466	2.55	10.9	0.6	1.7	1.3	37	0.3	0.7	0.2	55	1.94	0.053
113432	Soil	0.4	21.4	8.6	42	<0.1	19.4	8.3	416	2.01	8.0	0.7	4.0	1.2	40	0.3	0.5	0.1	45	2.68	0.045
113433	Soil	0.5	21.2	7.8	45	<0.1	20.1	8.3	346	2.02	7.6	0.6	5.0	1.4	38	0.2	0.6	0.1	44	2.09	0.042
113434	Soil	0.5	35.5	10.1	51	0.2	26.8	11.1	448	2.54	10.8	0.5	3.7	1.9	35	0.2	0.6	0.2	58	1.63	0.047
113435	Soil	0.4	21.1	8.7	43	<0.1	20.9	9.6	439	2.54	9.6	0.6	6.0	2.8	27	0.1	0.5	0.1	58	0.89	0.029
113436	Soil	0.5	30.7	9.7	50	<0.1	28.3	10.8	352	2.71	12.3	0.4	4.1	3.5	34	0.1	0.6	0.2	64	1.66	0.026
113437	Soil	0.6	20.0	10.1	47	<0.1	23.8	10.3	372	2.56	9.8	0.5	3.3	3.6	24	0.2	0.6	0.2	58	0.85	0.022
113438	Soil	0.6	27.2	9.4	51	<0.1	24.9	9.3	370	2.43	9.4	0.4	2.2	2.5	45	0.2	0.5	0.2	55	2.57	0.037
113439	Soil	0.4	25.7	8.7	47	<0.1	22.3	10.2	430	2.42	9.4	0.5	6.4	2.4	31	0.1	0.5	0.2	55	1.28	0.040
113440	Soil	0.4	24.4	8.0	46	0.1	21.2	9.4	408	2.27	8.4	0.8	2.5	1.5	34	0.2	0.5	0.1	47	1.47	0.042
113441	Soil	0.4	24.0	8.4	50	<0.1	22.5	9.7	422	2.32	8.8	0.7	3.4	1.7	34	0.2	0.5	0.2	49	1.62	0.044
113442	Soil	0.5	27.3	8.8	46	<0.1	24.4	10.0	282	2.39	9.4	0.5	2.9	2.7	37	0.1	0.5	0.1	52	1.68	0.033

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
113413	Soil	7	19	0.30	123	0.049	<1	1.17	0.008	0.08	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
113414	Soil	22	20	0.47	371	0.038	2	1.87	0.010	0.13	<0.1	0.11	7.3	<0.1	<0.05	8	0.5	<0.2
113415	Soil	7	32	0.99	218	0.116	<1	2.88	0.009	0.10	0.1	0.02	4.0	0.1	<0.05	10	0.7	<0.2
113416	Soil	8	14	0.73	95	0.028	<1	5.39	0.013	0.07	<0.1	0.02	2.3	<0.1	<0.05	16	0.7	<0.2
113417	Soil	8	35	0.59	170	0.061	<1	2.61	0.007	0.06	0.1	0.02	3.1	0.1	<0.05	7	0.6	<0.2
113418	Soil	8	34	0.53	233	0.057	1	2.13	0.008	0.11	0.2	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
113419	Soil	8	37	0.72	196	0.089	2	2.57	0.011	0.06	0.2	<0.01	3.1	<0.1	<0.05	8	<0.5	<0.2
113420	Soil	8	35	0.55	232	0.067	3	1.95	0.012	0.06	0.2	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
113421	Soil	9	34	0.52	241	0.058	2	1.82	0.008	0.12	0.2	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
113422	Soil	12	31	0.72	200	0.060	3	1.79	0.014	0.06	0.1	0.01	6.3	<0.1	<0.05	7	<0.5	<0.2
113423	Soil	10	34	0.51	231	0.071	1	1.38	0.016	0.04	0.2	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
113424	Soil	8	32	0.60	205	0.066	1	1.71	0.011	0.06	0.2	0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
113425	Soil	18	40	0.64	303	0.080	<1	1.93	0.022	0.05	0.2	0.05	6.1	<0.1	<0.05	6	<0.5	<0.2
113426	Soil	12	26	0.54	394	0.055	3	1.45	0.018	0.04	0.2	0.10	3.5	<0.1	0.08	5	<0.5	<0.2
113427	Soil	11	26	0.50	241	0.054	2	1.42	0.018	0.04	0.2	0.04	3.3	<0.1	0.06	4	<0.5	<0.2
113428	Soil	11	33	0.48	300	0.057	2	1.86	0.018	0.04	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
113429	Soil	12	28	0.76	251	0.048	2	1.46	0.018	0.05	0.2	0.10	3.9	<0.1	0.08	4	<0.5	<0.2
113430	Soil	14	22	0.92	196	0.040	2	1.15	0.016	0.06	0.2	0.17	3.4	<0.1	0.10	3	<0.5	<0.2
113431	Soil	13	28	0.64	315	0.040	3	1.57	0.019	0.05	0.1	0.09	3.1	<0.1	0.11	4	0.6	<0.2
113432	Soil	10	23	0.96	203	0.041	3	1.17	0.016	0.04	0.2	0.05	2.9	<0.1	0.11	3	<0.5	<0.2
113433	Soil	11	23	0.56	211	0.041	3	1.21	0.017	0.04	0.2	0.06	2.9	<0.1	0.10	3	<0.5	<0.2
113434	Soil	14	29	0.74	283	0.047	3	1.55	0.019	0.05	0.2	0.05	3.3	<0.1	0.09	4	<0.5	<0.2
113435	Soil	13	28	0.48	255	0.061	1	1.55	0.020	0.04	0.2	0.03	3.8	<0.1	0.06	4	<0.5	<0.2
113436	Soil	14	31	0.69	295	0.068	1	1.64	0.021	0.05	0.2	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
113437	Soil	14	30	0.52	242	0.062	2	1.62	0.017	0.04	0.2	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
113438	Soil	12	27	0.58	272	0.053	2	1.62	0.023	0.04	0.2	0.04	4.1	<0.1	0.07	4	<0.5	<0.2
113439	Soil	13	26	0.52	273	0.059	2	1.42	0.020	0.05	0.2	0.05	3.3	<0.1	0.06	4	<0.5	<0.2
113440	Soil	12	23	0.49	262	0.050	2	1.36	0.018	0.05	0.1	0.06	3.2	<0.1	0.07	4	0.6	<0.2
113441	Soil	12	24	0.51	261	0.051	2	1.35	0.017	0.05	0.1	0.06	3.2	<0.1	0.07	4	<0.5	<0.2
113442	Soil	12	26	0.56	258	0.055	2	1.46	0.019	0.04	0.2	0.04	3.5	<0.1	0.06	4	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 4 of 12 Part 1

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
113443	Soil	0.5	21.8	8.8	50	<0.1	23.7	11.8	418	2.73	10.6	0.4	3.3	3.2	28	0.2	0.4	0.1	63	1.02	0.023		
113444	Soil	0.7	25.7	7.6	48	<0.1	23.5	10.0	388	2.40	9.6	0.5	14.7	2.6	55	0.2	0.5	0.1	55	2.75	0.064		
109790	Soil	1.2	15.6	13.1	52	<0.1	16.8	7.2	217	2.69	6.3	0.8	1.5	7.2	23	0.1	0.5	0.2	65	0.19	0.024		
109791	Soil	1.0	17.6	11.7	62	<0.1	19.5	9.6	353	2.97	9.0	0.4	3.5	3.5	28	<0.1	0.6	0.2	73	0.20	0.020		
109792	Soil	1.1	16.5	11.3	50	<0.1	19.2	8.8	223	2.82	8.2	0.4	1.3	3.9	21	<0.1	0.6	0.2	71	0.17	0.015		
109793	Soil	0.9	21.5	9.9	63	<0.1	22.2	11.2	539	2.86	9.1	0.5	0.9	4.1	28	0.1	0.5	0.1	67	0.31	0.032		
109794	Soil	0.9	27.5	10.4	67	<0.1	16.5	9.1	306	3.14	6.0	1.0	2.3	5.5	24	<0.1	0.8	0.2	68	0.28	0.021		
109795	Soil	1.0	14.6	11.6	72	<0.1	17.6	8.4	582	2.75	8.6	0.4	0.5	3.9	16	0.1	0.5	0.2	65	0.22	0.026		
109796	Soil	1.4	35.6	7.2	125	0.1	17.3	12.5	519	3.58	15.4	0.4	1.8	2.1	46	0.1	0.5	<0.1	85	0.52	0.074		
109797	Soil	0.9	24.8	12.7	117	<0.1	11.5	8.3	498	3.30	5.4	1.0	3.9	19.9	9	<0.1	0.9	0.1	46	0.22	0.032		
109798	Soil	1.1	35.0	124.7	217	<0.1	20.1	13.9	532	3.50	7.5	1.2	3.0	5.9	48	0.2	1.0	0.2	69	0.52	0.054		
109799	Soil	0.9	46.7	10.6	60	0.1	28.3	10.8	415	2.54	10.5	0.6	7.3	4.0	56	0.2	0.8	0.2	58	3.05	0.044		
109800	Soil	0.5	17.9	11.8	92	<0.1	9.1	8.5	352	2.63	5.6	1.9	1.6	6.8	22	<0.1	0.5	0.2	72	0.44	0.096		
109801	Soil	1.1	26.9	19.8	79	<0.1	15.1	9.1	420	3.11	7.3	3.0	3.1	30.2	18	<0.1	0.6	0.2	46	0.40	0.051		
109802	Soil	1.0	24.1	10.9	59	<0.1	17.9	8.7	478	2.50	6.0	1.1	2.9	6.4	36	0.1	0.5	0.2	51	0.77	0.043		
109803	Soil	1.3	19.4	11.6	48	<0.1	23.3	8.0	235	2.61	9.5	0.7	4.5	8.6	23	<0.1	0.5	0.2	57	0.36	0.025		
109804	Soil	1.2	53.2	12.4	61	0.2	33.6	10.4	343	2.72	12.8	1.0	8.2	10.5	75	0.1	0.9	0.2	59	3.41	0.026		
109805	Soil	1.1	25.6	21.5	60	<0.1	21.3	9.9	268	2.65	9.1	1.2	2.2	13.1	21	<0.1	0.6	0.3	57	0.35	0.021		
109806	Soil	0.7	26.5	6.6	84	<0.1	16.4	11.5	345	2.91	5.8	0.9	4.8	3.9	61	<0.1	0.5	0.1	77	0.56	0.076		
109807	Soil	0.8	22.4	8.1	70	<0.1	16.2	10.1	242	2.94	6.8	0.4	2.0	3.2	40	<0.1	0.5	0.1	76	0.33	0.041		
109808	Soil	1.2	20.7	9.4	64	<0.1	20.2	9.3	257	2.71	6.6	0.7	3.3	3.7	38	<0.1	0.5	0.1	71	0.39	0.037		
109809	Soil	0.9	24.4	11.4	64	<0.1	19.3	8.8	271	2.70	5.9	0.9	7.5	4.2	42	<0.1	0.5	0.1	71	0.44	0.045		
109810	Soil	0.9	15.2	8.0	53	<0.1	16.4	7.8	186	2.33	5.4	0.5	3.4	2.7	28	<0.1	0.5	0.1	59	0.30	0.033		
109811	Soil	0.6	18.0	9.5	68	<0.1	17.5	9.9	219	2.82	5.8	0.6	4.5	5.0	34	<0.1	0.6	0.1	68	0.36	0.044		
109812	Soil	0.7	22.5	8.8	70	<0.1	19.8	9.3	317	2.52	5.9	1.0	5.7	5.1	43	0.1	0.6	0.1	62	0.49	0.057		
109813	Soil	0.8	24.2	8.8	64	0.2	19.4	13.1	1018	2.29	5.7	1.3	3.7	2.7	41	0.4	0.5	0.2	53	0.59	0.063		
109814	Soil	0.8	19.9	8.4	59	0.1	17.8	8.6	327	2.23	6.6	0.9	3.6	3.5	35	0.2	0.5	0.1	53	0.53	0.062		
101459	Soil	0.3	20.9	3.0	73	<0.1	25.4	11.2	570	2.17	3.0	0.7	4.0	4.3	18	<0.1	0.1	<0.1	40	0.46	0.084		
101460	Soil	1.0	12.5	7.4	43	<0.1	16.0	9.0	775	2.27	4.1	0.3	5.2	2.1	14	<0.1	0.4	0.1	57	0.18	0.034		
101461	Soil	0.4	44.1	4.2	93	0.2	16.5	17.7	957	4.11	3.8	0.4	4.7	3.7	27	<0.1	0.3	0.1	130	1.17	0.047		

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000770.1

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
113443	Soil	15	30	0.73	239	0.071	2	1.61	0.018	0.07	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
113444	Soil	13	26	1.05	244	0.069	3	1.33	0.021	0.07	0.2	0.04	4.0	<0.1	0.07	4	<0.5	<0.2
109790	Soil	20	28	0.41	205	0.057	<1	1.92	0.008	0.05	0.1	0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
109791	Soil	8	36	0.51	237	0.074	1	2.45	0.010	0.04	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
109792	Soil	9	32	0.45	198	0.065	<1	2.06	0.008	0.04	0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
109793	Soil	9	49	0.57	247	0.059	<1	1.97	0.009	0.08	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
109794	Soil	17	39	0.41	187	0.033	<1	1.59	0.009	0.04	0.1	0.02	5.9	<0.1	<0.05	6	<0.5	<0.2
109795	Soil	9	32	0.41	275	0.050	<1	1.76	0.008	0.06	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
109796	Soil	5	28	0.65	252	0.075	<1	1.91	0.013	0.19	<0.1	0.03	5.9	0.1	<0.05	8	0.5	<0.2
109797	Soil	27	15	0.13	109	0.006	<1	0.62	0.004	0.08	0.1	0.16	7.5	<0.1	<0.05	3	<0.5	<0.2
109798	Soil	22	33	0.98	179	0.038	<1	2.17	0.006	0.07	0.2	0.20	6.7	<0.1	<0.05	9	<0.5	<0.2
109799	Soil	17	29	0.61	250	0.069	1	1.42	0.021	0.07	0.2	0.08	4.7	<0.1	0.06	5	<0.5	<0.2
109800	Soil	44	10	0.69	133	0.005	1	1.64	0.004	0.10	<0.1	0.02	4.9	<0.1	0.05	9	<0.5	<0.2
109801	Soil	87	31	0.48	154	0.012	<1	1.45	0.004	0.12	0.1	0.02	6.7	<0.1	<0.05	8	0.6	<0.2
109802	Soil	17	25	0.44	254	0.052	2	1.36	0.013	0.10	0.3	0.02	3.4	<0.1	0.05	5	<0.5	<0.2
109803	Soil	10	37	0.50	206	0.066	1	1.69	0.010	0.09	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
109804	Soil	41	33	0.52	235	0.046	1	1.55	0.012	0.07	0.2	0.09	5.3	<0.1	0.06	5	0.7	<0.2
109805	Soil	25	31	0.47	239	0.057	<1	1.83	0.008	0.12	0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
109806	Soil	18	29	0.95	292	0.128	1	2.05	0.013	0.14	0.1	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
109807	Soil	8	30	0.69	181	0.113	<1	2.14	0.012	0.06	0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
109808	Soil	13	35	0.66	243	0.101	<1	1.98	0.014	0.05	0.1	0.02	3.0	<0.1	<0.05	7	<0.5	<0.2
109809	Soil	14	35	0.66	244	0.093	<1	1.84	0.014	0.05	0.2	0.03	3.9	<0.1	<0.05	6	0.5	<0.2
109810	Soil	9	29	0.51	200	0.069	1	1.66	0.011	0.04	0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
109811	Soil	15	36	0.61	241	0.075	<1	1.85	0.015	0.04	0.2	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
109812	Soil	17	34	0.62	266	0.076	<1	1.72	0.018	0.05	0.3	0.03	3.7	<0.1	<0.05	6	0.6	<0.2
109813	Soil	14	27	0.48	365	0.055	<1	1.58	0.017	0.04	0.2	0.05	3.2	<0.1	<0.05	5	0.6	<0.2
109814	Soil	17	25	0.47	276	0.057	<1	1.43	0.016	0.05	0.2	0.04	3.1	<0.1	<0.05	5	<0.5	<0.2
101459	Soil	33	70	1.27	304	0.122	<1	1.60	0.008	0.07	<0.1	0.02	5.2	<0.1	<0.05	7	0.6	<0.2
101460	Soil	8	26	0.40	377	0.062	<1	1.64	0.013	0.06	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
101461	Soil	24	23	2.67	316	0.198	<1	3.15	0.011	0.99	<0.1	0.05	12.2	0.2	<0.05	11	0.7	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
101462	Soil	1.0	30.8	6.5	64	<0.1	24.1	11.1	539	2.60	6.1	0.5	4.0	4.0	37	0.1	0.5	<0.1	56	1.42	0.046
101463	Soil	1.1	32.8	8.9	63	<0.1	26.1	11.3	782	2.75	6.6	0.6	4.5	4.6	27	<0.1	0.4	0.1	69	0.54	0.047
101464	Soil	0.9	35.1	6.9	60	<0.1	24.1	9.9	483	2.52	7.9	0.6	6.0	3.6	31	0.1	0.5	0.1	56	0.55	0.063
101465	Soil	0.6	16.0	7.8	67	<0.1	15.1	8.7	352	2.35	4.7	0.6	<0.5	3.5	75	<0.1	0.2	<0.1	54	0.78	0.062
101466	Soil	0.7	16.8	7.8	64	<0.1	18.4	9.2	262	2.38	6.6	0.6	1.8	3.5	34	<0.1	0.3	<0.1	54	0.44	0.044
101467	Soil	1.7	22.1	11.4	58	<0.1	19.3	9.1	403	2.59	5.4	1.0	3.5	3.5	92	<0.1	0.3	<0.1	64	0.92	0.058
101468	Soil	0.7	14.0	8.4	97	<0.1	15.2	10.4	424	2.63	2.8	0.6	0.6	3.7	81	<0.1	0.2	<0.1	59	0.94	0.088
101469	Soil	0.8	6.1	5.9	89	<0.1	10.8	9.5	830	2.28	2.3	0.2	1.1	3.1	10	<0.1	0.2	<0.1	46	0.22	0.060
101470	Soil	0.7	13.0	6.0	89	<0.1	17.0	11.0	554	2.99	3.9	0.2	1.2	1.6	33	<0.1	0.2	<0.1	76	0.22	0.045
101471	Soil	0.6	21.0	8.2	60	<0.1	23.1	8.1	246	2.70	9.8	0.4	11.8	3.2	27	<0.1	0.5	0.1	62	0.24	0.020
101472	Soil	1.1	20.4	6.3	33	<0.1	13.2	8.4	292	2.27	4.8	0.4	2.1	2.5	144	<0.1	0.2	<0.1	48	0.58	0.041
101473	Soil	0.8	24.6	6.3	56	<0.1	10.5	9.6	444	2.98	3.2	0.4	1.5	2.4	125	<0.1	0.4	<0.1	72	0.98	0.068
101474	Soil	0.3	34.5	3.2	77	<0.1	10.0	10.2	329	2.41	2.9	0.1	1.2	1.1	35	<0.1	0.1	<0.1	50	0.24	0.061
101475	Soil	0.8	20.7	10.1	44	<0.1	22.0	7.5	235	2.56	8.7	0.8	4.0	7.2	18	<0.1	0.5	0.2	60	0.15	0.019
101476	Soil	0.3	42.2	1.8	72	<0.1	8.5	9.8	572	3.90	0.9	0.2	0.8	1.5	13	<0.1	0.1	<0.1	84	0.20	0.055
101477	Soil	0.3	35.9	4.3	71	<0.1	11.1	10.5	354	3.11	3.2	0.2	0.6	1.1	15	<0.1	0.1	<0.1	81	0.17	0.055
101478	Soil	0.8	15.4	7.9	54	<0.1	18.5	7.9	346	2.32	5.5	0.6	3.4	4.9	13	<0.1	0.3	0.1	56	0.13	0.016
101479	Soil	0.6	21.9	7.4	51	<0.1	20.0	8.9	280	2.60	6.1	0.5	1.9	3.6	17	<0.1	0.4	0.1	56	0.20	0.025
101480	Soil	0.6	18.1	6.4	141	<0.1	18.8	18.3	463	3.18	6.2	0.4	1.8	2.3	25	<0.1	0.3	0.2	98	0.25	0.035
101481	Soil	0.4	10.4	4.9	115	<0.1	16.9	18.6	514	2.89	4.2	0.2	3.1	1.2	17	<0.1	0.2	0.1	84	0.21	0.033
101482	Soil	0.5	8.0	6.3	54	<0.1	11.9	6.0	372	1.69	3.1	0.2	2.1	1.7	14	<0.1	0.2	0.1	37	0.21	0.060
101483	Soil	0.7	16.0	8.5	76	<0.1	14.7	6.9	295	2.73	5.9	0.6	2.6	3.7	15	<0.1	0.3	0.2	49	0.26	0.028
101484	Soil	0.3	5.5	3.5	100	<0.1	11.6	13.9	598	3.04	3.6	0.2	2.0	0.8	27	<0.1	0.1	<0.1	53	0.36	0.067
101485	Soil	1.1	10.6	8.1	45	<0.1	16.6	7.6	646	2.16	5.8	0.3	2.6	2.6	13	<0.1	0.4	0.1	49	0.16	0.039
101486	Soil	0.6	16.3	4.8	70	<0.1	18.1	13.2	710	2.78	4.0	0.3	1.3	1.9	21	<0.1	0.2	<0.1	65	0.32	0.045
101487	Soil	0.5	140.8	3.4	60	<0.1	22.7	21.8	485	3.35	4.8	0.4	4.7	1.5	52	<0.1	0.3	<0.1	91	0.51	0.084
101488	Soil	0.9	54.5	5.1	36	<0.1	19.2	9.5	450	2.02	4.6	0.5	1.7	6.0	20	<0.1	0.3	<0.1	36	0.32	0.026
101489	Soil	0.3	19.8	4.6	46	<0.1	8.2	7.1	606	2.25	1.8	0.5	2.3	3.5	124	<0.1	0.2	<0.1	45	1.06	0.053
101490	Soil	0.5	24.7	4.8	50	<0.1	11.8	9.4	703	2.52	2.7	0.4	1.5	2.7	109	<0.1	0.2	<0.1	54	0.93	0.055
101491	Soil	0.3	12.9	7.0	38	<0.1	26.3	19.7	590	2.91	2.8	0.1	1.5	0.9	54	<0.1	0.1	<0.1	79	0.50	0.025

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Page: 5 of 12 Part 2

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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	
101462	Soil	16	27	0.93	226	0.108	2	1.56	0.024	0.22	<0.1	0.03	4.4	0.1	<0.05	5	0.7	<0.2
101463	Soil	22	35	0.98	234	0.113	<1	1.76	0.021	0.23	0.1	0.08	5.3	<0.1	<0.05	7	0.6	<0.2
101464	Soil	14	25	0.78	271	0.087	2	1.41	0.025	0.17	0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
101465	Soil	11	20	0.80	165	0.104	<1	1.85	0.011	0.15	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
101466	Soil	10	25	0.71	159	0.094	<1	1.63	0.012	0.14	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
101467	Soil	13	25	0.79	238	0.124	1	2.17	0.018	0.11	0.1	0.02	3.2	<0.1	<0.05	7	0.5	<0.2
101468	Soil	10	25	0.79	192	0.124	1	2.09	0.017	0.24	0.1	0.02	2.6	<0.1	<0.05	9	<0.5	<0.2
101469	Soil	8	17	0.82	182	0.104	<1	1.50	0.008	0.26	<0.1	<0.01	6.2	<0.1	<0.05	7	<0.5	<0.2
101470	Soil	5	41	1.17	266	0.168	<1	2.26	0.011	0.37	<0.1	0.01	3.1	0.1	<0.05	8	<0.5	<0.2
101471	Soil	7	32	0.65	207	0.089	1	2.02	0.007	0.07	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
101472	Soil	5	19	1.15	182	0.107	<1	3.18	0.012	0.19	<0.1	<0.01	3.2	<0.1	<0.05	8	<0.5	<0.2
101473	Soil	11	16	1.07	262	0.222	<1	3.01	0.007	0.29	0.1	<0.01	1.6	<0.1	<0.05	9	<0.5	<0.2
101474	Soil	3	14	0.98	140	0.180	<1	1.97	0.006	0.37	<0.1	<0.01	0.6	0.2	<0.05	7	<0.5	<0.2
101475	Soil	13	37	0.50	222	0.054	<1	1.92	0.009	0.06	0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
101476	Soil	8	17	1.35	181	0.275	<1	2.56	0.007	0.61	<0.1	<0.01	1.9	0.3	<0.05	9	<0.5	<0.2
101477	Soil	4	15	1.11	162	0.217	<1	1.92	0.007	0.53	0.1	<0.01	2.3	0.2	<0.05	9	<0.5	<0.2
101478	Soil	12	33	0.51	186	0.077	<1	1.63	0.009	0.07	0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
101479	Soil	11	29	0.70	192	0.099	<1	1.60	0.010	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
101480	Soil	11	23	1.62	159	0.206	1	2.36	0.008	0.19	0.1	0.02	4.5	<0.1	<0.05	8	<0.5	<0.2
101481	Soil	4	22	1.94	205	0.177	<1	2.37	0.009	0.35	0.1	0.01	3.8	0.1	<0.05	8	<0.5	<0.2
101482	Soil	7	18	0.42	296	0.051	<1	1.26	0.007	0.06	0.1	<0.01	1.8	<0.1	0.06	5	<0.5	<0.2
101483	Soil	10	26	0.65	178	0.107	1	1.87	0.007	0.24	<0.1	0.02	4.0	0.1	<0.05	6	<0.5	<0.2
101484	Soil	2	14	2.22	184	0.257	<1	2.95	0.011	0.94	<0.1	0.01	1.8	0.2	<0.05	7	<0.5	<0.2
101485	Soil	8	28	0.34	254	0.041	<1	1.56	0.009	0.06	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
101486	Soil	6	26	1.51	334	0.149	<1	2.11	0.011	0.73	<0.1	0.02	3.6	0.1	<0.05	7	<0.5	<0.2
101487	Soil	8	29	1.77	178	0.162	<1	2.18	0.012	0.26	<0.1	0.02	5.9	<0.1	<0.05	7	<0.5	<0.2
101488	Soil	16	22	0.68	255	0.109	<1	1.32	0.010	0.23	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
101489	Soil	11	10	0.85	163	0.114	<1	2.31	0.009	0.10	<0.1	0.02	6.2	<0.1	<0.05	7	<0.5	<0.2
101490	Soil	9	18	0.88	202	0.095	<1	2.15	0.010	0.09	<0.1	0.03	5.1	<0.1	<0.05	7	<0.5	<0.2
101491	Soil	2	39	2.49	253	0.198	<1	2.87	0.011	0.22	<0.1	<0.01	2.5	<0.1	<0.05	7	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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
101492	Soil	0.8	27.8	13.1	48	0.1	25.0	9.1	452	2.36	9.7	0.8	7.3	2.9	29	0.2	0.8	0.1	47	0.99	0.052
101493	Soil	1.3	27.9	21.8	88	0.2	29.0	7.5	460	2.54	14.1	1.1	6.5	5.5	19	0.2	1.4	0.1	51	0.47	0.045
101494	Soil	0.7	13.7	9.1	34	0.1	14.5	6.6	192	2.04	7.0	0.6	1.9	3.7	20	<0.1	0.5	0.1	49	0.38	0.031
101495	Soil	1.1	21.1	11.8	42	0.1	8.6	3.8	137	1.49	4.7	0.4	17.6	3.9	13	<0.1	1.3	<0.1	28	0.13	0.016
101496	Soil	0.6	10.7	12.1	63	<0.1	11.3	6.3	199	1.91	4.7	0.5	0.6	3.0	39	<0.1	0.4	<0.1	45	0.40	0.056
101497	Soil	1.1	10.4	10.8	89	0.3	13.6	12.1	1273	2.61	1.7	0.5	7.7	3.3	25	0.3	0.6	0.1	49	0.30	0.063
101498	Soil	0.9	35.3	8.2	48	<0.1	26.2	9.1	279	2.28	8.5	0.7	12.2	5.5	25	<0.1	0.7	<0.1	53	0.36	0.039
101499	Soil	1.1	41.2	14.3	78	0.3	23.4	11.5	454	2.95	7.3	1.2	23.2	11.3	23	<0.1	1.6	0.1	57	0.52	0.026
101500	Soil	1.3	41.2	12.3	84	0.6	22.4	10.2	595	2.85	6.4	1.5	37.4	11.0	40	0.2	3.5	0.2	49	2.01	0.069
101501	Soil	0.5	26.3	9.1	49	0.1	21.8	8.0	348	2.33	8.4	0.5	11.8	3.6	33	<0.1	0.7	0.1	49	0.69	0.052
101502	Soil	0.5	30.6	8.2	52	0.2	22.2	7.5	300	2.26	6.6	0.9	8.7	3.4	40	<0.1	0.8	0.2	48	0.92	0.063
101503	Soil	0.7	31.9	10.5	59	0.2	22.3	8.7	393	2.54	7.1	1.2	6.3	5.4	34	0.2	0.9	0.1	51	0.88	0.042
101504	Soil	1.8	27.1	12.0	81	0.1	21.1	10.5	772	2.92	6.2	1.2	3.3	8.7	28	0.1	1.6	0.2	45	0.46	0.039
101505	Soil	3.1	14.8	11.3	50	0.1	13.9	6.0	233	2.46	4.8	0.7	2.7	4.8	12	0.1	0.9	0.3	46	0.14	0.020
101506	Soil	4.5	36.0	48.4	53	1.6	10.8	8.7	214	2.54	7.8	1.4	0.5	6.4	15	<0.1	14.6	0.2	27	0.13	0.019
101507	Soil	1.8	24.4	18.1	55	0.3	27.4	10.9	456	2.71	8.7	0.9	3.6	5.8	23	0.1	2.1	0.2	51	0.27	0.015
101508	Soil	1.7	35.2	17.6	58	0.6	30.5	10.3	558	2.70	9.2	1.1	4.3	6.4	28	<0.1	2.5	0.3	51	0.38	0.027
101509	Soil	1.0	25.7	14.6	43	1.2	16.4	6.9	301	2.00	5.3	1.6	5.1	4.0	41	0.1	1.5	0.3	37	0.66	0.034
101510	Soil	1.6	26.8	16.5	54	0.4	22.1	8.0	371	2.49	7.1	1.6	1.9	6.0	32	<0.1	1.3	0.2	43	0.55	0.034
101511	Soil	1.2	28.4	12.2	44	0.2	25.2	10.0	515	2.48	8.7	0.9	2.9	5.1	26	0.1	0.8	0.1	53	0.34	0.018
101512	Soil	1.5	16.6	10.6	59	<0.1	13.2	5.3	290	2.07	4.6	0.8	3.8	8.9	18	<0.1	0.8	0.1	37	0.23	0.020
101513	Soil	0.9	30.2	10.9	45	0.1	21.0	9.6	545	2.37	7.2	1.5	2.5	5.1	37	<0.1	0.7	0.2	48	0.54	0.055
101514	Soil	1.6	28.6	13.0	68	0.1	19.7	8.5	392	2.64	7.3	2.1	7.7	22.1	19	<0.1	0.7	0.3	41	0.30	0.035
101515	Soil	1.1	19.2	15.8	87	<0.1	12.8	9.0	530	2.96	2.8	2.2	0.8	20.7	21	<0.1	0.9	0.2	42	0.45	0.076
101516	Soil	0.8	27.9	11.6	62	<0.1	24.5	8.5	313	2.78	8.2	0.8	3.6	8.0	32	<0.1	0.9	0.2	52	0.57	0.042
101517	Soil	0.8	32.6	13.8	107	0.1	66.7	13.9	799	3.67	3.2	0.9	6.9	12.3	56	0.2	0.6	1.0	58	2.17	0.070
101518	Soil	2.3	33.0	16.5	101	0.2	15.2	8.0	477	3.47	3.8	1.7	59.5	17.0	10	<0.1	0.8	0.9	37	0.34	0.021
101519	Soil	1.1	44.2	15.5	140	<0.1	8.8	19.6	1093	5.79	4.0	0.7	1.5	2.6	19	<0.1	1.0	4.6	101	0.45	0.074
107798	Soil	1.3	29.2	7.5	55	0.1	25.2	11.9	398	3.30	6.2	0.5	2.7	4.1	15	<0.1	0.3	0.2	63	0.23	0.014
107799	Soil	1.0	21.1	9.5	50	0.2	18.6	8.6	244	3.14	9.0	0.5	2.5	5.5	10	<0.1	0.5	0.2	56	0.15	0.018

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
101492	Soil	18	26	0.44	262	0.037	<1	1.43	0.016	0.05	0.2	0.29	3.8	<0.1	<0.05	4	<0.5	<0.2
101493	Soil	23	29	0.28	204	0.033	<1	1.53	0.013	0.05	0.2	0.99	7.3	0.1	<0.05	5	<0.5	<0.2
101494	Soil	12	24	0.35	227	0.044	2	1.42	0.014	0.03	0.2	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
101495	Soil	8	15	0.27	337	0.013	<1	1.29	0.006	0.10	0.5	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
101496	Soil	14	22	0.49	175	0.022	<1	1.85	0.008	0.03	<0.1	0.03	3.1	<0.1	<0.05	8	<0.5	<0.2
101497	Soil	10	25	0.43	535	0.040	<1	1.60	0.010	0.13	0.2	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
101498	Soil	17	31	0.50	159	0.074	<1	1.32	0.020	0.05	0.2	0.06	4.0	<0.1	0.06	4	<0.5	<0.2
101499	Soil	55	27	0.60	204	0.051	<1	1.67	0.016	0.09	0.2	0.09	4.8	<0.1	<0.05	6	<0.5	<0.2
101500	Soil	27	27	0.50	395	0.036	3	1.28	0.016	0.11	0.2	0.18	4.1	<0.1	0.06	4	<0.5	<0.2
101501	Soil	15	27	0.49	338	0.061	2	1.29	0.022	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
101502	Soil	17	30	0.52	372	0.059	2	1.27	0.020	0.06	0.2	0.05	3.1	<0.1	0.08	4	<0.5	<0.2
101503	Soil	18	30	0.51	380	0.058	<1	1.53	0.019	0.07	0.1	0.06	3.8	<0.1	0.09	5	<0.5	<0.2
101504	Soil	15	27	0.78	259	0.065	1	1.52	0.016	0.12	0.2	0.06	4.2	<0.1	<0.05	7	<0.5	<0.2
101505	Soil	6	22	0.39	133	0.074	<1	1.31	0.007	0.19	0.1	0.02	2.0	0.1	<0.05	6	<0.5	<0.2
101506	Soil	23	15	0.19	125	0.019	1	0.96	0.006	0.12	<0.1	0.21	1.7	<0.1	<0.05	3	<0.5	<0.2
101507	Soil	17	38	0.44	305	0.056	<1	1.59	0.015	0.07	0.2	0.11	4.2	<0.1	<0.05	5	<0.5	<0.2
101508	Soil	20	34	0.51	401	0.063	2	1.65	0.018	0.08	0.2	0.18	4.5	<0.1	<0.05	5	<0.5	<0.2
101509	Soil	19	23	0.35	535	0.044	1	1.32	0.014	0.07	0.2	0.21	3.0	<0.1	<0.05	4	0.5	<0.2
101510	Soil	25	30	0.43	393	0.047	<1	1.42	0.014	0.08	0.2	0.17	3.6	<0.1	<0.05	5	<0.5	<0.2
101511	Soil	19	33	0.44	305	0.064	<1	1.50	0.016	0.06	0.1	0.06	4.5	<0.1	<0.05	4	<0.5	<0.2
101512	Soil	16	20	0.34	182	0.048	<1	1.13	0.008	0.10	0.2	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
101513	Soil	22	26	0.45	370	0.062	<1	1.37	0.021	0.06	0.2	0.07	3.8	<0.1	<0.05	4	<0.5	<0.2
101514	Soil	90	19	0.55	275	0.073	<1	1.47	0.008	0.19	0.2	0.07	4.3	0.3	<0.05	6	<0.5	<0.2
101515	Soil	41	18	0.77	170	0.091	<1	1.53	0.007	0.41	0.3	<0.01	4.2	0.4	0.08	8	<0.5	<0.2
101516	Soil	30	31	0.61	267	0.059	2	1.42	0.017	0.08	0.2	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
101517	Soil	29	121	1.46	324	0.118	2	1.86	0.014	0.61	0.2	0.04	6.9	0.5	<0.05	7	<0.5	<0.2
101518	Soil	45	17	0.43	151	0.032	1	1.03	0.004	0.20	2.6	0.08	6.6	0.1	<0.05	4	<0.5	<0.2
101519	Soil	13	13	1.24	584	0.189	1	2.39	0.009	1.31	0.2	0.05	6.7	0.4	<0.05	9	<0.5	<0.2
107798	Soil	13	47	1.21	158	0.137	<1	2.30	0.007	0.28	0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
107799	Soil	8	33	0.63	168	0.091	2	2.06	0.007	0.13	0.1	0.02	2.5	0.1	<0.05	6	<0.5	<0.2

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 Report Date: August 16, 2011

Page: 7 of 12 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	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	
107800	Soil	0.6	43.3	5.1	137	<0.1	43.3	13.5	1155	5.13	1.6	0.5	<0.5	4.4	14	<0.1	<0.1	0.1	57	0.39	0.115
107801	Soil	1.2	21.4	17.0	98	<0.1	9.3	6.0	485	2.67	5.0	0.5	0.7	5.1	10	<0.1	0.2	0.2	36	0.19	0.023
107802	Soil	1.6	24.1	7.2	72	<0.1	29.8	12.1	478	3.56	3.2	0.7	<0.5	16.0	7	<0.1	0.2	0.3	35	0.15	0.030
107803	Soil	3.2	21.4	12.7	90	<0.1	25.7	7.6	368	3.30	13.8	0.7	0.7	5.3	9	0.3	0.6	0.2	67	0.07	0.046
107804	Soil	6.7	25.7	11.7	56	0.1	33.3	9.3	227	3.15	19.7	0.5	1.3	8.7	11	0.2	0.6	0.2	64	0.09	0.030
107805	Soil	2.6	11.1	9.6	49	<0.1	13.8	6.1	438	2.63	7.5	0.3	1.0	3.1	8	0.1	0.5	0.2	59	0.06	0.036
107806	Soil	3.4	10.0	10.3	39	<0.1	17.5	7.5	468	2.15	5.5	0.4	1.2	5.1	14	<0.1	0.4	0.1	47	0.16	0.018
107807	Soil	1.6	28.5	9.8	50	<0.1	22.8	8.7	270	2.72	9.7	1.0	2.6	6.7	25	<0.1	0.6	0.2	58	0.35	0.036
107808	Soil	2.1	29.0	11.1	58	0.1	30.1	9.5	247	2.90	11.4	0.6	3.1	6.2	20	<0.1	0.7	0.2	62	0.21	0.016
107809	Soil	2.9	13.3	9.0	35	0.1	14.6	7.0	280	2.09	5.7	0.5	2.3	4.8	16	<0.1	0.4	0.2	47	0.18	0.015
107810	Soil	3.7	22.1	11.5	47	0.2	21.4	6.5	223	2.39	8.3	0.7	5.4	7.4	21	<0.1	0.7	0.2	51	0.27	0.018
107811	Soil	4.5	28.0	14.7	58	0.1	29.9	9.7	514	2.94	10.2	0.7	3.5	6.6	29	0.1	1.1	0.2	62	0.30	0.020
107812	Soil	2.3	28.8	30.1	73	<0.1	22.2	9.1	502	2.62	6.8	1.7	7.0	23.5	23	0.1	0.8	0.3	48	0.25	0.027
107813	Soil	1.2	23.3	13.1	51	0.1	18.1	7.5	583	2.50	7.6	0.7	0.7	8.1	16	<0.1	0.5	0.4	48	0.13	0.019
107814	Soil	1.8	27.2	18.3	50	<0.1	23.3	8.5	244	2.51	7.7	1.0	3.5	8.7	23	<0.1	0.7	0.2	56	0.22	0.013
107815	Soil	2.0	26.6	20.6	41	<0.1	19.5	7.0	195	2.21	6.8	0.9	3.6	11.8	20	0.1	0.6	0.2	46	0.18	0.014
107816	Soil	1.1	30.7	22.5	110	<0.1	14.5	11.9	467	3.42	4.9	2.1	3.2	32.4	22	<0.1	0.8	0.2	40	0.29	0.017
107817	Soil	1.6	142.8	22.7	112	<0.1	10.3	12.4	424	4.35	9.3	3.0	<0.5	30.5	22	<0.1	0.8	0.3	34	0.20	0.050
107818	Soil	0.9	27.2	10.2	47	0.1	22.4	7.4	270	2.37	9.1	0.6	10.7	7.8	26	<0.1	0.6	0.2	48	0.34	0.025
107819	Soil	0.6	33.7	50.7	57	0.1	19.9	8.3	400	2.23	8.7	0.8	3.3	9.7	54	0.2	0.6	0.3	41	1.79	0.050
107820	Soil	1.1	23.8	13.4	43	<0.1	17.8	5.8	308	1.91	5.9	0.9	2.0	10.7	19	<0.1	0.5	0.2	36	0.23	0.019
107821	Soil	0.4	48.6	4.4	76	<0.1	22.4	19.4	528	4.06	4.7	0.7	<0.5	5.2	64	<0.1	0.3	<0.1	116	0.57	0.037
107822	Soil	0.9	23.3	31.8	107	<0.1	28.8	10.5	502	3.15	2.8	0.8	<0.5	8.0	20	0.2	0.2	0.3	40	0.28	0.026
107823	Soil	0.7	35.6	9.2	54	<0.1	27.1	10.0	332	2.77	10.5	0.6	4.4	5.3	33	<0.1	0.7	0.2	55	0.41	0.028
107824	Soil	0.9	23.3	7.0	73	<0.1	37.2	15.0	482	3.30	4.6	0.5	1.9	8.1	35	<0.1	0.3	0.1	58	0.52	0.049
107825	Soil	0.8	25.5	7.7	63	<0.1	22.9	11.2	417	2.78	6.2	0.7	3.3	5.5	29	<0.1	0.5	0.1	53	0.42	0.036
107826	Soil	0.9	26.8	10.4	72	<0.1	32.8	14.0	620	2.99	4.5	0.5	5.5	5.6	34	0.1	0.5	0.1	55	0.46	0.040
107827	Soil	0.7	31.9	8.3	63	0.1	25.9	10.1	411	2.50	7.3	0.7	7.2	3.9	41	0.2	0.6	0.2	47	0.71	0.054
107828	Soil	0.9	27.6	9.7	59	<0.1	24.7	10.3	438	2.59	7.8	0.8	6.0	4.3	35	0.1	0.6	0.2	50	0.55	0.047
111695	Soil	1.1	34.4	11.0	49	0.1	21.7	8.5	272	2.88	9.8	1.3	5.6	7.0	17	<0.1	0.7	0.2	59	0.14	0.015

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
107800	Soil	40	53	1.56	210	0.249	<1	2.92	0.006	0.94	0.1	0.01	1.5	0.6	<0.05	12	<0.5	<0.2
107801	Soil	6	20	0.78	87	0.100	<1	2.03	0.006	0.40	0.1	0.01	1.7	0.2	<0.05	7	<0.5	<0.2
107802	Soil	8	28	0.85	133	0.155	<1	2.35	0.005	0.72	<0.1	0.01	2.4	0.5	<0.05	7	<0.5	<0.2
107803	Soil	6	30	0.39	334	0.046	<1	2.34	0.006	0.06	0.2	0.01	2.6	<0.1	<0.05	8	<0.5	<0.2
107804	Soil	5	38	0.41	366	0.043	1	2.79	0.006	0.05	0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
107805	Soil	6	26	0.36	143	0.049	1	1.43	0.006	0.05	0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
107806	Soil	7	27	0.30	215	0.031	<1	1.38	0.007	0.03	0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
107807	Soil	27	38	0.51	226	0.065	1	1.59	0.014	0.05	0.2	0.04	5.8	<0.1	<0.05	4	<0.5	<0.2
107808	Soil	14	44	0.56	252	0.061	1	2.00	0.010	0.05	0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
107809	Soil	13	24	0.36	202	0.047	<1	1.27	0.008	0.04	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
107810	Soil	23	32	0.48	292	0.051	1	1.55	0.010	0.05	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
107811	Soil	38	44	0.53	377	0.059	<1	1.96	0.010	0.07	0.1	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
107812	Soil	54	31	0.50	230	0.074	<1	1.57	0.009	0.10	0.2	0.07	5.2	0.1	<0.05	6	<0.5	<0.2
107813	Soil	8	27	0.46	228	0.054	1	1.52	0.009	0.08	0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
107814	Soil	27	39	0.47	279	0.065	1	1.75	0.012	0.04	0.1	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
107815	Soil	30	29	0.36	210	0.062	1	1.50	0.008	0.04	0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
107816	Soil	69	22	0.56	231	0.077	<1	1.84	0.008	0.19	<0.1	0.06	6.0	0.3	<0.05	8	<0.5	<0.2
107817	Soil	11	14	0.58	43	0.005	<1	1.93	0.004	0.08	<0.1	0.03	2.2	<0.1	<0.05	8	<0.5	<0.2
107818	Soil	17	28	0.51	201	0.065	<1	1.30	0.019	0.04	0.1	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
107819	Soil	27	20	0.54	261	0.052	1	1.06	0.029	0.07	0.1	0.04	3.2	<0.1	<0.05	3	<0.5	<0.2
107820	Soil	26	26	0.34	192	0.048	<1	0.99	0.013	0.04	<0.1	0.03	3.5	<0.1	<0.05	3	<0.5	<0.2
107821	Soil	23	53	2.25	441	0.283	<1	3.04	0.010	0.82	0.1	<0.01	3.4	0.3	<0.05	8	<0.5	<0.2
107822	Soil	9	48	1.03	110	0.190	<1	2.04	0.007	0.43	0.1	0.02	1.8	0.3	<0.05	7	<0.5	<0.2
107823	Soil	16	33	0.64	274	0.085	<1	1.73	0.024	0.06	0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
107824	Soil	19	104	1.18	254	0.186	<1	2.00	0.012	0.39	0.1	0.01	3.2	0.2	<0.05	6	<0.5	<0.2
107825	Soil	19	42	0.76	226	0.128	<1	1.66	0.018	0.20	0.1	0.05	4.2	0.1	<0.05	5	<0.5	<0.2
107826	Soil	16	76	0.96	288	0.144	<1	1.84	0.018	0.37	<0.1	0.06	3.6	0.1	<0.05	6	<0.5	<0.2
107827	Soil	15	33	0.62	298	0.086	2	1.44	0.022	0.13	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
107828	Soil	15	33	0.62	300	0.088	<1	1.47	0.022	0.10	0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
111695	Soil	23	37	0.50	208	0.066	<1	1.97	0.009	0.04	0.1	0.06	6.5	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	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
111696	Soil			1.0	26.3	9.5	55	<0.1	26.1	9.1	232	2.74	11.9	0.5	1.6	5.7	12	<0.1	0.6	0.2	59	0.10	0.018
111697	Soil			1.4	17.6	9.1	77	<0.1	18.5	6.8	283	2.39	9.9	0.6	1.8	7.4	11	<0.1	0.4	0.1	43	0.09	0.030
111698	Soil			1.6	12.5	9.6	56	<0.1	15.7	7.1	327	2.49	8.5	0.4	<0.5	4.0	14	<0.1	0.4	0.1	55	0.13	0.026
111699	Soil			1.4	15.2	10.1	66	<0.1	13.3	5.5	275	2.69	6.3	0.7	2.0	5.8	10	<0.1	0.5	0.1	52	0.09	0.021
111700	Soil			1.9	17.9	10.5	65	0.1	22.4	7.1	250	2.82	11.0	0.5	3.9	4.7	10	0.3	0.6	0.2	59	0.09	0.031
111701	Soil			1.3	23.0	16.7	77	0.1	23.5	7.4	244	2.94	11.0	1.0	<0.5	11.6	20	<0.1	0.5	0.3	62	0.24	0.030
111702	Soil			0.8	49.8	16.2	97	<0.1	13.5	8.2	369	3.27	5.5	2.1	0.7	24.3	17	<0.1	0.5	0.8	43	0.26	0.044
111703	Soil			0.6	23.7	13.3	97	<0.1	10.2	9.3	440	3.63	6.8	2.5	<0.5	18.1	19	<0.1	0.9	0.5	58	0.22	0.055
111704	Soil			0.6	11.8	13.6	76	<0.1	5.7	4.6	542	2.80	1.6	1.7	3.7	11.6	11	<0.1	0.4	0.2	32	0.25	0.050
111705	Soil			1.0	28.8	12.5	78	<0.1	9.0	7.8	510	3.40	7.4	1.0	<0.5	6.2	20	<0.1	0.9	<0.1	82	0.54	0.076
111706	Soil			1.1	21.0	13.1	78	<0.1	8.8	3.9	437	2.10	5.1	0.5	1.1	12.0	6	<0.1	0.5	<0.1	33	0.12	0.017
111707	Soil			1.1	5.6	7.1	49	<0.1	6.4	8.6	474	3.77	5.2	1.5	1.5	6.9	16	<0.1	0.3	0.2	55	0.21	0.053
111708	Soil			1.2	20.6	8.9	60	0.1	22.0	9.5	371	3.26	10.2	0.8	2.6	8.1	24	<0.1	0.7	0.1	65	0.19	0.020
111709	Soil			0.9	19.2	11.0	76	<0.1	22.1	11.3	463	3.62	12.2	0.4	<0.5	4.9	19	<0.1	0.6	0.1	70	0.19	0.026
111710	Soil			0.7	15.1	7.8	136	<0.1	19.5	16.0	767	5.30	7.1	0.6	<0.5	6.6	10	<0.1	0.3	0.1	91	0.16	0.040
111711	Soil			4.2	76.7	18.1	97	12.3	15.5	17.1	416	4.34	96.1	0.6	3430	4.6	29	<0.1	1.0	0.4	78	0.64	0.092
111712	Soil			1.7	45.2	11.3	118	<0.1	22.2	18.8	632	4.86	25.1	0.5	3.9	4.6	20	<0.1	1.5	0.1	117	0.42	0.096
111713	Soil			0.9	28.5	13.0	125	<0.1	19.8	13.5	943	4.75	11.7	0.8	4.0	9.5	19	<0.1	2.0	<0.1	112	0.56	0.095
111714	Soil			0.9	21.8	13.1	149	<0.1	16.8	14.3	569	4.96	4.9	0.8	0.7	6.9	40	<0.1	2.0	<0.1	120	0.80	0.130
111715	Soil			1.4	15.5	15.5	50	0.1	17.5	6.8	215	2.58	7.3	0.5	<0.5	5.3	14	<0.1	0.4	0.3	52	0.18	0.018
111716	Soil			4.5	14.2	9.9	44	<0.1	15.0	5.5	223	2.26	7.2	0.6	<0.5	9.7	14	<0.1	0.4	0.1	45	0.14	0.014
111717	Soil			2.6	25.7	10.0	45	<0.1	11.3	4.0	264	1.97	3.4	0.9	<0.5	22.8	13	<0.1	0.3	0.1	22	0.23	0.016
111718	Soil			2.6	23.3	12.9	54	<0.1	18.2	8.4	533	2.51	6.7	0.6	<0.5	9.7	18	<0.1	0.5	0.2	53	0.27	0.018
111719	Soil			1.2	49.8	18.5	118	<0.1	14.3	10.4	678	3.46	3.4	1.1	<0.5	12.6	16	0.1	0.3	0.1	50	0.39	0.054
111720	Soil			1.3	14.3	14.3	95	<0.1	11.6	7.4	435	3.12	5.9	1.1	<0.5	5.2	17	<0.1	0.4	0.2	50	0.21	0.020
111721	Soil			2.2	20.9	16.0	95	<0.1	10.7	9.1	628	3.41	4.7	1.2	<0.5	10.4	9	<0.1	0.3	0.3	39	0.20	0.030
111722	Soil			1.8	37.5	16.8	97	<0.1	20.9	10.2	680	3.07	5.3	1.7	4.2	15.0	18	0.1	0.4	0.5	44	0.35	0.038
111723	Soil			1.9	30.4	31.9	105	<0.1	34.0	16.6	776	3.87	4.0	1.5	1.0	10.3	30	<0.1	0.4	0.2	70	0.47	0.038
111724	Soil			1.6	11.9	8.1	76	<0.1	15.7	9.2	489	3.15	8.2	0.6	<0.5	5.7	16	<0.1	0.3	0.2	57	0.22	0.028
111725	Soil			1.3	28.4	48.9	306	<0.1	20.8	6.8	1094	3.45	1.9	1.2	3.4	19.7	21	0.3	0.2	0.3	35	0.86	0.051

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 Report Date: August 16, 2011

Page: 8 of 12 Part 2

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	
111696	Soil	8	35	0.52	197	0.067	<1	2.36	0.007	0.07	0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
111697	Soil	5	24	0.38	186	0.053	<1	2.05	0.006	0.09	0.1	<0.01	2.4	0.1	<0.05	5	<0.5	<0.2
111698	Soil	8	27	0.37	195	0.049	<1	1.98	0.007	0.04	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
111699	Soil	7	23	0.38	140	0.045	<1	1.86	0.005	0.06	0.1	<0.01	3.5	0.1	<0.05	6	<0.5	<0.2
111700	Soil	7	34	0.44	183	0.053	1	2.22	0.006	0.05	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
111701	Soil	15	34	0.56	102	0.069	<1	2.34	0.008	0.15	0.1	<0.01	3.3	0.1	<0.05	7	<0.5	<0.2
111702	Soil	44	20	0.55	116	0.085	<1	1.40	0.009	0.28	0.1	<0.01	6.1	0.3	<0.05	6	<0.5	<0.2
111703	Soil	14	18	0.59	99	0.014	<1	1.72	0.005	0.06	<0.1	0.02	4.4	<0.1	<0.05	9	<0.5	<0.2
111704	Soil	20	8	0.27	119	0.026	<1	0.82	0.004	0.13	0.1	<0.01	5.5	<0.1	<0.05	4	<0.5	<0.2
111705	Soil	8	17	0.64	84	0.006	<1	1.42	0.005	0.04	<0.1	0.04	5.4	<0.1	<0.05	10	<0.5	<0.2
111706	Soil	8	11	0.11	297	0.009	<1	0.65	0.003	0.04	0.1	0.10	2.5	<0.1	<0.05	2	<0.5	<0.2
111707	Soil	5	17	0.75	108	0.035	<1	1.96	0.007	0.19	0.1	<0.01	3.6	<0.1	<0.05	10	<0.5	<0.2
111708	Soil	15	39	0.64	135	0.097	<1	2.13	0.008	0.07	0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
111709	Soil	8	38	0.79	166	0.150	<1	2.46	0.007	0.18	0.2	<0.01	2.9	<0.1	<0.05	7	<0.5	<0.2
111710	Soil	11	52	2.44	246	0.215	<1	3.88	0.009	0.55	0.1	<0.01	8.0	0.3	<0.05	14	<0.5	<0.2
111711	Soil	25	22	0.98	137	0.003	<1	2.04	0.005	0.05	<0.1	0.32	6.2	<0.1	0.11	10	1.5	5.7
111712	Soil	8	36	0.82	188	0.029	<1	2.16	0.007	0.08	<0.1	0.03	7.3	0.2	<0.05	11	0.7	<0.2
111713	Soil	26	28	0.22	165	0.005	<1	1.14	0.006	0.07	0.2	0.03	14.1	<0.1	<0.05	6	<0.5	<0.2
111714	Soil	16	34	0.95	156	0.013	<1	2.32	0.008	0.05	0.2	<0.01	9.3	<0.1	<0.05	13	<0.5	<0.2
111715	Soil	9	29	0.44	145	0.050	<1	1.65	0.008	0.09	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
111716	Soil	8	25	0.33	153	0.041	<1	1.45	0.006	0.08	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
111717	Soil	23	16	0.27	141	0.023	<1	1.01	0.005	0.12	0.1	0.02	4.0	0.1	<0.05	4	<0.5	<0.2
111718	Soil	17	31	0.39	201	0.051	<1	1.46	0.011	0.06	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
111719	Soil	32	21	0.76	193	0.119	<1	1.51	0.008	0.46	<0.1	0.01	7.4	0.2	<0.05	7	<0.5	<0.2
111720	Soil	4	20	0.67	116	0.058	<1	1.84	0.007	0.30	<0.1	<0.01	2.6	0.1	<0.05	8	<0.5	<0.2
111721	Soil	4	23	0.74	92	0.107	<1	1.88	0.005	0.59	<0.1	<0.01	5.2	0.4	<0.05	7	<0.5	<0.2
111722	Soil	43	24	0.68	154	0.095	<1	1.58	0.014	0.37	0.1	0.04	6.9	0.2	<0.05	7	<0.5	<0.2
111723	Soil	32	73	1.05	227	0.109	<1	2.17	0.015	0.32	<0.1	0.02	8.4	0.1	<0.05	8	<0.5	<0.2
111724	Soil	6	20	0.68	156	0.143	1	2.20	0.008	0.39	0.1	0.01	3.2	0.2	<0.05	7	<0.5	<0.2
111725	Soil	62	25	1.08	265	0.122	<1	1.62	0.008	0.44	0.1	0.04	5.1	0.3	<0.05	7	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
111726	Soil	0.9	44.4	5.3	50	<0.1	31.2	15.3	295	2.67	5.3	0.4	1.7	3.1	22	<0.1	0.3	<0.1	62	0.40	0.012
111727	Soil	1.8	34.7	41.6	110	<0.1	15.1	8.8	724	3.74	3.5	1.5	1.5	20.1	12	<0.1	0.2	0.7	35	0.24	0.028
111728	Soil	0.7	28.0	5.6	74	<0.1	18.2	9.6	749	3.07	5.4	0.8	4.4	9.3	45	0.1	0.4	0.1	51	1.61	0.055
111729	Soil	1.2	25.3	6.5	59	<0.1	11.2	6.8	487	2.74	11.6	0.7	<0.5	20.2	7	<0.1	0.2	<0.1	35	0.13	0.022
110482	Soil	0.7	25.1	8.3	80	0.1	19.7	9.6	315	2.77	13.5	0.7	3.6	3.6	58	0.1	0.9	0.1	62	0.73	0.085
110483	Soil	0.7	27.8	8.5	62	0.1	23.8	10.1	377	2.52	9.5	0.8	1.0	3.8	43	0.1	0.7	0.1	56	0.72	0.074
110484	Soil	1.3	25.1	11.4	73	0.1	26.0	11.9	412	3.09	11.0	0.9	2.1	4.1	47	<0.1	0.8	0.2	74	0.62	0.052
110485	Soil	1.9	21.7	13.1	92	<0.1	24.2	11.3	363	3.35	8.6	0.6	2.7	3.7	66	0.1	0.7	0.1	88	0.72	0.067
110486	Soil	1.8	37.7	9.6	92	<0.1	22.7	11.7	353	3.41	13.4	1.1	1.6	4.5	84	<0.1	0.9	0.1	89	0.72	0.073
110487	Soil	1.4	29.4	13.2	105	<0.1	26.0	13.7	424	3.75	10.6	0.7	2.8	4.8	73	<0.1	0.8	0.1	89	0.63	0.065
110488	Soil	1.0	27.9	10.4	81	<0.1	25.6	12.6	416	3.22	8.0	0.9	2.3	4.3	54	<0.1	0.8	0.1	78	0.55	0.063
110489	Soil	1.3	35.6	11.7	83	<0.1	32.5	12.3	402	3.35	9.0	0.7	3.2	5.0	48	<0.1	0.7	0.2	79	0.53	0.053
110490	Soil	1.3	36.2	12.4	110	<0.1	32.7	14.2	517	3.71	8.4	0.8	3.6	4.4	69	0.1	0.9	0.2	88	0.65	0.078
110491	Soil	1.1	21.1	11.3	77	<0.1	24.2	11.2	269	3.53	9.5	0.7	4.9	5.7	36	<0.1	0.7	0.2	90	0.27	0.029
110492	Soil	1.3	21.7	12.0	84	<0.1	29.3	12.4	447	3.87	14.4	0.4	3.2	3.5	39	<0.1	0.7	0.2	95	0.22	0.035
110493	Soil	0.8	8.4	9.9	78	0.2	11.8	7.9	415	2.42	8.4	0.4	5.7	5.8	27	<0.1	0.4	<0.1	58	1.55	0.094
110494	Soil	4.5	41.5	13.9	105	0.4	26.0	7.8	212	3.94	14.5	0.9	3.5	3.9	16	0.1	1.0	0.2	109	0.23	0.024
110495	Soil	1.0	9.5	13.2	166	<0.1	15.9	17.3	548	5.21	4.2	0.7	1.9	6.9	38	<0.1	1.1	<0.1	123	0.76	0.168
110496	Soil	1.1	11.4	15.6	152	<0.1	12.0	12.8	681	4.23	8.9	0.6	4.0	6.1	156	<0.1	1.8	<0.1	115	0.58	0.069
110497	Soil	1.4	13.2	14.8	176	<0.1	23.0	15.0	879	4.02	8.3	0.5	18.3	2.8	75	0.2	0.8	0.2	97	0.46	0.135
110498	Soil	1.4	10.5	12.3	156	<0.1	17.4	13.1	1576	3.04	4.2	0.4	<0.5	3.6	38	0.3	0.6	0.1	64	0.43	0.101
110499	Soil	1.8	22.3	17.4	156	<0.1	22.0	15.1	531	4.49	11.4	0.7	2.4	4.5	108	<0.1	0.6	<0.1	107	0.73	0.118
110500	Soil	1.0	30.9	14.5	199	<0.1	17.5	14.5	533	5.15	8.9	1.0	0.9	4.7	87	<0.1	0.8	<0.1	136	0.86	0.209
110501	Soil	0.6	24.0	9.3	186	<0.1	15.6	15.6	560	5.15	11.6	0.5	1.1	3.5	288	<0.1	1.3	<0.1	133	1.46	0.299
110502	Soil	1.3	21.9	12.6	111	<0.1	24.2	13.4	358	4.13	11.5	0.5	1.8	3.6	68	0.2	1.0	0.2	108	0.42	0.100
110503	Soil	1.2	8.2	12.2	45	<0.1	10.4	4.5	181	1.95	6.9	0.4	<0.5	2.5	57	<0.1	0.6	0.1	49	0.19	0.049
110504	Soil	1.0	9.5	12.0	63	<0.1	13.2	5.7	153	1.92	5.0	0.6	1.1	3.3	37	<0.1	0.6	<0.1	46	0.21	0.022
110505	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.
110506	Soil	1.2	21.1	11.9	58	<0.1	27.4	9.8	317	2.79	10.6	0.6	3.0	3.8	26	0.2	0.8	0.2	64	1.26	0.022
110507	Soil	0.7	28.2	11.9	50	<0.1	29.8	11.5	404	2.95	13.5	0.7	2.9	4.9	27	<0.1	0.5	0.2	74	0.73	0.018

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
111726	Soil	13	80	1.22	114	0.174	<1	2.08	0.020	0.14	0.1	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
111727	Soil	17	26	1.31	165	0.125	<1	2.02	0.007	1.00	<0.1	0.01	4.0	0.3	<0.05	10	<0.5	<0.2
111728	Soil	29	17	0.94	241	0.145	<1	1.51	0.026	0.38	0.2	0.03	4.3	0.2	<0.05	6	<0.5	<0.2
111729	Soil	25	15	0.63	63	0.101	<1	1.58	0.006	0.48	0.1	<0.01	3.5	0.2	<0.05	7	<0.5	<0.2
110482	Soil	13	28	0.68	211	0.098	1	1.69	0.025	0.05	0.2	0.05	4.0	<0.1	<0.05	6	0.5	<0.2
110483	Soil	14	28	0.57	286	0.082	1	1.42	0.026	0.06	0.2	0.03	3.8	<0.1	<0.05	5	0.7	<0.2
110484	Soil	15	39	0.66	325	0.088	2	1.86	0.027	0.05	0.2	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
110485	Soil	12	45	0.85	297	0.115	2	2.15	0.019	0.06	0.2	0.03	4.8	<0.1	0.06	8	<0.5	<0.2
110486	Soil	16	42	0.82	206	0.133	1	2.01	0.024	0.04	0.1	0.02	6.1	<0.1	<0.05	8	<0.5	<0.2
110487	Soil	14	44	0.84	274	0.112	<1	2.51	0.017	0.05	0.2	0.02	5.3	<0.1	<0.05	10	<0.5	<0.2
110488	Soil	15	42	0.73	254	0.093	1	1.99	0.019	0.05	0.2	0.05	5.7	<0.1	<0.05	7	<0.5	<0.2
110489	Soil	16	49	0.86	283	0.097	<1	2.15	0.027	0.05	0.2	0.05	5.8	<0.1	<0.05	7	<0.5	<0.2
110490	Soil	14	50	1.05	288	0.105	<1	2.29	0.026	0.05	0.2	0.05	5.5	<0.1	<0.05	9	<0.5	<0.2
110491	Soil	13	42	0.71	174	0.082	<1	2.45	0.011	0.05	0.1	0.02	4.4	0.1	<0.05	8	<0.5	<0.2
110492	Soil	9	45	0.74	221	0.095	1	2.88	0.010	0.07	0.1	0.02	3.7	0.1	<0.05	8	<0.5	<0.2
110493	Soil	39	18	0.25	157	0.005	1	0.98	0.006	0.06	<0.1	0.05	5.6	<0.1	<0.05	6	<0.5	<0.2
110494	Soil	6	39	0.40	192	0.011	<1	2.10	0.006	0.04	0.1	0.05	6.5	<0.1	<0.05	10	<0.5	<0.2
110495	Soil	8	37	1.16	272	0.008	<1	2.72	0.009	0.06	<0.1	0.01	8.6	<0.1	<0.05	16	<0.5	<0.2
110496	Soil	15	31	1.23	186	0.012	<1	3.29	0.014	0.04	0.2	0.03	5.4	<0.1	<0.05	17	<0.5	<0.2
110497	Soil	9	40	0.95	350	0.089	1	3.17	0.011	0.06	0.2	0.02	4.1	<0.1	<0.05	12	<0.5	<0.2
110498	Soil	9	32	0.61	474	0.031	1	2.22	0.021	0.12	0.1	0.02	3.3	<0.1	<0.05	8	<0.5	<0.2
110499	Soil	10	45	1.19	254	0.135	1	3.15	0.011	0.09	0.3	0.01	6.5	<0.1	<0.05	13	<0.5	<0.2
110500	Soil	12	42	1.29	213	0.122	<1	2.83	0.024	0.06	0.2	0.08	7.2	<0.1	<0.05	15	<0.5	<0.2
110501	Soil	8	34	1.51	227	0.231	<1	3.83	0.023	0.16	0.2	0.02	3.5	<0.1	<0.05	19	<0.5	<0.2
110502	Soil	10	43	0.91	291	0.123	1	3.40	0.013	0.08	0.2	0.03	4.6	<0.1	<0.05	11	<0.5	<0.2
110503	Soil	7	21	0.26	206	0.041	<1	1.57	0.008	0.09	0.2	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
110504	Soil	9	23	0.41	311	0.028	<1	1.33	0.010	0.06	0.3	0.09	1.9	<0.1	<0.05	5	<0.5	<0.2
110505	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.
110506	Soil	16	38	0.43	192	0.045	2	2.04	0.016	0.07	0.1	0.10	4.8	<0.1	<0.05	6	<0.5	<0.2
110507	Soil	19	39	0.56	292	0.078	1	2.08	0.022	0.05	0.1	0.08	5.9	<0.1	<0.05	6	<0.5	<0.2

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 Report Date: August 16, 2011

Page: 10 of 12 Part 1

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
110508	Soil			0.7	28.0	11.3	62	0.1	37.4	11.6	418	2.81	11.5	0.6	4.2	3.9	51	0.2	0.5	0.2	69	3.99	0.033
110509	Soil			0.7	23.0	2.3	13	<0.1	15.3	7.4	433	0.95	6.3	1.3	<0.5	0.9	307	0.2	0.2	<0.1	33	28.09	0.047
110510	Soil			0.3	19.4	3.6	25	<0.1	25.9	8.5	327	1.53	6.2	0.7	0.8	1.2	145	0.2	0.2	<0.1	46	20.90	0.065
110511	Soil			0.4	15.2	7.8	38	<0.1	17.8	6.5	351	1.83	5.8	0.5	2.9	2.4	68	0.2	0.2	<0.1	41	5.07	0.049
110512	Soil			0.2	5.1	7.4	52	<0.1	4.8	6.1	442	1.55	4.8	0.4	0.9	8.9	17	<0.1	0.2	0.2	21	0.27	0.027
110513	Soil			0.1	3.7	3.8	58	<0.1	10.2	11.9	704	2.96	0.7	0.2	<0.5	6.1	14	<0.1	0.1	<0.1	48	0.31	0.031
110514	Soil			0.4	12.2	9.1	80	<0.1	8.4	7.7	637	1.83	7.2	0.6	0.7	5.0	16	<0.1	0.3	0.1	33	0.58	0.077
110515	Soil			0.8	12.0	9.2	64	<0.1	18.8	7.9	386	2.62	9.6	0.3	4.0	2.8	13	0.1	0.4	0.2	67	0.15	0.055
105799	Soil			0.4	19.8	5.0	38	<0.1	17.4	15.1	612	2.85	4.2	0.4	<0.5	4.8	15	<0.1	0.2	<0.1	62	0.20	0.016
105800	Soil			0.1	74.2	3.0	38	<0.1	15.2	14.6	237	2.12	2.6	0.3	1.5	0.7	265	<0.1	0.1	<0.1	65	2.60	0.048
105801	Soil			0.7	10.9	6.3	50	<0.1	14.1	9.0	863	2.14	5.4	0.4	1.4	4.1	18	<0.1	0.3	<0.1	46	0.32	0.045
105802	Soil			0.6	39.1	9.2	56	<0.1	20.3	10.8	609	2.40	5.8	1.1	2.7	4.4	38	<0.1	0.4	0.2	56	0.43	0.060
105803	Soil			0.2	26.5	5.7	119	<0.1	9.6	13.6	563	3.13	1.7	0.6	1.3	3.2	226	<0.1	<0.1	<0.1	84	2.18	0.064
105804	Soil			0.6	57.2	4.5	86	<0.1	25.3	11.8	583	3.54	2.3	0.4	<0.5	3.0	26	<0.1	0.2	0.1	108	0.47	0.058
105805	Soil			0.3	34.2	2.1	58	<0.1	15.9	14.7	516	3.86	1.2	0.6	0.7	1.7	51	<0.1	0.1	<0.1	138	0.60	0.084
105806	Soil			0.3	8.2	3.9	128	<0.1	14.0	15.9	626	3.19	2.1	0.3	0.8	0.7	62	<0.1	0.1	<0.1	82	0.54	0.060
105807	Soil			0.5	15.8	5.0	85	<0.1	13.2	12.0	445	3.19	4.1	0.3	<0.5	1.4	29	<0.1	0.2	<0.1	74	0.32	0.053
105808	Soil			1.1	13.6	7.8	43	<0.1	19.2	9.5	766	2.21	5.4	0.7	2.2	4.3	36	<0.1	0.4	0.1	50	0.52	0.046
105809	Soil			0.6	37.0	7.2	88	<0.1	16.0	9.9	463	2.16	1.4	0.5	<0.5	2.3	184	<0.1	<0.1	<0.1	55	1.55	0.106
105810	Soil			0.2	15.1	2.3	67	<0.1	17.6	17.3	878	3.90	1.4	0.3	1.0	0.7	128	<0.1	0.1	<0.1	108	1.26	0.066
105811	Soil			0.4	23.7	4.9	42	<0.1	13.4	9.6	714	2.67	3.1	0.9	3.5	5.1	31	<0.1	0.3	<0.1	59	0.44	0.067
105812	Soil			0.4	34.6	5.6	30	<0.1	16.3	7.4	489	1.96	5.1	0.7	3.5	6.0	21	<0.1	0.4	<0.1	38	0.40	0.038
105813	Soil			0.4	35.3	3.5	31	<0.1	15.2	8.0	650	1.83	3.1	0.8	3.3	5.9	35	<0.1	0.3	<0.1	34	1.45	0.044
105814	Soil			0.2	31.3	3.3	114	<0.1	15.4	22.4	886	4.33	1.6	0.4	1.0	2.2	40	<0.1	0.1	<0.1	119	0.52	0.065
105815	Soil			0.7	21.1	7.9	55	0.1	15.9	9.9	349	2.67	5.7	0.5	3.6	3.2	14	<0.1	0.4	0.1	70	0.16	0.038
105816	Soil			0.2	35.1	3.1	108	<0.1	10.1	20.2	841	4.52	1.1	0.6	1.5	2.0	45	<0.1	0.1	<0.1	116	0.71	0.129
105817	Soil			0.3	24.4	2.8	86	<0.1	12.4	26.7	795	4.58	2.3	1.0	4.6	5.0	34	<0.1	0.2	<0.1	143	0.74	0.171
105818	Soil			0.7	23.0	7.1	50	<0.1	17.4	11.9	384	2.68	6.4	0.5	1.4	3.5	30	<0.1	0.4	0.1	63	0.34	0.036
105819	Soil			0.9	16.9	8.8	54	<0.1	19.1	10.1	412	2.53	7.0	0.5	<0.5	4.0	18	<0.1	0.5	0.1	60	0.19	0.025
105820	Soil			1.5	19.2	8.3	42	<0.1	18.4	8.7	309	2.30	6.4	0.7	0.8	4.9	19	<0.1	0.3	0.1	50	0.27	0.055

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	0.001	0.01	0.001	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
110508	Soil	16	41	1.65	201	0.077	2	1.95	0.022	0.05	0.1	0.09	5.3	<0.1	<0.05	5	<0.5	<0.2
110509	Soil	4	12	1.86	135	0.008	<1	0.71	0.005	0.14	<0.1	0.03	3.1	0.2	<0.05	2	<0.5	<0.2
110510	Soil	6	31	1.32	107	0.039	<1	1.29	0.008	0.03	<0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
110511	Soil	10	24	0.95	165	0.031	1	1.93	0.012	0.04	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
110512	Soil	28	7	0.89	51	0.047	<1	1.44	0.006	0.10	<0.1	0.01	2.8	0.1	<0.05	5	<0.5	<0.2
110513	Soil	31	18	1.57	120	0.191	<1	1.85	0.006	0.61	<0.1	<0.01	12.9	0.3	<0.05	8	<0.5	<0.2
110514	Soil	25	13	0.77	115	0.056	<1	1.47	0.007	0.25	<0.1	0.01	3.6	0.1	<0.05	4	<0.5	<0.2
110515	Soil	9	30	0.42	171	0.056	<1	1.75	0.008	0.05	0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
105799	Soil	12	18	1.39	189	0.152	<1	2.25	0.007	0.28	<0.1	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2
105800	Soil	4	40	1.06	130	0.103	<1	4.42	0.012	0.13	<0.1	<0.01	4.0	<0.1	<0.05	8	<0.5	<0.2
105801	Soil	10	22	0.60	231	0.099	1	1.43	0.010	0.20	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
105802	Soil	15	26	0.70	293	0.113	<1	1.59	0.013	0.18	<0.1	0.02	4.6	0.1	<0.05	5	0.5	<0.2
105803	Soil	10	18	1.84	361	0.188	<1	4.96	0.013	0.53	<0.1	0.01	8.2	0.1	<0.05	12	<0.5	<0.2
105804	Soil	16	61	1.57	354	0.216	<1	2.28	0.010	0.26	<0.1	<0.01	7.7	<0.1	<0.05	10	<0.5	<0.2
105805	Soil	8	46	2.13	477	0.272	<1	2.76	0.015	0.85	<0.1	<0.01	7.1	0.2	<0.05	9	<0.5	<0.2
105806	Soil	2	23	2.00	454	0.229	<1	2.76	0.009	0.77	<0.1	<0.01	2.3	0.1	<0.05	7	<0.5	<0.2
105807	Soil	3	21	1.61	448	0.205	<1	2.47	0.011	0.76	0.1	<0.01	3.9	0.2	<0.05	8	<0.5	<0.2
105808	Soil	13	37	0.61	394	0.076	2	1.60	0.012	0.14	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
105809	Soil	6	25	1.01	136	0.066	<1	3.11	0.007	0.15	<0.1	<0.01	1.6	<0.1	<0.05	9	<0.5	<0.2
105810	Soil	5	39	2.57	220	0.182	<1	3.73	0.011	0.24	<0.1	<0.01	4.8	<0.1	<0.05	9	<0.5	<0.2
105811	Soil	17	19	1.00	176	0.154	<1	1.99	0.007	0.41	<0.1	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
105812	Soil	18	18	0.50	158	0.083	<1	1.22	0.009	0.13	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
105813	Soil	20	22	0.58	247	0.092	<1	1.25	0.011	0.15	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
105814	Soil	8	24	2.53	667	0.317	<1	3.09	0.012	1.08	<0.1	<0.01	7.4	0.2	<0.05	12	<0.5	<0.2
105815	Soil	11	25	0.69	255	0.108	1	1.68	0.011	0.15	0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
105816	Soil	10	11	2.14	557	0.276	<1	2.79	0.009	0.76	<0.1	<0.01	7.1	0.2	<0.05	14	<0.5	<0.2
105817	Soil	32	12	2.96	495	0.215	<1	3.07	0.010	0.44	<0.1	<0.01	12.6	0.1	<0.05	13	<0.5	<0.2
105818	Soil	10	28	0.79	267	0.104	1	1.62	0.013	0.11	<0.1	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
105819	Soil	9	37	0.55	258	0.077	<1	1.65	0.008	0.12	0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
105820	Soil	14	31	0.48	196	0.059	<1	1.41	0.010	0.18	0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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
105821	Soil	0.9	12.1	7.5	42	0.1	15.3	8.2	613	2.07	3.5	0.4	1.6	3.1	24	<0.1	0.3	0.1	51	0.32	0.034
105822	Soil	1.2	21.9	7.8	38	<0.1	19.2	6.1	260	1.95	5.1	0.8	30.1	6.4	39	<0.1	0.4	0.1	37	0.41	0.033
105823	Soil	1.2	46.5	2.6	104	<0.1	9.6	7.2	524	3.27	1.9	0.9	<0.5	4.0	39	<0.1	0.2	<0.1	70	0.38	0.077
105824	Soil	0.5	24.5	3.9	115	<0.1	8.0	8.0	697	2.96	0.8	0.4	0.7	2.0	57	<0.1	<0.1	<0.1	64	0.36	0.073
105825	Soil	0.3	11.6	5.0	118	<0.1	14.9	14.4	586	3.61	2.1	0.8	<0.5	6.2	47	<0.1	0.2	<0.1	82	0.59	0.111
105826	Soil	0.2	13.3	6.0	109	<0.1	14.3	10.9	827	3.78	2.0	0.8	0.8	2.5	46	<0.1	0.2	<0.1	75	0.65	0.115
105827	Soil	0.4	36.1	5.6	60	<0.1	25.0	14.0	479	2.93	5.9	0.8	2.3	3.8	28	<0.1	0.4	<0.1	76	0.51	0.104
105828	Soil	0.2	25.9	2.3	30	<0.1	14.7	6.7	743	3.39	1.9	0.7	6.9	5.0	15	<0.1	0.2	<0.1	72	0.35	0.087
105829	Soil	0.1	38.9	2.9	89	<0.1	12.5	20.4	437	3.83	1.3	0.9	1.4	4.0	37	<0.1	0.1	<0.1	129	0.77	0.140
105830	Soil	0.4	20.0	5.4	71	<0.1	14.3	15.2	496	3.27	2.9	0.3	<0.5	1.3	67	<0.1	0.2	<0.1	84	0.56	0.081
105831	Soil	0.1	25.5	1.9	51	<0.1	10.8	8.0	872	3.67	0.9	0.6	1.6	2.9	13	<0.1	<0.1	<0.1	66	0.47	0.110
105832	Soil	0.7	10.2	7.6	60	0.1	13.7	8.6	644	2.07	3.9	0.4	<0.5	2.2	27	0.1	0.3	0.1	53	0.29	0.068
105833	Soil	0.8	14.4	9.0	78	<0.1	21.0	9.8	396	2.74	7.0	0.5	0.5	3.8	28	<0.1	0.5	0.1	61	0.36	0.073
105834	Soil	0.4	24.0	6.8	110	<0.1	21.5	12.9	468	3.23	4.9	0.5	1.2	2.6	49	<0.1	0.3	<0.1	72	0.60	0.115
105835	Soil	0.6	21.1	8.5	84	<0.1	22.1	10.6	435	2.85	8.1	0.7	3.6	3.4	37	<0.1	0.4	0.2	66	0.42	0.077
105836	Soil	0.2	38.7	2.6	91	0.1	13.7	17.9	632	3.33	1.6	0.6	2.6	4.4	40	<0.1	0.2	<0.1	88	1.18	0.120
106077	Soil	0.6	29.1	8.9	50	0.1	23.1	9.1	433	2.35	8.5	0.5	2.9	2.1	40	0.2	0.5	0.1	52	1.85	0.054
106078	Soil	0.7	27.0	8.3	42	0.1	23.8	9.7	448	2.41	9.5	0.7	3.6	2.3	43	0.2	0.7	0.1	54	1.94	0.064
106079	Soil	0.3	28.8	8.3	47	0.1	23.2	8.8	376	2.32	10.1	0.5	2.9	1.9	32	0.1	0.7	0.1	47	1.02	0.068
106080	Soil	0.4	22.5	8.0	48	<0.1	23.7	9.1	456	2.16	8.3	0.4	2.7	2.4	38	0.1	0.5	0.1	45	3.04	0.043
106081	Soil	0.5	25.9	8.6	47	<0.1	24.3	8.8	394	2.33	8.9	0.4	3.4	2.5	31	<0.1	0.4	0.2	49	1.54	0.041
106082	Soil	0.5	30.4	8.4	48	0.1	25.9	9.2	413	2.38	9.9	0.4	1.6	3.0	34	<0.1	0.5	0.2	50	1.42	0.044
106083	Soil	0.6	30.3	9.0	53	0.1	25.4	9.1	400	2.39	9.8	0.4	3.2	2.7	35	0.1	0.5	0.2	51	1.69	0.045
106084	Soil	0.5	27.1	8.0	45	0.1	23.3	8.6	440	2.39	9.3	0.7	4.5	2.3	41	0.1	0.5	0.2	52	1.90	0.039
106085	Soil	0.6	28.7	8.7	46	0.1	22.9	8.9	425	2.43	9.8	0.6	3.6	1.7	37	0.1	0.4	0.1	51	1.25	0.046
106086	Soil	0.5	22.0	9.5	43	<0.1	23.9	8.3	362	2.16	11.6	0.6	4.4	3.3	37	0.1	0.6	0.1	45	2.86	0.053
106087	Soil	0.5	14.6	8.4	45	<0.1	22.1	8.5	356	2.51	11.2	0.6	6.8	4.0	31	<0.1	0.5	0.1	50	1.23	0.017
106088	Soil	0.3	17.9	8.7	50	<0.1	21.2	9.2	380	2.58	9.5	0.6	2.3	3.4	28	<0.1	0.4	0.1	52	0.61	0.028
106089	Soil	0.3	4.6	8.2	63	<0.1	8.1	9.2	714	2.03	3.3	0.4	0.7	6.6	23	<0.1	0.3	0.1	24	0.50	0.055
106090	Soil	0.2	3.1	8.1	64	<0.1	6.7	9.7	722	1.98	2.8	0.4	1.3	6.3	23	<0.1	0.2	0.1	22	0.53	0.060

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Page: 11 of 12 Part 2

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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	
105821	Soil	9	27	0.35	360	0.050	<1	1.42	0.009	0.11	0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
105822	Soil	17	27	0.47	198	0.044	<1	1.70	0.006	0.12	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
105823	Soil	16	13	1.32	288	0.274	<1	2.37	0.012	0.67	<0.1	<0.01	2.2	0.3	<0.05	7	<0.5	<0.2
105824	Soil	5	13	1.08	323	0.245	<1	2.29	0.008	0.85	<0.1	<0.01	1.0	0.3	<0.05	7	<0.5	<0.2
105825	Soil	23	36	1.61	370	0.258	<1	2.76	0.010	1.02	<0.1	0.01	2.2	0.3	<0.05	9	<0.5	<0.2
105826	Soil	22	37	1.41	378	0.282	<1	2.66	0.010	1.01	<0.1	0.02	4.1	0.3	<0.05	12	<0.5	<0.2
105827	Soil	16	22	1.34	322	0.140	<1	1.67	0.022	0.19	0.1	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
105828	Soil	11	14	0.93	194	0.232	<1	1.69	0.007	0.83	0.1	0.02	7.7	0.2	<0.05	7	<0.5	<0.2
105829	Soil	22	17	2.52	360	0.249	<1	2.72	0.012	0.41	<0.1	0.02	4.0	<0.1	<0.05	9	<0.5	<0.2
105830	Soil	4	19	1.80	427	0.219	<1	2.61	0.009	0.64	<0.1	<0.01	2.2	0.2	<0.05	7	<0.5	<0.2
105831	Soil	11	9	1.07	215	0.240	<1	1.83	0.007	0.95	0.1	<0.01	2.0	0.2	<0.05	7	<0.5	<0.2
105832	Soil	9	24	0.51	298	0.079	<1	1.41	0.012	0.10	0.2	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
105833	Soil	10	37	0.75	293	0.108	16	1.78	0.009	0.36	0.2	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2
105834	Soil	10	40	1.47	197	0.195	1	2.27	0.008	0.69	0.1	<0.01	2.7	0.3	<0.05	9	<0.5	<0.2
105835	Soil	11	36	0.92	261	0.138	1	1.93	0.009	0.50	0.1	0.02	3.3	0.3	<0.05	8	<0.5	<0.2
105836	Soil	19	13	2.03	494	0.254	<1	2.44	0.009	0.87	<0.1	0.03	3.8	0.2	<0.05	9	<0.5	<0.2
106077	Soil	12	26	0.78	273	0.058	2	1.33	0.021	0.05	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
106078	Soil	13	28	1.01	301	0.059	2	1.31	0.020	0.05	0.2	0.04	3.0	<0.1	<0.05	4	0.6	<0.2
106079	Soil	12	25	0.58	338	0.050	2	1.30	0.022	0.04	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
106080	Soil	11	24	1.00	189	0.060	<1	1.38	0.018	0.05	0.1	0.06	3.4	<0.1	<0.05	4	<0.5	<0.2
106081	Soil	12	27	0.76	260	0.057	1	1.44	0.018	0.04	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
106082	Soil	12	26	0.63	251	0.061	2	1.41	0.021	0.05	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
106083	Soil	13	26	0.70	230	0.061	1	1.53	0.021	0.05	0.2	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
106084	Soil	12	26	0.57	241	0.059	2	1.42	0.021	0.04	0.2	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
106085	Soil	13	26	0.53	263	0.046	<1	1.43	0.020	0.04	0.2	0.06	3.2	<0.1	<0.05	4	<0.5	<0.2
106086	Soil	16	24	0.47	136	0.044	<1	1.22	0.013	0.05	0.2	0.08	4.7	<0.1	<0.05	4	<0.5	<0.2
106087	Soil	15	28	0.51	186	0.067	<1	1.41	0.016	0.05	0.2	0.04	5.1	<0.1	<0.05	4	<0.5	<0.2
106088	Soil	14	27	0.61	251	0.071	1	1.62	0.019	0.06	0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
106089	Soil	38	9	0.86	133	0.059	<1	1.50	0.007	0.32	<0.1	0.02	3.9	0.2	<0.05	5	<0.5	<0.2
106090	Soil	39	7	0.93	121	0.058	<1	1.50	0.007	0.37	<0.1	0.02	4.0	0.2	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	0.1	2	0.01	0.001
106091	Soil	0.6	13.1	6.1	92	<0.1	16.4	12.4	772	3.00	4.6	0.3	2.3	3.5	24	<0.1	0.3	<0.1	67	0.58	0.074
106092	Soil	0.6	3.6	9.8	54	<0.1	8.6	4.6	511	1.62	1.7	0.3	0.5	5.7	13	<0.1	0.2	<0.1	27	0.39	0.056
106093	Soil	0.5	2.2	5.4	88	<0.1	7.9	14.7	736	2.45	3.9	0.4	<0.5	2.3	36	<0.1	0.3	<0.1	45	0.83	0.120
106094	Soil	0.9	12.0	7.7	55	<0.1	10.6	3.2	457	1.07	4.8	0.7	1.8	5.6	12	<0.1	0.3	0.2	20	0.23	0.057
106095	Soil	0.5	8.3	3.8	48	<0.1	11.9	7.9	648	1.60	7.4	0.3	1.5	6.1	10	<0.1	0.2	<0.1	24	0.40	0.056
106096	Soil	0.2	17.3	7.0	62	<0.1	10.0	8.7	688	2.06	1.3	0.2	1.2	1.2	100	0.2	<0.1	<0.1	50	9.04	0.063
106097	Soil	0.6	24.8	12.6	81	<0.1	12.3	7.7	951	2.76	0.8	0.3	1.6	1.5	25	0.4	0.1	<0.1	44	1.01	0.165
106098	Soil	0.6	8.4	5.2	61	<0.1	10.4	13.3	718	2.75	4.5	0.3	0.7	3.5	19	<0.1	0.2	<0.1	55	0.31	0.051
109713	Soil	0.9	29.3	7.8	62	0.1	25.7	8.9	338	2.24	8.1	0.9	3.1	3.1	35	0.3	0.7	0.2	46	0.60	0.064
109714	Soil	1.0	28.6	8.1	53	0.1	23.9	8.4	295	2.33	8.1	0.8	2.8	3.1	35	<0.1	0.6	0.1	48	0.58	0.066
109715	Soil	0.6	22.6	5.4	61	<0.1	15.9	8.1	285	2.54	4.3	0.7	1.8	4.3	49	0.1	0.2	0.1	52	0.60	0.097
109716	Soil	0.6	31.4	4.8	54	<0.1	8.5	14.3	1081	4.31	1.9	0.4	1.3	1.9	83	<0.1	0.2	<0.1	80	1.09	0.106
109717	Soil	0.8	27.1	7.5	56	<0.1	19.5	9.9	431	2.87	5.8	0.8	2.9	3.0	66	<0.1	0.4	0.1	63	0.62	0.064
109718	Soil	1.1	14.5	8.5	43	<0.1	16.0	7.0	218	2.16	6.5	0.7	1.5	3.3	27	<0.1	0.3	0.1	48	0.39	0.049
109719	Soil	0.7	8.4	4.6	47	<0.1	8.5	5.3	290	1.79	2.7	0.5	0.7	4.5	16	<0.1	0.2	0.1	31	0.25	0.029
109720	Soil	1.3	12.7	11.0	40	<0.1	12.7	5.1	162	1.65	3.8	3.8	2.1	20.3	15	<0.1	0.4	0.1	31	0.20	0.037



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Project: Rosebute  
 Report Date: August 16, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000770.1

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	
106091	Soil	17	28	1.31	286	0.141	<1	1.84	0.008	0.49	<0.1	0.02	10.7	0.2	<0.05	8	<0.5	<0.2
106092	Soil	26	11	0.38	106	0.049	<1	0.88	0.004	0.17	<0.1	<0.01	6.5	<0.1	<0.05	4	<0.5	<0.2
106093	Soil	12	19	1.64	261	0.103	<1	2.00	0.008	0.66	<0.1	0.01	5.8	0.2	<0.05	7	<0.5	<0.2
106094	Soil	29	14	0.19	82	0.020	<1	0.71	0.007	0.06	<0.1	0.02	3.2	<0.1	<0.05	2	<0.5	<0.2
106095	Soil	22	15	0.89	91	0.064	<1	1.19	0.006	0.06	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
106096	Soil	4	35	1.96	209	0.136	<1	1.90	0.009	0.36	<0.1	0.02	2.0	0.1	<0.05	7	<0.5	<0.2
106097	Soil	6	19	1.73	274	0.104	<1	2.36	0.008	0.61	<0.1	0.05	2.3	0.2	<0.05	7	<0.5	<0.2
106098	Soil	9	20	1.51	129	0.162	<1	2.09	0.006	0.54	0.1	0.06	3.3	0.2	<0.05	6	<0.5	<0.2
109713	Soil	13	27	0.46	344	0.069	1	1.27	0.021	0.07	0.1	0.05	3.3	<0.1	<0.05	4	0.9	<0.2
109714	Soil	13	28	0.47	308	0.066	<1	1.37	0.020	0.06	0.2	0.05	3.4	<0.1	<0.05	4	0.8	<0.2
109715	Soil	16	23	0.91	197	0.093	<1	1.84	0.021	0.14	0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
109716	Soil	6	10	1.61	315	0.200	<1	3.24	0.032	0.74	<0.1	<0.01	7.7	<0.1	<0.05	12	<0.5	<0.2
109717	Soil	11	31	0.81	242	0.120	<1	2.11	0.026	0.22	<0.1	0.03	5.8	<0.1	<0.05	7	<0.5	<0.2
109718	Soil	11	27	0.43	201	0.069	<1	1.47	0.013	0.05	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
109719	Soil	6	14	0.42	108	0.093	<1	1.20	0.012	0.23	0.2	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
109720	Soil	33	24	0.22	136	0.028	<1	0.97	0.007	0.05	0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2



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Project: Rosebute  
 Report Date: August 16, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000770.1

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																					
113395	Soil	1.0	17.0	9.2	51	<0.1	21.5	11.2	214	2.82	7.8	0.7	0.9	3.9	24	<0.1	0.6	0.2	59	0.37	0.039
REP 113395	QC	1.0	16.6	8.6	51	<0.1	20.6	10.5	211	2.78	7.6	0.7	1.6	3.9	24	<0.1	0.6	0.2	58	0.37	0.038
113413	Soil	1.2	13.2	9.7	69	<0.1	12.4	6.6	273	2.52	3.9	0.4	5.4	2.1	14	0.1	1.0	0.1	50	0.14	0.030
REP 113413	QC	1.3	13.0	10.0	69	<0.1	11.0	6.7	278	2.52	3.9	0.4	0.9	2.3	14	<0.1	0.9	<0.1	49	0.15	0.028
113427	Soil	0.4	24.3	11.2	56	0.1	18.6	8.5	308	2.32	8.0	0.4	2.0	2.3	37	0.2	0.6	0.1	52	1.10	0.043
REP 113427	QC	0.5	24.3	11.2	54	0.1	18.4	8.7	303	2.31	7.7	0.4	7.3	2.4	37	0.2	0.6	0.1	52	1.09	0.043
109797	Soil	0.9	24.8	12.7	117	<0.1	11.5	8.3	498	3.30	5.4	1.0	3.9	19.9	9	<0.1	0.9	0.1	46	0.22	0.032
REP 109797	QC	0.9	24.5	12.5	117	<0.1	11.1	7.8	487	3.29	5.4	1.0	6.5	19.9	9	<0.1	0.9	0.1	47	0.17	0.032
109810	Soil	0.9	15.2	8.0	53	<0.1	16.4	7.8	186	2.33	5.4	0.5	3.4	2.7	28	<0.1	0.5	0.1	59	0.30	0.033
REP 109810	QC	0.9	15.6	8.2	54	<0.1	16.6	7.9	195	2.44	5.7	0.5	8.1	2.9	28	<0.1	0.5	0.1	62	0.31	0.035
101478	Soil	0.8	15.4	7.9	54	<0.1	18.5	7.9	346	2.32	5.5	0.6	3.4	4.9	13	<0.1	0.3	0.1	56	0.13	0.016
REP 101478	QC	0.8	16.0	8.0	54	<0.1	18.3	8.0	351	2.35	5.9	0.6	1.1	5.0	13	<0.1	0.4	0.1	56	0.13	0.016
101495	Soil	1.1	21.1	11.8	42	0.1	8.6	3.8	137	1.49	4.7	0.4	17.6	3.9	13	<0.1	1.3	<0.1	28	0.13	0.016
REP 101495	QC	1.3	21.6	11.9	46	<0.1	9.2	4.1	144	1.55	4.6	0.5	21.7	3.5	13	<0.1	1.2	0.1	28	0.14	0.016
101509	Soil	1.0	25.7	14.6	43	1.2	16.4	6.9	301	2.00	5.3	1.6	5.1	4.0	41	0.1	1.5	0.3	37	0.66	0.034
REP 101509	QC	1.2	24.9	14.9	42	1.2	17.2	7.0	307	2.05	5.5	1.5	7.4	3.9	41	0.1	1.6	0.3	38	0.67	0.035
107807	Soil	1.6	28.5	9.8	50	<0.1	22.8	8.7	270	2.72	9.7	1.0	2.6	6.7	25	<0.1	0.6	0.2	58	0.35	0.036
REP 107807	QC	1.9	29.3	9.8	49	<0.1	23.6	8.4	273	2.68	9.3	1.0	3.8	6.8	25	<0.1	0.7	0.2	57	0.34	0.033
107824	Soil	0.9	23.3	7.0	73	<0.1	37.2	15.0	482	3.30	4.6	0.5	1.9	8.1	35	<0.1	0.3	0.1	58	0.52	0.049
REP 107824	QC	0.8	24.5	7.9	76	<0.1	39.6	15.7	509	3.35	5.0	0.5	4.6	8.0	36	<0.1	0.3	<0.1	60	0.63	0.050
111710	Soil	0.7	15.1	7.8	136	<0.1	19.5	16.0	767	5.30	7.1	0.6	<0.5	6.6	10	<0.1	0.3	0.1	91	0.16	0.040
REP 111710	QC	0.7	15.2	8.0	132	<0.1	20.3	16.1	773	5.35	7.1	0.6	<0.5	6.9	10	<0.1	0.3	0.1	93	0.14	0.041
110482	Soil	0.7	25.1	8.3	80	0.1	19.7	9.6	315	2.77	13.5	0.7	3.6	3.6	58	0.1	0.9	0.1	62	0.73	0.085
REP 110482	QC	0.8	24.0	8.4	78	0.1	18.2	9.4	313	2.72	13.6	0.7	5.8	3.6	58	0.1	0.7	0.1	63	0.74	0.080
110485	Soil	1.9	21.7	13.1	92	<0.1	24.2	11.3	363	3.35	8.6	0.6	2.7	3.7	66	0.1	0.7	0.1	88	0.72	0.067
REP 110485	QC	2.0	22.3	12.9	95	0.1	24.6	11.3	373	3.41	9.4	0.6	2.9	4.0	69	0.1	0.8	0.1	88	0.74	0.071
110508	Soil	0.7	28.0	11.3	62	0.1	37.4	11.6	418	2.81	11.5	0.6	4.2	3.9	51	0.2	0.5	0.2	69	3.99	0.033
REP 110508	QC	0.7	26.8	10.6	60	0.1	37.7	11.5	410	2.80	10.5	0.6	3.0	3.8	50	0.2	0.5	0.2	66	4.06	0.033

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Project: Rosebute  
 Report Date: August 16, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000770.1

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																		
113395	Soil	10	35	0.54	320	0.057	1	1.94	0.015	0.05	0.2	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
REP 113395	QC	10	35	0.49	317	0.057	1	1.84	0.016	0.05	0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
113413	Soil	7	19	0.30	123	0.049	<1	1.17	0.008	0.08	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
REP 113413	QC	7	18	0.29	122	0.048	<1	1.14	0.008	0.07	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
113427	Soil	11	26	0.50	241	0.054	2	1.42	0.018	0.04	0.2	0.04	3.3	<0.1	0.06	4	<0.5	<0.2
REP 113427	QC	12	25	0.51	253	0.054	2	1.44	0.019	0.04	0.2	0.04	3.3	<0.1	0.07	5	<0.5	<0.2
109797	Soil	27	15	0.13	109	0.006	<1	0.62	0.004	0.08	0.1	0.16	7.5	<0.1	<0.05	3	<0.5	<0.2
REP 109797	QC	27	16	0.14	108	0.009	3	0.67	0.010	0.09	0.2	0.17	7.3	<0.1	<0.05	3	<0.5	<0.2
109810	Soil	9	29	0.51	200	0.069	1	1.66	0.011	0.04	0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
REP 109810	QC	10	30	0.52	198	0.076	<1	1.68	0.012	0.04	0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
101478	Soil	12	33	0.51	186	0.077	<1	1.63	0.009	0.07	0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
REP 101478	QC	13	34	0.52	199	0.082	<1	1.64	0.009	0.07	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
101495	Soil	8	15	0.27	337	0.013	<1	1.29	0.006	0.10	0.5	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 101495	QC	8	16	0.27	343	0.014	<1	1.38	0.006	0.11	0.6	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
101509	Soil	19	23	0.35	535	0.044	1	1.32	0.014	0.07	0.2	0.21	3.0	<0.1	<0.05	4	0.5	<0.2
REP 101509	QC	18	24	0.34	525	0.045	1	1.29	0.014	0.08	0.2	0.23	3.0	<0.1	<0.05	4	<0.5	<0.2
107807	Soil	27	38	0.51	226	0.065	1	1.59	0.014	0.05	0.2	0.04	5.8	<0.1	<0.05	4	<0.5	<0.2
REP 107807	QC	28	38	0.52	227	0.066	2	1.58	0.014	0.05	0.1	0.03	5.9	<0.1	<0.05	5	<0.5	<0.2
107824	Soil	19	104	1.18	254	0.186	<1	2.00	0.012	0.39	0.1	0.01	3.2	0.2	<0.05	6	<0.5	<0.2
REP 107824	QC	20	105	1.20	264	0.206	<1	2.05	0.014	0.41	0.2	0.04	3.3	0.2	<0.05	6	<0.5	<0.2
111710	Soil	11	52	2.44	246	0.215	<1	3.88	0.009	0.55	0.1	<0.01	8.0	0.3	<0.05	14	<0.5	<0.2
REP 111710	QC	11	53	2.51	248	0.222	1	3.94	0.008	0.57	0.1	<0.01	8.2	0.3	<0.05	14	<0.5	<0.2
110482	Soil	13	28	0.68	211	0.098	1	1.69	0.025	0.05	0.2	0.05	4.0	<0.1	<0.05	6	0.5	<0.2
REP 110482	QC	13	28	0.68	208	0.099	1	1.72	0.025	0.05	0.2	0.07	4.2	<0.1	<0.05	6	0.8	<0.2
110485	Soil	12	45	0.85	297	0.115	2	2.15	0.019	0.06	0.2	0.03	4.8	<0.1	0.06	8	<0.5	<0.2
REP 110485	QC	13	47	0.87	304	0.119	3	2.19	0.019	0.06	0.3	0.03	4.7	<0.1	0.07	9	<0.5	<0.2
110508	Soil	16	41	1.65	201	0.077	2	1.95	0.022	0.05	0.1	0.09	5.3	<0.1	<0.05	5	<0.5	<0.2
REP 110508	QC	15	39	1.62	195	0.075	2	1.91	0.019	0.05	0.1	0.10	5.3	<0.1	<0.05	5	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: Rosebute  
 Report Date: August 16, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000770.1

		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
105820	Soil	1.5	19.2	8.3	42	<0.1	18.4	8.7	309	2.30	6.4	0.7	0.8	4.9	19	<0.1	0.3	0.1	50	0.27	0.055
REP 105820	QC	1.5	19.7	8.7	44	<0.1	17.8	8.8	316	2.32	6.9	0.7	1.7	4.8	18	<0.1	0.4	0.1	50	0.29	0.061
105824	Soil	0.5	24.5	3.9	115	<0.1	8.0	8.0	697	2.96	0.8	0.4	0.7	2.0	57	<0.1	<0.1	<0.1	64	0.36	0.073
REP 105824	QC	0.4	22.8	3.7	113	<0.1	7.7	7.6	650	2.79	0.7	0.3	<0.5	2.0	57	<0.1	0.1	<0.1	61	0.36	0.074
106082	Soil	0.5	30.4	8.4	48	0.1	25.9	9.2	413	2.38	9.9	0.4	1.6	3.0	34	<0.1	0.5	0.2	50	1.42	0.044
REP 106082	QC	0.6	30.2	8.5	50	<0.1	25.9	9.5	413	2.41	10.4	0.4	3.8	2.9	34	0.1	0.5	0.2	50	1.42	0.043
Reference Materials																					
STD DS8	Standard	11.4	101.2	122.1	308	1.8	37.4	7.0	577	2.34	25.3	2.6	113.8	6.0	61	2.2	5.4	6.5	39	0.66	0.080
STD DS8	Standard	13.3	107.1	105.4	305	1.7	36.9	7.5	612	2.45	25.4	2.4	99.4	6.1	63	2.5	5.1	5.7	42	0.69	0.079
STD DS8	Standard	11.8	105.3	119.8	306	1.8	36.5	7.2	593	2.40	27.0	2.5	115.4	6.2	63	2.5	5.9	6.8	39	0.69	0.078
STD DS8	Standard	12.1	106.6	117.0	309	1.7	37.3	7.3	601	2.44	27.3	2.6	118.1	6.4	67	2.4	5.8	6.8	41	0.69	0.077
STD DS8	Standard	14.9	120.2	133.8	333	1.9	43.5	8.6	673	2.73	27.9	3.1	118.6	7.7	72	2.3	5.9	7.6	48	0.72	0.087
STD DS8	Standard	12.1	96.6	113.7	283	1.7	33.1	6.9	552	2.27	23.1	2.6	101.1	6.2	61	2.2	5.1	5.5	37	0.60	0.070
STD DS8	Standard	12.8	112.0	126.6	308	1.8	37.5	8.2	614	2.48	26.3	2.8	105.4	7.2	67	2.5	5.9	6.7	43	0.70	0.076
STD DS8	Standard	13.4	103.1	128.5	285	1.7	36.1	7.1	599	2.39	23.9	2.9	110.9	7.1	64	2.3	5.4	6.4	42	0.69	0.077
STD DS8	Standard	12.4	112.4	122.6	322	1.8	38.3	7.6	616	2.44	26.2	2.8	101.7	6.8	64	2.4	5.3	6.6	46	0.70	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
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<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:** Rosebute  
**Report Date:** August 16, 2011

**Page:** 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11000770.1

		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
105820	Soil	14	31	0.48	196	0.059	<1	1.41	0.010	0.18	0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
REP 105820	QC	14	32	0.50	197	0.060	1	1.41	0.008	0.18	0.2	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
105824	Soil	5	13	1.08	323	0.245	<1	2.29	0.008	0.85	<0.1	<0.01	1.0	0.3	<0.05	7	<0.5	<0.2
REP 105824	QC	5	12	1.03	297	0.242	1	2.13	0.008	0.81	<0.1	<0.01	0.9	0.3	<0.05	7	<0.5	<0.2
106082	Soil	12	26	0.63	251	0.061	2	1.41	0.021	0.05	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 106082	QC	12	27	0.65	248	0.058	1	1.42	0.022	0.05	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	13	111	0.59	251	0.101	2	0.86	0.082	0.40	2.9	0.20	1.9	5.4	0.13	5	5.8	4.9
STD DS8	Standard	14	120	0.60	275	0.113	1	0.88	0.091	0.41	3.0	0.23	2.2	5.4	0.19	5	5.1	5.2
STD DS8	Standard	12	110	0.59	271	0.104	3	0.84	0.085	0.41	3.0	0.21	2.1	5.4	0.13	4	4.5	5.3
STD DS8	Standard	14	115	0.60	274	0.110	3	0.89	0.086	0.41	3.0	0.20	2.3	5.5	0.15	4	4.4	5.0
STD DS8	Standard	16	133	0.63	291	0.129	3	0.97	0.096	0.43	3.2	0.21	2.4	5.8	0.19	5	6.1	4.9
STD DS8	Standard	14	103	0.51	253	0.106	2	0.84	0.075	0.35	2.9	0.16	1.8	5.0	0.15	5	4.7	4.3
STD DS8	Standard	15	116	0.61	285	0.123	3	0.92	0.092	0.41	3.1	0.20	2.2	5.4	0.18	5	5.3	5.2
STD DS8	Standard	15	112	0.60	283	0.111	2	0.91	0.088	0.42	3.1	0.20	1.9	5.4	0.16	4	4.6	5.0
STD DS8	Standard	14	120	0.61	287	0.112	3	0.89	0.090	0.43	3.0	0.19	1.9	5.4	0.18	5	5.1	5.3
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Lauren Wilson
Receiving Lab: Canada-Whitehorse
Received: July 28, 2011
Report Date: August 18, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000769.1

CLIENT JOB INFORMATION

Project: Rosebute
Shipment ID: 20110719101701
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: Mark Fekete

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: Rosebute  
 Report Date: August 18, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
106099	Soil	0.4	53.7	5.2	66	<0.1	58.4	14.3	558	2.82	3.5	0.4	1.8	3.1	34	<0.1	0.3	0.1	67	0.53	0.085
106100	Soil	0.4	11.9	4.3	67	<0.1	12.8	12.1	561	1.96	6.5	0.4	1.2	5.1	22	<0.1	0.4	0.1	39	0.28	0.039
106101	Soil	0.5	13.9	5.5	58	<0.1	13.7	10.9	418	2.28	3.5	0.6	1.1	2.8	27	<0.1	0.3	<0.1	57	0.35	0.036
106102	Soil	0.6	24.6	6.8	67	<0.1	25.5	11.2	389	2.62	6.4	0.4	1.3	3.5	32	0.1	0.5	0.1	66	0.51	0.064
106103	Soil	0.7	23.4	7.1	66	<0.1	21.7	11.2	418	2.60	5.5	0.8	1.6	3.2	35	<0.1	0.3	<0.1	68	0.58	0.069
106104	Soil	0.5	24.8	6.4	55	0.1	16.8	10.6	488	2.29	6.3	1.5	2.2	3.2	38	0.3	0.5	0.1	51	0.59	0.065
106105	Soil	0.6	24.0	6.8	55	<0.1	17.7	9.3	429	2.25	7.2	1.7	3.0	3.6	31	0.2	0.5	0.1	50	0.57	0.069
106106	Soil	0.6	25.0	7.2	54	<0.1	20.7	12.3	484	2.42	7.5	1.7	1.8	3.1	39	0.3	0.6	0.1	58	0.55	0.078
106107	Soil	0.8	18.3	7.2	50	<0.1	17.4	9.3	456	2.15	7.1	1.2	5.4	2.6	40	0.1	0.5	0.1	54	0.70	0.067
106108	Soil	0.8	16.6	7.3	56	0.1	16.5	10.1	473	2.32	6.7	0.8	1.9	3.0	38	0.1	0.4	0.1	59	0.61	0.062
106109	Soil	0.6	19.2	7.1	63	<0.1	18.7	11.2	929	2.30	6.2	1.1	4.9	2.3	39	0.3	0.5	0.1	56	0.79	0.068
106110	Soil	0.6	21.9	14.1	124	<0.1	9.5	13.1	411	4.12	86.6	1.1	2.4	8.4	42	<0.1	5.9	<0.1	86	0.78	0.202
106111	Soil	1.4	34.4	5.9	134	<0.1	13.2	11.8	801	3.23	44.3	1.1	4.0	9.3	69	<0.1	2.1	<0.1	75	0.74	0.146
106112	Soil	1.4	42.4	5.1	138	<0.1	10.5	22.2	1107	5.68	16.2	0.8	5.7	3.4	68	0.1	1.2	<0.1	122	1.12	0.266
106113	Soil	0.6	18.1	12.6	155	<0.1	7.3	10.7	604	3.13	7.1	1.0	4.9	3.7	71	<0.1	0.7	<0.1	70	0.60	0.118
106114	Soil	0.7	34.7	13.9	159	<0.1	16.8	18.0	781	3.95	8.3	1.0	2.3	8.7	84	0.4	2.4	<0.1	79	0.87	0.143
106115	Soil	1.4	21.3	14.7	84	0.2	24.0	11.7	567	3.18	9.0	1.2	17.5	14.0	27	0.1	1.0	0.3	68	0.34	0.032
106116	Soil	1.5	29.1	11.1	53	0.1	31.5	10.6	498	2.79	10.1	0.9	8.1	5.0	39	<0.1	0.8	0.2	65	0.43	0.054
106117	Soil	1.4	43.8	11.3	99	<0.1	31.7	11.6	566	3.24	8.8	1.2	5.7	11.3	35	<0.1	3.0	0.3	61	0.46	0.055
106118	Soil	1.5	32.7	9.9	106	0.2	22.5	16.1	808	4.04	7.3	1.0	8.8	11.9	45	0.1	2.0	0.2	75	0.53	0.064
106119	Soil	2.2	21.8	10.0	51	0.1	26.3	8.4	311	2.56	8.6	0.7	13.0	6.2	28	<0.1	1.1	0.2	61	0.37	0.041
106120	Soil	1.4	17.9	12.4	94	0.1	20.9	11.8	706	3.16	7.1	0.8	1.1	6.5	33	0.2	0.8	0.2	61	0.35	0.080
106121	Soil	1.7	39.3	25.2	129	0.1	23.9	13.0	547	4.07	9.5	1.0	9.2	11.8	36	<0.1	1.3	0.3	67	0.36	0.035
106122	Soil	1.2	25.1	17.2	103	0.1	16.6	10.4	629	2.98	5.6	0.9	2.8	5.8	33	0.1	1.1	0.2	50	0.41	0.076
106123	Soil	1.2	28.7	15.1	101	<0.1	15.1	13.2	547	3.15	5.2	0.9	8.4	5.8	41	<0.1	1.1	<0.1	58	0.41	0.052
106124	Soil	0.9	32.7	15.4	115	<0.1	20.4	13.3	548	3.79	9.8	1.5	1.4	17.4	35	<0.1	1.1	0.2	63	0.42	0.067
106125	Soil	1.2	33.0	17.4	98	0.1	21.4	12.5	635	3.50	8.9	1.6	1.8	14.0	44	0.1	1.3	0.1	66	0.51	0.064
106126	Soil	1.5	40.9	11.5	64	0.1	29.5	9.8	375	2.96	12.3	1.2	5.7	9.5	35	<0.1	1.0	0.2	66	0.47	0.045
106127	Soil	1.9	41.0	20.4	55	0.4	24.6	9.6	365	2.66	10.7	1.2	11.5	10.9	27	<0.1	2.4	0.3	54	0.43	0.034
106128	Soil	1.7	17.0	16.3	90	<0.1	15.9	11.1	634	2.83	6.7	1.6	0.6	17.4	38	0.1	0.9	0.2	52	0.46	0.045

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
106099	Soil	12	74	1.41	308	0.197	2	2.15	0.014	0.47	<0.1	0.01	4.1	0.2	<0.05	8	<0.5	<0.2
106100	Soil	17	18	1.11	121	0.128	<1	1.63	0.008	0.29	<0.1	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2
106101	Soil	11	25	1.05	148	0.175	2	1.84	0.013	0.37	<0.1	<0.01	4.9	0.1	<0.05	6	<0.5	<0.2
106102	Soil	11	39	1.06	210	0.144	1	1.78	0.017	0.33	0.1	0.03	5.0	0.1	<0.05	6	<0.5	<0.2
106103	Soil	11	35	0.98	217	0.155	2	1.88	0.018	0.31	0.1	0.02	4.3	0.1	<0.05	6	<0.5	<0.2
106104	Soil	13	23	0.72	217	0.097	2	1.58	0.017	0.12	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
106105	Soil	13	25	0.68	175	0.092	1	1.40	0.016	0.10	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
106106	Soil	14	27	0.61	249	0.089	1	1.53	0.016	0.08	0.2	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
106107	Soil	11	25	0.51	260	0.071	1	1.25	0.017	0.04	0.3	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
106108	Soil	11	28	0.66	269	0.086	2	1.56	0.019	0.05	0.2	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
106109	Soil	11	25	0.66	278	0.080	1	1.51	0.016	0.06	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
106110	Soil	20	14	0.74	281	0.023	5	2.16	0.011	0.20	0.3	0.05	7.1	0.2	<0.05	9	<0.5	<0.2
106111	Soil	32	18	1.32	210	0.013	1	1.88	0.012	0.03	0.2	0.47	5.9	<0.1	<0.05	12	<0.5	<0.2
106112	Soil	16	13	1.49	391	0.086	1	2.32	0.017	0.05	0.3	0.19	8.6	<0.1	<0.05	14	<0.5	<0.2
106113	Soil	12	15	1.09	217	0.182	1	2.04	0.014	0.43	0.1	0.08	3.1	0.2	<0.05	11	<0.5	<0.2
106114	Soil	19	25	1.33	246	0.107	1	2.01	0.028	0.05	0.2	0.14	2.7	<0.1	<0.05	9	<0.5	<0.2
106115	Soil	22	41	0.60	268	0.070	1	1.81	0.013	0.15	0.2	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
106116	Soil	16	42	0.67	314	0.091	2	1.60	0.031	0.07	0.2	0.06	4.9	<0.1	<0.05	5	<0.5	<0.2
106117	Soil	30	42	0.87	262	0.084	2	1.98	0.014	0.29	0.2	0.19	5.6	0.2	<0.05	7	<0.5	<0.2
106118	Soil	21	41	1.18	322	0.088	2	2.58	0.009	0.36	1.5	0.11	5.4	0.2	<0.05	9	<0.5	<0.2
106119	Soil	14	41	0.57	218	0.080	2	1.51	0.012	0.09	0.3	0.09	3.1	<0.1	<0.05	5	<0.5	<0.2
106120	Soil	13	37	0.62	291	0.081	2	1.83	0.009	0.21	0.3	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
106121	Soil	18	41	0.66	244	0.077	2	2.24	0.010	0.10	0.4	0.08	5.0	<0.1	<0.05	8	<0.5	<0.2
106122	Soil	10	28	0.62	201	0.064	1	1.89	0.008	0.23	0.4	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
106123	Soil	24	23	0.79	152	0.089	<1	1.95	0.011	0.09	0.1	0.07	3.6	<0.1	<0.05	9	<0.5	<0.2
106124	Soil	25	35	0.81	226	0.050	1	2.22	0.010	0.25	0.2	0.03	5.0	<0.1	<0.05	9	<0.5	<0.2
106125	Soil	37	34	0.81	244	0.083	2	2.24	0.010	0.26	0.3	0.03	4.6	0.2	<0.05	8	<0.5	<0.2
106126	Soil	33	45	0.76	169	0.092	2	1.80	0.016	0.11	0.2	0.09	5.4	<0.1	<0.05	6	<0.5	<0.2
106127	Soil	29	34	0.50	246	0.064	2	1.35	0.013	0.10	0.2	0.30	4.4	<0.1	<0.05	4	<0.5	<0.2
106128	Soil	38	28	0.59	316	0.049	2	1.87	0.008	0.21	0.3	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
106129	Soil		2.4	27.2	22.7	85	0.1	24.2	10.1	591	2.62	7.7	1.8	2.0	16.3	31	<0.1	1.3	0.3	48	0.53	0.050
106130	Soil		1.9	53.3	30.4	90	1.5	18.1	9.7	777	2.64	6.2	3.1	19.2	29.9	64	0.3	6.2	0.8	36	3.27	0.063
106131	Soil		1.4	21.2	17.8	101	0.2	19.0	18.8	1399	4.35	4.1	2.0	9.6	11.8	94	0.1	2.1	0.2	78	4.34	0.085
106132	Soil		2.9	78.1	54.6	135	17.3	20.8	16.0	926	3.76	2.9	2.4	10.1	10.9	50	0.4	14.0	0.3	32	3.11	0.099
106133	Soil		6.0	32.2	27.8	147	0.2	26.0	16.9	1190	4.35	6.7	1.3	6.7	17.2	25	<0.1	1.4	0.5	76	0.40	0.080
106134	Soil		3.4	26.0	58.2	92	0.8	12.6	11.4	974	3.92	6.2	2.1	45.3	18.0	64	0.1	3.8	0.1	52	2.42	0.093
106135	Soil		1.2	27.8	8.0	70	0.3	8.6	9.3	615	3.22	3.2	0.9	26.1	8.9	19	<0.1	1.5	0.2	50	0.39	0.078
106136	Soil		1.7	35.3	24.5	70	0.4	15.6	9.2	802	2.79	6.5	1.3	17.5	10.9	17	0.1	4.5	0.3	31	0.31	0.049
106137	Soil		1.3	42.4	10.4	140	15.5	17.3	13.2	670	4.13	6.1	1.2	1343	6.8	82	0.2	1.0	0.2	87	3.14	0.105
106138	Soil		0.5	14.5	5.3	38	<0.1	11.3	5.9	166	1.52	3.2	0.4	4.7	5.1	17	<0.1	0.3	0.1	25	0.23	0.045
106139	Soil		1.0	43.2	5.3	69	0.1	19.7	12.5	385	2.97	5.8	2.1	30.2	5.8	34	<0.1	0.8	<0.1	71	0.55	0.072
106140	Soil		0.7	49.7	4.4	87	0.1	25.6	18.8	591	4.02	5.7	2.3	19.6	4.9	40	<0.1	0.7	<0.1	101	0.76	0.065
106141	Soil		1.1	31.7	7.5	80	0.2	40.8	17.1	453	3.34	5.2	1.5	4.6	2.1	70	<0.1	1.2	<0.1	83	0.86	0.064
106142	Soil		1.4	36.9	10.7	57	0.1	29.8	11.9	346	2.87	11.7	1.1	8.2	4.0	28	<0.1	0.9	0.1	72	0.46	0.065
116760	Soil		0.7	11.3	8.1	43	<0.1	14.1	9.1	312	2.25	6.1	0.4	1.4	2.3	22	<0.1	0.3	0.1	62	0.23	0.017
116761	Soil		0.7	18.9	7.8	63	<0.1	16.8	9.9	310	2.64	7.0	0.6	2.1	3.0	25	<0.1	0.4	<0.1	62	0.28	0.031
116762	Soil		0.6	22.6	5.6	66	<0.1	15.2	10.6	364	2.75	4.9	0.5	2.3	2.5	34	<0.1	0.3	<0.1	59	0.35	0.056
116763	Soil		0.7	23.8	8.4	46	<0.1	20.7	9.7	238	2.63	7.9	0.7	2.5	4.1	18	<0.1	0.5	0.1	60	0.17	0.017
116764	Soil		1.1	20.4	8.3	52	<0.1	19.3	9.5	272	2.78	7.4	0.7	4.4	3.7	24	<0.1	0.4	<0.1	67	0.25	0.032
116765	Soil		0.6	21.0	6.5	73	<0.1	13.4	8.1	308	2.79	8.0	0.2	1.5	1.6	19	<0.1	0.3	<0.1	65	0.18	0.062
116766	Soil		0.3	24.3	4.3	99	<0.1	17.3	14.5	534	3.12	3.9	0.3	4.1	1.8	44	<0.1	0.2	<0.1	68	0.42	0.090
116767	Soil		0.2	19.1	2.2	111	<0.1	11.8	25.8	870	4.48	1.0	0.3	3.8	2.7	32	<0.1	<0.1	<0.1	251	0.40	0.045
116768	Soil		0.7	29.1	7.7	58	<0.1	23.6	11.5	421	2.90	9.3	0.9	3.8	4.0	39	<0.1	0.4	<0.1	75	0.45	0.050
116769	Soil		0.3	53.4	3.0	89	<0.1	13.0	18.0	635	2.90	3.4	0.3	1.3	1.4	33	<0.1	0.1	<0.1	134	0.32	0.025
116770	Soil		0.1	11.5	2.0	84	<0.1	7.8	13.6	814	2.52	1.6	0.4	1.8	1.1	37	<0.1	0.1	<0.1	60	0.66	0.143
116771	Soil		0.2	12.4	4.3	56	<0.1	8.9	6.2	326	1.39	3.8	0.6	0.6	6.1	30	<0.1	0.2	<0.1	27	0.28	0.020
116772	Soil		0.4	25.8	7.6	40	0.1	21.1	8.4	216	2.30	7.1	1.6	1.8	3.1	30	<0.1	0.5	<0.1	49	0.41	0.063
116773	Soil		0.6	34.2	8.3	45	<0.1	20.8	8.6	258	2.35	7.8	0.8	1.7	3.7	26	<0.1	0.4	<0.1	52	0.39	0.060
116774	Soil		0.6	71.4	6.6	66	<0.1	13.5	6.2	914	1.88	2.9	0.6	1.9	5.2	19	<0.1	0.2	<0.1	34	0.39	0.061
116775	Soil		0.5	19.5	7.2	75	<0.1	16.2	14.1	636	3.45	6.0	0.3	1.5	1.9	33	<0.1	0.2	<0.1	85	0.31	0.026

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Page: 3 of 12 Part 2

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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	
106129	Soil	51	35	0.65	201	0.044	2	1.62	0.012	0.17	0.2	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
106130	Soil	86	20	0.71	404	0.030	4	1.40	0.017	0.12	0.3	0.25	2.9	<0.1	<0.05	6	<0.5	<0.2
106131	Soil	34	36	1.18	219	0.041	2	1.60	0.011	0.14	0.3	0.03	10.0	<0.1	<0.05	6	<0.5	<0.2
106132	Soil	50	15	0.58	332	0.003	2	0.92	0.005	0.10	0.3	1.01	3.3	<0.1	<0.05	3	0.7	<0.2
106133	Soil	45	50	1.77	167	0.013	1	2.43	0.006	0.08	0.2	0.07	6.2	<0.1	<0.05	10	<0.5	<0.2
106134	Soil	85	14	0.97	161	0.012	3	2.07	0.011	0.18	0.7	0.23	5.9	<0.1	<0.05	9	<0.5	<0.2
106135	Soil	33	11	0.89	131	0.105	2	1.50	0.006	0.39	0.7	0.08	4.3	0.2	<0.05	7	<0.5	<0.2
106136	Soil	53	11	0.28	150	0.006	2	1.14	0.007	0.12	0.7	0.20	4.5	<0.1	<0.05	4	<0.5	<0.2
106137	Soil	20	20	1.57	308	0.129	2	1.79	0.022	0.30	24.7	0.15	5.5	0.2	<0.05	10	<0.5	11.4
106138	Soil	7	13	0.31	110	0.053	<1	1.03	0.009	0.16	0.6	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
106139	Soil	12	27	0.94	223	0.127	<1	1.64	0.011	0.21	1.2	0.03	4.4	0.1	<0.05	6	<0.5	<0.2
106140	Soil	11	44	1.55	321	0.175	1	2.33	0.010	0.25	1.1	0.04	6.9	0.1	<0.05	8	<0.5	<0.2
106141	Soil	9	73	1.51	204	0.182	<1	2.08	0.016	0.44	0.3	0.03	6.6	0.2	<0.05	8	<0.5	<0.2
106142	Soil	13	38	0.63	228	0.090	1	1.50	0.018	0.09	0.3	0.08	5.4	<0.1	<0.05	5	<0.5	<0.2
116760	Soil	8	27	0.52	200	0.091	<1	1.52	0.009	0.08	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
116761	Soil	10	31	0.74	196	0.129	<1	1.81	0.010	0.20	<0.1	0.02	4.1	0.1	<0.05	6	<0.5	<0.2
116762	Soil	9	28	1.02	178	0.176	<1	2.07	0.009	0.33	<0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
116763	Soil	13	36	0.60	209	0.101	1	1.88	0.009	0.08	0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
116764	Soil	14	35	0.71	254	0.132	1	1.88	0.010	0.17	0.1	0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
116765	Soil	5	24	0.70	151	0.135	1	1.81	0.008	0.17	0.1	0.01	1.6	0.1	<0.05	8	<0.5	<0.2
116766	Soil	8	37	1.59	230	0.211	<1	2.44	0.008	0.73	<0.1	<0.01	1.3	0.3	<0.05	7	<0.5	<0.2
116767	Soil	11	25	3.58	604	0.300	<1	3.62	0.018	1.80	<0.1	<0.01	12.6	0.3	<0.05	12	<0.5	<0.2
116768	Soil	13	35	0.82	309	0.106	1	1.72	0.018	0.08	<0.1	0.04	6.4	<0.1	<0.05	5	<0.5	<0.2
116769	Soil	6	17	1.95	252	0.218	<1	2.57	0.009	0.77	<0.1	<0.01	5.3	0.2	<0.05	8	<0.5	<0.2
116770	Soil	4	9	1.64	303	0.219	<1	1.98	0.016	0.73	0.1	<0.01	2.9	0.2	<0.05	8	<0.5	<0.2
116771	Soil	18	12	0.55	127	0.083	1	1.23	0.008	0.09	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
116772	Soil	14	28	0.47	295	0.065	1	1.47	0.018	0.05	0.1	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
116773	Soil	14	30	0.53	254	0.077	1	1.52	0.017	0.06	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
116774	Soil	25	16	0.49	151	0.024	<1	1.30	0.005	0.07	<0.1	0.04	6.0	<0.1	<0.05	6	<0.5	<0.2
116775	Soil	9	30	1.46	152	0.193	<1	2.79	0.007	0.14	0.1	0.01	2.1	0.1	<0.05	9	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000769.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
116776	Soil		0.1	18.9	7.2	159	<0.1	14.0	12.7	460	3.39	2.5	0.8	1.0	6.8	77	<0.1	0.1	<0.1	70	0.84	0.162
116777	Soil		0.6	13.2	8.2	57	<0.1	14.7	7.2	180	2.51	6.5	0.5	0.8	2.8	56	<0.1	0.4	<0.1	60	0.33	0.026
116778	Soil		0.3	17.8	6.0	152	<0.1	14.6	13.6	462	3.34	5.4	0.6	0.8	4.6	46	<0.1	0.2	<0.1	79	0.45	0.102
116779	Soil		0.4	20.9	5.3	107	<0.1	18.3	10.8	376	2.88	5.6	0.5	2.3	4.3	45	<0.1	0.2	<0.1	70	0.47	0.098
116780	Soil		0.6	20.0	6.6	153	<0.1	19.2	13.9	501	3.83	7.1	0.4	0.8	4.4	41	<0.1	0.3	<0.1	91	0.32	0.084
116781	Soil		0.5	15.9	5.8	141	<0.1	15.8	12.1	383	3.44	5.2	0.5	1.6	3.4	39	<0.1	0.2	<0.1	81	0.37	0.092
116782	Soil		3.0	67.4	3.1	71	0.1	11.7	11.7	1003	4.18	2.1	0.6	1.1	1.3	39	<0.1	<0.1	<0.1	90	0.90	0.113
116783	Soil		0.9	13.2	6.0	69	<0.1	10.8	7.5	870	2.59	5.4	0.3	1.8	2.1	18	<0.1	0.2	<0.1	56	0.20	0.054
116784	Soil		0.4	19.1	3.6	69	<0.1	9.7	12.2	496	3.77	3.1	0.3	1.4	1.7	32	<0.1	<0.1	<0.1	106	0.43	0.047
116785	Soil		0.6	27.3	5.9	55	<0.1	17.9	9.7	371	2.73	5.6	0.6	4.2	3.8	36	<0.1	0.4	<0.1	71	0.47	0.055
116786	Soil		0.8	18.0	6.2	53	<0.1	17.4	8.3	303	2.42	6.2	0.4	0.9	3.5	28	<0.1	0.3	<0.1	57	0.32	0.048
116787	Soil		0.8	27.0	6.9	60	<0.1	19.2	9.4	373	2.44	6.4	0.5	2.9	3.3	40	<0.1	0.3	<0.1	58	0.45	0.050
116788	Soil		0.4	27.0	3.5	77	<0.1	16.6	10.9	572	3.73	5.0	0.5	4.0	2.3	27	<0.1	0.3	<0.1	91	0.44	0.071
116789	Soil		0.6	21.1	6.3	54	<0.1	13.3	7.3	322	2.62	5.6	0.6	4.0	3.7	29	<0.1	0.3	0.1	58	0.36	0.044
116790	Soil		0.5	15.9	5.6	53	<0.1	10.2	6.0	311	2.25	4.0	0.3	1.3	2.3	21	<0.1	0.2	<0.1	45	0.23	0.045
116791	Soil		0.3	21.0	5.1	72	<0.1	10.6	7.9	475	2.54	4.3	0.5	6.2	2.3	60	<0.1	0.3	<0.1	54	0.56	0.072
116792	Soil		0.6	14.2	7.6	48	<0.1	14.6	8.1	430	2.41	6.5	0.7	1.4	3.0	33	<0.1	0.5	0.1	52	0.41	0.026
116793	Soil		0.5	12.3	7.8	134	<0.1	14.3	11.5	431	3.51	3.6	0.5	7.2	2.9	95	<0.1	0.3	<0.1	70	0.76	0.096
116794	Soil		0.9	17.3	5.4	49	<0.1	11.0	7.8	519	2.52	4.0	0.4	1.2	1.9	107	<0.1	0.2	<0.1	54	0.42	0.051
116795	Soil		1.6	40.7	15.0	36	0.6	17.7	6.8	301	2.14	6.6	1.9	115.7	11.0	26	0.2	0.6	0.4	37	0.40	0.022
116796	Soil		1.1	17.3	27.8	79	0.2	11.2	7.3	351	2.31	8.6	0.6	3.5	4.1	23	0.1	0.6	0.2	44	0.19	0.021
116797	Soil		0.9	20.6	16.6	86	<0.1	29.3	7.3	780	2.04	5.0	1.0	29.4	2.9	59	0.3	0.5	<0.1	53	2.46	0.031
116798	Soil		0.9	30.9	16.2	71	0.1	15.7	6.1	225	2.68	6.1	0.6	30.5	6.2	25	<0.1	0.8	0.2	40	0.27	0.016
116799	Soil		0.6	13.5	7.4	23	<0.1	6.1	3.0	96	1.34	2.7	0.6	25.4	7.7	9	<0.1	0.3	0.2	17	0.15	0.012
116800	Soil		0.2	45.4	6.7	63	0.1	44.0	4.3	323	1.24	5.9	0.6	31.4	0.9	154	0.4	0.4	<0.1	32	13.13	0.058
116801	Soil		0.6	28.7	13.0	87	<0.1	11.5	7.0	368	2.50	3.5	1.3	36.6	9.7	20	<0.1	1.4	0.4	32	0.35	0.020
116802	Soil		1.1	48.4	11.1	67	0.2	23.7	8.8	246	2.65	8.2	1.1	77.2	11.5	17	<0.1	0.9	0.2	51	0.17	0.017
116803	Soil		1.1	37.4	15.2	86	0.1	23.7	9.5	356	3.01	5.5	1.7	12.0	16.5	33	<0.1	1.1	0.2	50	0.31	0.020
116804	Soil		1.2	26.4	10.4	72	<0.1	26.9	10.6	364	3.43	9.3	0.7	23.9	7.5	28	<0.1	0.7	0.2	69	0.28	0.032
116805	Soil		1.5	22.1	10.4	57	<0.1	25.5	10.0	593	2.71	8.1	0.8	1.1	6.7	32	<0.1	0.6	0.2	56	0.34	0.030

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
116776	Soil	27	28	1.51	155	0.114	<1	2.40	0.005	0.24	<0.1	<0.01	3.1	0.1	<0.05	12	<0.5	<0.2
116777	Soil	13	28	0.61	151	0.097	1	1.92	0.009	0.10	0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
116778	Soil	22	22	1.42	112	0.197	<1	2.39	0.008	0.36	<0.1	0.01	1.9	0.3	<0.05	11	<0.5	<0.2
116779	Soil	17	24	1.08	147	0.156	<1	1.82	0.011	0.32	<0.1	<0.01	1.9	0.3	<0.05	7	<0.5	<0.2
116780	Soil	14	32	1.53	124	0.217	1	2.87	0.009	0.49	<0.1	0.01	1.7	0.3	<0.05	10	<0.5	<0.2
116781	Soil	13	25	1.35	137	0.188	<1	2.39	0.008	0.37	<0.1	0.01	1.5	0.2	<0.05	10	<0.5	<0.2
116782	Soil	8	16	2.08	306	0.199	<1	3.06	0.011	0.63	<0.1	0.04	3.7	0.1	<0.05	8	<0.5	<0.2
116783	Soil	5	20	0.58	201	0.102	<1	1.52	0.009	0.20	0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
116784	Soil	12	22	1.70	395	0.274	<1	2.68	0.009	0.82	<0.1	0.02	5.8	0.2	<0.05	9	<0.5	<0.2
116785	Soil	14	32	0.83	287	0.138	<1	1.72	0.017	0.22	0.1	0.02	5.3	0.1	<0.05	6	<0.5	<0.2
116786	Soil	10	29	0.63	196	0.110	1	1.54	0.011	0.15	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
116787	Soil	12	26	0.73	252	0.126	<1	1.69	0.017	0.22	0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
116788	Soil	12	20	1.48	416	0.234	1	2.21	0.011	0.75	0.1	0.02	5.2	0.2	<0.05	9	<0.5	<0.2
116789	Soil	14	23	0.65	194	0.112	<1	1.62	0.013	0.16	0.1	0.04	4.1	<0.1	<0.05	7	<0.5	<0.2
116790	Soil	5	15	0.68	130	0.095	1	1.52	0.006	0.20	0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
116791	Soil	7	16	0.96	197	0.156	<1	1.73	0.023	0.38	0.1	0.05	2.7	0.2	<0.05	7	<0.5	<0.2
116792	Soil	9	24	0.60	215	0.086	1	1.49	0.017	0.09	0.1	0.02	2.7	<0.1	<0.05	5	0.7	<0.2
116793	Soil	9	19	1.30	149	0.174	<1	2.49	0.008	0.23	<0.1	<0.01	1.2	0.1	<0.05	12	<0.5	<0.2
116794	Soil	7	17	1.07	232	0.135	<1	1.84	0.009	0.30	0.1	<0.01	2.7	<0.1	<0.05	7	<0.5	<0.2
116795	Soil	104	24	0.38	1227	0.027	<1	1.34	0.012	0.06	0.5	0.10	3.6	<0.1	<0.05	4	<0.5	0.3
116796	Soil	7	20	0.50	233	0.038	<1	1.61	0.007	0.06	0.2	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
116797	Soil	13	34	1.55	249	0.034	<1	2.02	0.012	0.06	0.2	0.43	4.4	<0.1	<0.05	7	<0.5	<0.2
116798	Soil	8	37	0.55	381	0.012	<1	1.74	0.007	0.09	2.9	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
116799	Soil	22	11	0.22	387	0.005	<1	0.89	0.004	0.12	0.5	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
116800	Soil	6	25	2.18	134	0.014	1	1.29	0.010	0.03	0.1	0.51	1.6	<0.1	<0.05	5	<0.5	<0.2
116801	Soil	22	22	0.60	181	0.018	<1	1.52	0.010	0.10	0.3	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
116802	Soil	22	36	0.59	380	0.038	<1	1.75	0.010	0.07	1.3	0.05	5.4	0.1	<0.05	6	<0.5	0.4
116803	Soil	41	34	0.70	168	0.054	<1	1.91	0.009	0.08	0.2	0.03	4.8	<0.1	<0.05	7	0.5	<0.2
116804	Soil	10	38	0.78	200	0.100	<1	2.00	0.009	0.19	0.4	0.01	3.3	0.2	<0.05	6	<0.5	<0.2
116805	Soil	14	40	0.57	266	0.079	1	1.60	0.016	0.13	0.3	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2

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Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
116806	Soil		1.2	13.0	9.1	44	0.2	15.7	7.4	392	2.36	6.3	0.4	0.9	2.8	24	0.1	0.5	0.2	55	0.23	0.025
116807	Soil		1.2	34.4	15.8	86	0.1	32.0	12.6	463	3.35	6.1	1.1	2.2	7.1	35	0.2	0.7	0.7	61	0.28	0.029
116808	Soil		0.9	19.2	8.3	92	0.1	20.7	13.4	639	3.23	5.7	0.8	2.4	4.3	57	<0.1	1.1	0.2	68	0.62	0.067
116809	Soil		1.5	35.7	14.3	92	<0.1	22.8	12.1	395	3.43	5.3	1.8	8.0	12.8	42	<0.1	0.7	0.3	70	0.44	0.028
116810	Soil		0.8	20.7	10.2	50	0.1	19.0	8.6	335	2.64	7.4	1.2	4.0	4.8	30	<0.1	0.7	0.2	55	0.41	0.018
116811	Soil		2.5	33.5	54.6	68	0.9	24.4	8.0	596	2.70	9.5	1.8	6.5	12.0	27	0.1	6.7	0.6	35	0.37	0.035
116812	Soil		1.1	39.3	17.3	122	0.1	19.7	15.5	1090	5.58	7.7	2.2	4.3	11.1	35	0.1	3.0	0.3	76	0.64	0.060
116813	Soil		0.9	27.5	13.1	52	0.2	22.2	8.7	387	2.61	9.1	1.2	6.2	5.4	34	<0.1	1.2	0.2	50	0.53	0.037
116814	Soil		1.7	35.9	13.4	63	0.2	21.5	10.8	608	2.86	7.4	2.4	6.7	8.7	36	0.1	1.4	0.2	52	0.56	0.051
116815	Soil		2.1	28.3	26.8	186	0.2	18.8	10.5	988	3.76	4.6	2.1	5.7	17.2	31	0.1	1.4	0.5	43	0.55	0.056
116816	Soil		0.8	26.0	10.3	56	<0.1	20.0	10.0	483	2.81	8.8	1.8	7.4	6.2	37	<0.1	1.2	0.2	54	0.50	0.041
116817	Soil		1.2	34.1	17.4	110	<0.1	24.5	13.2	591	4.18	7.0	1.1	1.1	11.3	54	<0.1	1.3	<0.1	60	0.63	0.046
116818	Soil		0.7	26.2	9.4	52	0.1	22.2	9.1	403	2.47	8.0	2.0	4.4	3.9	52	<0.1	0.8	0.2	47	0.63	0.065
116819	Soil		0.7	21.0	8.1	93	<0.1	16.1	10.0	551	3.34	4.6	1.6	11.2	12.4	27	<0.1	1.3	0.1	51	0.39	0.066
116820	Soil		0.8	23.4	9.9	52	<0.1	20.2	9.2	440	2.45	7.9	1.3	3.0	4.1	48	<0.1	0.6	0.2	49	0.56	0.060
116821	Soil		1.4	21.2	16.4	100	<0.1	16.1	9.0	1030	3.18	5.5	2.6	15.2	11.9	33	0.2	0.9	0.1	43	0.53	0.069
116822	Soil		1.2	15.8	11.2	58	<0.1	12.6	7.6	465	2.25	5.7	1.4	5.1	5.3	44	0.2	0.5	0.2	43	0.61	0.071
116823	Soil		1.2	23.8	10.6	55	0.1	15.3	6.7	412	2.23	5.1	2.4	4.5	4.6	61	<0.1	0.9	0.2	40	1.02	0.080
117926	Soil		0.2	7.3	3.1	146	<0.1	7.7	18.1	1152	2.30	4.2	0.2	2.7	2.9	17	<0.1	0.2	<0.1	55	0.78	0.102
117927	Soil		0.2	16.8	5.2	86	<0.1	16.2	10.4	768	2.51	0.9	0.3	3.2	2.1	49	0.1	0.1	<0.1	64	4.56	0.044
117928	Soil		0.5	61.7	10.6	79	0.1	24.9	12.6	628	3.11	4.0	0.6	4.7	3.3	29	0.2	0.3	0.1	82	1.32	0.123
117929	Soil		0.6	30.6	4.9	75	<0.1	19.5	13.9	607	3.05	2.9	0.5	2.4	4.5	30	<0.1	0.3	<0.1	64	0.30	0.034
117930	Soil		0.2	10.0	2.2	63	<0.1	10.6	13.5	1004	1.79	10.3	0.3	2.1	4.8	49	<0.1	0.5	<0.1	36	0.62	0.074
117931	Soil		0.5	7.6	3.7	55	<0.1	18.1	12.6	780	2.34	6.2	0.3	0.9	3.6	24	<0.1	0.2	<0.1	50	0.32	0.064
117932	Soil		0.2	14.4	3.7	131	<0.1	11.2	16.4	601	4.70	2.0	0.5	1.5	1.7	101	<0.1	0.1	<0.1	98	1.09	0.214
117933	Soil		0.9	10.0	7.7	70	<0.1	14.8	13.7	444	3.31	9.5	0.3	1.4	2.1	21	<0.1	0.4	0.1	72	0.20	0.147
117934	Soil		0.1	3.7	1.3	79	<0.1	7.5	26.0	921	3.56	1.1	0.2	1.4	1.2	34	<0.1	0.1	<0.1	169	0.48	0.063
117935	Soil		<0.1	5.8	1.7	84	<0.1	7.9	27.5	636	3.43	1.4	0.3	2.1	1.4	30	<0.1	0.2	<0.1	177	0.47	0.050
117936	Soil		0.5	11.3	5.9	71	<0.1	16.4	13.4	400	3.31	4.7	0.3	3.6	1.9	26	<0.1	0.3	0.1	77	0.27	0.025
117937	Soil		1.3	14.0	9.2	47	<0.1	18.8	7.6	304	2.59	6.9	0.4	1.4	2.7	24	<0.1	0.4	0.2	55	0.18	0.040

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
116806	Soil	10	26	0.42	346	0.056	1	1.40	0.009	0.07	0.2	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
116807	Soil	18	58	0.84	255	0.085	<1	2.05	0.011	0.13	0.2	0.03	3.7	0.1	<0.05	8	<0.5	<0.2
116808	Soil	17	50	0.97	233	0.105	<1	1.78	0.021	0.18	0.3	0.02	5.1	<0.1	<0.05	7	0.7	<0.2
116809	Soil	23	35	1.04	237	0.165	<1	2.01	0.011	0.22	0.2	0.01	4.8	0.2	<0.05	9	<0.5	<0.2
116810	Soil	14	30	0.58	320	0.078	<1	1.67	0.015	0.07	0.2	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
116811	Soil	36	27	0.40	322	0.031	1	1.28	0.014	0.15	0.1	0.26	3.9	0.1	<0.05	4	<0.5	<0.2
116812	Soil	39	20	1.12	683	0.108	2	2.73	0.016	0.61	0.1	0.19	8.1	0.3	<0.05	9	<0.5	<0.2
116813	Soil	16	30	0.56	400	0.065	1	1.48	0.025	0.07	0.2	0.05	3.9	<0.1	<0.05	4	0.8	<0.2
116814	Soil	35	34	0.64	536	0.062	1	1.67	0.019	0.10	0.2	0.10	4.8	<0.1	<0.05	5	0.7	<0.2
116815	Soil	57	19	0.72	402	0.026	1	2.31	0.010	0.10	<0.1	0.26	5.2	<0.1	<0.05	10	1.1	<0.2
116816	Soil	16	31	0.59	298	0.070	1	1.66	0.022	0.06	0.2	0.03	4.2	<0.1	<0.05	5	0.7	<0.2
116817	Soil	12	50	0.89	214	0.087	<1	2.27	0.011	0.10	0.2	0.01	3.0	<0.1	<0.05	10	1.2	<0.2
116818	Soil	17	26	0.56	412	0.060	1	1.43	0.020	0.06	0.4	0.05	3.3	<0.1	<0.05	4	1.3	<0.2
116819	Soil	31	15	0.51	298	0.020	<1	1.66	0.009	0.12	0.2	0.04	7.4	<0.1	<0.05	8	0.6	<0.2
116820	Soil	15	26	0.56	315	0.058	1	1.45	0.020	0.06	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
116821	Soil	35	17	0.79	300	0.033	<1	1.71	0.013	0.09	0.2	0.06	4.2	<0.1	<0.05	7	0.6	<0.2
116822	Soil	19	21	0.55	238	0.058	<1	1.26	0.016	0.07	0.3	0.04	3.1	<0.1	<0.05	5	<0.5	<0.2
116823	Soil	27	21	0.46	312	0.037	2	1.20	0.016	0.06	0.2	0.07	3.4	<0.1	<0.05	4	0.8	<0.2
117926	Soil	18	7	2.15	96	0.128	1	1.96	0.008	0.14	<0.1	0.02	13.5	<0.1	<0.05	9	<0.5	<0.2
117927	Soil	8	24	4.17	206	0.146	<1	3.28	0.011	0.29	<0.1	0.04	4.7	<0.1	<0.05	8	<0.5	<0.2
117928	Soil	11	38	2.46	282	0.166	1	2.94	0.015	0.49	0.1	0.07	6.5	0.2	<0.05	8	<0.5	<0.2
117929	Soil	24	53	1.74	132	0.197	<1	2.41	0.010	0.81	<0.1	<0.01	4.8	0.3	<0.05	8	<0.5	<0.2
117930	Soil	11	10	1.67	121	0.161	<1	2.03	0.010	0.58	<0.1	<0.01	5.5	0.2	<0.05	7	<0.5	<0.2
117931	Soil	7	27	1.21	133	0.178	<1	1.70	0.008	0.55	<0.1	0.01	5.3	0.2	<0.05	6	<0.5	<0.2
117932	Soil	9	10	1.49	370	0.331	<1	2.96	0.013	1.11	<0.1	<0.01	1.4	0.3	<0.05	13	<0.5	<0.2
117933	Soil	6	26	0.71	157	0.138	<1	1.86	0.008	0.25	0.2	<0.01	1.9	0.1	<0.05	7	<0.5	<0.2
117934	Soil	9	8	3.05	644	0.260	<1	3.08	0.016	1.50	<0.1	<0.01	13.4	0.3	<0.05	10	<0.5	<0.2
117935	Soil	8	6	2.97	347	0.235	<1	2.93	0.018	0.90	0.2	<0.01	12.6	0.2	<0.05	10	<0.5	<0.2
117936	Soil	7	34	1.48	240	0.182	<1	2.35	0.010	0.61	<0.1	<0.01	5.6	0.2	<0.05	7	<0.5	<0.2
117937	Soil	8	28	0.64	170	0.109	<1	1.77	0.011	0.20	0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
117938	Soil	0.2	8.9	4.0	78	<0.1	11.3	12.5	504	2.69	1.5	0.2	1.2	1.5	41	<0.1	0.1	<0.1	72	0.50	0.067
117939	Soil	0.2	57.9	6.7	95	<0.1	15.2	14.3	685	2.98	1.9	0.6	3.0	2.3	153	<0.1	0.2	<0.1	72	1.41	0.133
117940	Soil	0.2	37.9	1.8	126	<0.1	14.2	26.3	836	4.70	1.8	0.4	1.1	2.5	18	<0.1	<0.1	0.1	239	0.36	0.049
117941	Soil	0.2	38.2	1.9	120	<0.1	14.1	24.9	818	4.59	1.8	0.4	2.3	2.6	18	<0.1	<0.1	<0.1	236	0.35	0.053
117942	Soil	0.3	12.0	3.9	103	<0.1	14.9	21.3	676	4.11	3.4	0.4	0.9	2.4	22	<0.1	0.2	<0.1	178	0.20	0.017
117943	Soil	0.1	15.0	2.1	174	<0.1	13.3	25.3	826	4.45	0.9	0.6	2.0	3.0	33	<0.1	<0.1	<0.1	185	0.58	0.098
117944	Soil	0.6	30.8	5.9	88	<0.1	22.5	16.5	662	3.68	5.1	0.5	2.9	3.6	42	<0.1	0.4	<0.1	111	0.60	0.072
117945	Soil	0.4	8.7	3.9	67	<0.1	9.8	27.3	1194	3.29	4.6	0.2	1.6	1.4	23	<0.1	0.2	<0.1	170	0.35	0.068
117946	Soil	0.5	15.5	5.3	50	<0.1	12.3	9.9	294	2.42	3.9	0.5	2.1	3.0	26	<0.1	0.3	<0.1	69	0.30	0.028
117947	Soil	0.4	14.1	7.7	102	<0.1	13.1	13.2	495	3.68	3.9	0.8	3.0	2.4	130	<0.1	0.4	<0.1	83	1.25	0.154
117948	Soil	0.2	9.9	14.0	157	<0.1	13.0	20.5	920	4.52	3.3	0.9	1.5	3.1	162	<0.1	0.3	<0.1	70	1.59	0.250
117949	Soil	0.6	22.3	7.2	50	<0.1	18.0	7.8	281	2.46	7.0	0.7	3.5	4.1	32	<0.1	0.5	0.1	58	0.44	0.069
117950	Soil	0.5	25.7	7.5	57	0.1	19.1	9.0	347	2.69	7.2	0.9	7.3	3.5	37	0.1	0.6	0.1	64	0.53	0.066
117951	Soil	0.5	18.1	6.9	53	<0.1	15.2	8.8	329	2.51	6.8	1.1	5.8	3.5	36	<0.1	0.5	0.1	62	0.50	0.060
117952	Soil	0.8	14.2	7.2	55	0.1	14.6	9.2	332	2.45	6.2	0.8	1.7	3.0	34	<0.1	0.4	0.1	58	0.46	0.052
117953	Soil	0.8	16.9	7.5	51	0.1	15.2	9.3	362	2.32	6.3	1.1	2.7	3.1	34	<0.1	0.4	0.1	55	0.50	0.053
103865	Soil	0.3	8.2	3.5	56	<0.1	10.8	25.5	1035	4.57	2.4	0.4	0.8	1.6	18	<0.1	0.2	<0.1	123	0.49	0.057
103866	Soil	0.8	6.7	7.6	55	<0.1	6.5	8.5	349	1.75	1.9	0.2	1.3	1.0	18	<0.1	0.1	<0.1	52	0.21	0.040
103867	Soil	0.7	23.2	10.1	65	<0.1	24.2	10.9	403	3.12	7.9	1.1	3.5	6.5	25	<0.1	0.7	0.2	69	0.37	0.047
103868	Soil	0.3	13.9	7.3	67	<0.1	14.5	18.4	1015	3.37	3.2	0.6	1.9	2.7	27	<0.1	0.4	0.1	101	1.02	0.077
103869	Soil	0.1	4.0	1.4	63	<0.1	12.5	15.7	891	2.56	2.2	0.2	0.8	3.4	18	<0.1	0.2	<0.1	82	0.30	0.051
103870	Soil	0.8	10.0	9.1	43	<0.1	13.1	5.9	238	2.26	6.3	0.4	1.5	2.6	16	<0.1	0.4	0.2	58	0.14	0.016
103871	Soil	0.6	15.3	7.6	98	<0.1	14.1	9.8	361	2.94	5.4	0.2	<0.5	1.7	22	<0.1	0.4	<0.1	67	0.17	0.045
103872	Soil	0.6	6.3	7.7	40	<0.1	10.9	6.7	213	1.97	4.1	0.2	1.2	1.5	17	<0.1	0.2	0.2	56	0.21	0.068
103873	Soil	0.7	12.9	7.9	55	<0.1	12.9	8.2	306	2.38	5.9	0.5	1.3	2.7	17	<0.1	0.4	0.1	50	0.24	0.040
103874	Soil	0.8	12.5	8.8	49	<0.1	17.8	10.6	355	2.63	7.9	0.3	0.8	2.6	21	<0.1	0.5	0.1	61	0.17	0.029
103875	Soil	0.2	3.2	3.0	48	<0.1	14.8	15.6	982	3.61	2.0	0.2	<0.5	1.1	13	<0.1	0.2	<0.1	107	0.23	0.024
103876	Soil	0.4	7.1	4.1	68	<0.1	13.3	16.1	676	3.97	5.9	0.2	0.7	1.5	30	<0.1	0.2	<0.1	125	0.33	0.054
103877	Soil	0.4	23.3	7.0	134	<0.1	14.5	18.2	619	4.90	5.0	0.5	<0.5	2.0	78	<0.1	0.3	<0.1	93	0.73	0.162
103878	Soil	0.7	10.5	7.9	44	<0.1	15.4	9.0	298	2.36	7.0	0.4	0.8	2.7	32	<0.1	0.4	<0.1	56	0.30	0.017

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Page: 6 of 12 Part 2

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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	
117938	Soil	6	27	1.47	210	0.227	<1	2.23	0.010	0.82	<0.1	<0.01	2.1	0.3	<0.05	7	<0.5	<0.2
117939	Soil	10	38	1.68	314	0.246	<1	3.53	0.010	0.93	<0.1	0.01	1.1	0.2	<0.05	10	<0.5	<0.2
117940	Soil	13	31	4.24	538	0.334	<1	3.81	0.017	1.64	<0.1	<0.01	24.3	0.3	<0.05	13	<0.5	<0.2
117941	Soil	13	31	4.14	495	0.324	<1	3.66	0.015	1.57	<0.1	<0.01	23.9	0.2	<0.05	12	<0.5	<0.2
117942	Soil	13	34	2.98	309	0.277	<1	3.30	0.012	0.64	<0.1	<0.01	9.2	0.2	<0.05	10	<0.5	<0.2
117943	Soil	12	29	3.90	699	0.313	<1	3.46	0.018	1.40	0.1	<0.01	17.2	0.2	<0.05	13	<0.5	<0.2
117944	Soil	12	36	1.87	379	0.221	<1	2.68	0.017	0.62	0.1	0.03	8.6	0.2	<0.05	9	<0.5	<0.2
117945	Soil	4	13	2.49	171	0.240	<1	3.00	0.007	0.49	<0.1	0.01	13.0	<0.1	<0.05	10	<0.5	<0.2
117946	Soil	10	24	0.93	177	0.152	<1	1.72	0.012	0.15	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
117947	Soil	9	16	0.83	245	0.198	1	2.59	0.012	0.50	<0.1	0.01	2.3	0.1	<0.05	10	<0.5	<0.2
117948	Soil	19	11	1.26	222	0.093	<1	3.26	0.014	0.17	<0.1	0.01	2.8	<0.1	<0.05	14	<0.5	<0.2
117949	Soil	13	27	0.57	227	0.097	1	1.45	0.017	0.10	0.1	0.02	3.8	0.1	<0.05	4	<0.5	<0.2
117950	Soil	13	27	0.68	267	0.114	1	1.61	0.020	0.12	0.2	0.02	4.0	<0.1	<0.05	5	0.6	<0.2
117951	Soil	12	26	0.60	271	0.100	<1	1.55	0.017	0.06	0.2	0.02	3.4	<0.1	<0.05	5	0.5	<0.2
117952	Soil	11	26	0.60	267	0.097	1	1.55	0.016	0.05	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
117953	Soil	11	26	0.52	298	0.081	<1	1.51	0.018	0.06	0.1	0.04	3.0	<0.1	<0.05	5	0.5	<0.2
103865	Soil	5	13	3.09	320	0.328	<1	3.07	0.012	0.75	<0.1	<0.01	16.9	0.1	<0.05	13	<0.5	<0.2
103866	Soil	4	11	0.84	127	0.134	<1	1.25	0.009	0.35	<0.1	<0.01	1.1	0.1	<0.05	6	<0.5	<0.2
103867	Soil	23	35	0.75	306	0.089	1	1.87	0.015	0.10	<0.1	0.02	6.6	<0.1	<0.05	6	0.7	<0.2
103868	Soil	11	22	1.80	610	0.142	1	2.11	0.016	0.79	<0.1	0.02	10.1	0.1	<0.05	7	<0.5	<0.2
103869	Soil	17	28	2.30	168	0.212	<1	2.27	0.008	0.70	<0.1	<0.01	8.5	0.2	<0.05	10	<0.5	<0.2
103870	Soil	10	26	0.41	119	0.076	<1	1.53	0.009	0.07	0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
103871	Soil	5	32	1.01	154	0.179	<1	2.23	0.010	0.37	0.1	0.01	1.5	0.2	<0.05	8	<0.5	<0.2
103872	Soil	6	17	0.60	190	0.080	<1	1.50	0.008	0.08	0.1	0.01	1.8	<0.1	<0.05	7	<0.5	<0.2
103873	Soil	7	23	0.57	167	0.077	1	1.70	0.007	0.12	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
103874	Soil	7	30	0.72	178	0.082	1	1.82	0.007	0.08	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
103875	Soil	3	25	3.22	186	0.288	<1	3.22	0.011	1.31	<0.1	<0.01	9.8	0.3	<0.05	11	<0.5	<0.2
103876	Soil	3	19	1.88	206	0.303	<1	2.72	0.009	0.80	0.2	<0.01	5.0	0.2	<0.05	10	<0.5	<0.2
103877	Soil	5	15	1.61	318	0.337	<1	2.85	0.008	0.50	<0.1	<0.01	1.2	0.2	<0.05	14	<0.5	<0.2
103878	Soil	9	25	0.72	178	0.094	<1	1.53	0.011	0.07	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2



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Project: Rosebute  
 Report Date: August 18, 2011

Page: 7 of 12 Part 1

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WHI11000769.1

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	
103879	Soil		0.6	13.1	7.2	57	<0.1	13.3	9.0	313	2.60	6.3	0.3	1.8	2.3	23	<0.1	0.4	<0.1	51	0.26	0.034
103880	Soil		0.4	12.8	6.5	58	<0.1	12.8	9.0	503	2.35	5.7	0.4	1.4	3.2	16	<0.1	0.3	<0.1	60	0.33	0.029
103881	Soil		0.9	19.6	8.1	55	<0.1	17.8	10.5	322	3.18	9.1	0.4	2.3	2.9	16	<0.1	0.5	0.1	79	0.27	0.032
103882	Soil		0.5	10.1	7.5	60	<0.1	15.3	13.5	680	2.57	5.4	0.4	1.0	4.1	15	<0.1	0.3	0.1	66	0.30	0.052
103883	Soil		0.8	17.8	7.2	70	<0.1	16.8	10.0	369	3.11	4.2	0.4	1.0	2.7	18	<0.1	0.3	0.1	71	0.27	0.032
103884	Soil		0.5	59.8	5.4	41	0.2	9.8	8.1	675	3.10	5.4	0.5	1.0	6.8	14	<0.1	0.4	<0.1	41	0.28	0.055
103885	Soil		0.6	51.5	6.7	72	<0.1	13.7	8.9	478	2.67	7.1	0.3	<0.5	2.0	16	<0.1	0.3	<0.1	63	0.23	0.052
103886	Soil		1.0	25.3	9.6	43	0.9	12.9	6.6	226	2.62	6.7	0.3	6.4	3.1	10	0.1	0.4	0.2	60	0.10	0.024
103887	Soil		0.8	28.5	6.4	51	<0.1	12.9	7.5	482	2.20	6.2	0.4	0.8	4.6	13	<0.1	0.4	<0.1	44	0.21	0.025
103888	Soil		0.6	33.7	8.1	53	0.1	26.5	10.1	352	2.56	9.7	0.5	5.8	4.2	41	<0.1	0.6	0.1	55	0.73	0.054
103889	Soil		0.5	33.1	6.4	67	<0.1	21.1	12.8	427	3.11	6.8	0.6	2.6	3.9	41	<0.1	0.4	<0.1	69	0.53	0.060
103890	Soil		0.8	24.8	7.6	60	<0.1	20.5	12.7	439	2.91	7.1	0.5	3.0	3.5	30	<0.1	0.5	<0.1	66	0.36	0.036
103891	Soil		0.4	20.4	4.4	50	<0.1	20.1	11.2	413	2.67	4.2	0.6	2.1	5.0	39	<0.1	0.3	<0.1	57	0.49	0.049
103892	Soil		0.6	14.2	5.6	90	<0.1	13.7	19.7	945	4.44	3.5	0.3	1.0	2.1	41	<0.1	0.2	<0.1	150	0.61	0.081
103893	Soil		0.4	22.9	7.1	58	<0.1	18.8	14.9	632	3.04	5.9	0.6	2.0	3.9	33	<0.1	0.3	<0.1	67	0.70	0.050
103894	Soil		0.4	71.7	3.4	53	<0.1	10.3	11.4	487	2.52	3.7	0.5	1.4	6.2	22	<0.1	0.2	<0.1	42	0.55	0.088
103895	Soil		0.6	32.5	6.4	59	<0.1	14.5	8.8	342	2.59	5.9	0.4	<0.5	3.1	23	<0.1	0.3	<0.1	57	0.33	0.030
103896	Soil		0.2	3.9	2.7	234	<0.1	5.7	17.7	621	2.67	3.1	0.2	<0.5	1.5	19	<0.1	0.1	<0.1	84	0.48	0.127
103897	Soil		0.2	10.4	4.1	102	<0.1	6.7	11.5	505	2.64	2.7	0.5	1.8	3.5	40	<0.1	0.2	<0.1	66	0.68	0.087
103898	Soil		0.8	16.0	8.4	51	<0.1	20.6	9.3	304	2.74	9.3	0.5	4.2	4.5	16	<0.1	0.6	0.1	59	0.14	0.018
103899	Soil		0.9	15.9	9.2	58	<0.1	19.5	8.6	263	2.67	8.7	0.5	2.6	3.5	21	<0.1	0.5	0.1	57	0.28	0.023
103900	Soil		0.8	25.2	7.1	56	<0.1	21.5	9.1	285	2.67	7.9	0.8	1.9	6.2	25	<0.1	0.6	<0.1	57	0.24	0.029
103901	Soil		0.5	35.4	8.6	58	0.1	24.0	9.6	395	2.67	9.0	0.5	4.1	5.0	57	<0.1	0.5	0.1	55	0.57	0.036
103902	Soil		1.0	16.0	8.9	42	<0.1	17.6	7.8	335	2.34	6.9	0.6	1.2	3.6	29	<0.1	0.4	0.1	60	0.31	0.019
103903	Soil		0.5	19.0	7.2	62	<0.1	15.6	10.5	342	2.53	6.8	0.6	1.9	4.2	63	<0.1	0.5	<0.1	53	0.61	0.046
103904	Soil		0.6	21.2	8.6	55	<0.1	17.8	9.3	286	2.41	5.8	0.7	4.6	4.1	59	<0.1	0.5	<0.1	53	0.56	0.037
103905	Soil		0.8	21.1	8.1	48	<0.1	18.0	9.3	773	2.37	7.2	0.7	3.0	3.8	33	0.1	0.4	0.1	53	0.41	0.033
103906	Soil		1.3	15.0	11.4	75	<0.1	18.4	9.7	618	2.87	8.8	0.5	14.6	3.3	25	0.2	0.5	0.2	61	0.40	0.049
103907	Soil		0.8	18.2	14.7	171	<0.1	10.4	11.4	753	3.48	3.7	0.9	20.0	6.4	25	0.1	0.3	<0.1	62	0.50	0.073
103908	Soil		0.4	13.1	10.8	112	<0.1	6.5	5.3	155	1.68	3.8	0.8	3.6	4.6	20	0.1	0.6	0.1	28	0.19	0.030

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
103879	Soil	6	22	0.84	166	0.134	<1	1.73	0.008	0.23	0.1	0.01	1.9	0.1	<0.05	5	<0.5	<0.2
103880	Soil	9	19	1.08	183	0.146	1	1.70	0.008	0.21	0.1	<0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
103881	Soil	7	29	0.86	191	0.134	1	1.98	0.009	0.25	0.1	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
103882	Soil	9	25	1.13	249	0.128	<1	1.97	0.008	0.19	0.1	<0.01	5.6	<0.1	<0.05	7	<0.5	<0.2
103883	Soil	14	46	1.13	256	0.148	<1	2.32	0.008	0.39	0.2	0.02	4.3	0.2	<0.05	9	<0.5	<0.2
103884	Soil	15	14	0.82	205	0.170	<1	1.79	0.005	0.35	<0.1	0.01	3.7	0.1	<0.05	6	<0.5	<0.2
103885	Soil	5	26	0.84	141	0.171	<1	1.76	0.008	0.36	0.1	0.01	3.2	0.2	<0.05	9	<0.5	<0.2
103886	Soil	7	25	0.44	264	0.071	<1	1.83	0.007	0.05	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
103887	Soil	10	22	0.65	195	0.100	1	1.43	0.008	0.14	<0.1	0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
103888	Soil	13	27	0.64	308	0.095	2	1.42	0.026	0.08	0.2	0.06	4.0	<0.1	<0.05	4	<0.5	<0.2
103889	Soil	14	34	0.97	232	0.173	1	2.15	0.016	0.25	0.1	0.04	5.4	0.1	<0.05	7	<0.5	<0.2
103890	Soil	11	30	0.77	227	0.148	<1	1.91	0.014	0.17	0.1	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
103891	Soil	14	44	1.36	165	0.192	<1	2.05	0.011	0.38	<0.1	0.01	3.7	0.2	<0.05	7	<0.5	<0.2
103892	Soil	6	21	2.30	409	0.282	<1	3.38	0.017	1.29	0.1	0.02	10.2	0.2	<0.05	11	<0.5	<0.2
103893	Soil	14	30	1.34	195	0.163	<1	2.20	0.015	0.11	<0.1	0.03	5.2	<0.1	<0.05	7	<0.5	<0.2
103894	Soil	28	13	1.33	166	0.170	<1	1.92	0.009	0.24	<0.1	0.02	4.1	0.2	<0.05	6	<0.5	<0.2
103895	Soil	10	22	0.85	212	0.116	<1	1.72	0.010	0.22	<0.1	0.02	3.6	0.1	<0.05	6	<0.5	<0.2
103896	Soil	7	6	1.84	132	0.188	<1	1.94	0.007	0.62	<0.1	<0.01	6.0	0.1	<0.05	9	<0.5	<0.2
103897	Soil	10	9	1.43	235	0.177	<1	1.93	0.008	0.16	<0.1	0.02	6.7	<0.1	<0.05	8	<0.5	<0.2
103898	Soil	8	33	0.55	173	0.092	<1	1.61	0.009	0.09	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
103899	Soil	9	31	0.60	157	0.098	1	1.65	0.009	0.12	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
103900	Soil	19	33	0.68	182	0.092	<1	1.72	0.011	0.07	0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
103901	Soil	18	29	0.65	321	0.095	<1	1.78	0.021	0.06	0.1	0.06	4.6	<0.1	<0.05	6	<0.5	<0.2
103902	Soil	10	30	0.45	221	0.094	<1	1.62	0.011	0.07	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
103903	Soil	16	22	0.78	235	0.131	2	1.89	0.013	0.16	<0.1	0.03	4.4	<0.1	<0.05	7	<0.5	<0.2
103904	Soil	13	30	0.64	277	0.103	<1	1.93	0.015	0.09	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
103905	Soil	13	28	0.50	353	0.074	<1	1.60	0.016	0.04	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
103906	Soil	8	34	0.54	236	0.067	<1	1.85	0.009	0.10	0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
103907	Soil	10	20	1.02	191	0.030	<1	2.00	0.011	0.24	0.2	0.03	4.7	<0.1	<0.05	11	<0.5	<0.2
103908	Soil	13	11	0.40	119	0.011	<1	1.08	0.009	0.09	0.3	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2

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Page: 8 of 12 Part 1

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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	
103909	Soil	1.8	36.8	12.4	160	0.2	18.2	16.4	652	4.64	14.2	1.1	212.1	6.8	50	<0.1	1.3	0.2	105	0.73	0.163
104814	Soil	1.1	22.2	11.9	53	<0.1	19.6	7.4	263	2.45	8.8	1.4	11.9	4.9	29	<0.1	0.6	0.2	49	0.32	0.045
104815	Soil	0.8	24.4	10.4	67	<0.1	24.8	9.3	271	2.97	12.6	0.5	7.3	5.2	22	<0.1	0.6	0.2	73	0.12	0.025
104816	Soil	1.0	23.3	12.5	130	<0.1	19.6	12.8	443	3.67	31.2	0.6	2.9	4.3	96	0.2	0.8	0.1	88	0.46	0.098
104817	Soil	0.8	11.4	10.2	88	<0.1	17.0	10.1	490	2.86	6.5	0.3	2.8	2.5	34	0.1	0.4	0.2	66	0.20	0.084
104818	Soil	0.9	23.5	10.4	61	<0.1	22.5	9.5	263	2.82	8.4	0.9	3.6	4.7	34	<0.1	0.6	0.2	66	0.29	0.017
104819	Soil	0.9	27.7	10.9	68	0.1	24.1	11.0	320	3.03	9.5	0.7	4.1	5.2	39	<0.1	0.7	0.2	68	0.41	0.036
104820	Soil	0.8	22.7	18.5	60	0.2	27.9	10.5	772	2.58	9.6	0.7	3.2	2.9	46	0.1	0.8	0.2	57	1.53	0.034
104821	Soil	0.6	14.9	10.4	68	0.1	15.4	9.9	423	2.70	23.8	0.8	3.3	3.4	37	0.2	1.7	0.2	44	1.93	0.060
104822	Soil	0.6	36.5	12.6	50	0.1	24.9	9.5	396	2.58	9.8	0.7	3.9	2.3	35	0.1	0.7	0.2	56	1.21	0.037
104823	Soil	0.6	28.4	11.0	58	<0.1	22.6	9.7	426	2.77	9.3	0.6	4.5	3.1	30	0.2	0.9	0.2	62	1.23	0.032
104824	Soil	0.5	13.9	12.4	50	<0.1	25.9	9.4	473	2.50	9.7	0.6	4.2	3.1	37	0.2	0.6	0.2	62	2.16	0.027
104825	Soil	0.6	23.5	10.5	52	<0.1	25.9	9.2	382	2.27	10.6	0.6	3.2	3.1	55	0.2	0.7	0.1	52	3.82	0.036
104826	Soil	0.6	13.0	11.6	39	<0.1	19.3	8.6	265	2.68	8.3	0.7	1.1	2.4	27	0.1	0.4	0.2	65	1.05	0.021
104827	Soil	2.7	16.0	15.5	64	<0.1	25.9	10.0	608	2.80	20.9	1.1	1.1	3.9	28	0.1	0.9	0.1	60	1.32	0.034
104828	Soil	1.3	25.4	11.2	54	0.1	22.7	10.0	468	2.29	10.7	0.7	1.8	2.4	75	0.2	0.6	0.1	49	4.28	0.066
104829	Soil	0.3	2.7	4.2	108	<0.1	7.6	14.2	855	2.58	2.3	0.2	1.3	3.8	18	<0.1	0.2	<0.1	52	0.23	0.039
104830	Soil	0.2	6.3	5.5	46	<0.1	3.3	5.0	494	1.50	1.2	0.5	2.3	12.7	16	<0.1	0.2	<0.1	23	0.27	0.027
104831	Soil	0.4	12.5	7.7	81	<0.1	12.0	11.4	334	3.48	4.9	0.2	1.0	1.5	83	<0.1	0.3	<0.1	67	0.24	0.019
104832	Soil	0.5	19.4	4.6	72	<0.1	9.5	10.1	343	3.01	4.8	0.3	1.0	2.1	10	<0.1	0.2	0.1	64	0.15	0.023
104833	Soil	0.3	6.9	3.7	127	<0.1	8.0	15.7	684	2.74	4.9	0.3	<0.5	2.6	90	<0.1	0.3	<0.1	56	0.51	0.070
104834	Soil	0.6	11.3	7.9	51	<0.1	11.4	7.7	350	2.16	5.0	0.3	1.2	2.1	183	<0.1	0.3	<0.1	44	0.67	0.019
104835	Soil	0.6	7.5	6.4	114	<0.1	9.3	12.3	1340	3.32	4.7	0.6	0.9	6.1	113	<0.1	0.2	<0.1	48	0.40	0.052
104836	Soil	0.5	122.4	7.2	69	1.0	17.0	15.6	335	3.30	3.2	0.3	1.5	1.7	34	<0.1	0.2	0.1	104	0.35	0.029
104837	Soil	0.4	43.3	4.9	68	<0.1	6.0	6.4	374	2.08	1.6	0.4	1.0	3.8	18	<0.1	0.2	0.1	23	0.18	0.021
104838	Soil	0.8	10.6	9.6	57	<0.1	13.8	7.0	442	2.58	7.7	0.4	1.5	2.0	20	0.1	0.5	0.2	61	0.14	0.075
104839	Soil	0.5	60.8	5.8	161	<0.1	11.7	19.2	788	3.60	3.6	0.2	1.5	1.5	28	<0.1	0.3	<0.1	142	0.27	0.050
104840	Soil	0.5	30.2	6.9	128	<0.1	11.9	14.9	513	3.19	4.8	0.3	0.8	1.8	22	<0.1	0.3	<0.1	116	0.20	0.033
104841	Soil	0.8	28.6	6.8	94	0.2	11.5	10.2	1087	2.70	3.8	0.5	1.0	1.9	24	0.1	0.3	0.1	62	0.23	0.052
104842	Soil	0.9	13.1	7.6	71	<0.1	15.1	7.3	276	2.42	6.2	0.4	0.8	3.8	18	<0.1	0.4	0.1	52	0.18	0.044

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 Report Date: August 18, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
103909	Soil	19	30	1.27	264	0.051	1	2.27	0.009	0.19	0.8	0.10	8.4	<0.1	<0.05	13	<0.5	<0.2
104814	Soil	13	32	0.44	268	0.068	1	1.55	0.012	0.05	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
104815	Soil	8	37	0.62	120	0.096	1	2.30	0.008	0.08	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
104816	Soil	8	30	1.08	180	0.137	1	3.06	0.013	0.07	0.2	0.02	3.5	<0.1	<0.05	12	<0.5	<0.2
104817	Soil	6	26	0.61	209	0.074	<1	2.10	0.009	0.06	0.1	0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
104818	Soil	15	37	0.63	225	0.087	<1	1.80	0.018	0.05	0.1	0.03	5.2	<0.1	<0.05	6	<0.5	<0.2
104819	Soil	15	37	0.70	314	0.090	1	1.90	0.021	0.05	0.2	0.04	5.6	<0.1	<0.05	6	<0.5	<0.2
104820	Soil	15	34	0.95	212	0.056	2	1.82	0.016	0.05	0.2	0.06	4.9	<0.1	<0.05	5	0.6	<0.2
104821	Soil	13	16	0.76	231	0.025	2	1.42	0.009	0.06	0.2	0.21	6.4	0.1	<0.05	5	<0.5	<0.2
104822	Soil	17	28	0.51	277	0.048	2	1.63	0.017	0.05	0.2	0.09	3.9	<0.1	<0.05	5	0.8	<0.2
104823	Soil	15	27	0.55	222	0.060	2	1.68	0.018	0.05	0.2	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
104824	Soil	15	36	1.38	199	0.055	2	1.65	0.017	0.04	0.2	0.04	4.2	<0.1	<0.05	4	0.5	<0.2
104825	Soil	14	29	1.65	158	0.064	2	1.62	0.018	0.05	0.2	0.06	4.2	<0.1	<0.05	4	<0.5	<0.2
104826	Soil	9	33	0.52	264	0.049	1	1.93	0.013	0.04	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
104827	Soil	13	34	0.43	158	0.043	1	1.57	0.011	0.04	0.1	0.07	7.2	<0.1	<0.05	4	0.8	<0.2
104828	Soil	11	24	0.64	268	0.057	1	1.30	0.018	0.05	0.1	0.10	4.1	<0.1	<0.05	4	0.6	<0.2
104829	Soil	9	9	1.93	131	0.250	<1	2.30	0.009	0.80	<0.1	<0.01	5.4	0.3	<0.05	7	<0.5	<0.2
104830	Soil	33	5	0.91	116	0.088	<1	1.37	0.007	0.44	<0.1	<0.01	2.7	0.2	<0.05	4	<0.5	<0.2
104831	Soil	2	16	1.38	160	0.279	<1	2.96	0.007	0.35	<0.1	<0.01	1.6	0.1	<0.05	7	<0.5	<0.2
104832	Soil	3	18	1.23	110	0.175	<1	2.07	0.007	0.61	0.1	0.01	4.6	0.3	<0.05	8	<0.5	<0.2
104833	Soil	9	11	1.69	146	0.253	<1	2.24	0.009	0.55	<0.1	<0.01	6.2	0.2	<0.05	8	<0.5	<0.2
104834	Soil	5	20	0.74	203	0.109	<1	2.40	0.009	0.22	<0.1	0.01	2.5	0.1	<0.05	7	<0.5	<0.2
104835	Soil	8	16	1.56	234	0.254	<1	2.72	0.008	0.83	0.1	<0.01	6.7	0.2	<0.05	9	<0.5	<0.2
104836	Soil	7	44	1.61	294	0.240	<1	2.32	0.014	0.57	0.2	<0.01	3.6	0.2	<0.05	8	<0.5	<0.2
104837	Soil	24	8	0.95	106	0.063	<1	1.78	0.005	0.28	<0.1	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
104838	Soil	8	25	0.48	182	0.080	1	1.47	0.008	0.10	0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
104839	Soil	5	16	1.94	318	0.269	<1	2.52	0.012	0.83	0.1	<0.01	5.1	0.2	<0.05	9	<0.5	<0.2
104840	Soil	5	19	1.52	249	0.202	<1	2.22	0.010	0.54	0.1	0.01	5.0	0.2	<0.05	8	<0.5	<0.2
104841	Soil	7	15	0.84	207	0.178	<1	1.78	0.009	0.47	0.1	0.02	3.3	0.3	<0.05	8	<0.5	<0.2
104842	Soil	9	25	0.54	154	0.106	<1	1.60	0.008	0.22	0.1	0.01	2.1	0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000769.1

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 %
104843	Soil			0.7	20.2	9.2	44	0.2	11.4	5.3	271	1.99	5.1	0.5	3.1	2.8	20	<0.1	0.3	0.2	49	0.18	0.036
104844	Soil			0.9	26.7	8.0	87	<0.1	11.7	7.4	442	2.66	5.5	0.6	1.2	3.4	22	<0.1	0.4	0.2	53	0.25	0.062
104845	Soil			0.2	23.4	1.9	92	<0.1	5.5	8.4	1023	3.44	1.5	0.8	1.3	6.0	22	<0.1	0.2	<0.1	70	0.44	0.095
104846	Soil			0.2	35.6	5.1	70	<0.1	12.6	11.6	466	2.75	1.4	0.5	1.7	2.7	32	<0.1	0.1	<0.1	43	0.45	0.071
104847	Soil			0.3	142.4	3.5	38	0.3	5.5	5.2	494	1.95	2.0	1.0	4.5	7.2	40	<0.1	0.2	0.1	30	0.57	0.074
104848	Soil			0.4	11.5	5.8	91	<0.1	12.1	16.1	599	3.20	4.2	0.2	<0.5	1.5	26	<0.1	0.2	<0.1	105	0.27	0.039
104849	Soil			0.6	13.2	7.1	73	<0.1	14.9	8.5	292	2.32	5.5	0.3	6.3	2.4	17	<0.1	0.3	0.2	58	0.23	0.068
104850	Soil			0.7	23.8	7.3	55	0.1	19.4	8.7	540	2.53	8.8	0.6	8.4	4.0	19	<0.1	0.4	0.2	57	0.23	0.038
104851	Soil			0.8	17.8	7.8	63	0.1	19.8	9.1	575	2.50	8.6	0.4	1.6	3.4	20	<0.1	0.4	0.2	56	0.23	0.056
104852	Soil			0.3	30.1	3.9	159	<0.1	11.5	21.4	953	4.48	4.3	0.3	1.0	1.1	95	<0.1	0.2	<0.1	164	0.62	0.108
104853	Soil			0.1	13.6	3.2	96	<0.1	12.6	21.8	1466	3.37	2.3	0.3	12.1	0.9	37	<0.1	0.2	<0.1	79	3.33	0.086
104854	Soil			0.3	26.2	2.8	105	<0.1	16.4	17.3	1037	2.31	5.6	0.3	3.8	3.3	17	<0.1	0.2	<0.1	72	0.72	0.081
104855	Soil			0.4	18.9	3.8	87	<0.1	17.0	14.4	596	2.48	6.8	0.4	<0.5	3.3	16	<0.1	0.3	<0.1	77	0.42	0.064
104856	Soil			1.3	25.1	7.4	127	<0.1	12.6	10.1	402	3.50	6.9	0.8	1.4	5.5	118	<0.1	1.0	<0.1	82	0.50	0.068
104857	Soil			1.0	23.6	7.1	110	<0.1	17.3	14.5	495	3.82	6.0	0.7	<0.5	4.8	22	<0.1	0.9	0.1	68	0.36	0.059
104858	Soil			1.0	43.3	10.8	68	<0.1	3.9	12.8	710	2.83	8.6	0.7	<0.5	9.2	17	0.1	11.9	0.1	40	0.87	0.086
104859	Soil			0.9	21.7	11.4	98	<0.1	19.2	9.6	323	3.01	9.6	1.7	1.0	25.4	41	<0.1	0.7	0.1	64	0.29	0.031
104860	Soil			0.4	59.2	4.7	161	<0.1	11.4	15.4	475	4.79	6.9	0.9	9.2	4.4	31	<0.1	1.3	<0.1	91	0.62	0.151
104861	Soil			0.7	46.6	11.1	135	<0.1	23.4	17.0	677	3.96	8.0	1.5	5.3	10.8	95	0.2	2.1	0.4	70	0.73	0.068
104862	Soil			0.8	33.2	9.2	93	0.1	15.0	8.3	401	2.74	5.8	1.5	6.1	11.9	31	0.2	1.0	0.1	43	0.37	0.053
104863	Soil			0.7	19.1	8.2	47	0.1	19.7	10.9	619	2.55	9.4	0.5	3.1	3.8	26	<0.1	0.5	0.2	61	0.41	0.033
104864	Soil			1.1	32.0	11.5	119	<0.1	13.6	12.1	636	3.58	7.2	1.7	<0.5	16.5	27	<0.1	1.0	0.4	51	0.51	0.064
104865	Soil			0.5	28.0	6.2	68	<0.1	14.4	7.0	311	2.01	6.0	0.6	4.6	8.7	26	<0.1	0.5	<0.1	42	0.35	0.041
104866	Soil			0.6	28.3	10.6	91	<0.1	11.6	9.2	325	2.73	5.4	1.5	5.0	23.1	53	<0.1	0.6	<0.1	42	0.47	0.057
104867	Soil			0.6	30.4	14.2	105	<0.1	11.9	10.3	547	2.99	5.1	2.1	5.2	25.9	26	<0.1	0.6	<0.1	40	0.37	0.087
104868	Soil			0.5	22.9	16.0	126	<0.1	10.5	11.8	592	3.25	6.4	2.4	6.9	25.4	78	<0.1	0.7	<0.1	41	0.54	0.074
104869	Soil			0.7	12.1	13.6	116	<0.1	10.6	13.7	716	3.77	4.3	1.5	<0.5	24.7	29	<0.1	0.4	<0.1	48	0.42	0.098
104870	Soil			1.1	20.4	12.3	91	<0.1	15.2	8.5	399	2.64	8.3	1.2	1.0	10.6	41	0.1	1.1	<0.1	52	0.42	0.055
104871	Soil			0.9	32.0	14.3	55	0.2	27.8	9.9	310	2.60	13.3	0.6	12.6	5.7	30	0.1	0.7	0.1	59	0.45	0.046
104872	Soil			0.7	31.8	8.3	54	0.1	23.9	9.3	270	2.74	11.6	0.8	6.3	7.3	28	<0.1	0.7	0.1	66	0.43	0.045

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Page: 9 of 12 Part 2

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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
104843	Soil	10	20	0.44	142	0.086	1	1.25	0.010	0.12	0.2	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
104844	Soil	10	19	0.62	154	0.116	<1	1.70	0.008	0.33	0.1	0.01	2.3	0.2	<0.05	7	0.5	<0.2
104845	Soil	16	9	1.45	117	0.284	<1	1.97	0.008	0.75	<0.1	<0.01	5.2	0.3	<0.05	8	<0.5	<0.2
104846	Soil	8	26	1.46	141	0.168	<1	2.01	0.009	0.47	<0.1	<0.01	3.3	0.3	<0.05	7	<0.5	<0.2
104847	Soil	22	9	0.59	86	0.152	<1	1.57	0.004	0.25	<0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
104848	Soil	4	19	1.53	232	0.205	<1	2.13	0.011	0.84	<0.1	0.01	3.1	0.2	<0.05	7	<0.5	<0.2
104849	Soil	6	24	0.59	172	0.071	2	1.49	0.006	0.11	0.1	0.02	2.8	<0.1	<0.05	5	0.6	<0.2
104850	Soil	10	32	0.50	201	0.067	<1	1.54	0.007	0.09	0.1	0.03	4.5	<0.1	<0.05	5	0.8	<0.2
104851	Soil	8	30	0.50	224	0.062	<1	1.74	0.006	0.13	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
104852	Soil	6	12	2.25	331	0.275	<1	2.93	0.010	0.94	0.2	0.01	8.4	0.2	<0.05	11	<0.5	<0.2
104853	Soil	2	10	2.09	160	0.216	<1	2.12	0.008	0.98	<0.1	0.03	5.5	0.5	<0.05	6	<0.5	<0.2
104854	Soil	11	15	1.50	284	0.144	<1	1.62	0.008	0.19	0.1	0.03	14.8	0.1	<0.05	7	<0.5	<0.2
104855	Soil	10	22	1.47	163	0.178	<1	1.84	0.007	0.52	0.2	0.01	11.1	0.2	<0.05	7	<0.5	<0.2
104856	Soil	15	27	1.07	207	0.094	<1	2.35	0.010	0.03	0.2	0.02	3.6	<0.1	<0.05	10	0.5	<0.2
104857	Soil	17	23	1.44	348	0.064	<1	2.41	0.006	0.21	0.3	0.03	5.0	0.2	<0.05	8	<0.5	<0.2
104858	Soil	22	5	0.77	331	0.027	3	1.61	0.007	0.38	0.2	0.43	3.7	0.3	<0.05	5	0.9	<0.2
104859	Soil	24	33	0.66	157	0.108	<1	1.87	0.010	0.10	0.2	0.04	4.7	<0.1	<0.05	8	0.7	<0.2
104860	Soil	20	14	1.72	390	0.130	1	2.59	0.008	0.51	0.3	0.04	6.8	0.4	<0.05	10	<0.5	<0.2
104861	Soil	32	26	1.29	303	0.153	<1	2.27	0.009	0.18	0.2	0.15	3.7	0.1	<0.05	10	0.5	<0.2
104862	Soil	33	18	0.56	127	0.094	1	1.44	0.009	0.22	0.1	0.05	3.4	0.1	<0.05	7	0.6	<0.2
104863	Soil	12	29	0.50	343	0.069	<1	1.48	0.014	0.06	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
104864	Soil	21	19	0.92	214	0.102	<1	1.68	0.008	0.22	0.4	0.03	4.9	<0.1	<0.05	10	0.6	<0.2
104865	Soil	16	17	0.56	125	0.098	<1	1.06	0.013	0.20	0.2	0.05	2.5	0.2	<0.05	4	<0.5	<0.2
104866	Soil	37	17	0.68	172	0.114	<1	1.52	0.009	0.29	0.4	0.05	3.3	0.2	<0.05	7	<0.5	<0.2
104867	Soil	47	15	0.72	175	0.098	<1	1.64	0.007	0.55	0.4	0.06	2.8	0.4	<0.05	8	<0.5	<0.2
104868	Soil	64	16	0.67	141	0.108	<1	1.74	0.010	0.20	0.3	0.07	3.7	0.2	<0.05	9	<0.5	<0.2
104869	Soil	36	16	0.88	186	0.173	<1	2.22	0.008	1.00	0.5	0.04	2.1	0.6	<0.05	10	<0.5	<0.2
104870	Soil	29	25	0.52	167	0.037	<1	1.84	0.006	0.17	0.5	0.04	4.2	<0.1	<0.05	8	0.6	<0.2
104871	Soil	18	36	0.49	205	0.074	<1	1.40	0.011	0.10	0.2	0.09	4.7	<0.1	<0.05	4	<0.5	<0.2
104872	Soil	18	33	0.48	169	0.076	<1	1.29	0.011	0.09	0.3	0.05	4.4	<0.1	<0.05	5	0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000769.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
104873	Soil		0.9	27.8	9.8	54	0.2	24.5	10.5	419	2.72	10.4	0.9	2.3	5.7	28	0.1	0.7	0.1	65	0.42	0.037
104874	Soil		1.3	48.4	10.2	67	0.4	30.4	12.2	494	2.99	11.3	0.9	7.1	6.6	33	0.2	1.0	0.2	68	0.55	0.027
104875	Soil		1.2	39.5	8.5	57	0.3	21.4	7.5	328	2.21	9.3	1.1	6.6	12.3	20	<0.1	1.2	0.2	42	0.33	0.033
104876	Soil		1.3	40.5	7.8	57	0.1	26.8	10.1	372	2.24	11.9	0.9	17.5	3.6	156	0.3	1.0	0.1	53	7.14	0.041
104877	Soil		0.8	35.4	8.2	53	0.2	24.0	8.3	355	1.95	7.8	0.7	5.1	3.5	193	0.3	0.7	0.1	43	7.06	0.062
104878	Soil		2.0	39.3	18.6	82	0.6	16.2	8.7	587	2.65	6.5	1.1	20.9	5.8	90	0.1	1.0	<0.1	44	8.01	0.078
104879	Soil		5.8	31.1	13.6	75	0.8	16.5	11.4	725	2.93	7.7	1.6	19.8	8.1	22	<0.1	5.5	0.1	38	0.47	0.057
104880	Soil		3.2	21.7	14.0	59	0.7	15.4	9.5	825	2.80	5.3	1.0	9.3	5.8	21	0.1	1.9	0.2	49	0.44	0.032
104881	Soil		1.0	32.1	9.7	76	0.2	25.6	10.8	493	2.61	9.4	0.6	11.5	4.0	43	0.3	0.9	0.1	49	1.45	0.068
104882	Soil		0.8	33.9	10.0	70	0.2	24.5	9.1	440	2.61	9.0	0.8	4.5	3.4	41	0.3	0.8	0.2	49	1.13	0.053
104883	Soil		0.7	26.5	9.2	64	0.1	21.9	10.8	471	2.91	10.0	0.7	7.8	6.0	30	<0.1	0.7	0.1	61	0.52	0.036
104884	Soil		0.7	56.4	8.7	67	2.0	24.7	13.4	457	2.64	5.2	0.7	208.0	1.5	110	0.2	0.8	<0.1	66	7.96	0.056
104885	Soil		0.7	47.0	8.1	67	0.5	30.4	12.8	438	2.91	6.3	1.2	29.2	3.9	65	0.2	0.7	0.2	67	1.09	0.067
104886	Soil		0.9	62.9	10.7	88	0.2	20.5	20.1	620	3.90	7.8	2.9	13.6	2.8	99	0.1	1.2	0.1	98	1.13	0.078
104888	Soil		0.4	12.4	4.2	45	<0.1	10.3	7.4	292	1.80	3.0	0.8	1.9	4.2	25	<0.1	0.2	<0.1	39	0.44	0.068
104889	Soil		4.0	31.6	12.0	79	0.7	19.2	13.0	589	3.15	6.9	3.1	24.9	9.3	34	0.1	3.3	0.2	57	0.66	0.073
104890	Soil		1.2	29.1	11.2	71	0.6	22.2	11.1	325	3.23	9.0	1.7	22.6	14.8	28	<0.1	3.0	0.1	61	0.41	0.036
104891	Soil		1.3	29.0	11.1	66	1.0	20.0	10.3	364	3.08	8.8	1.8	20.2	16.0	27	<0.1	2.9	0.1	54	0.37	0.034
104892	Soil		1.2	19.0	11.8	42	4.1	17.8	8.9	210	2.76	8.4	0.6	1.8	5.4	14	0.1	1.5	0.2	63	0.12	0.023
104893	Soil		1.2	9.1	23.6	85	0.2	10.4	7.7	435	2.69	5.1	0.5	1.8	8.5	10	0.2	2.1	0.1	56	0.09	0.024
104894	Soil		1.0	11.8	10.5	56	0.2	12.5	7.4	310	2.56	7.1	0.6	1.6	5.4	18	0.1	1.5	0.1	49	0.37	0.023
104895	Soil		0.5	31.6	11.8	65	0.2	24.6	11.5	453	2.78	9.8	0.6	3.0	4.9	38	0.1	2.1	0.1	59	0.64	0.053
104896	Soil		0.3	44.6	7.6	152	0.2	21.6	20.0	993	4.88	5.4	0.8	3.6	5.0	77	0.1	2.5	0.2	97	1.33	0.176
104897	Soil		0.6	50.8	11.3	65	0.2	48.8	13.6	474	3.08	11.8	0.8	10.8	4.7	70	0.1	3.0	0.1	75	1.91	0.089
104898	Soil		0.7	32.9	10.9	56	0.6	25.4	10.6	398	2.73	9.1	1.4	4.5	9.9	32	0.1	1.3	0.1	60	0.46	0.029
104899	Soil		0.6	49.8	9.7	93	0.3	21.7	12.9	393	3.14	5.9	1.5	4.3	6.6	46	0.2	2.5	0.2	64	1.28	0.086
104900	Soil		0.8	38.0	15.8	87	0.4	23.4	13.6	574	3.36	7.6	1.2	5.6	11.6	33	0.2	3.3	0.2	64	0.72	0.057
104901	Soil		4.1	26.3	23.5	65	1.8	16.5	8.4	365	2.68	6.9	1.7	9.8	16.8	24	<0.1	4.4	0.2	41	0.39	0.026
104902	Soil		3.7	33.9	20.2	53	1.6	19.8	9.2	481	2.39	6.8	1.5	20.0	12.7	29	0.1	4.5	0.2	44	0.42	0.026
104903	Soil		1.4	24.6	12.7	56	1.4	19.0	8.3	228	2.67	7.5	0.7	4.3	8.2	26	<0.1	1.4	0.2	57	0.33	0.029

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
104873	Soil	19	35	0.48	189	0.076	<1	1.58	0.012	0.08	0.2	0.08	5.1	<0.1	<0.05	5	<0.5	<0.2
104874	Soil	22	37	0.58	284	0.085	2	1.83	0.016	0.10	0.1	0.18	5.5	<0.1	<0.05	6	0.7	<0.2
104875	Soil	23	23	0.47	138	0.049	1	1.33	0.013	0.10	0.1	0.14	3.8	<0.1	<0.05	4	0.5	<0.2
104876	Soil	15	24	0.81	263	0.057	2	1.39	0.025	0.08	0.2	0.06	3.2	<0.1	<0.05	4	0.6	<0.2
104877	Soil	14	22	0.84	298	0.057	2	1.00	0.025	0.08	0.2	0.08	2.9	<0.1	<0.05	3	0.7	<0.2
104878	Soil	32	14	0.53	360	0.023	2	0.98	0.010	0.06	0.4	0.14	4.0	<0.1	<0.05	4	0.7	<0.2
104879	Soil	28	17	0.30	455	0.019	6	1.08	0.010	0.16	0.3	0.21	5.2	<0.1	<0.05	3	1.1	<0.2
104880	Soil	27	22	0.32	324	0.035	1	1.54	0.009	0.12	0.2	0.12	5.1	<0.1	<0.05	5	0.8	<0.2
104881	Soil	14	25	0.70	358	0.070	2	1.36	0.024	0.09	0.2	0.05	3.6	<0.1	<0.05	4	0.7	<0.2
104882	Soil	14	27	0.61	340	0.066	1	1.49	0.024	0.07	0.2	0.06	3.6	<0.1	<0.05	5	0.8	<0.2
104883	Soil	19	28	0.65	240	0.084	1	1.65	0.016	0.11	0.6	0.04	4.4	<0.1	<0.05	6	<0.5	<0.2
104884	Soil	7	31	1.23	213	0.083	1	1.44	0.016	0.07	12.1	0.19	4.3	<0.1	<0.05	6	0.5	0.6
104885	Soil	15	37	0.91	410	0.100	3	1.73	0.023	0.10	3.8	0.03	4.7	<0.1	<0.05	6	0.6	<0.2
104886	Soil	9	30	1.12	149	0.180	2	2.29	0.037	0.16	1.1	0.08	6.6	<0.1	<0.05	8	<0.5	<0.2
104888	Soil	10	15	0.48	133	0.085	<1	1.01	0.014	0.18	0.3	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
104889	Soil	30	28	0.50	852	0.036	3	1.64	0.014	0.08	0.1	0.24	6.0	<0.1	<0.05	5	<0.5	<0.2
104890	Soil	109	47	0.52	803	0.044	2	2.02	0.012	0.09	<0.1	0.15	5.9	0.1	<0.05	6	<0.5	<0.2
104891	Soil	91	39	0.46	808	0.036	2	1.83	0.011	0.09	0.1	0.16	6.1	<0.1	<0.05	5	<0.5	<0.2
104892	Soil	12	33	0.39	263	0.052	1	2.10	0.008	0.05	0.1	0.09	2.2	<0.1	<0.05	6	<0.5	<0.2
104893	Soil	10	19	0.35	264	0.029	1	1.42	0.007	0.07	0.2	0.13	1.9	<0.1	<0.05	6	<0.5	<0.2
104894	Soil	10	22	0.38	279	0.033	1	1.49	0.007	0.12	0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
104895	Soil	18	28	0.64	413	0.064	2	1.53	0.022	0.07	0.1	0.19	4.5	<0.1	<0.05	5	<0.5	<0.2
104896	Soil	20	42	2.21	450	0.132	1	2.70	0.008	0.28	<0.1	0.10	5.7	0.1	<0.05	10	<0.5	<0.2
104897	Soil	23	77	0.94	503	0.079	2	1.54	0.024	0.07	0.2	0.27	4.7	<0.1	<0.05	5	<0.5	<0.2
104898	Soil	62	35	0.52	529	0.075	1	1.66	0.019	0.07	0.1	0.14	5.5	<0.1	<0.05	5	<0.5	<0.2
104899	Soil	29	39	0.76	367	0.049	3	1.47	0.018	0.12	0.3	0.22	6.8	<0.1	<0.05	6	0.8	<0.2
104900	Soil	33	39	0.77	350	0.039	<1	1.63	0.016	0.07	0.2	0.21	5.9	<0.1	<0.05	7	<0.5	<0.2
104901	Soil	36	23	0.38	403	0.032	2	1.20	0.011	0.09	0.2	0.21	4.2	<0.1	<0.05	4	<0.5	<0.2
104902	Soil	28	25	0.39	525	0.054	2	1.24	0.020	0.08	0.1	0.23	4.2	<0.1	<0.05	3	<0.5	<0.2
104903	Soil	22	33	0.44	415	0.069	<1	1.68	0.016	0.07	0.2	0.11	4.0	<0.1	<0.05	5	0.6	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 11 of 12 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	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	
104904	Soil	1.4	30.1	13.4	64	0.4	24.2	10.7	351	2.88	8.8	0.8	6.7	9.2	35	<0.1	1.4	0.2	59	0.56	0.027
104905	Soil	0.7	40.6	13.0	67	0.3	25.9	11.9	571	2.90	9.0	0.8	3.7	6.4	32	0.2	1.3	0.2	58	0.54	0.026
104906	Soil	1.1	37.8	13.4	64	0.3	22.0	8.7	361	2.67	9.0	0.7	9.8	5.7	34	0.1	1.5	0.2	51	0.86	0.039
104907	Soil	1.9	19.8	13.8	66	0.3	15.9	17.4	2204	3.14	14.0	1.5	5.1	6.3	43	0.3	1.9	0.2	41	1.20	0.044
104908	Soil	0.9	48.0	17.4	64	0.4	26.3	9.1	374	2.63	8.1	1.8	18.2	5.8	44	0.1	2.4	0.3	54	1.05	0.082
104909	Soil	0.8	41.2	11.2	79	0.1	21.2	11.4	490	3.24	7.5	0.9	5.2	8.0	35	<0.1	0.8	0.5	58	0.50	0.036
104910	Soil	1.0	26.3	14.5	124	<0.1	18.8	15.7	647	4.41	6.6	2.5	0.5	31.9	32	<0.1	1.4	0.2	83	0.51	0.064
104911	Soil	0.8	23.9	18.0	81	<0.1	13.8	7.7	403	2.69	6.8	1.8	4.0	26.5	29	<0.1	1.3	0.3	45	0.46	0.047
104912	Soil	0.9	45.4	17.0	140	<0.1	29.5	16.6	858	4.52	7.7	1.9	5.2	24.4	80	0.1	1.6	0.2	98	3.23	0.116
104913	Soil	0.9	53.0	14.2	86	0.2	28.1	12.4	587	3.03	11.8	0.8	6.7	5.3	78	0.2	0.9	0.3	62	4.53	0.072
104914	Soil	1.0	56.2	21.5	69	0.1	17.8	7.6	314	2.21	7.7	0.9	7.1	7.2	22	<0.1	0.5	0.5	44	0.33	0.021
104915	Soil	0.9	16.4	9.6	70	0.2	18.9	11.1	544	2.44	4.2	0.4	6.2	3.7	25	<0.1	0.3	0.2	62	0.34	0.028
104916	Soil	0.6	28.3	13.8	93	<0.1	13.5	10.0	473	2.92	7.0	1.1	2.9	11.4	48	<0.1	0.6	0.2	70	0.43	0.034
104917	Soil	1.2	61.1	17.6	66	1.3	17.1	7.2	547	2.12	7.3	0.9	140.2	8.8	27	0.1	0.7	0.5	41	0.44	0.040
104918	Soil	0.6	32.8	8.8	106	<0.1	19.4	13.5	463	3.23	6.7	0.7	3.7	5.1	39	<0.1	0.6	0.1	69	0.56	0.079
107829	Soil	1.0	31.9	12.8	43	1.0	16.2	8.3	190	2.33	8.0	0.7	211.4	8.5	17	<0.1	0.7	0.2	45	0.23	0.016
107830	Soil	1.0	32.8	14.9	83	0.3	24.1	13.1	446	3.00	6.3	0.7	96.8	6.1	18	<0.1	1.2	0.1	40	0.45	0.030
107831	Soil	1.5	14.6	11.4	70	<0.1	20.5	8.1	279	2.71	8.8	0.5	3.0	3.5	19	<0.1	0.5	0.2	58	0.29	0.032
107832	Soil	1.0	43.5	24.0	92	<0.1	23.2	9.6	479	2.98	8.9	1.1	7.4	8.5	21	0.1	0.9	0.5	55	0.29	0.049
107833	Soil	0.7	24.9	18.8	83	0.2	19.6	8.2	289	2.67	9.7	0.9	3.2	5.5	23	0.2	1.3	0.3	55	0.63	0.050
107834	Soil	0.8	19.4	14.2	135	<0.1	14.5	13.4	567	3.69	8.8	0.8	1.2	5.9	105	0.2	1.1	0.1	64	0.61	0.088
107835	Soil	1.2	13.0	9.3	62	<0.1	22.2	10.3	336	2.67	6.1	0.4	7.7	3.7	26	<0.1	0.6	0.1	61	0.33	0.038
107836	Soil	0.9	42.5	14.2	126	<0.1	30.2	17.6	638	4.68	5.8	1.5	10.5	9.6	104	<0.1	1.9	0.2	106	0.81	0.058
107837	Soil	0.8	38.5	10.6	72	0.1	27.9	10.8	311	3.14	6.4	0.9	5.8	10.7	33	<0.1	1.1	0.1	69	0.39	0.022
107838	Soil	0.7	10.5	7.3	52	<0.1	10.4	6.1	139	2.15	4.1	0.5	2.5	6.5	19	<0.1	1.1	<0.1	35	0.24	0.017
107839	Soil	1.3	21.0	9.7	83	0.2	17.0	9.4	384	3.21	4.9	0.9	2.1	16.4	19	<0.1	1.9	0.1	49	0.18	0.035
107840	Soil	1.1	22.9	9.9	71	0.1	25.2	10.8	460	3.02	8.1	0.6	1.2	11.4	26	<0.1	0.9	0.1	61	0.21	0.033
107841	Soil	0.8	22.7	10.2	67	0.1	21.0	9.3	353	2.98	7.3	0.9	4.0	7.8	23	0.1	0.8	0.2	60	0.24	0.020
107842	Soil	1.1	22.0	8.6	61	<0.1	18.6	9.1	323	2.67	6.1	0.6	9.6	5.2	22	<0.1	0.9	0.1	56	0.35	0.034
107843	Soil	1.1	52.9	43.0	142	0.2	16.4	11.3	583	3.90	5.4	1.3	7.3	9.5	26	0.2	3.3	2.2	60	0.37	0.017

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	0.01	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
104904	Soil	22	34	0.53	496	0.081	2	1.82	0.022	0.07	0.2	0.09	4.8	<0.1	<0.05	5	<0.5	<0.2
104905	Soil	18	31	0.52	452	0.071	<1	1.60	0.021	0.08	0.1	0.06	4.8	<0.1	<0.05	5	<0.5	<0.2
104906	Soil	21	27	0.45	562	0.045	2	1.48	0.020	0.07	0.2	0.09	4.0	<0.1	<0.05	4	0.5	<0.2
104907	Soil	18	18	0.31	544	0.025	3	1.00	0.013	0.09	0.2	0.05	3.2	<0.1	<0.05	3	<0.5	<0.2
104908	Soil	27	38	0.60	585	0.065	2	1.40	0.020	0.09	0.4	0.14	4.2	<0.1	<0.05	4	<0.5	<0.2
104909	Soil	21	29	0.88	295	0.109	<1	1.71	0.020	0.16	0.2	0.04	4.0	0.1	<0.05	7	<0.5	<0.2
104910	Soil	61	30	1.00	266	0.078	<1	2.27	0.008	0.32	0.1	0.01	6.2	0.2	<0.05	12	<0.5	<0.2
104911	Soil	39	22	0.59	154	0.024	<1	1.58	0.009	0.09	0.2	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
104912	Soil	66	68	1.37	222	0.032	<1	2.07	0.011	0.09	0.4	0.06	8.6	<0.1	<0.05	10	<0.5	<0.2
104913	Soil	20	33	1.04	434	0.079	<1	1.69	0.022	0.16	0.2	0.08	5.0	0.1	<0.05	6	0.6	<0.2
104914	Soil	34	27	0.51	366	0.060	<1	1.52	0.011	0.08	0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
104915	Soil	9	29	0.63	379	0.114	<1	1.71	0.011	0.23	0.1	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2
104916	Soil	31	24	1.01	187	0.145	<1	2.36	0.011	0.14	0.2	0.01	6.0	0.1	<0.05	8	<0.5	<0.2
104917	Soil	21	21	0.42	296	0.010	<1	1.77	0.005	0.11	0.5	0.13	5.5	<0.1	<0.05	5	<0.5	0.4
104918	Soil	9	33	1.04	221	0.164	<1	1.98	0.010	0.56	0.2	<0.01	3.6	0.2	<0.05	7	<0.5	<0.2
107829	Soil	17	28	0.40	247	0.044	<1	1.59	0.008	0.12	5.2	0.09	3.0	<0.1	<0.05	4	<0.5	0.4
107830	Soil	27	17	0.17	305	0.007	<1	0.84	0.006	0.11	3.0	0.21	3.1	<0.1	<0.05	2	0.6	<0.2
107831	Soil	10	36	0.47	222	0.068	<1	1.71	0.009	0.13	0.2	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
107832	Soil	26	35	0.59	157	0.050	<1	1.53	0.014	0.08	0.3	0.04	5.3	<0.1	<0.05	6	<0.5	<0.2
107833	Soil	21	34	0.53	154	0.058	1	1.60	0.011	0.18	0.3	0.06	4.1	<0.1	<0.05	5	<0.5	<0.2
107834	Soil	9	21	0.75	286	0.153	<1	2.19	0.010	0.10	0.4	0.02	3.7	<0.1	<0.05	10	<0.5	<0.2
107835	Soil	8	55	0.63	230	0.084	<1	1.72	0.009	0.11	0.2	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
107836	Soil	25	51	1.19	322	0.145	1	3.10	0.012	0.16	0.1	0.06	9.5	0.1	<0.05	12	<0.5	<0.2
107837	Soil	25	54	0.67	280	0.077	<1	1.96	0.012	0.06	0.1	0.05	6.2	<0.1	<0.05	6	<0.5	<0.2
107838	Soil	15	18	0.41	273	0.012	2	1.47	0.005	0.13	0.2	0.01	2.4	0.1	<0.05	4	<0.5	<0.2
107839	Soil	9	30	0.57	264	0.036	2	2.04	0.006	0.11	0.2	1.36	3.3	0.1	<0.05	7	<0.5	<0.2
107840	Soil	11	36	0.50	375	0.079	<1	2.29	0.008	0.08	0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
107841	Soil	14	35	0.61	262	0.066	1	2.03	0.008	0.11	0.2	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
107842	Soil	8	29	0.65	266	0.070	<1	1.72	0.010	0.10	0.2	0.04	3.0	<0.1	<0.05	6	<0.5	<0.2
107843	Soil	26	26	0.73	425	0.038	<1	2.42	0.008	0.17	0.1	0.52	6.3	0.2	<0.05	7	0.5	<0.2

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Project: Rosebute  
 Report Date: August 18, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
107844	Soil	1.4	45.6	13.6	69	0.1	17.7	11.1	317	3.12	7.3	1.4	20.6	20.1	33	<0.1	2.3	0.7	48	0.34	0.019
107845	Soil	1.1	39.6	14.4	87	<0.1	12.7	10.6	333	3.29	3.5	2.0	12.4	26.0	58	<0.1	1.1	<0.1	39	0.35	0.030
107846	Soil	1.6	30.9	21.1	125	<0.1	17.6	12.9	798	4.96	7.6	4.6	5.6	42.1	17	<0.1	1.2	0.2	58	0.24	0.093
107847	Soil	2.2	30.5	11.1	65	<0.1	24.2	9.7	414	3.07	7.3	1.6	5.3	13.9	24	<0.1	0.9	0.2	61	0.33	0.052
107848	Soil	1.5	37.5	13.8	72	0.2	25.5	11.7	554	3.28	7.5	1.7	10.6	12.4	30	<0.1	1.3	0.3	63	0.46	0.035
107849	Soil	2.1	31.3	9.1	80	0.1	20.5	9.3	551	2.93	5.9	1.7	4.9	10.5	26	0.1	1.0	0.2	48	0.51	0.043
107850	Soil	1.5	37.1	12.6	69	0.2	25.7	10.4	446	2.98	7.2	1.0	6.3	8.1	30	0.1	0.9	0.2	58	0.49	0.040
107851	Soil	1.0	28.4	17.8	79	<0.1	25.1	8.0	699	2.93	5.6	2.7	10.1	16.0	21	<0.1	0.9	0.2	43	0.36	0.030
107852	Soil	1.0	25.7	9.8	73	<0.1	18.7	14.8	743	3.76	6.3	2.6	6.4	13.4	40	<0.1	0.9	0.1	61	0.61	0.073
107853	Soil	1.2	32.7	12.2	65	<0.1	26.6	11.6	565	3.02	8.1	1.0	3.5	6.9	29	<0.1	0.6	0.2	61	0.44	0.047
107854	Soil	1.0	30.6	12.0	69	<0.1	20.8	9.7	472	3.08	6.1	1.6	3.0	7.1	29	<0.1	0.6	0.2	63	0.46	0.031
107855	Soil	1.0	22.0	12.1	72	<0.1	17.6	11.8	572	2.79	3.2	0.8	4.6	7.8	25	<0.1	0.6	0.2	53	0.40	0.031
107856	Soil	1.1	33.3	14.6	82	0.1	23.6	11.6	479	3.23	5.1	0.9	7.9	7.5	32	<0.1	0.6	0.2	60	0.47	0.028
107857	Soil	0.8	34.5	8.9	60	0.1	25.3	9.6	362	2.58	6.4	1.0	2.9	4.2	39	0.1	0.7	0.1	54	0.69	0.048
107858	Soil	0.8	35.7	9.4	68	0.1	26.8	10.2	368	2.84	8.3	0.6	9.8	4.9	35	0.1	0.8	0.1	56	0.65	0.053
107859	Soil	1.1	28.7	8.9	53	0.1	25.9	11.3	410	2.75	9.4	1.1	4.0	4.6	36	<0.1	0.5	0.2	63	0.59	0.056
114101	Soil	1.0	41.3	18.9	89	0.8	22.3	9.4	287	3.04	7.0	1.0	17.3	7.5	23	0.2	4.1	0.2	55	0.45	0.031
114102	Soil	1.0	34.5	10.1	78	0.3	28.1	11.7	440	3.25	10.0	0.7	15.9	4.8	27	0.1	1.7	0.1	70	0.60	0.054
114103	Soil	0.3	22.0	12.9	110	0.1	12.6	14.4	909	3.41	2.2	0.8	12.8	7.4	25	0.2	2.7	0.2	68	0.77	0.115



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Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000769.1

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	
107844	Soil	20	27	0.59	234	0.068	<1	2.01	0.008	0.13	0.1	0.22	4.2	<0.1	<0.05	7	<0.5	<0.2
107845	Soil	55	18	0.68	148	0.133	<1	2.00	0.007	0.12	0.1	0.04	5.9	<0.1	<0.05	8	<0.5	<0.2
107846	Soil	89	19	0.41	149	0.044	2	1.61	0.006	0.21	0.3	0.05	9.2	0.1	<0.05	8	<0.5	<0.2
107847	Soil	32	41	0.50	183	0.075	1	1.44	0.014	0.10	0.3	0.04	6.5	<0.1	<0.05	5	<0.5	<0.2
107848	Soil	32	40	0.53	334	0.075	<1	1.93	0.015	0.08	0.2	0.06	6.6	<0.1	<0.05	6	0.9	<0.2
107849	Soil	26	27	0.68	427	0.070	<1	1.78	0.015	0.11	0.2	0.07	4.6	<0.1	<0.05	6	<0.5	<0.2
107850	Soil	26	38	0.51	316	0.081	<1	1.89	0.016	0.07	0.2	0.07	5.4	<0.1	<0.05	6	<0.5	<0.2
107851	Soil	34	22	0.50	220	0.050	<1	1.87	0.011	0.11	0.2	0.05	6.2	<0.1	<0.05	8	<0.5	<0.2
107852	Soil	34	26	0.88	157	0.039	1	1.93	0.012	0.08	0.2	0.04	6.4	<0.1	<0.05	8	<0.5	<0.2
107853	Soil	20	37	0.64	265	0.074	<1	1.74	0.018	0.07	0.2	0.04	5.3	<0.1	<0.05	5	<0.5	<0.2
107854	Soil	23	36	0.63	267	0.087	<1	1.87	0.017	0.07	0.2	0.04	5.4	<0.1	<0.05	6	<0.5	<0.2
107855	Soil	20	28	0.61	207	0.087	<1	1.73	0.012	0.11	0.2	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
107856	Soil	23	37	0.67	288	0.109	<1	2.30	0.016	0.16	0.2	0.04	5.4	0.1	<0.05	7	<0.5	<0.2
107857	Soil	17	31	0.58	329	0.083	<1	1.64	0.021	0.09	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
107858	Soil	18	34	0.61	303	0.089	1	1.73	0.023	0.09	0.3	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
107859	Soil	15	34	0.56	292	0.085	1	1.69	0.019	0.07	0.2	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
114101	Soil	24	32	0.39	584	0.052	2	1.81	0.012	0.09	0.3	0.23	5.8	<0.1	<0.05	5	<0.5	<0.2
114102	Soil	23	37	0.64	530	0.055	2	1.85	0.018	0.07	0.2	0.24	6.3	<0.1	<0.05	6	<0.5	<0.2
114103	Soil	34	25	0.92	682	0.011	2	1.98	0.005	0.20	0.2	0.10	8.2	0.1	<0.05	8	<0.5	<0.2



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Project: Rosebute  
 Report Date: August 18, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000769.1

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
106115	Soil			1.4	21.3	14.7	84	0.2	24.0	11.7	567	3.18	9.0	1.2	17.5	14.0	27	0.1	1.0	0.3	68	0.34	0.032
REP 106115	QC			1.6	21.7	14.3	81	0.1	23.6	11.8	571	3.17	8.4	1.2	2.4	13.3	28	0.1	0.9	0.3	70	0.36	0.032
106121	Soil			1.7	39.3	25.2	129	0.1	23.9	13.0	547	4.07	9.5	1.0	9.2	11.8	36	<0.1	1.3	0.3	67	0.36	0.035
REP 106121	QC			1.8	38.5	25.2	125	<0.1	25.2	13.0	531	3.92	8.9	1.0	7.6	11.8	35	0.1	1.4	0.3	64	0.36	0.036
116766	Soil			0.3	24.3	4.3	99	<0.1	17.3	14.5	534	3.12	3.9	0.3	4.1	1.8	44	<0.1	0.2	<0.1	68	0.42	0.090
REP 116766	QC			0.3	23.6	4.3	97	<0.1	17.2	13.8	523	2.98	3.9	0.3	1.9	1.8	44	<0.1	0.2	<0.1	66	0.43	0.084
116780	Soil			0.6	20.0	6.6	153	<0.1	19.2	13.9	501	3.83	7.1	0.4	0.8	4.4	41	<0.1	0.3	<0.1	91	0.32	0.084
REP 116780	QC			0.6	20.7	6.6	158	<0.1	20.0	14.1	504	3.86	7.3	0.5	2.2	4.6	42	<0.1	0.3	<0.1	93	0.31	0.086
116796	Soil			1.1	17.3	27.8	79	0.2	11.2	7.3	351	2.31	8.6	0.6	3.5	4.1	23	0.1	0.6	0.2	44	0.19	0.021
REP 116796	QC			0.9	17.0	27.9	79	0.2	11.2	7.3	346	2.36	8.5	0.7	3.1	4.2	24	<0.1	0.4	0.2	44	0.20	0.022
116814	Soil			1.7	35.9	13.4	63	0.2	21.5	10.8	608	2.86	7.4	2.4	6.7	8.7	36	0.1	1.4	0.2	52	0.56	0.051
REP 116814	QC			1.7	35.2	12.9	61	0.2	20.6	10.3	595	2.84	7.3	2.4	6.4	8.6	35	0.2	1.3	0.2	51	0.53	0.046
117934	Soil			0.1	3.7	1.3	79	<0.1	7.5	26.0	921	3.56	1.1	0.2	1.4	1.2	34	<0.1	0.1	<0.1	169	0.48	0.063
REP 117934	QC			0.2	3.9	1.3	83	<0.1	8.1	27.0	919	3.74	1.2	0.2	2.1	1.3	36	<0.1	0.1	<0.1	180	0.49	0.063
103866	Soil			0.8	6.7	7.6	55	<0.1	6.5	8.5	349	1.75	1.9	0.2	1.3	1.0	18	<0.1	0.1	<0.1	52	0.21	0.040
REP 103866	QC			0.8	6.5	8.1	57	<0.1	7.2	8.5	356	1.75	1.8	0.2	1.3	1.0	17	<0.1	0.1	<0.1	53	0.21	0.039
103885	Soil			0.6	51.5	6.7	72	<0.1	13.7	8.9	478	2.67	7.1	0.3	<0.5	2.0	16	<0.1	0.3	<0.1	63	0.23	0.052
REP 103885	QC			0.6	50.5	6.5	70	<0.1	13.5	8.8	474	2.63	7.0	0.3	0.6	1.9	15	<0.1	0.3	<0.1	62	0.21	0.050
103908	Soil			0.4	13.1	10.8	112	<0.1	6.5	5.3	155	1.68	3.8	0.8	3.6	4.6	20	0.1	0.6	0.1	28	0.19	0.030
REP 103908	QC			0.4	13.6	11.0	112	<0.1	7.0	5.3	157	1.72	4.0	0.8	5.4	4.5	21	<0.1	0.7	<0.1	28	0.21	0.030
104817	Soil			0.8	11.4	10.2	88	<0.1	17.0	10.1	490	2.86	6.5	0.3	2.8	2.5	34	0.1	0.4	0.2	66	0.20	0.084
REP 104817	QC			0.8	11.6	10.1	90	<0.1	18.7	10.4	491	2.94	7.1	0.4	2.7	2.7	35	0.1	0.5	0.2	68	0.21	0.087
104843	Soil			0.7	20.2	9.2	44	0.2	11.4	5.3	271	1.99	5.1	0.5	3.1	2.8	20	<0.1	0.3	0.2	49	0.18	0.036
REP 104843	QC			0.8	20.1	8.7	42	0.2	11.2	5.4	275	1.99	5.0	0.5	0.9	2.9	19	<0.1	0.3	0.2	48	0.18	0.037
104849	Soil			0.6	13.2	7.1	73	<0.1	14.9	8.5	292	2.32	5.5	0.3	6.3	2.4	17	<0.1	0.3	0.2	58	0.23	0.068
REP 104849	QC			0.5	13.9	7.1	76	<0.1	16.0	9.0	311	2.42	6.2	0.3	3.8	2.3	17	<0.1	0.3	0.2	61	0.24	0.072
104878	Soil			2.0	39.3	18.6	82	0.6	16.2	8.7	587	2.65	6.5	1.1	20.9	5.8	90	0.1	1.0	<0.1	44	8.01	0.078
REP 104878	QC			2.1	39.3	18.6	83	0.6	16.3	8.3	592	2.57	6.3	1.1	13.9	5.8	94	0.2	1.0	<0.1	43	7.76	0.079



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Project: Rosebute  
Report Date: August 18, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000769.1

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																		
106115	Soil	22	41	0.60	268	0.070	1	1.81	0.013	0.15	0.2	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
REP 106115	QC	22	42	0.61	271	0.075	2	1.79	0.013	0.15	0.2	0.04	5.5	<0.1	<0.05	7	<0.5	<0.2
106121	Soil	18	41	0.66	244	0.077	2	2.24	0.010	0.10	0.4	0.08	5.0	<0.1	<0.05	8	<0.5	<0.2
REP 106121	QC	17	41	0.65	240	0.071	1	2.19	0.009	0.09	0.4	0.07	4.6	<0.1	<0.05	9	<0.5	<0.2
116766	Soil	8	37	1.59	230	0.211	<1	2.44	0.008	0.73	<0.1	<0.01	1.3	0.3	<0.05	7	<0.5	<0.2
REP 116766	QC	8	37	1.55	232	0.213	<1	2.39	0.009	0.74	<0.1	<0.01	1.3	0.3	<0.05	8	<0.5	<0.2
116780	Soil	14	32	1.53	124	0.217	1	2.87	0.009	0.49	<0.1	0.01	1.7	0.3	<0.05	10	<0.5	<0.2
REP 116780	QC	13	32	1.60	131	0.219	<1	2.93	0.008	0.52	<0.1	0.01	1.6	0.3	<0.05	11	<0.5	<0.2
116796	Soil	7	20	0.50	233	0.038	<1	1.61	0.007	0.06	0.2	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
REP 116796	QC	8	20	0.51	231	0.040	<1	1.69	0.007	0.07	0.3	<0.01	2.1	<0.1	<0.05	6	0.5	<0.2
116814	Soil	35	34	0.64	536	0.062	1	1.67	0.019	0.10	0.2	0.10	4.8	<0.1	<0.05	5	0.7	<0.2
REP 116814	QC	34	34	0.62	523	0.060	<1	1.62	0.018	0.10	0.2	0.10	4.7	<0.1	<0.05	5	<0.5	<0.2
117934	Soil	9	8	3.05	644	0.260	<1	3.08	0.016	1.50	<0.1	<0.01	13.4	0.3	<0.05	10	<0.5	<0.2
REP 117934	QC	9	8	3.11	674	0.282	<1	3.21	0.017	1.55	<0.1	0.01	13.9	0.3	<0.05	11	<0.5	<0.2
103866	Soil	4	11	0.84	127	0.134	<1	1.25	0.009	0.35	<0.1	<0.01	1.1	0.1	<0.05	6	<0.5	<0.2
REP 103866	QC	4	11	0.87	127	0.132	<1	1.27	0.009	0.36	<0.1	<0.01	1.0	0.1	<0.05	6	<0.5	<0.2
103885	Soil	5	26	0.84	141	0.171	<1	1.76	0.008	0.36	0.1	0.01	3.2	0.2	<0.05	9	<0.5	<0.2
REP 103885	QC	5	25	0.79	139	0.165	<1	1.68	0.008	0.34	0.1	<0.01	3.1	0.2	<0.05	9	<0.5	<0.2
103908	Soil	13	11	0.40	119	0.011	<1	1.08	0.009	0.09	0.3	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
REP 103908	QC	14	11	0.40	122	0.012	<1	1.10	0.010	0.09	0.3	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
104817	Soil	6	26	0.61	209	0.074	<1	2.10	0.009	0.06	0.1	0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
REP 104817	QC	7	27	0.64	212	0.079	2	2.23	0.009	0.06	0.1	0.02	2.5	<0.1	<0.05	8	<0.5	<0.2
104843	Soil	10	20	0.44	142	0.086	1	1.25	0.010	0.12	0.2	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
REP 104843	QC	10	20	0.44	140	0.083	1	1.21	0.008	0.11	0.1	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2
104849	Soil	6	24	0.59	172	0.071	2	1.49	0.006	0.11	0.1	0.02	2.8	<0.1	<0.05	5	0.6	<0.2
REP 104849	QC	6	24	0.64	180	0.072	<1	1.69	0.008	0.11	0.2	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
104878	Soil	32	14	0.53	360	0.023	2	0.98	0.010	0.06	0.4	0.14	4.0	<0.1	<0.05	4	0.7	<0.2
REP 104878	QC	32	14	0.53	357	0.021	2	0.96	0.011	0.06	0.3	0.12	3.5	<0.1	<0.05	4	1.0	<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: Rosebute  
 Report Date: August 18, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000769.1

		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
104895	Soil	0.5	31.6	11.8	65	0.2	24.6	11.5	453	2.78	9.8	0.6	3.0	4.9	38	0.1	2.1	0.1	59	0.64	0.053
REP 104895	QC	0.4	32.4	11.7	64	0.2	26.3	11.8	469	2.87	10.1	0.6	2.6	4.9	39	<0.1	2.2	0.1	60	0.66	0.053
104915	Soil	0.9	16.4	9.6	70	0.2	18.9	11.1	544	2.44	4.2	0.4	6.2	3.7	25	<0.1	0.3	0.2	62	0.34	0.028
REP 104915	QC	0.8	16.2	9.7	70	0.2	18.1	10.8	528	2.41	4.1	0.4	1.2	3.7	23	<0.1	0.3	0.2	61	0.32	0.027
107836	Soil	0.9	42.5	14.2	126	<0.1	30.2	17.6	638	4.68	5.8	1.5	10.5	9.6	104	<0.1	1.9	0.2	106	0.81	0.058
REP 107836	QC	1.0	43.1	14.3	126	<0.1	28.4	17.3	653	4.74	5.6	1.5	11.6	9.6	105	<0.1	1.8	0.2	105	0.81	0.057
107856	Soil	1.1	33.3	14.6	82	0.1	23.6	11.6	479	3.23	5.1	0.9	7.9	7.5	32	<0.1	0.6	0.2	60	0.47	0.028
REP 107856	QC	0.9	30.7	13.5	77	0.1	21.4	10.3	427	2.91	4.4	0.8	7.0	6.9	30	<0.1	0.5	0.2	58	0.44	0.027
Reference Materials																					
STD DS8	Standard	13.8	104.2	132.1	306	1.7	35.7	7.2	605	2.44	25.6	3.1	118.0	7.3	75	2.4	5.9	7.5	42	0.70	0.079
STD DS8	Standard	15.0	119.7	133.2	326	1.9	42.2	8.2	648	2.52	27.4	2.9	111.0	7.0	72	2.5	6.2	7.3	45	0.70	0.078
STD DS8	Standard	13.9	119.2	116.9	313	1.7	39.5	8.0	615	2.49	26.8	2.6	111.3	6.6	65	2.3	5.5	6.2	42	0.71	0.079
STD DS8	Standard	12.8	113.1	129.1	322	1.8	39.7	7.9	620	2.59	27.7	2.9	112.3	7.1	66	2.3	5.9	6.7	42	0.72	0.083
STD DS8	Standard	13.9	111.2	130.1	316	1.8	40.0	7.9	626	2.50	27.4	2.7	117.2	6.9	68	2.5	6.2	7.2	44	0.66	0.077
STD DS8	Standard	12.8	109.9	130.6	317	1.9	37.0	7.4	620	2.48	26.6	3.0	119.7	7.8	76	2.5	6.5	7.5	42	0.69	0.075
STD DS8	Standard	13.1	112.5	123.8	318	1.7	39.3	7.6	619	2.38	26.0	2.6	112.7	6.4	64	2.1	5.4	6.5	42	0.64	0.079
STD DS8	Standard	12.8	105.7	113.2	298	1.7	35.7	7.2	577	2.40	24.7	2.4	102.4	6.0	57	2.4	5.1	5.8	40	0.65	0.076
STD DS8	Standard	13.8	115.8	128.2	311	1.9	39.3	8.2	626	2.54	26.4	2.8	104.5	7.0	69	2.5	5.4	6.8	43	0.74	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	0.6	<0.1	<1	<0.1	<0.1	<0.1	<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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 680 3rd Ave, Suite 203  
 Val D'Or QC J9P 1S5 Canada

Project: Rosebute  
 Report Date: August 18, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000769.1

		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
104895	Soil	18	28	0.64	413	0.064	2	1.53	0.022	0.07	0.1	0.19	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 104895	QC	18	29	0.64	422	0.065	3	1.54	0.022	0.07	0.2	0.21	4.4	<0.1	<0.05	5	<0.5	<0.2
104915	Soil	9	29	0.63	379	0.114	<1	1.71	0.011	0.23	0.1	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2
REP 104915	QC	9	28	0.63	374	0.106	<1	1.65	0.012	0.22	0.1	<0.01	3.5	0.1	<0.05	6	<0.5	<0.2
107836	Soil	25	51	1.19	322	0.145	1	3.10	0.012	0.16	0.1	0.06	9.5	0.1	<0.05	12	<0.5	<0.2
REP 107836	QC	24	51	1.19	314	0.139	<1	3.27	0.013	0.15	0.2	0.07	9.2	0.1	<0.05	12	<0.5	<0.2
107856	Soil	23	37	0.67	288	0.109	<1	2.30	0.016	0.16	0.2	0.04	5.4	0.1	<0.05	7	<0.5	<0.2
REP 107856	QC	22	34	0.64	271	0.111	<1	2.20	0.016	0.16	0.2	0.05	5.1	0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	115	0.62	271	0.113	3	0.90	0.087	0.42	2.9	0.20	2.1	5.4	0.15	5	5.4	4.8
STD DS8	Standard	14	128	0.68	282	0.120	4	0.94	0.087	0.40	3.1	0.20	2.0	5.6	0.15	5	5.0	5.1
STD DS8	Standard	15	126	0.60	286	0.118	2	0.92	0.087	0.42	3.0	0.19	2.2	5.3	0.17	5	5.6	4.6
STD DS8	Standard	14	119	0.61	276	0.117	3	0.91	0.086	0.42	3.2	0.22	1.9	5.5	0.16	5	5.5	5.1
STD DS8	Standard	14	125	0.62	284	0.123	3	0.90	0.087	0.42	3.0	0.18	2.1	5.5	0.15	5	4.5	4.8
STD DS8	Standard	15	119	0.62	277	0.131	2	0.92	0.082	0.41	3.1	0.20	2.3	5.7	0.13	5	4.8	5.3
STD DS8	Standard	14	114	0.61	275	0.113	3	0.87	0.084	0.40	2.8	0.20	1.9	5.4	0.16	5	4.6	4.9
STD DS8	Standard	12	111	0.58	250	0.101	2	0.85	0.081	0.38	2.9	0.18	2.1	5.5	0.14	5	5.1	4.6
STD DS8	Standard	15	124	0.62	288	0.125	1	0.93	0.097	0.44	2.9	0.21	2.2	5.5	0.16	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
BLK	Blank	<1	<1	<0.01	<1	<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: July 27, 2011
Report Date: August 17, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000762.1

CLIENT JOB INFORMATION

Project: Rosebute
Shipment ID: 20110718102440
P.O. Number
Number of Samples: 299

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.

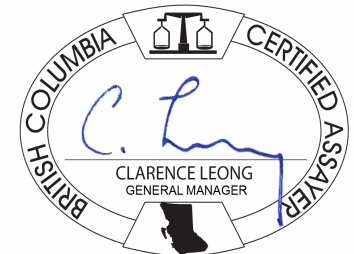
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Mark Fekete

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: Rosebute  
 Report Date: August 17, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000762.1

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
117914	Soil	1.7	27.8	10.0	49	<0.1	19.8	7.5	339	2.43	7.5	2.3	10.5	10.6	27	<0.1	0.8	0.6	48	0.24	0.027
117915	Soil	1.0	12.7	8.3	46	<0.1	16.8	7.3	253	2.43	6.8	0.5	3.0	5.5	20	<0.1	0.6	0.3	51	0.16	0.013
117916	Soil	0.7	21.2	5.6	75	<0.1	33.2	15.0	629	3.91	4.3	1.1	2.0	9.9	17	<0.1	0.3	0.3	64	0.17	0.026
117917	Soil	1.2	32.2	22.8	116	0.2	29.7	17.4	1200	4.11	4.1	1.3	4.1	7.8	29	<0.1	0.4	4.4	72	0.44	0.040
117918	Soil	0.8	32.0	21.2	110	<0.1	20.2	10.5	829	3.36	5.4	1.1	2.8	11.0	27	<0.1	0.5	1.8	52	0.34	0.033
117919	Soil	1.4	15.1	186.3	305	<0.1	5.6	6.3	1504	3.06	1.1	0.5	0.6	10.4	20	0.2	0.2	4.0	35	0.34	0.044
117920	Soil	1.1	26.8	38.8	167	<0.1	20.4	8.7	859	2.76	4.0	0.7	2.5	9.4	25	0.3	0.6	4.9	43	0.39	0.045
117921	Soil	1.1	16.1	9.8	49	0.1	17.7	8.2	383	2.29	7.0	0.7	3.7	3.4	30	<0.1	0.5	0.4	49	0.37	0.042
117922	Soil	1.2	15.4	10.4	53	<0.1	19.6	7.7	353	2.39	6.7	0.9	2.9	6.7	28	<0.1	0.5	0.6	47	0.35	0.038
117923	Soil	1.1	12.6	8.7	42	0.1	13.9	6.4	289	2.31	7.3	0.8	3.3	4.8	28	0.1	0.5	0.3	48	0.38	0.047
117924	Soil	0.8	25.0	9.4	56	0.1	19.7	7.9	353	2.50	7.9	1.0	4.8	6.2	30	<0.1	0.7	0.4	48	0.44	0.052
117925	Soil	0.7	42.4	11.4	55	0.1	20.8	7.5	327	2.40	7.6	1.3	4.2	6.2	38	0.1	0.7	0.3	48	0.48	0.054
110455	Soil	3.3	17.3	8.7	49	<0.1	13.8	5.8	377	2.20	4.2	1.5	14.6	11.0	21	<0.1	0.5	0.5	39	0.23	0.032
110456	Soil	1.1	20.2	9.5	46	<0.1	16.3	6.3	316	2.30	6.0	1.3	4.2	7.8	25	<0.1	0.5	0.3	48	0.26	0.025
110457	Soil	0.8	19.4	8.3	47	<0.1	15.3	6.4	259	2.10	5.3	1.3	7.3	6.9	26	<0.1	0.5	0.2	46	0.28	0.029
110458	Soil	1.2	24.8	8.8	82	<0.1	18.5	10.0	541	3.54	5.0	1.2	2.2	7.6	30	<0.1	0.4	0.3	62	0.36	0.046
110459	Soil	1.2	14.5	13.2	43	<0.1	13.9	6.6	271	2.37	6.8	0.7	7.2	4.7	22	<0.1	0.5	0.2	57	0.24	0.017
110460	Soil	0.9	28.0	10.0	50	<0.1	20.3	8.4	337	2.48	6.4	0.9	2.7	5.5	32	<0.1	0.6	0.3	52	0.34	0.027
110461	Soil	0.8	37.5	14.7	93	<0.1	22.7	9.7	398	3.71	7.2	2.7	4.5	18.3	33	<0.1	0.8	0.3	71	0.46	0.044
110462	Soil	1.8	17.2	11.7	117	<0.1	16.4	11.2	1020	3.95	4.3	1.3	1.1	6.8	25	<0.1	0.5	0.3	61	0.44	0.072
110463	Soil	0.7	30.4	13.3	81	<0.1	24.1	9.9	375	2.99	6.8	2.5	2.9	11.5	33	<0.1	0.9	0.2	63	0.41	0.033
110464	Soil	1.2	23.6	14.9	85	<0.1	11.3	7.0	376	3.30	5.8	4.2	<0.5	34.5	12	<0.1	1.0	0.4	47	0.09	0.042
110465	Soil	1.2	32.0	11.4	54	2.5	15.3	7.3	378	2.72	7.4	1.0	159.7	9.3	16	<0.1	0.6	0.3	59	0.12	0.019
110466	Soil	0.8	15.5	9.6	45	0.2	18.0	8.0	266	2.60	9.0	0.5	7.6	4.3	19	<0.1	0.6	0.2	54	0.21	0.019
110467	Soil	0.8	33.3	17.8	109	0.2	18.7	11.6	701	3.32	4.6	1.5	23.7	8.7	47	<0.1	0.7	0.2	63	0.54	0.034
110468	Soil	0.8	20.1	14.6	52	<0.1	10.3	5.7	368	1.81	4.2	1.0	9.6	11.7	24	0.1	0.5	0.2	32	0.46	0.029
110469	Soil	1.0	22.6	12.0	44	<0.1	14.3	6.2	227	2.26	5.8	1.1	14.2	13.9	24	<0.1	0.9	0.2	39	0.29	0.024
110470	Soil	1.0	12.4	9.2	36	<0.1	15.9	6.0	265	2.06	7.4	0.5	3.0	2.9	22	<0.1	0.6	0.2	47	0.28	0.025
110471	Soil	3.7	27.4	14.1	64	0.1	16.6	9.3	360	2.67	6.8	1.0	10.9	5.6	25	<0.1	0.6	0.3	49	0.27	0.021
110472	Soil	1.2	8.7	8.3	34	<0.1	10.3	6.5	425	1.73	3.9	0.4	0.8	2.9	18	<0.1	0.2	0.2	39	0.19	0.025

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: August 17, 2011

Page: 2 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
117914	Soil	37	31	0.46	343	0.054	1	1.55	0.012	0.05	0.2	0.07	5.3	<0.1	<0.05	4	1.5	<0.2
117915	Soil	10	29	0.52	181	0.063	1	1.63	0.008	0.05	0.2	0.01	2.5	<0.1	<0.05	5	0.5	<0.2
117916	Soil	22	70	1.24	270	0.237	<1	2.57	0.007	0.98	0.3	0.01	4.5	0.5	<0.05	10	<0.5	<0.2
117917	Soil	27	42	1.54	296	0.139	2	2.33	0.018	0.55	3.3	0.07	6.4	0.4	<0.05	8	0.7	0.2
117918	Soil	24	31	0.98	284	0.137	2	1.89	0.017	0.47	0.7	0.06	5.3	0.3	<0.05	7	1.2	<0.2
117919	Soil	15	9	1.64	402	0.131	1	2.16	0.009	0.83	1.1	0.02	3.6	0.3	<0.05	9	<0.5	<0.2
117920	Soil	18	34	1.01	296	0.115	1	1.72	0.013	0.43	8.8	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
117921	Soil	11	27	0.52	297	0.053	1	1.42	0.014	0.05	0.3	0.02	2.3	<0.1	<0.05	4	0.7	<0.2
117922	Soil	13	32	0.53	270	0.065	1	1.48	0.015	0.07	0.4	0.01	2.9	<0.1	<0.05	5	1.0	<0.2
117923	Soil	12	24	0.49	236	0.059	2	1.31	0.013	0.06	0.2	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
117924	Soil	17	27	0.54	244	0.070	1	1.37	0.020	0.07	0.4	0.06	3.9	<0.1	<0.05	4	<0.5	<0.2
117925	Soil	19	28	0.50	297	0.070	2	1.42	0.018	0.06	0.3	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
110455	Soil	36	21	0.42	251	0.071	2	1.29	0.010	0.12	0.7	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
110456	Soil	25	28	0.46	251	0.080	<1	1.50	0.011	0.06	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
110457	Soil	17	25	0.45	234	0.087	1	1.42	0.015	0.07	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
110458	Soil	22	34	1.01	318	0.162	1	2.06	0.013	0.62	0.4	0.02	4.9	0.3	<0.05	8	0.9	<0.2
110459	Soil	12	29	0.44	200	0.074	<1	1.70	0.011	0.04	0.1	0.01	3.1	<0.1	<0.05	5	0.5	<0.2
110460	Soil	16	31	0.47	245	0.095	2	1.75	0.014	0.07	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
110461	Soil	59	35	0.64	352	0.071	1	2.41	0.011	0.07	0.2	0.08	7.7	<0.1	<0.05	8	<0.5	<0.2
110462	Soil	12	42	0.83	294	0.064	2	2.13	0.009	0.16	0.5	0.02	5.1	0.1	<0.05	10	<0.5	<0.2
110463	Soil	30	41	0.63	289	0.079	1	1.93	0.014	0.06	0.3	0.05	5.0	<0.1	<0.05	8	<0.5	<0.2
110464	Soil	6	19	0.63	136	0.022	1	2.15	0.005	0.09	0.3	0.02	3.3	<0.1	<0.05	10	<0.5	<0.2
110465	Soil	27	29	0.48	208	0.055	<1	1.84	0.008	0.06	4.5	0.05	2.5	0.1	<0.05	6	<0.5	0.3
110466	Soil	9	31	0.50	260	0.052	2	1.78	0.008	0.07	0.2	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
110467	Soil	22	28	0.95	628	0.087	1	2.11	0.009	0.07	0.9	0.05	4.2	<0.1	<0.05	9	0.6	<0.2
110468	Soil	25	15	0.41	263	0.018	3	1.14	0.010	0.10	0.4	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
110469	Soil	44	24	0.48	783	0.028	2	1.65	0.007	0.11	0.4	0.02	3.4	0.1	<0.05	5	<0.5	<0.2
110470	Soil	9	24	0.46	400	0.050	1	1.38	0.010	0.06	0.2	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
110471	Soil	9	32	0.63	365	0.044	2	1.73	0.009	0.06	0.4	0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
110472	Soil	8	19	0.32	272	0.058	1	0.90	0.008	0.08	0.2	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
110473	Soil		1.7	31.3	20.1	61	0.4	20.0	7.5	588	2.34	5.2	1.5	67.3	7.1	31	0.1	0.7	0.2	43	0.51	0.036
110474	Soil		2.7	21.1	16.0	52	0.5	16.1	7.9	512	2.44	7.0	0.9	18.6	3.7	30	0.2	0.6	0.3	51	0.59	0.023
110475	Soil		1.2	28.3	11.9	58	0.2	19.1	9.5	510	2.41	7.4	1.7	9.4	4.7	40	0.2	0.6	0.2	52	0.67	0.048
110476	Soil		1.1	22.0	9.4	46	0.1	18.4	8.2	362	2.23	7.2	1.4	13.1	3.8	43	<0.1	0.6	0.2	50	0.61	0.051
110477	Soil		0.8	27.8	8.7	53	0.1	22.4	9.5	360	2.44	9.0	1.1	4.2	3.8	44	<0.1	0.7	0.2	51	0.65	0.065
110478	Soil		0.8	34.2	13.3	63	0.2	28.2	10.6	801	3.15	12.5	0.9	7.4	2.6	41	0.9	1.1	0.1	48	1.62	0.071
110479	Soil		0.7	33.1	10.8	48	0.1	23.8	9.5	499	2.40	10.3	0.9	4.0	2.2	37	0.3	0.6	0.2	47	1.42	0.038
110480	Soil		0.5	15.2	7.1	51	0.1	11.7	5.7	300	1.40	5.3	0.3	4.3	1.7	64	0.1	0.4	<0.1	22	4.91	0.039
116726	Soil		1.4	27.5	12.6	76	<0.1	16.4	6.9	383	2.96	11.9	0.7	0.8	10.3	8	<0.1	0.3	0.3	48	0.15	0.017
116727	Soil		5.6	25.2	11.0	71	0.1	12.5	6.1	333	2.63	11.5	0.8	2.2	5.6	12	0.1	1.1	0.4	42	0.11	0.018
116728	Soil		1.8	14.1	10.6	57	0.2	16.2	6.9	246	2.95	9.5	0.4	0.7	4.5	13	<0.1	0.6	0.2	55	0.12	0.022
116729	Soil		1.3	12.3	8.7	61	<0.1	17.2	8.2	309	2.90	8.7	0.9	1.9	5.1	12	<0.1	0.5	0.2	57	0.09	0.026
116730	Soil		0.9	16.6	7.8	62	<0.1	17.9	7.3	362	2.76	8.4	0.5	1.3	7.0	18	<0.1	0.4	0.2	57	0.17	0.036
116731	Soil		0.8	17.1	9.5	93	<0.1	11.2	8.4	471	2.86	4.8	1.5	1.3	18.0	15	<0.1	0.5	0.2	43	0.22	0.043
116732	Soil		0.9	9.0	10.5	138	<0.1	12.3	7.2	389	3.01	6.1	0.4	1.1	4.3	13	0.2	0.4	0.2	67	0.12	0.090
116733	Soil		0.9	12.5	10.4	66	<0.1	18.1	9.4	338	3.00	10.4	0.4	2.0	3.2	11	<0.1	0.5	0.2	62	0.09	0.031
116734	Soil		0.7	20.5	37.7	86	0.1	14.1	10.8	357	2.96	8.3	1.2	2.6	10.4	19	0.2	0.3	0.1	51	0.22	0.038
116735	Soil		0.7	24.3	14.8	115	<0.1	18.6	14.6	783	4.09	4.5	2.1	3.0	24.8	16	<0.1	0.3	0.2	59	0.28	0.059
116736	Soil		0.5	41.7	7.5	83	<0.1	13.1	14.1	688	3.12	3.6	1.3	1.7	16.1	17	<0.1	0.3	0.2	40	0.27	0.046
116737	Soil		0.7	30.5	8.8	53	<0.1	19.2	8.5	318	2.66	9.4	1.2	3.0	7.2	26	<0.1	0.5	0.2	53	0.28	0.037
116738	Soil		0.7	20.4	11.7	64	<0.1	12.3	7.1	277	2.62	5.8	1.3	2.6	10.3	19	<0.1	0.4	0.2	48	0.20	0.033
116739	Soil		0.8	22.4	10.0	55	<0.1	16.0	7.8	266	2.45	5.4	0.9	1.5	9.4	26	0.1	0.5	0.2	49	0.30	0.023
116740	Soil		0.6	21.0	8.8	53	<0.1	13.7	7.4	335	2.17	4.6	1.0	4.0	10.4	24	<0.1	0.5	0.2	43	0.30	0.031
116741	Soil		0.9	22.8	9.9	51	<0.1	20.0	7.5	273	2.47	7.2	0.8	3.0	6.3	30	<0.1	0.4	0.3	50	0.36	0.040
116742	Soil		1.7	15.3	8.5	47	<0.1	11.1	6.0	482	1.77	3.9	1.1	1.4	7.1	19	<0.1	0.3	0.6	34	0.24	0.040
116743	Soil		1.1	16.4	9.3	56	<0.1	14.9	8.1	507	2.37	6.2	0.8	5.8	6.9	23	<0.1	0.4	0.2	49	0.26	0.039
116744	Soil		1.4	12.2	7.9	47	<0.1	12.7	5.7	254	2.61	5.2	0.6	1.7	6.6	11	<0.1	0.4	0.3	52	0.11	0.019
116745	Soil		4.5	24.4	12.6	40	<0.1	13.2	6.2	264	1.98	5.2	0.8	16.4	5.5	20	<0.1	0.4	0.3	43	0.21	0.025
116746	Soil		2.0	33.4	12.7	86	<0.1	16.7	10.4	474	3.32	5.9	1.6	15.3	8.6	23	<0.1	0.7	0.2	51	0.33	0.040
116747	Soil		0.8	11.1	8.6	31	<0.1	8.6	3.7	128	1.80	6.0	0.4	3.8	1.8	18	<0.1	0.2	0.4	45	0.18	0.026

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 3 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000762.1

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
110473	Soil	43	27	0.47	733	0.051	2	1.59	0.016	0.07	4.5	0.07	4.3	<0.1	<0.05	5	0.7	<0.2
110474	Soil	17	29	0.47	504	0.064	2	1.65	0.014	0.05	3.0	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2
110475	Soil	16	27	0.48	330	0.075	1	1.52	0.020	0.05	0.8	0.05	3.4	<0.1	<0.05	5	1.1	<0.2
110476	Soil	14	26	0.46	318	0.066	2	1.42	0.019	0.05	0.4	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
110477	Soil	14	26	0.55	265	0.069	2	1.33	0.025	0.06	0.2	0.04	3.1	<0.1	<0.05	4	0.8	<0.2
110478	Soil	15	25	0.47	308	0.049	3	1.15	0.019	0.05	0.8	0.23	3.2	<0.1	<0.05	3	<0.5	<0.2
110479	Soil	14	26	0.45	304	0.031	3	1.48	0.016	0.05	0.2	0.15	3.5	<0.1	<0.05	4	<0.5	<0.2
110480	Soil	8	9	0.36	424	0.006	3	0.86	0.011	0.08	0.2	0.12	2.1	<0.1	<0.05	2	<0.5	<0.2
116726	Soil	10	38	0.63	154	0.104	<1	1.81	0.007	0.25	0.2	0.04	3.6	0.2	<0.05	6	<0.5	<0.2
116727	Soil	9	20	0.37	165	0.024	2	1.64	0.007	0.07	0.2	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
116728	Soil	8	30	0.49	316	0.054	3	2.07	0.008	0.11	0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
116729	Soil	8	30	0.48	210	0.039	2	2.01	0.006	0.07	0.1	0.04	2.8	0.1	<0.05	6	<0.5	<0.2
116730	Soil	9	34	0.53	275	0.064	2	1.69	0.008	0.10	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
116731	Soil	26	17	0.52	175	0.060	3	1.60	0.007	0.32	0.1	0.02	2.9	0.3	<0.05	6	<0.5	<0.2
116732	Soil	8	22	0.46	199	0.064	<1	1.75	0.007	0.04	0.1	0.03	2.0	0.1	<0.05	8	<0.5	<0.2
116733	Soil	8	30	0.44	212	0.049	<1	2.10	0.007	0.04	0.1	0.05	2.3	<0.1	<0.05	6	<0.5	<0.2
116734	Soil	29	24	0.66	191	0.090	<1	2.02	0.009	0.21	0.1	0.04	3.0	0.3	<0.05	6	<0.5	<0.2
116735	Soil	40	28	1.02	147	0.145	1	2.39	0.008	0.70	0.2	0.03	5.4	0.7	<0.05	10	<0.5	<0.2
116736	Soil	86	20	1.04	130	0.139	2	2.09	0.008	0.55	0.1	0.02	2.3	0.5	<0.05	7	0.5	<0.2
116737	Soil	19	30	0.55	274	0.073	<1	1.66	0.013	0.08	0.2	0.05	5.2	<0.1	<0.05	5	<0.5	<0.2
116738	Soil	27	22	0.45	171	0.079	1	1.62	0.009	0.11	0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
116739	Soil	23	27	0.47	258	0.091	2	1.60	0.013	0.08	0.1	0.04	4.4	0.1	<0.05	5	<0.5	<0.2
116740	Soil	22	22	0.43	209	0.090	1	1.28	0.014	0.12	0.1	0.04	4.1	0.1	<0.05	4	<0.5	<0.2
116741	Soil	18	34	0.48	277	0.075	<1	1.64	0.014	0.06	0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
116742	Soil	26	17	0.31	192	0.069	2	0.95	0.012	0.09	0.3	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
116743	Soil	19	28	0.43	264	0.069	1	1.58	0.011	0.09	0.2	0.02	3.5	0.1	<0.05	5	0.6	<0.2
116744	Soil	16	21	0.46	161	0.072	<1	1.94	0.007	0.05	0.2	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
116745	Soil	20	22	0.36	224	0.069	1	1.19	0.012	0.04	4.7	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
116746	Soil	13	32	0.61	222	0.077	<1	1.71	0.009	0.25	3.5	0.03	6.2	0.2	<0.05	6	<0.5	<0.2
116747	Soil	10	18	0.32	149	0.056	<1	1.30	0.011	0.04	0.2	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2

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Page: 4 of 11 Part 1

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			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	
116748	Soil		0.7	32.4	6.1	84	<0.1	22.6	13.5	648	4.35	14.5	1.5	2.3	8.6	30	<0.1	0.5	0.3	57	0.38	0.034
116749	Soil		0.9	28.6	9.3	50	<0.1	23.6	9.0	262	2.80	9.8	0.8	2.4	5.2	25	<0.1	0.6	0.3	62	0.25	0.019
116750	Soil		2.3	22.0	11.5	117	0.1	18.4	15.1	690	4.07	5.0	0.7	3.0	6.2	26	<0.1	0.4	0.9	65	0.38	0.031
116751	Soil		0.7	24.4	8.9	93	<0.1	18.0	9.1	739	2.96	5.8	1.1	3.2	8.7	27	0.1	0.4	0.8	50	0.47	0.044
116752	Soil		1.0	18.8	10.5	54	0.1	15.8	6.7	303	2.49	6.7	0.5	3.5	5.0	21	0.1	0.4	0.7	48	0.28	0.031
116753	Soil		0.9	28.7	8.7	47	<0.1	23.0	8.6	335	2.47	9.6	1.2	4.5	5.0	28	0.1	0.6	0.3	51	0.34	0.035
116754	Soil		0.9	19.6	7.7	54	<0.1	15.1	6.7	276	2.32	7.0	1.0	2.6	6.7	24	<0.1	0.3	0.5	44	0.31	0.033
116755	Soil		1.4	22.6	8.4	59	0.1	17.7	9.2	687	2.62	7.9	1.2	6.5	8.0	29	<0.1	0.5	0.6	51	0.40	0.040
116756	Soil		1.0	16.4	8.6	47	<0.1	14.7	6.8	255	2.35	8.5	1.0	4.2	5.3	28	<0.1	0.4	0.3	52	0.38	0.042
116757	Soil		0.9	23.4	8.8	51	<0.1	17.6	7.1	252	2.36	7.3	1.0	4.9	5.2	31	<0.1	0.5	0.2	46	0.40	0.042
116758	Soil		0.8	27.2	9.9	49	<0.1	14.9	7.0	268	2.22	6.6	1.1	6.0	6.1	29	<0.1	0.5	0.4	44	0.40	0.040
116759	Soil		0.7	42.6	9.0	52	0.1	20.2	7.8	316	2.29	7.1	1.0	9.1	4.9	36	0.1	0.6	0.3	45	0.54	0.043
111667	Soil		0.8	17.1	9.0	118	<0.1	10.3	14.8	756	3.32	3.8	0.8	0.9	12.2	25	<0.1	0.2	<0.1	53	0.26	0.062
111668	Soil		1.0	18.2	8.9	103	<0.1	15.8	14.8	743	3.63	5.8	1.2	1.4	16.1	17	<0.1	0.2	<0.1	63	0.19	0.032
111669	Soil		0.7	18.7	9.1	45	<0.1	14.2	6.4	170	2.42	8.1	0.9	1.9	5.2	16	<0.1	0.3	0.2	59	0.19	0.038
111670	Soil		1.5	20.4	10.8	62	<0.1	15.2	11.7	360	2.91	6.0	0.9	2.4	10.4	13	<0.1	0.5	0.5	47	0.14	0.027
111671	Soil		1.1	12.5	9.2	73	<0.1	12.1	8.3	352	3.09	6.8	1.0	2.6	7.2	19	<0.1	0.3	0.1	60	0.22	0.049
111672	Soil		1.4	22.3	8.3	59	<0.1	18.3	9.7	423	2.55	6.7	1.1	2.6	10.9	15	0.1	0.4	0.2	48	0.18	0.047
111673	Soil		1.4	18.3	8.5	59	<0.1	18.0	9.5	324	2.77	9.1	0.8	3.1	6.9	16	0.1	0.4	0.1	56	0.17	0.023
111674	Soil		2.1	10.4	9.4	63	<0.1	14.4	8.4	371	2.69	7.9	0.8	2.5	7.6	19	<0.1	0.3	0.1	53	0.24	0.042
111675	Soil		2.0	9.9	7.9	50	<0.1	12.8	6.1	272	3.29	11.8	0.6	1.5	4.3	12	<0.1	0.5	0.2	82	0.14	0.046
111676	Soil		1.3	17.8	7.9	58	<0.1	18.3	8.0	231	2.95	9.0	0.8	2.9	8.0	13	0.1	0.4	0.2	60	0.14	0.036
111677	Soil		1.4	16.7	8.5	75	<0.1	20.7	7.7	498	2.89	10.0	0.5	2.5	3.0	17	0.1	0.5	0.2	65	0.16	0.051
111678	Soil		1.1	12.5	8.0	39	<0.1	14.4	6.4	170	2.44	7.3	0.5	1.9	3.7	13	<0.1	0.4	0.2	62	0.13	0.018
111679	Soil		0.8	10.0	3.8	136	<0.1	6.5	4.8	387	2.65	2.5	0.4	0.9	2.4	8	<0.1	0.2	<0.1	51	0.10	0.028
111680	Soil		1.4	16.1	7.1	50	<0.1	13.9	7.6	400	2.48	6.4	0.4	0.8	3.5	13	<0.1	0.4	0.2	56	0.13	0.020
111681	Soil		1.2	15.6	8.4	56	<0.1	14.0	6.6	344	2.86	7.1	1.1	<0.5	6.8	9	<0.1	0.4	0.2	47	0.07	0.022
111682	Soil		0.9	24.1	7.9	47	<0.1	17.1	7.3	274	2.64	8.3	1.5	2.5	7.9	14	<0.1	0.5	0.1	60	0.12	0.012
111683	Soil		0.7	19.5	7.2	37	<0.1	16.0	6.5	173	2.29	6.2	0.9	2.3	4.9	19	<0.1	0.4	0.1	54	0.20	0.013
111684	Soil		0.8	30.6	7.8	56	<0.1	23.5	8.5	356	2.57	9.0	0.7	3.7	6.1	31	<0.1	0.5	0.1	58	0.38	0.043

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 4 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
116748	Soil	27	70	1.29	331	0.193	<1	2.56	0.009	0.82	0.2	0.06	4.6	0.3	<0.05	8	<0.5	<0.2
116749	Soil	15	40	0.56	271	0.087	<1	1.93	0.017	0.05	0.2	0.04	5.4	<0.1	<0.05	6	<0.5	<0.2
116750	Soil	6	36	1.34	246	0.153	<1	2.41	0.010	0.60	1.0	0.03	4.3	0.3	<0.05	9	<0.5	<0.2
116751	Soil	21	33	0.96	289	0.132	<1	1.82	0.018	0.46	0.4	0.05	5.0	0.2	<0.05	6	<0.5	<0.2
116752	Soil	12	27	0.54	195	0.076	<1	1.71	0.010	0.10	0.4	0.05	3.0	<0.1	<0.05	5	<0.5	<0.2
116753	Soil	16	30	0.54	287	0.070	<1	1.44	0.021	0.06	0.2	0.05	4.6	<0.1	<0.05	4	<0.5	<0.2
116754	Soil	17	26	0.49	244	0.075	<1	1.40	0.014	0.08	0.4	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
116755	Soil	23	29	0.50	342	0.066	1	1.73	0.014	0.07	0.3	0.04	4.4	<0.1	<0.05	5	0.6	<0.2
116756	Soil	16	28	0.51	252	0.071	<1	1.41	0.015	0.06	0.2	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
116757	Soil	16	26	0.49	252	0.067	1	1.42	0.017	0.07	0.2	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
116758	Soil	20	25	0.47	252	0.063	<1	1.43	0.014	0.06	0.2	0.05	3.5	<0.1	<0.05	5	0.7	<0.2
116759	Soil	17	26	0.48	284	0.075	1	1.51	0.019	0.06	0.2	0.06	4.2	<0.1	<0.05	4	<0.5	<0.2
111667	Soil	17	16	1.03	96	0.155	1	2.13	0.012	0.68	0.2	<0.01	1.5	0.6	<0.05	7	<0.5	<0.2
111668	Soil	19	25	0.91	141	0.158	<1	2.40	0.009	0.55	0.1	0.02	2.9	0.5	<0.05	8	<0.5	<0.2
111669	Soil	14	26	0.38	151	0.067	2	1.73	0.009	0.06	0.1	0.02	2.7	0.2	<0.05	6	0.6	<0.2
111670	Soil	10	23	0.44	150	0.029	1	2.11	0.007	0.11	0.2	0.02	2.7	0.2	<0.05	6	<0.5	<0.2
111671	Soil	11	19	0.51	143	0.105	1	1.83	0.008	0.23	0.2	0.01	3.1	0.3	<0.05	8	0.6	<0.2
111672	Soil	18	25	0.41	156	0.057	1	1.69	0.009	0.10	0.1	0.02	2.8	0.2	<0.05	5	<0.5	<0.2
111673	Soil	12	31	0.44	167	0.068	1	1.99	0.010	0.06	0.1	0.02	2.8	0.1	<0.05	5	0.7	<0.2
111674	Soil	21	23	0.58	133	0.079	1	1.63	0.009	0.14	1.0	0.01	2.2	0.2	<0.05	6	<0.5	<0.2
111675	Soil	13	28	0.37	97	0.079	1	1.39	0.007	0.08	0.2	0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
111676	Soil	12	33	0.43	136	0.067	<1	2.04	0.009	0.06	0.1	0.03	2.9	0.1	<0.05	5	<0.5	<0.2
111677	Soil	10	32	0.38	215	0.060	<1	1.88	0.009	0.05	0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
111678	Soil	10	26	0.32	143	0.062	<1	1.83	0.008	0.04	0.1	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
111679	Soil	6	12	0.87	124	0.100	<1	2.16	0.006	0.27	<0.1	<0.01	1.9	0.2	<0.05	8	<0.5	<0.2
111680	Soil	10	26	0.40	215	0.063	<1	1.86	0.007	0.07	<0.1	0.01	2.4	0.1	<0.05	6	<0.5	<0.2
111681	Soil	7	26	0.31	147	0.051	<1	1.91	0.006	0.11	<0.1	0.01	3.1	0.1	<0.05	5	<0.5	<0.2
111682	Soil	35	37	0.42	164	0.076	<1	1.90	0.009	0.06	0.1	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
111683	Soil	21	27	0.37	219	0.067	1	1.63	0.010	0.04	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
111684	Soil	18	33	0.43	295	0.093	<1	1.70	0.019	0.06	0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
111685	Soil		0.8	18.0	8.4	44	<0.1	14.5	5.6	199	2.17	5.7	0.8	3.6	4.9	21	<0.1	0.4	0.1	53	0.31	0.019
111686	Soil		0.7	17.1	7.1	49	<0.1	16.7	8.4	245	2.43	6.0	0.5	0.8	5.6	18	<0.1	0.4	0.2	54	0.26	0.022
111687	Soil		0.8	14.3	6.8	52	<0.1	13.8	7.7	343	2.57	6.0	0.7	1.9	5.3	18	<0.1	0.3	0.2	57	0.27	0.031
111688	Soil		0.5	12.8	6.9	58	<0.1	14.1	6.3	185	2.30	6.2	0.7	1.7	4.0	19	<0.1	0.3	0.2	52	0.31	0.041
111689	Soil		0.8	9.6	6.4	66	<0.1	13.4	7.6	453	2.35	5.7	0.8	1.0	6.3	19	0.1	0.3	0.1	46	0.30	0.053
117894	Soil		1.8	8.6	14.9	232	<0.1	7.4	6.4	404	3.33	1.5	0.6	<0.5	3.5	8	<0.1	0.3	0.3	59	0.12	0.035
117895	Soil		5.3	21.0	11.3	107	<0.1	12.0	5.9	368	3.21	7.3	1.2	<0.5	9.4	9	<0.1	0.4	0.6	42	0.08	0.015
117896	Soil		2.5	9.9	4.4	117	<0.1	8.7	6.3	1052	3.74	1.3	1.5	1.7	17.9	23	<0.1	0.1	<0.1	29	0.31	0.032
117897	Soil		0.5	13.9	3.3	73	<0.1	8.4	7.1	574	2.82	3.6	1.0	<0.5	12.5	4	<0.1	0.2	0.1	39	0.05	0.024
118898	Soil		0.5	19.7	8.1	98	<0.1	8.2	10.1	737	3.42	2.2	2.6	<0.5	39.2	21	0.1	0.2	0.2	34	0.28	0.055
117899	Soil		0.8	15.1	11.0	87	<0.1	14.2	9.4	472	3.23	5.3	1.5	0.8	20.2	20	<0.1	0.3	0.1	49	0.24	0.058
117900	Soil		0.5	27.9	9.5	106	<0.1	8.8	13.4	566	3.54	4.4	0.7	1.0	11.6	25	<0.1	0.2	0.3	60	0.27	0.032
117901	Soil		0.8	33.7	8.2	74	<0.1	14.1	11.4	564	3.40	8.8	0.8	0.7	8.0	17	<0.1	0.4	0.3	62	0.16	0.040
117902	Soil		0.6	25.1	7.6	62	<0.1	20.9	12.1	353	2.80	6.9	0.8	3.1	7.8	18	<0.1	0.4	0.1	57	0.22	0.035
117903	Soil		0.9	23.5	9.0	53	<0.1	24.9	10.8	269	2.86	9.9	1.1	2.1	11.0	13	0.1	0.5	0.1	60	0.13	0.164
117904	Soil		1.0	17.4	5.9	88	<0.1	9.2	8.5	414	2.83	2.5	0.9	<0.5	6.7	15	<0.1	0.1	<0.1	53	0.12	0.022
117905	Soil		0.4	29.0	12.0	79	<0.1	14.0	9.4	470	2.61	4.6	1.3	1.6	15.5	25	<0.1	0.3	0.1	45	0.38	0.060
117906	Soil		0.5	30.1	11.1	68	<0.1	17.0	8.7	302	2.67	5.5	1.2	3.6	13.4	27	<0.1	0.4	0.2	51	0.34	0.035
117907	Soil		0.9	30.3	10.1	58	<0.1	19.3	8.2	278	2.47	7.7	1.3	3.1	8.9	24	<0.1	0.5	0.2	53	0.31	0.035
117908	Soil		1.0	31.3	8.7	67	<0.1	24.0	9.0	355	2.50	9.6	0.7	1.3	5.9	27	0.2	0.6	0.2	54	0.38	0.071
117909	Soil		0.8	32.3	9.0	45	<0.1	20.4	8.5	287	2.39	9.2	1.3	1.9	6.2	25	<0.1	0.4	0.2	56	0.29	0.028
117910	Soil		0.9	22.6	9.3	42	<0.1	17.2	7.5	220	2.43	8.5	0.9	4.4	3.5	19	<0.1	0.4	0.2	56	0.20	0.021
117911	Soil		1.0	15.4	8.4	41	<0.1	13.8	6.4	297	1.90	6.6	0.7	1.5	4.6	17	<0.1	0.3	0.1	46	0.19	0.017
117912	Soil		1.0	22.4	7.5	53	<0.1	18.7	9.4	439	2.43	7.0	1.3	4.2	9.0	20	<0.1	0.4	0.2	46	0.26	0.052
117913	Soil		3.2	41.8	14.4	67	<0.1	16.1	9.2	335	2.66	4.9	1.1	38.4	8.2	26	<0.1	0.4	0.3	52	0.26	0.017
111690	Soil		1.0	9.6	7.7	63	<0.1	14.0	8.6	470	2.32	6.3	0.8	2.9	6.2	16	<0.1	0.3	0.2	43	0.27	0.053
111691	Soil		0.8	11.9	7.7	63	<0.1	13.7	10.8	466	2.32	6.9	0.8	2.2	5.3	18	<0.1	0.3	0.2	49	0.27	0.047
111692	Soil		0.8	22.3	8.9	65	0.2	17.5	7.9	325	2.70	8.2	2.3	3.0	5.7	27	0.2	0.4	0.2	51	0.45	0.059
111693	Soil		0.6	23.6	7.7	55	0.1	19.7	9.2	354	2.35	9.0	1.0	3.4	4.4	27	0.2	0.5	0.2	52	0.43	0.053
111694	Soil		0.8	23.9	6.5	49	<0.1	20.3	9.7	319	2.19	8.6	0.6	2.5	3.3	29	<0.1	0.5	0.1	50	0.56	0.067

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Page: 5 of 11 Part 2

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	
111685	Soil	27	26	0.33	238	0.066	<1	1.64	0.010	0.06	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
111686	Soil	14	30	0.40	190	0.076	<1	1.87	0.011	0.06	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
111687	Soil	16	26	0.41	199	0.085	1	1.84	0.011	0.09	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
111688	Soil	16	24	0.40	176	0.071	1	1.80	0.013	0.06	0.2	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
111689	Soil	16	23	0.39	133	0.078	<1	1.50	0.013	0.10	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
117894	Soil	12	12	0.58	209	0.077	1	1.73	0.006	0.30	0.1	<0.01	3.0	0.2	<0.05	12	<0.5	<0.2
117895	Soil	10	18	0.37	184	0.055	2	1.85	0.007	0.21	0.1	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2
117896	Soil	48	9	1.18	759	0.060	2	1.83	0.009	0.56	<0.1	0.02	5.1	0.2	<0.05	9	<0.5	<0.2
117897	Soil	19	18	0.64	105	0.123	1	1.46	0.007	0.50	0.2	<0.01	4.6	0.3	<0.05	7	<0.5	<0.2
118898	Soil	87	13	1.17	141	0.133	<1	2.23	0.006	0.79	0.2	<0.01	3.4	0.7	<0.05	9	<0.5	<0.2
117899	Soil	39	25	0.66	149	0.100	2	1.90	0.009	0.42	0.2	<0.01	2.6	0.4	<0.05	7	<0.5	<0.2
117900	Soil	29	15	1.19	127	0.201	1	2.61	0.007	0.49	0.2	<0.01	1.9	0.5	<0.05	8	<0.5	<0.2
117901	Soil	9	28	0.71	117	0.106	2	2.05	0.007	0.21	0.2	0.01	2.3	0.2	<0.05	8	<0.5	<0.2
117902	Soil	17	28	0.67	182	0.089	1	2.03	0.011	0.14	0.1	0.01	3.0	0.2	<0.05	5	0.6	<0.2
117903	Soil	11	35	0.47	174	0.067	2	2.19	0.010	0.07	0.2	0.01	2.8	0.2	<0.05	6	<0.5	<0.2
117904	Soil	5	18	0.88	48	0.182	1	1.87	0.007	0.60	0.1	0.01	1.6	0.7	<0.05	11	<0.5	<0.2
117905	Soil	43	21	0.57	201	0.105	1	1.58	0.010	0.35	0.1	0.02	3.4	0.3	<0.05	6	<0.5	<0.2
117906	Soil	32	28	0.48	192	0.108	<1	1.74	0.019	0.19	0.1	0.03	4.6	0.2	<0.05	6	<0.5	<0.2
117907	Soil	23	31	0.46	263	0.086	2	1.49	0.013	0.08	0.2	0.03	4.7	0.1	0.09	5	0.7	<0.2
117908	Soil	15	34	0.54	292	0.075	2	1.35	0.017	0.08	0.3	0.04	4.1	<0.1	0.07	4	1.1	<0.2
117909	Soil	17	34	0.43	295	0.084	<1	1.59	0.010	0.05	0.1	0.03	5.4	<0.1	<0.05	5	0.8	<0.2
117910	Soil	13	33	0.37	216	0.062	1	1.82	0.008	0.03	0.1	0.02	3.6	<0.1	<0.05	5	0.8	<0.2
117911	Soil	17	26	0.27	221	0.061	<1	1.10	0.007	0.04	0.2	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
117912	Soil	34	33	0.47	187	0.059	1	1.48	0.008	0.07	0.3	0.01	3.7	<0.1	<0.05	4	0.6	<0.2
117913	Soil	22	27	0.58	343	0.105	1	1.93	0.010	0.13	1.1	0.04	5.6	0.1	<0.05	6	0.6	0.3
111690	Soil	14	24	0.41	133	0.076	1	1.41	0.011	0.09	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
111691	Soil	15	22	0.43	187	0.070	1	1.46	0.009	0.06	0.2	0.02	2.5	<0.1	<0.05	5	0.9	<0.2
111692	Soil	38	28	0.42	303	0.066	1	1.95	0.011	0.06	0.2	0.06	4.8	<0.1	0.06	6	1.0	<0.2
111693	Soil	22	27	0.45	268	0.065	2	1.42	0.015	0.04	0.2	0.04	3.7	<0.1	<0.05	4	1.0	<0.2
111694	Soil	11	25	0.52	206	0.068	2	1.10	0.020	0.05	0.2	0.04	2.7	<0.1	<0.05	4	0.7	<0.2

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 6 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
102554	Soil	1.0	11.8	9.5	39	<0.1	11.9	6.4	249	2.27	7.2	0.5	1.1	4.4	15	<0.1	0.5	0.2	60	0.17	0.021
102555	Soil	1.6	8.4	8.7	35	<0.1	8.1	5.2	336	2.18	4.8	1.1	0.5	12.1	14	<0.1	1.5	0.1	28	0.21	0.037
102556	Soil	1.2	18.0	8.3	72	<0.1	8.7	8.3	896	3.34	4.2	1.3	0.7	10.9	13	<0.1	0.8	0.1	38	0.24	0.051
102557	Soil	1.2	14.2	8.7	49	0.1	14.3	8.2	207	2.62	8.1	0.5	<0.5	3.9	15	<0.1	1.1	0.2	52	0.19	0.031
102558	Soil	1.8	18.1	40.3	66	0.4	13.3	8.7	371	2.77	6.1	1.0	1.6	8.1	24	<0.1	1.6	<0.1	35	0.28	0.037
102559	Soil	1.0	31.8	8.4	54	0.3	21.0	9.4	392	2.55	7.6	1.5	1.6	5.2	26	0.2	0.9	0.1	49	0.44	0.055
102560	Soil	1.0	9.1	11.1	40	0.3	10.9	5.8	351	1.83	5.5	0.6	2.1	4.1	18	<0.1	0.8	0.1	38	0.29	0.033
102561	Soil	1.1	15.1	9.2	42	<0.1	13.1	6.2	180	2.14	6.5	1.0	2.6	4.8	19	<0.1	0.7	0.1	46	0.28	0.031
102562	Soil	1.2	18.4	11.5	47	0.2	16.9	7.8	258	2.40	5.2	1.0	8.3	6.1	21	<0.1	0.8	0.2	48	0.39	0.037
102563	Soil	1.0	21.3	9.9	50	0.1	17.8	8.0	275	2.26	6.1	1.4	8.6	5.7	27	<0.1	0.7	0.1	44	0.45	0.049
102564	Soil	1.2	10.8	9.8	50	<0.1	16.4	10.0	234	2.40	7.0	0.6	2.9	3.5	22	0.1	0.4	0.2	54	0.39	0.032
102565	Soil	0.8	25.0	8.9	48	0.1	19.8	9.6	389	2.25	6.6	1.4	2.6	6.1	24	0.1	0.6	0.2	39	0.53	0.054
102566	Soil	1.1	28.1	12.0	58	0.2	17.9	9.8	451	2.37	6.2	1.2	3.2	6.1	23	<0.1	1.5	0.3	50	0.42	0.050
102567	Soil	0.7	71.4	23.5	39	4.6	8.7	4.4	160	1.52	8.0	1.5	9.5	15.4	23	0.2	28.0	0.5	12	0.16	0.026
102568	Soil	1.5	13.9	10.7	81	<0.1	11.8	6.5	379	2.71	3.5	1.1	1.8	16.4	16	0.1	1.6	0.2	30	0.30	0.057
102569	Soil	1.0	25.1	13.4	68	0.1	18.7	7.7	229	2.64	7.9	1.5	4.0	11.4	20	<0.1	2.2	0.3	38	0.34	0.038
102570	Soil	1.0	22.5	8.1	47	<0.1	20.4	10.3	221	2.90	7.4	0.5	1.3	3.6	19	<0.1	0.4	0.1	61	0.17	0.020
102571	Soil	0.8	12.5	4.9	51	<0.1	8.5	9.3	312	2.32	2.7	0.4	<0.5	4.2	13	<0.1	0.2	<0.1	42	0.19	0.054
102572	Soil	0.5	8.7	3.6	35	<0.1	5.5	5.0	226	1.53	<0.5	0.3	0.5	2.5	10	<0.1	0.1	<0.1	30	0.18	0.046
122402	Soil	0.5	6.0	2.1	49	<0.1	6.9	7.7	671	2.88	2.9	0.2	<0.5	2.4	17	<0.1	0.2	<0.1	50	0.20	0.033
122403	Soil	0.5	10.2	2.4	45	<0.1	6.3	7.8	772	2.49	2.3	0.3	<0.5	4.2	12	<0.1	0.1	<0.1	50	0.36	0.083
122404	Soil	39.1	76.8	9.3	51	0.2	8.9	14.1	1003	3.28	9.1	0.5	22.2	3.1	15	<0.1	0.8	0.6	39	0.58	0.076
122405	Soil	<0.1	44.8	1.9	85	<0.1	10.6	16.6	466	3.36	2.5	0.3	1.9	1.4	22	<0.1	0.1	<0.1	101	0.35	0.063
122406	Soil	0.5	36.6	4.4	42	<0.1	13.1	10.3	402	1.99	3.8	0.4	<0.5	2.0	46	<0.1	0.2	<0.1	50	0.15	0.021
122407	Soil	0.6	21.4	5.7	56	<0.1	13.4	9.7	270	2.59	7.8	0.4	1.7	3.4	16	<0.1	0.3	0.2	63	0.18	0.024
122408	Soil	0.6	27.9	1.9	125	<0.1	20.1	10.1	398	2.97	4.5	0.6	1.3	2.4	23	<0.1	0.1	<0.1	107	0.62	0.143
122409	Soil	0.3	28.6	3.4	107	<0.1	19.6	10.0	327	2.74	7.1	0.2	0.7	0.7	29	<0.1	0.1	<0.1	94	0.29	0.069
122410	Soil	0.4	21.9	2.1	108	<0.1	17.3	7.9	314	2.47	6.3	0.3	0.8	1.8	23	<0.1	0.1	<0.1	77	0.48	0.109
122411	Soil	0.4	27.6	3.3	99	<0.1	26.0	16.7	589	3.98	7.9	0.5	1.0	3.6	31	<0.1	0.2	<0.1	101	0.33	0.086
122412	Soil	0.2	33.3	2.6	100	<0.1	18.0	13.2	328	2.84	6.6	0.4	0.6	1.3	33	<0.1	0.1	<0.1	81	0.54	0.110

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 6 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000762.1

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
102554	Soil	15	25	0.37	215	0.050	<1	1.43	0.007	0.03	0.1	0.02	2.8	<0.1	<0.05	6	0.8	<0.2
102555	Soil	76	15	0.19	380	0.010	2	1.02	0.006	0.06	0.2	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2
102556	Soil	17	14	0.18	210	0.014	2	1.04	0.005	0.08	0.1	0.02	3.4	<0.1	<0.05	3	0.6	<0.2
102557	Soil	11	27	0.39	166	0.040	2	1.52	0.007	0.07	0.1	0.02	2.5	<0.1	<0.05	4	0.6	<0.2
102558	Soil	17	22	0.31	253	0.028	3	1.23	0.010	0.10	<0.1	0.08	3.6	<0.1	<0.05	4	0.7	<0.2
102559	Soil	22	29	0.47	453	0.046	2	1.46	0.014	0.06	0.2	0.13	5.4	<0.1	<0.05	4	<0.5	<0.2
102560	Soil	15	21	0.29	284	0.038	2	1.08	0.008	0.08	0.2	0.03	2.2	<0.1	<0.05	4	0.5	<0.2
102561	Soil	20	23	0.35	287	0.049	1	1.23	0.010	0.04	0.1	0.03	2.8	<0.1	<0.05	4	0.9	<0.2
102562	Soil	20	31	0.38	287	0.054	1	1.51	0.010	0.06	0.1	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
102563	Soil	18	30	0.38	270	0.054	1	1.43	0.012	0.05	0.1	0.05	4.0	<0.1	<0.05	4	0.5	<0.2
102564	Soil	10	31	0.43	209	0.041	<1	1.56	0.009	0.06	0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
102565	Soil	31	27	0.38	418	0.035	2	1.20	0.010	0.06	0.2	0.07	4.0	<0.1	<0.05	4	0.8	<0.2
102566	Soil	19	34	0.51	268	0.043	1	1.59	0.013	0.05	0.1	0.29	4.1	<0.1	<0.05	5	0.9	<0.2
102567	Soil	28	9	0.10	206	0.005	3	0.45	0.003	0.09	<0.1	1.82	1.8	<0.1	<0.05	1	0.7	<0.2
102568	Soil	21	17	0.35	197	0.023	1	1.24	0.007	0.08	0.2	0.06	2.8	<0.1	<0.05	5	0.7	<0.2
102569	Soil	25	26	0.28	227	0.028	1	1.06	0.009	0.06	0.1	0.10	4.5	<0.1	<0.05	3	0.5	<0.2
102570	Soil	7	35	0.50	212	0.068	<1	2.14	0.008	0.05	<0.1	0.02	3.8	<0.1	<0.05	6	0.5	<0.2
102571	Soil	5	14	0.38	114	0.087	<1	1.45	0.013	0.19	<0.1	0.01	2.6	0.1	<0.05	5	0.5	<0.2
102572	Soil	5	10	0.25	55	0.070	<1	0.87	0.012	0.15	0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
122402	Soil	7	11	1.15	985	0.180	<1	1.93	0.005	0.42	<0.1	0.02	10.3	0.1	<0.05	9	0.6	<0.2
122403	Soil	18	10	1.44	186	0.208	<1	2.00	0.007	0.65	<0.1	0.02	8.0	0.2	<0.05	6	<0.5	<0.2
122404	Soil	17	10	0.74	366	0.018	<1	1.51	0.007	0.13	0.1	1.56	5.7	0.1	<0.05	5	1.5	<0.2
122405	Soil	7	25	2.18	485	0.220	<1	2.63	0.010	0.62	<0.1	0.01	12.0	0.1	<0.05	9	<0.5	<0.2
122406	Soil	6	26	0.65	304	0.117	<1	1.30	0.007	0.17	<0.1	0.02	2.2	0.1	<0.05	4	<0.5	<0.2
122407	Soil	13	23	1.00	198	0.141	<1	1.98	0.012	0.19	0.1	<0.01	3.5	<0.1	0.09	5	<0.5	<0.2
122408	Soil	15	32	1.49	162	0.163	<1	2.20	0.005	0.76	<0.1	<0.01	2.4	0.2	0.09	9	<0.5	<0.2
122409	Soil	3	31	1.30	125	0.187	<1	2.04	0.008	0.52	<0.1	<0.01	1.0	0.2	0.07	8	<0.5	<0.2
122410	Soil	12	26	1.35	179	0.132	<1	1.89	0.006	0.68	<0.1	<0.01	1.9	0.3	0.11	7	<0.5	<0.2
122411	Soil	12	66	1.80	745	0.299	<1	2.88	0.009	1.19	0.2	<0.01	1.8	0.4	0.06	9	<0.5	<0.2
122412	Soil	11	30	1.43	301	0.141	<1	2.14	0.005	0.45	<0.1	<0.01	1.6	0.2	0.07	8	<0.5	<0.2

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 Report Date: August 17, 2011

Page: 7 of 11 Part 1

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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	
122413	Soil	0.8	8.2	4.5	32	<0.1	11.3	7.1	534	1.84	6.0	0.6	<0.5	3.8	28	<0.1	0.2	<0.1	38	0.36	0.058
122414	Soil	0.4	25.1	3.2	63	<0.1	26.0	20.5	523	4.15	7.9	0.5	0.9	3.7	26	<0.1	0.2	<0.1	81	0.39	0.062
122415	Soil	0.2	16.3	3.6	71	<0.1	10.7	8.6	624	2.16	6.0	1.2	0.9	3.1	18	<0.1	0.2	<0.1	40	0.39	0.092
122416	Soil	0.5	19.6	5.0	45	<0.1	8.7	6.8	202	1.85	7.2	0.5	0.7	2.5	18	<0.1	0.2	<0.1	36	0.23	0.044
122417	Soil	0.3	8.8	3.2	25	<0.1	8.5	4.6	365	1.59	7.8	1.0	1.5	5.9	21	<0.1	0.2	<0.1	28	0.37	0.053
122418	Soil	0.4	19.3	3.2	80	<0.1	11.9	13.1	465	3.22	8.4	0.4	0.8	2.4	43	<0.1	0.2	<0.1	79	0.52	0.145
122419	Soil	0.4	12.7	4.8	44	<0.1	10.1	4.8	161	1.47	7.6	0.2	<0.5	1.1	18	<0.1	0.2	<0.1	33	0.21	0.036
122420	Soil	0.9	12.0	7.0	52	<0.1	16.9	7.4	201	2.18	9.0	0.3	1.5	2.4	12	<0.1	0.4	0.1	57	0.12	0.027
122421	Soil	0.4	26.3	3.8	124	<0.1	15.2	17.9	493	4.30	8.0	0.4	0.6	2.8	31	<0.1	0.2	<0.1	132	0.65	0.118
103830	Soil	1.2	19.1	10.1	45	0.2	19.8	9.6	274	2.87	11.3	0.7	31.7	4.3	17	<0.1	0.4	0.2	66	0.22	0.030
103831	Soil	2.0	17.8	8.8	44	<0.1	14.4	7.1	261	2.34	7.4	0.9	26.0	7.2	18	<0.1	0.4	0.6	56	0.23	0.027
103832	Soil	0.9	18.6	7.4	43	<0.1	16.1	6.3	228	2.08	7.1	1.0	2.1	6.3	23	<0.1	0.4	0.2	56	0.30	0.026
103833	Soil	0.8	17.9	7.7	47	<0.1	15.1	7.6	228	2.12	7.3	0.8	8.4	5.1	22	<0.1	0.4	0.2	54	0.29	0.028
103834	Soil	1.2	20.7	29.7	58	<0.1	17.3	9.0	330	2.42	7.9	0.9	1.4	6.4	23	<0.1	0.4	0.3	61	0.33	0.023
103835	Soil	1.4	30.0	11.7	50	<0.1	24.3	10.7	359	2.68	9.8	1.3	6.4	5.7	30	<0.1	0.6	0.3	67	0.38	0.028
103836	Soil	1.1	26.5	9.2	45	<0.1	24.4	9.5	246	2.74	8.0	1.8	3.3	7.3	28	<0.1	0.5	0.3	68	0.31	0.015
103837	Soil	0.8	24.9	9.5	74	<0.1	27.2	11.5	441	3.02	7.9	1.9	2.2	8.7	32	<0.1	0.5	0.2	75	0.43	0.036
103838	Soil	1.0	34.8	11.0	82	<0.1	20.8	13.0	418	3.59	9.6	1.9	5.5	14.4	39	<0.1	0.5	0.2	75	0.48	0.029
103839	Soil	0.9	29.2	12.2	75	<0.1	21.9	9.4	413	2.98	10.4	2.3	4.3	18.2	26	<0.1	0.7	0.1	71	0.35	0.053
103840	Soil	0.9	27.7	12.9	82	<0.1	21.0	9.2	414	3.09	9.7	2.4	3.1	21.7	26	<0.1	0.7	0.1	70	0.37	0.062
103841	Soil	2.3	56.9	17.2	64	0.3	8.4	7.3	404	2.57	7.7	2.2	48.9	25.4	9	<0.1	0.3	0.2	31	0.08	0.032
103842	Soil	0.9	18.7	8.6	71	<0.1	18.4	12.8	337	2.88	8.6	1.0	8.3	9.7	29	<0.1	0.4	0.1	59	0.19	0.019
103843	Soil	0.6	24.2	9.6	104	<0.1	15.2	12.0	529	3.80	7.6	2.0	13.0	12.7	29	<0.1	0.4	0.2	84	0.53	0.093
103844	Soil	5.3	42.3	13.8	59	0.7	12.1	7.4	494	2.15	10.0	0.8	490.5	6.7	14	<0.1	0.7	0.3	36	0.23	0.044
103845	Soil	2.0	34.9	19.2	82	0.3	60.9	9.9	344	2.52	8.7	0.7	2.4	3.9	36	<0.1	0.9	0.4	72	0.30	0.024
103846	Soil	1.8	34.8	19.3	96	<0.1	27.1	13.1	394	3.55	9.0	0.9	4.4	6.1	25	<0.1	1.0	0.6	75	0.43	0.035
103847	Soil	1.3	31.2	9.1	57	<0.1	24.0	11.9	306	2.86	10.0	1.3	3.3	5.9	37	<0.1	0.6	0.2	73	0.45	0.046
103848	Soil	1.5	21.1	14.7	69	<0.1	18.7	10.0	289	2.84	9.3	0.7	2.5	4.5	26	<0.1	0.4	0.2	68	0.30	0.034
103849	Soil	1.1	20.4	10.4	58	<0.1	18.4	10.4	298	2.64	10.3	0.7	2.3	5.6	44	<0.1	0.5	0.1	65	0.35	0.028
103850	Soil	1.2	19.7	9.8	60	<0.1	17.6	9.6	288	2.49	9.1	0.7	3.9	5.5	34	<0.1	0.4	0.2	59	0.37	0.037

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 7 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
122413	Soil	5	19	0.55	176	0.119	<1	1.50	0.007	0.29	<0.1	<0.01	1.9	<0.1	0.06	4	<0.5	<0.2
122414	Soil	24	139	1.68	718	0.209	<1	3.04	0.010	0.95	<0.1	<0.01	7.3	0.3	<0.05	9	<0.5	<0.2
122415	Soil	18	11	0.63	140	0.165	<1	1.42	0.009	0.60	<0.1	0.01	3.3	0.1	0.06	7	<0.5	<0.2
122416	Soil	8	15	0.53	158	0.116	<1	1.27	0.005	0.35	<0.1	<0.01	1.4	0.1	<0.05	4	<0.5	<0.2
122417	Soil	19	12	0.49	143	0.080	<1	1.10	0.007	0.12	<0.1	<0.01	3.7	<0.1	0.06	4	0.6	<0.2
122418	Soil	11	17	1.18	342	0.227	<1	2.17	0.007	0.58	<0.1	<0.01	2.3	0.2	0.07	7	<0.5	<0.2
122419	Soil	4	15	0.39	149	0.069	<1	1.21	0.005	0.16	<0.1	<0.01	1.6	<0.1	0.05	4	<0.5	<0.2
122420	Soil	8	30	0.38	210	0.064	<1	1.48	0.007	0.06	0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
122421	Soil	19	35	2.63	781	0.294	<1	3.24	0.014	1.15	<0.1	<0.01	4.7	0.2	0.05	10	<0.5	<0.2
103830	Soil	15	34	0.45	283	0.068	1	1.87	0.011	0.05	0.3	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
103831	Soil	20	28	0.38	203	0.086	<1	1.64	0.011	0.06	0.2	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
103832	Soil	24	31	0.40	254	0.100	<1	1.41	0.015	0.06	0.2	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
103833	Soil	15	29	0.47	200	0.092	<1	1.52	0.011	0.07	0.2	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
103834	Soil	18	34	0.50	227	0.107	<1	1.75	0.016	0.12	0.2	0.03	4.7	0.1	<0.05	5	<0.5	<0.2
103835	Soil	18	40	0.47	320	0.115	<1	1.83	0.015	0.07	0.2	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
103836	Soil	20	44	0.47	325	0.083	<1	2.08	0.015	0.06	0.1	0.02	6.4	<0.1	<0.05	6	0.5	<0.2
103837	Soil	25	60	0.81	256	0.096	<1	2.02	0.011	0.10	0.2	0.02	5.8	0.1	<0.05	7	<0.5	<0.2
103838	Soil	34	37	0.72	320	0.118	<1	2.48	0.013	0.08	0.3	0.04	7.2	<0.1	<0.05	9	<0.5	<0.2
103839	Soil	46	36	0.50	236	0.065	1	1.69	0.012	0.08	0.3	0.04	6.6	<0.1	<0.05	6	<0.5	<0.2
103840	Soil	46	32	0.48	225	0.055	1	1.73	0.012	0.09	0.3	0.04	7.0	<0.1	<0.05	6	0.7	<0.2
103841	Soil	9	14	0.50	150	0.014	<1	1.52	0.006	0.12	2.4	0.03	2.0	<0.1	<0.05	6	<0.5	0.6
103842	Soil	12	27	0.76	163	0.151	<1	2.56	0.010	0.12	0.3	0.01	2.0	0.2	<0.05	7	<0.5	<0.2
103843	Soil	69	34	0.87	225	0.081	2	2.32	0.007	0.16	1.4	0.01	5.4	0.2	<0.05	11	<0.5	<0.2
103844	Soil	11	21	0.25	395	0.014	2	1.41	0.006	0.15	0.9	0.03	2.5	0.1	<0.05	5	<0.5	1.6
103845	Soil	16	121	1.04	276	0.075	1	2.14	0.009	0.08	0.2	0.02	3.3	0.1	<0.05	8	<0.5	<0.2
103846	Soil	8	51	0.99	251	0.062	1	2.33	0.009	0.14	0.3	0.02	4.8	0.1	<0.05	8	<0.5	<0.2
103847	Soil	28	45	0.80	241	0.122	1	1.89	0.020	0.07	0.2	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
103848	Soil	13	36	0.77	201	0.121	<1	1.91	0.010	0.19	0.2	0.02	2.8	0.2	0.06	6	<0.5	<0.2
103849	Soil	16	36	0.65	228	0.114	<1	1.82	0.011	0.09	0.3	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
103850	Soil	14	32	0.59	266	0.096	<1	1.77	0.011	0.10	0.3	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 8 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	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
103851	Soil			1.2	19.4	10.0	84	0.2	17.6	11.9	376	3.19	6.0	0.9	8.5	5.9	33	0.1	0.4	0.3	73	0.34	0.041
103852	Soil			1.8	22.1	9.0	51	0.3	17.7	8.7	249	2.69	9.6	0.7	13.6	4.3	28	<0.1	0.4	0.2	67	0.30	0.025
103853	Soil			1.8	21.5	11.3	70	0.3	32.5	15.0	489	3.23	9.1	1.4	5.5	9.6	39	0.1	0.4	0.2	73	0.49	0.057
103854	Soil			1.1	21.2	8.5	55	0.2	19.1	8.7	235	2.48	8.3	1.4	24.7	10.7	22	0.1	0.4	0.2	55	0.29	0.041
103855	Soil			1.2	19.9	8.4	58	0.2	16.5	8.4	266	2.64	7.6	1.5	38.6	11.4	22	<0.1	0.4	0.2	57	0.31	0.029
103856	Soil			1.2	16.5	8.5	63	0.1	14.8	7.3	271	2.64	7.5	0.8	8.0	5.6	23	<0.1	0.4	0.2	59	0.33	0.039
103857	Soil			1.2	16.4	10.0	69	<0.1	14.7	10.2	350	2.85	6.8	0.7	8.9	5.7	20	0.1	0.4	0.2	65	0.26	0.040
103858	Soil			1.2	10.6	7.9	51	0.2	10.6	6.3	274	2.09	7.1	0.5	4.5	2.9	16	0.2	0.4	0.3	53	0.20	0.035
103859	Soil			0.8	28.9	9.6	62	<0.1	16.9	8.5	270	2.66	8.9	2.0	17.2	9.2	25	0.1	0.5	0.3	56	0.36	0.040
103860	Soil			0.9	22.7	9.7	49	0.1	13.2	6.5	199	2.32	7.9	0.7	10.6	2.6	18	<0.1	0.4	0.2	54	0.23	0.035
103861	Soil			0.9	32.4	9.0	64	<0.1	16.6	10.3	346	2.84	9.4	1.4	20.6	5.2	25	0.1	0.5	0.3	60	0.34	0.042
103862	Soil			0.9	17.7	9.4	66	<0.1	13.9	8.3	389	2.68	10.0	0.8	6.0	2.9	24	0.1	0.4	0.2	58	0.30	0.065
103863	Soil			1.1	21.2	10.5	88	<0.1	16.1	11.7	364	3.17	9.5	0.9	5.6	10.0	27	0.2	0.6	0.2	55	0.26	0.050
103864	Soil			1.5	23.3	14.0	121	<0.1	14.5	9.8	397	3.11	5.3	1.8	2.2	13.6	31	0.2	0.6	0.2	52	0.35	0.074
106046	Soil			2.4	38.7	12.4	143	0.2	14.9	13.6	763	4.07	4.4	1.7	74.2	10.3	19	0.1	0.5	0.2	62	0.39	0.066
106047	Soil			1.7	21.8	8.8	59	<0.1	33.1	11.1	290	2.77	8.7	0.6	3.6	4.1	20	0.1	0.4	0.2	64	0.24	0.021
106048	Soil			1.5	18.9	7.3	75	<0.1	10.4	10.6	495	3.04	5.0	0.7	0.7	4.8	9	<0.1	0.2	0.2	47	0.14	0.045
106049	Soil			3.7	19.9	10.7	77	<0.1	7.7	9.3	772	3.18	4.6	1.4	<0.5	11.1	13	<0.1	0.8	0.7	37	0.20	0.043
106050	Soil			1.4	32.6	9.3	108	<0.1	15.8	13.5	733	4.04	6.9	1.2	2.3	10.8	21	<0.1	0.3	0.2	71	0.32	0.013
106051	Soil			0.9	16.5	10.1	47	<0.1	19.1	7.9	244	2.63	8.7	0.5	1.8	3.1	19	<0.1	0.4	0.2	66	0.21	0.015
106052	Soil			1.0	18.5	9.8	104	<0.1	10.4	11.8	642	3.45	5.5	0.8	<0.5	4.2	16	0.1	0.2	0.2	61	0.19	0.045
106053	Soil			0.9	26.7	7.3	69	<0.1	9.9	6.6	491	3.18	4.3	1.7	<0.5	26.8	14	<0.1	0.3	0.1	37	0.18	0.036
106054	Soil			0.9	24.4	8.2	55	<0.1	19.7	7.7	290	2.70	8.6	1.1	2.2	11.8	18	0.1	0.5	0.1	56	0.21	0.010
106055	Soil			1.7	11.0	9.1	38	<0.1	12.9	6.6	222	2.75	7.6	0.4	<0.5	4.0	16	<0.1	0.4	0.2	67	0.17	0.021
106056	Soil			1.0	14.8	9.1	50	<0.1	17.5	8.1	334	2.63	6.9	0.6	<0.5	7.5	21	0.1	0.7	0.1	55	0.26	0.016
106057	Soil			1.3	25.2	17.4	99	<0.1	28.2	15.1	790	4.43	7.9	1.0	<0.5	10.1	39	<0.1	1.5	0.1	84	0.44	0.017
106058	Soil			1.4	12.0	12.7	50	<0.1	12.0	5.2	260	2.50	8.1	0.4	<0.5	2.7	9	<0.1	1.3	0.2	64	0.10	0.033
106059	Soil			0.6	16.0	12.9	53	<0.1	15.2	6.1	228	2.13	6.1	0.6	0.7	3.2	15	<0.1	0.5	0.2	45	0.20	0.026
106060	Soil			1.0	18.3	11.9	50	<0.1	20.0	8.2	237	2.59	7.8	0.7	<0.5	3.9	20	0.1	0.6	0.2	61	0.24	0.020
106061	Soil			1.2	21.7	11.9	48	<0.1	20.9	8.2	203	2.61	9.3	0.7	<0.5	4.0	25	<0.1	1.0	0.6	64	0.30	0.015

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Page: 8 of 11 Part 2

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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
103851	Soil	11	35	0.90	195	0.106	1	2.09	0.008	0.11	0.5	0.02	3.2	<0.1	0.11	8	<0.5	<0.2
103852	Soil	14	36	0.62	187	0.084	1	1.77	0.009	0.05	0.3	0.03	2.6	<0.1	0.09	6	<0.5	<0.2
103853	Soil	26	55	1.00	244	0.122	1	2.13	0.009	0.09	0.4	0.02	3.3	<0.1	0.09	7	<0.5	<0.2
103854	Soil	25	34	0.57	180	0.067	1	1.51	0.010	0.06	0.3	0.03	3.6	<0.1	0.06	5	<0.5	<0.2
103855	Soil	42	34	0.56	200	0.060	<1	1.60	0.009	0.07	0.3	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
103856	Soil	12	28	0.60	170	0.059	1	1.71	0.009	0.06	0.3	0.03	3.0	<0.1	0.06	6	<0.5	<0.2
103857	Soil	11	33	0.61	219	0.069	<1	1.67	0.012	0.06	0.3	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
103858	Soil	9	22	0.40	166	0.048	<1	1.22	0.007	0.06	0.3	0.02	2.1	<0.1	0.05	5	<0.5	<0.2
103859	Soil	40	30	0.57	242	0.063	<1	1.53	0.010	0.07	0.3	0.05	5.2	<0.1	<0.05	5	<0.5	<0.2
103860	Soil	11	25	0.40	167	0.051	<1	1.44	0.009	0.05	0.2	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
103861	Soil	20	31	0.54	253	0.074	<1	1.71	0.013	0.07	0.3	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
103862	Soil	13	25	0.48	201	0.067	<1	1.68	0.009	0.07	0.3	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
103863	Soil	18	28	0.64	171	0.083	1	2.00	0.007	0.15	0.3	0.01	2.5	0.1	<0.05	7	<0.5	<0.2
103864	Soil	33	25	0.64	175	0.073	<1	1.70	0.008	0.25	0.2	0.02	2.3	0.2	0.06	7	<0.5	<0.2
106046	Soil	46	44	1.14	410	0.126	<1	2.06	0.007	0.83	5.2	0.04	7.3	0.4	<0.05	8	<0.5	0.3
106047	Soil	10	84	0.68	241	0.078	<1	2.10	0.010	0.04	0.2	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
106048	Soil	6	22	0.72	115	0.162	<1	1.72	0.009	0.57	0.2	<0.1	2.5	0.3	<0.05	9	<0.5	<0.2
106049	Soil	26	19	0.72	259	0.081	4	1.85	0.007	0.47	0.5	0.01	4.1	0.3	<0.05	7	<0.5	<0.2
106050	Soil	16	31	1.15	242	0.196	<1	2.28	0.009	0.58	0.2	<0.01	6.5	0.4	<0.05	9	<0.5	<0.2
106051	Soil	9	34	0.41	222	0.052	<1	1.91	0.009	0.03	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
106052	Soil	11	22	1.05	141	0.163	<1	1.98	0.007	0.39	0.2	<0.01	3.0	0.3	<0.05	9	<0.5	<0.2
106053	Soil	45	16	0.54	106	0.104	<1	1.71	0.008	0.46	0.2	0.01	4.9	0.2	<0.05	8	<0.5	<0.2
106054	Soil	29	32	0.53	152	0.088	1	1.52	0.012	0.07	0.2	0.03	5.9	<0.1	<0.05	5	<0.5	<0.2
106055	Soil	8	26	0.36	184	0.056	<1	1.57	0.008	0.05	0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
106056	Soil	11	29	0.49	264	0.038	<1	1.82	0.008	0.06	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
106057	Soil	19	54	1.44	339	0.165	<1	3.02	0.007	0.13	0.5	0.02	4.6	<0.1	<0.05	10	<0.5	<0.2
106058	Soil	6	23	0.36	182	0.037	1	1.48	0.007	0.07	0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
106059	Soil	10	25	0.40	169	0.052	1	1.38	0.008	0.06	0.2	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
106060	Soil	14	31	0.44	319	0.052	1	1.85	0.009	0.06	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
106061	Soil	13	38	0.45	318	0.058	<1	2.09	0.010	0.05	0.1	0.11	3.7	<0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
Report Date: August 17, 2011

Page: 9 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
106062	Soil		0.8	15.4	13.9	65	<0.1	13.6	8.6	232	2.47	5.8	0.6	<0.5	2.6	9	<0.1	1.5	0.2	54	0.09	0.026
106063	Soil		1.0	13.8	10.0	57	<0.1	15.0	8.6	351	2.33	6.1	0.5	0.8	3.0	14	0.1	0.6	0.2	56	0.17	0.026
106064	Soil		0.9	20.6	14.3	56	<0.1	18.0	8.5	244	2.63	7.0	1.0	1.9	5.4	24	<0.1	1.0	0.2	59	0.28	0.016
106065	Soil		1.0	15.8	13.1	61	<0.1	15.3	12.1	412	2.61	6.6	0.6	1.8	4.4	19	<0.1	0.6	0.2	55	0.22	0.031
106066	Soil		0.6	16.7	10.2	55	<0.1	12.7	7.4	249	2.05	3.7	0.9	1.4	3.9	18	<0.1	0.5	0.1	47	0.22	0.027
106067	Soil		0.7	13.8	11.4	56	<0.1	12.4	6.8	304	2.07	4.5	0.8	<0.5	4.1	20	<0.1	0.4	0.1	47	0.34	0.032
106068	Soil		0.7	18.7	20.8	68	<0.1	12.4	7.0	277	2.31	17.8	1.0	3.4	4.3	23	0.2	0.8	0.2	46	0.31	0.046
106069	Soil		0.7	21.9	8.6	49	0.1	17.2	7.5	241	2.18	7.1	1.3	6.8	4.0	28	<0.1	0.6	0.1	45	0.35	0.048
104785	Soil		2.9	27.2	23.3	106	<0.1	13.6	14.6	1001	3.59	5.9	1.1	2.8	7.1	16	0.2	0.3	0.3	54	0.18	0.061
104786	Soil		1.4	14.5	10.4	52	<0.1	16.7	7.2	253	2.99	9.6	0.5	2.1	2.9	15	<0.1	0.4	0.2	72	0.16	0.020
104787	Soil		2.5	29.1	10.0	110	<0.1	6.4	8.4	702	3.87	2.9	1.1	1.0	7.8	20	<0.1	0.2	0.2	45	0.32	0.058
104788	Soil		1.1	18.6	10.3	59	<0.1	22.3	9.1	278	2.90	8.3	0.5	3.2	3.3	13	<0.1	0.4	0.2	65	0.10	0.015
104789	Soil		0.9	21.0	12.4	59	<0.1	18.6	10.0	334	2.84	7.3	0.6	3.1	3.8	17	<0.1	0.5	0.2	57	0.16	0.016
104790	Soil		1.0	20.8	10.2	49	<0.1	17.6	7.6	222	2.89	9.5	0.9	4.0	5.9	18	<0.1	0.5	0.2	66	0.16	0.016
104791	Soil		1.1	22.7	10.5	50	<0.1	19.3	8.3	233	3.03	9.7	1.0	3.9	7.2	19	<0.1	0.6	0.2	66	0.17	0.013
104792	Soil		1.1	16.4	10.3	57	<0.1	17.5	7.9	259	2.97	9.8	0.4	1.3	2.4	15	0.1	0.4	0.2	66	0.16	0.037
104793	Soil		1.1	14.6	11.7	66	<0.1	19.2	8.7	430	2.93	7.3	0.6	1.7	5.2	13	<0.1	0.6	0.2	62	0.10	0.019
104794	Soil		1.4	15.7	9.1	68	<0.1	17.0	10.6	622	3.40	7.6	1.4	1.5	10.8	14	<0.1	0.5	0.2	56	0.16	0.028
104795	Soil		2.4	54.4	19.1	103	0.2	9.9	6.8	533	3.00	7.8	2.4	3.9	13.6	17	0.1	10.7	0.7	23	0.11	0.016
104796	Soil		1.4	26.1	9.4	71	<0.1	17.1	10.6	625	3.73	6.5	0.9	2.2	12.2	19	<0.1	0.7	0.2	67	0.18	0.022
104797	Soil		1.8	18.6	9.0	50	<0.1	22.0	9.3	585	2.89	8.1	0.6	0.5	4.3	20	<0.1	0.6	0.2	61	0.23	0.018
104798	Soil		1.4	14.5	13.0	60	<0.1	18.1	9.1	573	3.36	10.7	0.6	1.2	6.1	17	0.1	0.7	0.2	69	0.17	0.037
104799	Soil		1.1	14.6	9.1	45	<0.1	22.6	9.9	250	2.82	10.2	0.4	1.4	3.0	25	<0.1	0.5	0.2	62	0.27	0.022
104800	Soil		0.9	14.5	8.4	54	<0.1	16.7	8.5	379	2.57	8.1	0.6	<0.5	4.9	22	<0.1	0.8	0.1	56	0.24	0.019
104801	Soil		1.3	18.9	10.4	50	<0.1	21.1	8.9	364	2.75	9.3	1.0	1.0	6.3	21	<0.1	0.8	0.1	62	0.24	0.015
104802	Soil		1.3	13.4	9.0	65	<0.1	11.0	8.3	456	3.11	6.5	0.8	1.2	8.0	23	<0.1	0.6	<0.1	58	0.22	0.032
104803	Soil		1.5	15.2	13.9	65	<0.1	11.9	7.2	369	3.25	6.2	1.8	2.1	8.6	16	<0.1	1.2	0.3	44	0.16	0.016
104804	Soil		1.7	5.4	8.3	40	<0.1	5.9	7.2	375	1.93	5.2	0.6	<0.5	4.3	13	<0.1	0.9	<0.1	28	0.16	0.041
104805	Soil		1.6	16.1	12.8	51	0.6	17.0	8.0	377	2.65	8.2	0.8	2.7	4.9	20	<0.1	1.6	0.5	49	0.24	0.025
104806	Soil		1.3	16.2	13.2	66	0.3	18.0	9.0	954	2.69	7.4	0.9	5.7	5.0	20	0.2	1.8	0.1	50	0.23	0.023

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 9 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	0.1	0.01	0.05	1	0.5	0.2	
106062	Soil	6	21	0.26	115	0.033	2	1.58	0.006	0.07	0.3	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
106063	Soil	9	28	0.38	177	0.069	<1	1.72	0.008	0.06	0.2	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
106064	Soil	17	34	0.48	269	0.065	<1	1.93	0.010	0.06	0.1	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
106065	Soil	10	29	0.43	158	0.067	<1	1.60	0.008	0.07	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
106066	Soil	15	24	0.40	161	0.077	<1	1.38	0.010	0.05	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
106067	Soil	16	25	0.42	178	0.075	<1	1.43	0.011	0.10	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
106068	Soil	16	24	0.49	188	0.081	2	1.37	0.015	0.09	0.1	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2
106069	Soil	14	25	0.43	257	0.065	2	1.29	0.017	0.04	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
104785	Soil	10	27	0.63	162	0.113	2	1.82	0.012	0.33	0.3	0.02	3.6	0.2	<0.05	7	<0.5	<0.2
104786	Soil	8	38	0.45	171	0.075	1	1.86	0.009	0.04	0.2	<0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
104787	Soil	8	18	0.86	206	0.148	<1	2.27	0.008	0.79	0.3	<0.01	4.8	0.4	<0.05	9	<0.5	<0.2
104788	Soil	8	37	0.50	206	0.078	<1	2.11	0.009	0.04	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
104789	Soil	9	34	0.63	221	0.100	1	1.95	0.009	0.11	0.2	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
104790	Soil	20	38	0.49	200	0.076	<1	1.96	0.009	0.05	0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
104791	Soil	23	42	0.49	213	0.077	<1	1.91	0.012	0.04	0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
104792	Soil	7	35	0.50	167	0.084	1	1.75	0.009	0.07	0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
104793	Soil	8	31	0.43	177	0.093	<1	1.78	0.010	0.06	0.2	0.01	3.0	<0.1	<0.05	7	<0.5	<0.2
104794	Soil	8	27	0.50	145	0.112	<1	1.84	0.009	0.19	0.2	0.02	3.8	0.2	<0.05	7	<0.5	<0.2
104795	Soil	36	18	0.21	252	0.010	4	1.07	0.007	0.12	0.1	0.79	4.0	<0.1	<0.05	3	0.8	<0.2
104796	Soil	12	28	0.79	196	0.070	<1	2.11	0.010	0.06	0.1	0.02	4.2	<0.1	<0.05	9	<0.5	<0.2
104797	Soil	9	41	0.62	316	0.099	<1	1.84	0.010	0.09	0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
104798	Soil	9	32	0.56	338	0.070	1	1.88	0.009	0.08	0.2	0.01	3.4	<0.1	<0.05	8	<0.5	<0.2
104799	Soil	9	36	0.44	285	0.079	1	1.66	0.011	0.06	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
104800	Soil	10	28	0.50	252	0.074	1	1.53	0.009	0.06	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
104801	Soil	24	37	0.45	296	0.064	<1	1.82	0.011	0.05	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
104802	Soil	14	21	0.72	192	0.115	<1	2.02	0.009	0.11	0.2	<0.01	3.0	<0.1	<0.05	8	<0.5	<0.2
104803	Soil	48	20	0.29	254	0.026	2	1.20	0.007	0.08	0.2	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
104804	Soil	8	13	0.14	149	0.010	2	0.79	0.005	0.09	0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
104805	Soil	14	31	0.41	394	0.047	<1	1.39	0.009	0.08	0.1	0.09	2.9	<0.1	<0.05	4	<0.5	<0.2
104806	Soil	12	33	0.43	420	0.039	2	1.34	0.009	0.06	<0.1	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2

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 Report Date: August 17, 2011

Page: 10 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	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	
104807	Soil	1.1	18.1	10.9	54	0.2	20.1	8.4	304	2.57	6.2	0.9	1.5	5.7	24	0.1	1.9	0.1	52	0.31	0.031
104808	Soil	1.4	19.5	10.1	53	0.1	19.0	8.0	240	2.67	6.5	0.9	1.6	5.9	26	0.1	0.9	0.1	55	0.32	0.026
104809	Soil	0.9	19.0	8.2	55	<0.1	17.8	9.0	265	2.74	7.2	0.9	27.9	4.9	27	<0.1	0.7	0.1	59	0.30	0.027
104810	Soil	1.0	26.4	9.2	58	<0.1	18.7	9.4	260	2.92	7.8	1.1	1.7	7.3	23	<0.1	0.7	0.2	63	0.25	0.021
104811	Soil	0.9	30.8	8.8	61	<0.1	22.7	10.3	303	2.49	6.1	1.5	1.5	4.4	39	<0.1	0.6	0.1	63	0.42	0.042
104812	Soil	0.9	26.5	8.7	53	<0.1	20.1	9.7	234	2.66	8.3	2.3	2.1	5.4	29	<0.1	0.6	0.1	61	0.30	0.031
104813	Soil	0.7	18.1	8.1	56	<0.1	16.7	7.5	191	2.13	5.0	1.1	2.3	5.9	25	<0.1	0.4	0.2	43	0.29	0.037
106070	Soil	1.0	22.8	8.4	50	<0.1	20.3	10.0	407	2.22	7.5	1.2	1.5	3.7	28	<0.1	0.5	0.1	51	0.40	0.053
106071	Soil	1.1	22.9	9.2	51	0.1	22.5	10.6	513	2.25	6.9	1.1	6.8	2.9	32	0.2	0.5	0.2	50	0.47	0.056
106072	Soil	0.8	24.1	8.4	52	<0.1	21.0	9.2	243	2.32	8.1	0.9	1.8	3.1	28	0.2	0.6	0.2	51	0.41	0.056
106073	Soil	0.7	18.3	8.4	54	0.1	15.5	7.0	224	2.03	6.1	0.8	1.7	3.0	27	0.2	0.5	0.1	50	0.38	0.059
106074	Soil	0.8	20.0	7.4	49	<0.1	16.9	9.4	332	2.07	6.6	0.8	4.6	2.6	31	0.1	0.4	0.1	47	0.48	0.061
106075	Soil	0.8	20.3	7.0	52	<0.1	18.0	8.6	301	2.13	7.0	0.8	2.7	2.6	31	0.1	0.4	0.2	54	0.46	0.058
106076	Soil	0.8	20.5	7.0	45	<0.1	18.2	9.5	305	2.12	8.8	0.9	2.5	2.9	27	0.2	0.5	0.2	52	0.40	0.052
122422	Soil	0.5	19.4	5.2	52	<0.1	16.7	12.7	360	2.80	8.6	0.5	5.5	3.3	18	<0.1	0.4	0.2	71	0.25	0.038
122423	Soil	0.7	19.4	6.0	68	<0.1	16.3	9.2	250	2.49	10.3	0.3	6.1	1.9	16	<0.1	0.4	0.2	72	0.20	0.038
122424	Soil	0.3	184.3	1.8	74	0.1	17.2	21.1	694	3.95	5.7	0.3	3.7	1.2	17	<0.1	0.2	0.1	123	0.31	0.069
122425	Soil	0.1	9.2	1.2	74	<0.1	11.7	23.4	700	2.71	5.4	0.2	<0.5	0.5	55	<0.1	0.1	<0.1	101	0.65	0.105
122426	Soil	0.8	47.9	5.6	94	<0.1	17.8	11.6	345	2.65	10.0	0.3	<0.5	1.3	47	0.2	0.3	0.2	70	0.58	0.078
122427	Soil	0.3	45.4	3.2	115	<0.1	16.2	12.6	345	3.20	6.7	0.1	<0.5	0.7	89	<0.1	0.1	<0.1	102	0.41	0.056
122428	Soil	0.3	64.9	2.3	49	<0.1	19.9	20.6	456	2.85	6.7	<0.1	<0.5	0.3	49	<0.1	0.1	<0.1	103	0.35	0.057
122429	Soil	0.5	30.4	3.6	73	<0.1	16.2	18.9	418	3.28	7.8	0.2	<0.5	1.2	25	<0.1	0.2	<0.1	76	0.47	0.123
122430	Soil	0.6	24.2	4.9	96	<0.1	13.7	20.4	871	3.44	7.3	0.2	<0.5	1.3	35	<0.1	0.2	<0.1	74	0.42	0.105
122431	Soil	0.2	51.7	3.4	54	<0.1	30.3	16.5	324	3.15	7.9	0.3	1.5	1.3	71	<0.1	0.2	<0.1	78	0.81	0.070
122432	Soil	0.1	75.4	1.5	36	<0.1	18.0	17.9	281	2.16	6.8	0.1	<0.5	0.4	65	<0.1	<0.1	<0.1	81	0.66	0.131
105765	Soil	0.7	12.9	7.7	102	<0.1	20.9	10.6	306	3.28	10.8	0.3	<0.5	2.1	29	<0.1	0.3	0.1	92	0.28	0.053
105766	Soil	0.3	15.3	4.7	167	<0.1	12.4	12.8	636	3.75	6.0	0.6	<0.5	4.0	43	<0.1	<0.1	<0.1	92	0.87	0.166
105767	Soil	0.4	20.3	4.9	52	<0.1	4.3	6.2	336	2.07	6.2	0.4	<0.5	2.6	17	<0.1	<0.1	<0.1	38	0.73	0.060
105768	Soil	4.4	15.1	6.0	75	<0.1	17.1	9.8	327	2.11	32.0	0.8	0.5	1.9	12	0.1	0.5	<0.1	70	2.07	0.061
105769	Soil	0.4	12.6	3.3	79	<0.1	8.6	8.3	379	2.85	6.5	0.4	<0.5	2.6	15	<0.1	0.2	<0.1	73	0.31	0.070

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 10 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000762.1

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	
104807	Soil	20	39	0.52	399	0.052	2	1.38	0.010	0.06	<0.1	0.06	3.5	<0.1	<0.05	5	<0.5	<0.2
104808	Soil	15	35	0.48	343	0.057	2	1.68	0.013	0.06	0.1	0.07	3.8	<0.1	<0.05	6	<0.5	<0.2
104809	Soil	16	31	0.57	261	0.104	<1	1.70	0.015	0.06	0.2	0.04	3.4	<0.1	<0.05	6	<0.5	<0.2
104810	Soil	22	36	0.57	250	0.061	<1	1.88	0.011	0.04	<0.1	0.05	4.2	<0.1	<0.05	7	<0.5	<0.2
104811	Soil	16	38	0.72	261	0.122	<1	1.64	0.020	0.08	0.1	0.04	4.8	<0.1	<0.05	6	<0.5	<0.2
104812	Soil	16	35	0.52	259	0.095	<1	1.69	0.013	0.06	0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
104813	Soil	18	27	0.44	191	0.076	<1	1.30	0.010	0.07	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
106070	Soil	12	26	0.40	284	0.060	<1	1.29	0.017	0.04	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
106071	Soil	12	28	0.44	302	0.060	<1	1.38	0.019	0.04	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
106072	Soil	12	26	0.43	261	0.058	<1	1.33	0.016	0.04	0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
106073	Soil	11	24	0.38	219	0.064	<1	1.23	0.015	0.04	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
106074	Soil	12	25	0.40	248	0.056	<1	1.18	0.016	0.04	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
106075	Soil	11	27	0.43	226	0.062	3	1.24	0.015	0.05	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
106076	Soil	11	25	0.40	227	0.057	2	1.22	0.012	0.04	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
122422	Soil	13	28	1.10	351	0.128	1	1.63	0.010	0.31	0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
122423	Soil	6	28	0.66	213	0.123	1	1.49	0.007	0.32	0.2	<0.01	2.3	0.1	<0.05	6	<0.5	<0.2
122424	Soil	5	25	1.75	607	0.293	<1	2.55	0.008	1.24	<0.1	<0.01	2.8	0.2	<0.05	8	<0.5	0.3
122425	Soil	3	17	2.02	321	0.195	<1	2.17	0.007	0.52	<0.1	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
122426	Soil	4	28	0.89	189	0.064	1	2.32	0.006	0.29	0.1	<0.01	3.3	<0.1	<0.05	10	<0.5	<0.2
122427	Soil	2	26	1.17	246	0.259	<1	2.56	0.007	0.71	0.1	<0.01	2.3	0.2	<0.05	12	<0.5	<0.2
122428	Soil	<1	41	1.66	178	0.147	<1	2.34	0.010	0.22	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
122429	Soil	5	21	1.47	315	0.153	1	2.38	0.012	0.33	<0.1	<0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
122430	Soil	4	21	1.38	452	0.155	<1	2.46	0.012	0.33	<0.1	<0.01	1.8	0.1	<0.05	6	<0.5	<0.2
122431	Soil	8	64	1.70	376	0.166	<1	2.74	0.013	0.37	<0.1	<0.01	2.7	0.1	<0.05	7	<0.5	<0.2
122432	Soil	2	41	1.67	279	0.137	<1	1.85	0.010	0.31	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
105765	Soil	7	34	0.76	152	0.130	1	2.51	0.009	0.16	0.1	<0.01	1.9	0.1	<0.05	8	<0.5	<0.2
105766	Soil	18	20	1.62	171	0.213	<1	2.37	0.006	0.55	<0.1	<0.01	1.7	0.3	<0.05	13	<0.5	<0.2
105767	Soil	11	6	0.68	783	0.057	<1	1.33	0.006	0.18	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
105768	Soil	10	32	1.16	94	0.041	<1	1.41	0.006	0.05	0.1	0.06	6.6	<0.1	<0.05	5	<0.5	<0.2
105769	Soil	10	15	0.97	208	0.165	<1	1.73	0.008	0.52	<0.1	<0.01	3.1	0.2	<0.05	7	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 17, 2011

Page: 11 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000762.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
105770	Soil		0.4	13.8	2.9	44	<0.1	11.1	6.5	280	2.34	7.8	0.4	<0.5	6.4	11	<0.1	0.2	<0.1	61	0.19	0.024
105771	Soil		1.8	40.8	11.7	62	<0.1	11.8	12.7	641	4.27	6.5	0.5	<0.5	0.8	53	<0.1	<0.1	<0.1	148	0.85	0.091
105772	Soil		7.8	37.8	15.6	82	0.1	22.5	6.3	309	2.07	11.9	0.8	0.6	1.3	56	0.2	0.4	0.1	52	6.33	0.064
105773	Soil		0.1	28.6	0.8	186	<0.1	6.9	17.5	1096	4.02	3.5	0.3	1.6	1.6	44	<0.1	0.1	<0.1	150	3.31	0.079
105774	Soil		1.0	17.2	8.0	52	<0.1	22.5	11.8	514	2.78	9.8	0.6	0.6	3.6	18	<0.1	0.5	0.1	66	0.29	0.046
105775	Soil		0.7	20.8	5.3	52	<0.1	17.0	7.2	353	2.37	9.5	0.5	0.9	5.4	15	<0.1	0.4	<0.1	64	0.19	0.043
105776	Soil		0.6	30.9	7.3	49	<0.1	28.9	10.4	380	2.59	13.4	0.4	5.4	4.0	25	<0.1	0.6	0.1	67	0.50	0.028
105777	Soil		1.4	10.1	6.7	48	<0.1	18.4	7.2	348	2.21	7.7	0.3	<0.5	2.8	19	<0.1	0.3	0.1	61	0.37	0.048
105778	Soil		0.8	26.5	7.1	51	<0.1	28.7	10.3	449	2.86	11.4	0.5	1.8	3.3	22	<0.1	0.5	0.1	70	0.49	0.035
105779	Soil		5.0	21.3	5.9	78	0.2	4.5	4.5	348	2.04	11.6	0.7	<0.5	6.2	23	0.1	0.1	<0.1	35	1.85	0.048
105780	Soil		3.9	22.6	16.4	129	0.3	21.1	6.3	371	1.82	5.0	0.9	<0.5	1.1	66	1.1	0.2	<0.1	44	7.66	0.049
105781	Soil		2.0	24.7	8.2	59	0.2	11.0	7.1	422	1.79	4.8	0.5	<0.5	0.9	75	0.2	0.1	<0.1	44	10.90	0.063
105782	Soil		0.9	29.5	5.1	97	<0.1	14.0	13.9	561	4.04	5.1	0.5	1.7	2.3	19	<0.1	0.2	<0.1	119	0.43	0.064
105783	Soil		0.8	35.3	2.4	69	<0.1	14.5	13.7	807	4.97	6.2	0.6	<0.5	1.6	22	<0.1	0.1	<0.1	131	0.45	0.055
105784	Soil		0.5	23.7	1.9	61	<0.1	7.9	12.2	933	3.71	4.9	0.5	2.1	2.9	15	<0.1	0.2	<0.1	94	0.39	0.084
105785	Soil		0.5	28.7	3.5	127	<0.1	20.5	12.5	445	3.47	7.1	0.5	7.7	2.5	30	<0.1	0.2	<0.1	103	0.46	0.145
105786	Soil		0.9	34.6	5.1	72	<0.1	20.4	9.5	337	2.67	9.9	0.5	<0.5	2.5	25	<0.1	0.4	<0.1	72	0.39	0.061
105787	Soil		0.5	29.1	4.5	65	<0.1	20.0	8.4	222	2.16	9.1	0.4	3.1	2.2	23	<0.1	0.3	<0.1	61	0.36	0.051
105788	Soil		1.1	31.8	7.3	68	<0.1	18.3	10.2	457	2.96	8.0	0.8	2.2	2.9	31	<0.1	0.3	0.1	77	0.57	0.052
105789	Soil		1.5	41.3	7.6	66	0.1	19.1	10.6	533	2.86	8.5	0.4	3.3	3.6	44	0.1	0.4	0.1	67	0.91	0.063
105790	Soil		1.1	41.9	9.4	74	0.1	23.3	11.5	529	2.95	11.7	0.5	2.3	4.2	45	0.1	0.5	0.1	69	1.10	0.069
105791	Soil		1.2	33.8	10.1	57	0.1	31.1	11.0	403	2.66	14.2	0.7	3.1	4.4	45	<0.1	0.5	0.2	63	0.62	0.056
105792	Soil		1.1	14.7	7.5	47	<0.1	10.6	5.9	188	1.94	8.2	0.5	<0.5	7.2	16	<0.1	0.3	0.1	44	0.17	0.025
105793	Soil		0.9	42.1	6.9	46	0.3	19.4	8.6	286	2.07	6.9	0.5	4.8	5.6	31	<0.1	0.6	0.2	43	0.94	0.022
105794	Soil		0.9	25.2	8.7	42	<0.1	12.7	5.5	183	1.64	5.5	0.6	6.2	6.9	17	<0.1	0.4	0.1	35	0.23	0.021
105795	Soil		0.7	12.7	5.4	39	<0.1	7.4	4.6	140	1.17	3.2	0.4	<0.5	5.7	18	<0.1	0.3	0.1	25	0.26	0.019
105796	Soil		1.7	20.6	23.2	113	<0.1	28.1	12.0	1022	3.55	10.5	0.8	1.1	7.5	22	0.1	0.6	0.3	53	0.44	0.050
105797	Soil		1.3	15.8	11.5	69	<0.1	19.6	9.4	859	2.80	7.1	0.7	<0.5	5.9	22	0.1	0.5	0.2	49	0.40	0.029
105798	Soil		0.7	12.7	6.8	119	<0.1	6.9	12.3	921	3.02	2.8	0.9	1.4	4.0	19	<0.1	0.2	<0.1	51	0.61	0.116



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Page: 11 of 11 Part 2

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
105770	Soil	22	16	0.66	148	0.161	<1	1.51	0.006	0.32	0.1	0.20	2.6	0.2	<0.05	6	<0.5	<0.2
105771	Soil	6	20	2.28	330	0.213	<1	2.91	0.013	0.29	0.1	0.05	6.8	<0.1	<0.05	10	<0.5	<0.2
105772	Soil	12	35	1.06	146	0.043	<1	1.22	0.005	0.07	0.1	0.03	3.7	0.1	<0.05	5	<0.5	<0.2
105773	Soil	7	16	2.77	599	0.217	<1	2.78	0.013	0.68	<0.1	0.12	16.1	0.2	<0.05	10	<0.5	<0.2
105774	Soil	10	38	0.52	224	0.092	1	1.69	0.010	0.16	0.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
105775	Soil	14	27	0.56	164	0.096	<1	1.64	0.007	0.25	0.1	0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
105776	Soil	15	33	0.62	260	0.088	1	1.40	0.019	0.09	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
105777	Soil	9	30	0.43	266	0.070	1	1.47	0.009	0.13	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
105778	Soil	15	37	0.65	212	0.104	2	1.41	0.015	0.14	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
105779	Soil	22	11	1.19	98	0.090	<1	1.58	0.005	0.26	0.1	0.04	3.9	0.2	<0.05	7	0.5	<0.2
105780	Soil	6	32	1.03	91	0.047	<1	0.81	0.007	0.21	0.2	0.04	4.9	0.2	<0.05	3	<0.5	<0.2
105781	Soil	5	35	1.12	365	0.094	<1	1.11	0.009	0.16	<0.1	0.03	3.1	0.1	<0.05	3	<0.5	<0.2
105782	Soil	7	23	1.36	430	0.280	<1	2.40	0.011	1.12	0.1	<0.01	10.1	0.2	<0.05	10	<0.5	<0.2
105783	Soil	8	20	2.17	337	0.351	<1	2.84	0.009	1.51	0.1	0.02	10.6	0.3	<0.05	11	<0.5	<0.2
105784	Soil	18	10	1.42	261	0.308	<1	2.11	0.007	1.08	<0.1	0.04	8.5	0.3	<0.05	8	<0.5	<0.2
105785	Soil	11	22	1.13	220	0.188	<1	1.89	0.006	0.84	<0.1	0.01	2.6	0.2	<0.05	11	<0.5	<0.2
105786	Soil	11	25	0.74	167	0.134	<1	1.51	0.010	0.35	0.1	0.02	3.6	0.2	<0.05	7	<0.5	<0.2
105787	Soil	9	25	0.61	127	0.102	<1	1.28	0.008	0.16	<0.1	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
105788	Soil	10	26	0.90	209	0.203	<1	1.86	0.016	0.32	0.1	0.02	5.2	0.2	<0.05	7	<0.5	<0.2
105789	Soil	13	25	0.89	307	0.142	<1	1.84	0.017	0.26	0.1	0.03	4.0	0.1	<0.05	6	<0.5	<0.2
105790	Soil	14	29	0.89	303	0.142	<1	1.94	0.021	0.26	0.1	0.04	4.3	0.1	<0.05	6	<0.5	<0.2
105791	Soil	15	37	0.63	308	0.094	1	1.61	0.024	0.07	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
105792	Soil	5	16	0.42	134	0.107	<1	1.36	0.009	0.25	0.2	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
105793	Soil	12	20	0.42	185	0.074	1	1.17	0.014	0.12	0.2	0.06	3.4	<0.1	<0.05	4	<0.5	<0.2
105794	Soil	11	19	0.37	105	0.077	<1	1.18	0.013	0.17	0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
105795	Soil	6	13	0.28	91	0.063	1	0.97	0.009	0.18	0.1	<0.01	2.3	0.1	<0.05	3	<0.5	<0.2
105796	Soil	23	39	0.51	304	0.053	2	1.67	0.011	0.24	0.1	0.01	10.0	<0.1	<0.05	6	<0.5	<0.2
105797	Soil	21	33	0.56	204	0.081	2	1.81	0.011	0.33	0.1	0.02	6.0	0.1	<0.05	6	<0.5	<0.2
105798	Soil	29	10	1.23	214	0.172	<1	1.90	0.007	0.57	0.1	0.01	8.0	0.3	<0.05	8	<0.5	<0.2



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Project: Rosebute  
Report Date: August 17, 2011

Page: 1 of 2 Part 1

# QUALITY CONTROL REPORT

WHI11000762.1

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																					
110457	Soil	0.8	19.4	8.3	47	<0.1	15.3	6.4	259	2.10	5.3	1.3	7.3	6.9	26	<0.1	0.5	0.2	46	0.28	0.029
REP 110457	QC	0.7	19.5	8.4	46	<0.1	15.8	6.1	259	2.07	5.2	1.3	3.9	6.9	26	<0.1	0.5	0.2	46	0.27	0.026
110466	Soil	0.8	15.5	9.6	45	0.2	18.0	8.0	266	2.60	9.0	0.5	7.6	4.3	19	<0.1	0.6	0.2	54	0.21	0.019
REP 110466	QC	0.8	15.4	10.2	47	0.2	17.7	8.4	273	2.71	9.7	0.6	10.7	4.3	20	<0.1	0.6	0.2	55	0.23	0.019
116727	Soil	5.6	25.2	11.0	71	0.1	12.5	6.1	333	2.63	11.5	0.8	2.2	5.6	12	0.1	1.1	0.4	42	0.11	0.018
REP 116727	QC	5.1	24.3	10.4	68	0.1	11.1	6.1	327	2.57	11.1	0.8	1.3	5.6	12	<0.1	1.0	0.3	42	0.10	0.017
116751	Soil	0.7	24.4	8.9	93	<0.1	18.0	9.1	739	2.96	5.8	1.1	3.2	8.7	27	0.1	0.4	0.8	50	0.47	0.044
REP 116751	QC	0.6	24.3	9.0	97	<0.1	18.4	9.4	735	2.96	5.8	1.1	3.8	8.7	27	<0.1	0.4	0.8	50	0.45	0.044
111671	Soil	1.1	12.5	9.2	73	<0.1	12.1	8.3	352	3.09	6.8	1.0	2.6	7.2	19	<0.1	0.3	0.1	60	0.22	0.049
REP 111671	QC	1.3	13.3	9.4	75	<0.1	11.8	8.9	385	3.24	7.0	1.2	1.9	7.8	20	<0.1	0.4	0.1	64	0.24	0.052
117901	Soil	0.8	33.7	8.2	74	<0.1	14.1	11.4	564	3.40	8.8	0.8	0.7	8.0	17	<0.1	0.4	0.3	62	0.16	0.040
REP 117901	QC	0.9	33.2	8.3	74	<0.1	13.8	11.2	559	3.34	8.0	0.8	0.9	8.2	16	<0.1	0.4	0.3	62	0.16	0.039
111690	Soil	1.0	9.6	7.7	63	<0.1	14.0	8.6	470	2.32	6.3	0.8	2.9	6.2	16	<0.1	0.3	0.2	43	0.27	0.053
REP 111690	QC	0.8	9.5	7.6	63	<0.1	12.9	8.6	457	2.21	5.5	0.8	5.3	6.0	15	<0.1	0.2	0.2	44	0.25	0.053
102561	Soil	1.1	15.1	9.2	42	<0.1	13.1	6.2	180	2.14	6.5	1.0	2.6	4.8	19	<0.1	0.7	0.1	46	0.28	0.031
REP 102561	QC	1.1	14.4	9.0	40	<0.1	12.8	6.2	190	2.14	5.8	1.0	1.1	4.8	19	<0.1	0.6	0.1	45	0.28	0.030
122413	Soil	0.8	8.2	4.5	32	<0.1	11.3	7.1	534	1.84	6.0	0.6	<0.5	3.8	28	<0.1	0.2	<0.1	38	0.36	0.058
REP 122413	QC	0.7	8.7	4.5	35	<0.1	12.1	7.4	540	1.93	7.2	0.6	<0.5	3.9	28	<0.1	0.2	<0.1	44	0.37	0.064
103841	Soil	2.3	56.9	17.2	64	0.3	8.4	7.3	404	2.57	7.7	2.2	48.9	25.4	9	<0.1	0.3	0.2	31	0.08	0.032
REP 103841	QC	2.4	63.8	18.7	73	0.3	9.8	7.9	438	2.79	10.3	2.5	65.2	28.1	10	<0.1	0.4	0.3	33	0.09	0.036
103852	Soil	1.8	22.1	9.0	51	0.3	17.7	8.7	249	2.69	9.6	0.7	13.6	4.3	28	<0.1	0.4	0.2	67	0.30	0.025
REP 103852	QC	1.6	23.1	9.3	55	0.3	18.6	9.6	276	2.98	10.4	0.7	12.5	4.4	29	<0.1	0.4	0.2	69	0.30	0.025
106057	Soil	1.3	25.2	17.4	99	<0.1	28.2	15.1	790	4.43	7.9	1.0	<0.5	10.1	39	<0.1	1.5	0.1	84	0.44	0.017
REP 106057	QC	1.2	24.4	16.6	97	<0.1	26.2	13.6	757	4.20	7.7	1.0	<0.5	10.1	35	<0.1	1.5	0.1	79	0.41	0.016
104793	Soil	1.1	14.6	11.7	66	<0.1	19.2	8.7	430	2.93	7.3	0.6	1.7	5.2	13	<0.1	0.6	0.2	62	0.10	0.019
REP 104793	QC	1.1	14.3	12.0	66	<0.1	18.7	8.7	442	2.91	6.9	0.7	1.2	5.2	13	<0.1	0.5	0.2	61	0.10	0.019
106070	Soil	1.0	22.8	8.4	50	<0.1	20.3	10.0	407	2.22	7.5	1.2	1.5	3.7	28	<0.1	0.5	0.1	51	0.40	0.053
REP 106070	QC	1.1	23.0	8.8	49	0.1	20.3	9.7	402	2.24	7.5	1.1	2.8	3.6	29	0.1	0.5	0.1	50	0.39	0.053



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**Project:** Rosebute  
**Report Date:** August 17, 2011

**Page:** 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000762.1

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																		
110457	Soil	17	25	0.45	234	0.087	1	1.42	0.015	0.07	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
REP 110457	QC	18	26	0.46	228	0.088	<1	1.44	0.013	0.07	0.2	0.03	3.7	<0.1	<0.05	4	0.5	<0.2
110466	Soil	9	31	0.50	260	0.052	2	1.78	0.008	0.07	0.2	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
REP 110466	QC	9	32	0.52	262	0.056	<1	1.80	0.008	0.07	0.3	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
116727	Soil	9	20	0.37	165	0.024	2	1.64	0.007	0.07	0.2	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
REP 116727	QC	9	21	0.36	157	0.024	4	1.59	0.005	0.07	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
116751	Soil	21	33	0.96	289	0.132	<1	1.82	0.018	0.46	0.4	0.05	5.0	0.2	<0.05	6	<0.5	<0.2
REP 116751	QC	21	32	0.94	293	0.133	1	1.80	0.017	0.46	0.4	0.05	5.2	0.2	<0.05	6	<0.5	<0.2
111671	Soil	11	19	0.51	143	0.105	1	1.83	0.008	0.23	0.2	0.01	3.1	0.3	<0.05	8	0.6	<0.2
REP 111671	QC	12	21	0.61	155	0.116	1	1.96	0.008	0.25	0.2	<0.01	3.2	0.3	<0.05	9	0.5	<0.2
117901	Soil	9	28	0.71	117	0.106	2	2.05	0.007	0.21	0.2	0.01	2.3	0.2	<0.05	8	<0.5	<0.2
REP 117901	QC	9	29	0.72	112	0.104	<1	2.01	0.007	0.20	0.1	0.01	2.3	0.2	<0.05	8	<0.5	<0.2
111690	Soil	14	24	0.41	133	0.076	1	1.41	0.011	0.09	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
REP 111690	QC	13	22	0.41	124	0.069	1	1.32	0.008	0.09	0.2	0.02	2.3	<0.1	<0.05	5	0.5	<0.2
102561	Soil	20	23	0.35	287	0.049	1	1.23	0.010	0.04	0.1	0.03	2.8	<0.1	<0.05	4	0.9	<0.2
REP 102561	QC	20	24	0.33	282	0.050	1	1.26	0.008	0.04	0.1	0.03	2.7	<0.1	<0.05	4	0.8	<0.2
122413	Soil	5	19	0.55	176	0.119	<1	1.50	0.007	0.29	<0.1	<0.01	1.9	<0.1	0.06	4	<0.5	<0.2
REP 122413	QC	6	19	0.57	179	0.125	<1	1.55	0.006	0.31	0.1	<0.01	1.7	0.1	0.07	5	0.5	<0.2
103841	Soil	9	14	0.50	150	0.014	<1	1.52	0.006	0.12	2.4	0.03	2.0	<0.1	<0.05	6	<0.5	0.6
REP 103841	QC	10	17	0.58	180	0.023	<1	1.72	0.006	0.16	3.5	0.02	2.3	0.1	<0.05	7	<0.5	0.5
103852	Soil	14	36	0.62	187	0.084	1	1.77	0.009	0.05	0.3	0.03	2.6	<0.1	0.09	6	<0.5	<0.2
REP 103852	QC	14	39	0.65	195	0.089	1	1.81	0.011	0.06	0.3	0.03	2.9	<0.1	0.07	6	<0.5	<0.2
106057	Soil	19	54	1.44	339	0.165	<1	3.02	0.007	0.13	0.5	0.02	4.6	<0.1	<0.05	10	<0.5	<0.2
REP 106057	QC	18	53	1.38	316	0.163	<1	2.76	0.006	0.12	0.5	0.01	4.4	<0.1	<0.05	10	<0.5	<0.2
104793	Soil	8	31	0.43	177	0.093	<1	1.78	0.010	0.06	0.2	0.01	3.0	<0.1	<0.05	7	<0.5	<0.2
REP 104793	QC	8	30	0.42	173	0.090	<1	1.75	0.009	0.06	0.2	0.02	3.0	<0.1	<0.05	7	<0.5	<0.2
106070	Soil	12	26	0.40	284	0.060	<1	1.29	0.017	0.04	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
REP 106070	QC	12	27	0.40	287	0.061	<1	1.30	0.017	0.04	0.2	0.03	3.3	<0.1	<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: Rosebute

Report Date: August 17, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000762.1

		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
122429	Soil	0.5	30.4	3.6	73	<0.1	16.2	18.9	418	3.28	7.8	0.2	<0.5	1.2	25	<0.1	0.2	<0.1	76	0.47	0.123
REP 122429	QC	0.5	34.1	3.6	79	<0.1	18.7	20.0	467	3.48	8.7	0.3	<0.5	1.4	26	<0.1	0.2	<0.1	84	0.47	0.121
105772	Soil	7.8	37.8	15.6	82	0.1	22.5	6.3	309	2.07	11.9	0.8	0.6	1.3	56	0.2	0.4	0.1	52	6.33	0.064
REP 105772	QC	7.4	37.2	16.0	83	0.1	20.7	6.0	299	1.95	10.5	0.8	1.3	1.4	57	0.2	0.4	0.1	51	6.08	0.062
Reference Materials																					
STD DS8	Standard	14.3	119.3	129.2	316	1.8	41.2	8.1	615	2.43	28.5	2.9	106.8	7.3	67	2.3	5.7	6.9	46	0.70	0.075
STD DS8	Standard	13.0	114.3	131.7	315	1.7	40.9	8.2	642	2.57	26.3	2.8	112.9	6.9	64	2.2	5.1	7.1	45	0.70	0.079
STD DS8	Standard	12.1	105.3	116.9	304	1.8	36.2	7.3	597	2.41	26.4	2.7	113.1	6.6	68	2.2	5.8	6.8	40	0.71	0.081
STD DS8	Standard	13.1	106.0	110.2	292	1.6	36.2	7.0	559	2.29	26.3	2.5	111.1	6.3	62	2.3	4.7	6.1	42	0.66	0.074
STD DS8	Standard	12.2	115.2	112.2	288	1.7	38.4	8.3	586	2.36	24.4	2.4	107.1	5.6	59	2.1	4.8	6.0	42	0.66	0.079
STD DS8	Standard	13.6	100.2	119.3	279	1.6	38.6	7.6	589	2.30	27.5	2.6	92.8	6.4	61	2.0	5.0	6.2	43	0.66	0.076
STD DS8	Standard	13.2	106.6	119.0	294	1.7	41.1	8.2	625	2.50	27.4	2.6	103.5	5.9	61	2.2	5.1	6.3	52	0.68	0.079
STD DS8	Standard	13.0	108.6	122.9	315	1.8	38.2	8.0	620	2.51	26.0	2.7	106.8	6.7	68	2.5	5.2	6.7	41	0.72	0.081
STD DS8	Standard	12.8	98.4	99.7	292	1.7	34.8	6.7	564	2.21	24.4	2.2	95.6	5.9	61	2.1	4.9	5.3	40	0.66	0.071
STD DS8	Standard	12.6	103.5	128.6	294	1.7	36.7	7.1	589	2.41	24.6	3.0	106.0	6.9	74	1.9	6.2	7.6	39	0.70	0.073
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	2.7	<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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**Client:** Taku Gold Corp  
 680 3rd Ave, Suite 203  
 Val D'Or QC J9P 1S5 Canada

**Project:** Rosebute  
**Report Date:** August 17, 2011

**Page:** 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11000762.1

		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
122429	Soil	5	21	1.47	315	0.153	1	2.38	0.012	0.33	<0.1	<0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
REP 122429	QC	5	24	1.55	338	0.162	1	2.46	0.011	0.33	<0.1	<0.01	2.7	0.1	<0.05	8	<0.5	<0.2
105772	Soil	12	35	1.06	146	0.043	<1	1.22	0.005	0.07	0.1	0.03	3.7	0.1	<0.05	5	<0.5	<0.2
REP 105772	QC	12	32	1.05	141	0.040	<1	1.14	0.005	0.06	0.2	0.04	3.6	0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	126	0.62	268	0.140	3	0.92	0.081	0.39	2.8	0.21	2.0	5.4	0.15	5	4.9	4.6
STD DS8	Standard	13	127	0.61	261	0.125	2	0.90	0.087	0.42	2.8	0.20	2.4	5.3	0.15	5	5.6	5.3
STD DS8	Standard	14	111	0.61	283	0.112	3	0.93	0.089	0.42	2.9	0.23	2.3	5.2	0.14	5	5.1	5.1
STD DS8	Standard	14	113	0.57	269	0.111	2	0.91	0.098	0.41	2.9	0.18	2.4	5.3	0.16	5	5.6	4.6
STD DS8	Standard	13	118	0.60	263	0.110	3	0.90	0.087	0.39	3.0	0.18	1.9	5.1	0.21	4	5.7	4.9
STD DS8	Standard	15	116	0.59	271	0.116	3	0.92	0.104	0.40	2.9	0.19	2.3	5.2	0.18	4	4.7	4.5
STD DS8	Standard	13	128	0.62	259	0.125	3	0.92	0.088	0.42	3.1	0.20	2.2	5.3	0.11	4	5.1	4.7
STD DS8	Standard	14	116	0.61	276	0.114	3	0.92	0.091	0.43	2.9	0.19	2.4	5.4	0.15	5	5.4	4.8
STD DS8	Standard	15	107	0.52	269	0.110	2	0.90	0.088	0.38	2.9	0.21	2.4	4.7	0.14	5	4.4	4.6
STD DS8	Standard	15	111	0.62	272	0.112	4	0.88	0.089	0.40	3.2	0.20	2.1	5.6	0.15	5	5.0	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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

Submitted By: Lauren Wilson  
Receiving Lab: Canada-Whitehorse  
Received: July 22, 2011  
Report Date: August 06, 2011  
Page: 1 of 12

## CERTIFICATE OF ANALYSIS

WHI11000693.1

### CLIENT JOB INFORMATION

Project: Rosebute  
Shipment ID: 20110710135057  
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.

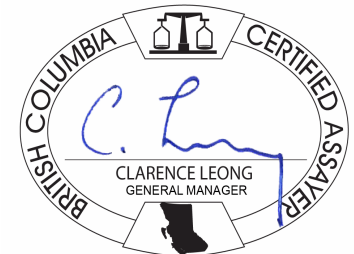
Invoice To: Taku Gold Corp  
680 3rd Ave, Suite 203  
Val D'Or QC J9P 1S5  
Canada

CC: Mark Fekete

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	318	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	318	Dry at 60C			WHI
1DX2	318	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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Client: **Taku Gold Corp**  
 680 3rd Ave, Suite 203  
 Val D'Or QC J9P 1S5 Canada

Project: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
103652	Soil		0.6	30.0	5.7	58	<0.1	12.1	7.5	442	2.48	3.2	1.3	1.0	8.3	61	<0.1	0.3	0.1	57	0.41	0.038
103653	Soil		2.7	36.0	7.6	43	<0.1	10.9	6.5	211	3.70	4.8	2.3	1.2	12.4	97	<0.1	0.3	0.1	59	0.13	0.038
103654	Soil		1.7	21.2	7.2	53	<0.1	11.2	6.4	259	3.13	3.9	1.5	6.2	7.9	67	<0.1	0.2	0.2	76	0.21	0.025
103655	Soil		1.1	32.5	8.9	79	<0.1	22.3	15.2	348	3.21	7.0	1.3	1.0	7.1	21	<0.1	0.3	0.2	61	0.16	0.020
103656	Soil		1.0	33.5	9.3	54	0.1	24.9	9.5	280	2.71	9.9	0.9	5.0	4.9	28	<0.1	0.7	0.2	64	0.23	0.014
103657	Soil		1.1	62.8	7.1	105	<0.1	21.3	14.5	325	3.48	6.8	0.7	4.3	3.2	33	0.1	0.5	0.1	99	0.48	0.024
103658	Soil		0.5	43.9	3.9	44	<0.1	19.6	16.4	493	3.93	4.6	0.9	3.4	4.6	53	<0.1	0.4	<0.1	100	0.83	0.078
103659	Soil		0.8	40.8	6.5	44	<0.1	19.2	11.6	273	2.90	7.7	0.6	1.6	2.9	36	<0.1	0.4	0.1	79	0.34	0.027
103660	Soil		0.8	59.6	8.8	63	<0.1	37.5	18.7	409	3.86	8.5	0.2	1.2	1.7	65	<0.1	0.3	<0.1	99	0.32	0.053
103661	Soil		1.4	18.6	6.1	75	<0.1	10.6	10.2	662	3.98	3.8	0.7	1.0	9.4	12	<0.1	0.2	<0.1	89	0.09	0.014
103662	Soil		0.4	18.6	7.0	72	<0.1	16.5	9.7	643	2.90	4.4	1.1	1.8	9.3	37	<0.1	0.2	<0.1	58	0.47	0.070
103663	Soil		1.0	28.8	11.9	48	<0.1	28.1	11.1	215	3.11	11.6	0.7	2.6	5.5	24	<0.1	0.6	0.2	78	0.18	0.012
103664	Soil		0.3	138.2	2.4	43	<0.1	21.8	19.2	283	3.16	4.3	0.1	<0.5	1.5	32	<0.1	0.2	<0.1	97	0.59	0.092
103665	Soil		0.9	23.4	9.8	54	<0.1	15.7	8.1	382	2.44	7.7	1.0	2.1	15.2	24	<0.1	0.5	0.1	45	0.29	0.027
103666	Soil		0.5	52.4	7.0	83	<0.1	12.9	20.7	813	5.08	4.2	1.1	1.4	3.2	103	<0.1	0.6	<0.1	145	1.86	0.230
103667	Soil		0.6	114.6	42.8	423	<0.1	26.3	24.2	665	5.58	5.5	0.6	7.5	3.3	25	0.6	1.6	0.1	131	0.85	0.133
103668	Soil		1.0	51.6	9.2	71	<0.1	22.6	13.1	525	3.63	9.4	0.8	0.6	10.7	60	<0.1	0.4	0.1	80	0.48	0.074
103669	Soil		1.6	38.0	9.0	142	<0.1	14.7	13.9	739	4.04	6.0	1.0	1.2	9.4	35	<0.1	0.4	0.4	75	0.26	0.043
103670	Soil		1.0	15.5	9.4	76	<0.1	17.1	11.5	670	3.42	7.7	0.8	0.5	9.7	43	<0.1	0.4	<0.1	59	0.39	0.051
103671	Soil		0.9	42.8	6.7	56	<0.1	26.5	17.4	550	4.63	6.3	0.9	2.0	5.3	87	<0.1	0.4	0.1	128	0.95	0.032
103672	Soil		0.4	39.7	14.5	118	<0.1	8.8	14.9	873	5.60	3.6	0.5	<0.5	2.2	14	<0.1	0.2	0.1	91	0.20	0.041
103673	Soil		1.0	15.1	9.1	61	<0.1	22.1	9.4	209	2.74	8.3	0.3	1.7	2.7	17	<0.1	0.5	0.2	65	0.15	0.020
103674	Soil		1.1	22.7	10.5	68	<0.1	25.3	8.9	287	3.15	9.9	0.7	1.8	5.1	18	<0.1	0.7	0.1	61	0.13	0.025
103675	Soil		1.3	15.8	13.0	71	<0.1	22.3	9.3	338	2.81	8.8	0.6	2.0	3.9	21	<0.1	0.7	0.2	61	0.17	0.037
103676	Soil		0.7	14.2	19.2	105	<0.1	7.3	4.0	382	3.42	19.0	1.7	<0.5	5.0	21	<0.1	1.6	<0.1	23	0.18	0.020
103677	Soil		1.2	16.6	13.0	116	<0.1	14.5	5.8	403	3.26	5.8	1.1	0.8	6.9	36	0.1	0.2	0.1	29	0.23	0.020
103678	Soil		1.5	15.1	11.1	111	0.2	16.2	7.6	465	3.20	7.5	0.9	0.7	5.1	27	<0.1	0.5	0.1	53	0.25	0.036
103679	Soil		1.3	21.6	7.3	128	<0.1	14.4	9.0	965	4.18	5.3	0.7	1.0	4.0	21	0.1	0.3	0.1	41	0.23	0.057
103680	Soil		1.5	23.0	12.6	99	<0.1	24.0	7.5	392	3.20	10.6	0.7	0.9	5.2	26	0.2	0.7	0.2	61	0.26	0.031
103681	Soil		0.9	31.9	8.9	84	<0.1	21.7	7.9	396	3.19	7.4	0.8	1.1	4.6	26	<0.1	0.5	0.1	54	0.30	0.030

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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Client: **Taku Gold Corp**  
 680 3rd Ave, Suite 203  
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Project: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	0.1	0.01	0.05	1	0.5	0.2	
103652	Soil	27	17	0.81	177	0.158	2	1.75	0.019	0.55	0.1	0.04	4.1	0.3	<0.05	6	<0.5	<0.2
103653	Soil	31	25	0.75	202	0.133	<1	2.53	0.016	0.32	<0.1	0.01	3.0	0.3	0.14	7	0.8	<0.2
103654	Soil	17	20	0.68	187	0.131	1	2.18	0.018	0.26	<0.1	<0.01	4.3	0.2	0.10	6	<0.5	<0.2
103655	Soil	9	40	0.76	167	0.123	<1	3.00	0.011	0.30	<0.1	<0.01	3.1	0.2	<0.05	8	<0.5	<0.2
103656	Soil	18	40	0.51	292	0.089	1	1.70	0.019	0.05	0.1	0.05	6.5	<0.1	<0.05	5	<0.5	<0.2
103657	Soil	14	33	0.67	203	0.133	<1	2.22	0.033	0.07	<0.1	0.04	8.1	<0.1	<0.05	7	<0.5	<0.2
103658	Soil	19	38	0.87	160	0.145	<1	2.31	0.034	0.06	0.1	0.02	10.4	<0.1	<0.05	8	<0.5	<0.2
103659	Soil	11	31	0.72	171	0.088	<1	2.25	0.020	0.04	0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
103660	Soil	4	51	1.43	231	0.229	<1	3.51	0.016	0.27	0.1	0.02	3.7	0.1	<0.05	9	<0.5	<0.2
103661	Soil	32	17	1.29	205	0.246	<1	2.66	0.011	0.60	0.1	0.02	7.7	0.3	<0.05	11	<0.5	<0.2
103662	Soil	20	17	0.80	201	0.178	<1	1.65	0.015	0.53	<0.1	0.01	3.3	0.2	<0.05	6	<0.5	<0.2
103663	Soil	16	45	0.49	274	0.105	2	2.45	0.015	0.05	<0.1	0.03	5.9	<0.1	<0.05	6	<0.5	<0.2
103664	Soil	4	43	1.30	148	0.184	<1	2.08	0.056	0.30	<0.1	<0.01	5.3	0.1	<0.05	5	<0.5	<0.2
103665	Soil	40	23	0.54	154	0.059	2	1.76	0.010	0.14	0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
103666	Soil	12	16	1.45	133	0.121	1	3.74	0.022	0.12	0.3	0.04	12.8	<0.1	<0.05	11	<0.5	<0.2
103667	Soil	17	58	1.34	329	0.017	2	3.04	0.013	0.13	0.2	0.18	19.8	0.2	<0.05	7	<0.5	<0.2
103668	Soil	14	32	1.07	152	0.148	<1	2.91	0.018	0.20	0.5	0.02	4.2	0.1	<0.05	8	<0.5	<0.2
103669	Soil	10	28	1.46	220	0.157	<1	2.85	0.009	0.51	0.1	0.02	2.6	0.2	<0.05	7	<0.5	<0.2
103670	Soil	14	23	0.88	186	0.223	1	2.40	0.011	0.43	0.2	<0.01	2.8	0.2	<0.05	8	<0.5	<0.2
103671	Soil	27	50	1.21	167	0.205	<1	3.50	0.025	0.06	0.2	0.01	9.8	<0.1	<0.05	11	<0.5	<0.2
103672	Soil	5	13	1.23	166	0.303	<1	2.60	0.012	1.17	<0.1	<0.01	8.9	0.4	<0.05	10	<0.5	<0.2
103673	Soil	8	36	0.48	230	0.080	1	2.10	0.008	0.09	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
103674	Soil	13	37	0.50	204	0.083	1	2.04	0.009	0.09	<0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
103675	Soil	10	39	0.50	190	0.068	2	1.92	0.009	0.10	0.1	<0.01	3.4	<0.1	<0.05	6	<0.5	<0.2
103676	Soil	15	11	0.37	113	0.006	<1	1.56	0.006	0.09	<0.1	<0.01	6.8	<0.1	<0.05	8	<0.5	<0.2
103677	Soil	10	21	0.44	125	0.121	<1	2.24	0.014	0.32	<0.1	<0.01	4.6	0.2	<0.05	10	<0.5	<0.2
103678	Soil	12	29	0.49	181	0.075	<1	2.48	0.011	0.11	0.1	0.02	3.2	0.1	<0.05	8	<0.5	<0.2
103679	Soil	11	24	0.62	255	0.140	<1	2.11	0.010	0.57	<0.1	<0.01	8.8	0.2	<0.05	9	<0.5	<0.2
103680	Soil	16	43	0.43	196	0.060	<1	2.23	0.010	0.10	0.1	0.02	5.2	0.1	<0.05	6	<0.5	<0.2
103681	Soil	26	34	0.57	136	0.101	1	1.62	0.014	0.22	<0.1	0.02	7.8	0.1	<0.05	6	<0.5	<0.2

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

Project: Rosebute  
 Report Date: August 06, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
103682	Soil	1.2	8.4	12.3	64	<0.1	14.7	6.4	365	2.37	23.4	0.5	0.7	2.8	20	<0.1	0.5	0.1	47	0.29	0.030
103683	Soil	2.2	21.2	10.6	92	<0.1	20.3	7.8	764	3.52	5.2	0.7	1.8	3.6	28	<0.1	0.3	0.1	43	0.41	0.038
103684	Soil	1.1	20.1	7.8	99	<0.1	19.4	6.4	693	3.84	9.2	1.1	0.6	6.0	39	<0.1	0.4	<0.1	38	0.38	0.032
103685	Soil	1.6	31.1	10.5	68	<0.1	30.6	9.6	387	3.25	9.6	0.9	5.7	5.0	27	<0.1	0.6	0.1	59	0.31	0.031
103686	Soil	1.0	52.8	16.4	105	0.1	18.2	8.8	478	3.47	8.5	0.9	6.1	4.0	30	<0.1	0.6	0.1	57	0.48	0.028
103687	Soil	1.7	69.8	19.3	211	0.1	57.7	25.0	286	5.02	4.4	1.6	4.4	7.5	114	0.4	0.3	0.2	168	0.24	0.069
103688	Soil	1.8	36.7	11.2	85	0.2	36.8	10.1	295	3.19	5.0	1.4	7.2	4.9	55	0.3	0.3	0.2	82	0.22	0.043
103689	Soil	1.7	49.8	7.7	165	<0.1	15.8	13.6	739	4.52	4.7	3.0	4.5	11.1	45	0.2	0.5	<0.1	147	0.58	0.119
103690	Soil	1.9	50.1	6.6	147	<0.1	12.5	11.9	634	4.36	3.9	3.0	1.8	9.1	42	0.2	0.4	<0.1	131	0.51	0.093
103691	Soil	1.3	14.8	10.3	50	<0.1	15.4	7.4	223	2.86	9.3	0.6	3.3	4.0	12	0.2	0.5	0.2	68	0.12	0.027
103692	Soil	70.0	25.3	5.3	53	<0.1	14.2	7.2	279	2.92	5.1	2.6	3.4	9.5	18	<0.1	0.4	0.1	47	0.18	0.035
103693	Soil	2.5	23.3	7.6	55	<0.1	20.4	9.4	311	2.79	7.6	1.1	7.4	5.3	17	<0.1	0.5	0.2	59	0.22	0.040
103694	Soil	2.8	23.5	7.4	61	<0.1	19.7	9.5	344	3.04	7.8	1.3	3.4	5.6	20	0.2	0.4	0.2	61	0.23	0.047
103695	Soil	3.4	34.0	7.1	84	<0.1	15.0	9.8	318	3.52	6.0	0.7	2.7	3.2	26	0.1	0.4	0.1	83	0.21	0.039
103696	Soil	1.9	56.9	6.6	131	0.2	11.7	9.9	382	4.03	4.5	0.8	5.4	3.0	38	0.2	0.3	<0.1	106	0.28	0.040
103697	Soil	11.4	53.1	8.7	109	0.1	9.5	9.9	339	4.31	5.8	0.6	5.2	2.0	49	<0.1	0.3	0.1	137	0.28	0.043
103698	Soil	1.4	16.4	9.7	65	0.2	13.2	9.4	239	3.60	7.9	0.4	4.3	2.5	13	0.2	0.5	0.2	92	0.14	0.027
103699	Soil	1.2	41.1	7.7	50	<0.1	20.3	8.3	374	3.57	7.4	0.7	1.8	3.7	24	<0.1	0.5	0.2	55	0.15	0.028
103700	Soil	1.3	23.5	9.8	57	0.1	22.5	11.1	308	3.21	10.0	0.7	2.1	4.1	16	0.1	0.6	0.2	71	0.17	0.024
103701	Soil	4.3	26.2	4.2	17	0.2	9.3	3.1	112	4.97	4.4	0.5	3.1	1.8	34	<0.1	0.3	0.3	20	0.07	0.037
103702	Soil	1.0	15.6	9.4	94	0.1	11.7	8.2	392	3.87	6.5	0.4	5.8	1.9	18	0.3	0.4	0.2	70	0.12	0.048
103703	Soil	1.3	22.2	6.8	83	<0.1	19.4	13.9	421	3.70	7.1	0.6	0.9	3.1	21	0.1	0.5	0.1	65	0.26	0.046
103704	Soil	1.4	22.8	11.4	117	0.4	22.5	25.5	821	3.61	6.6	0.5	1.0	3.3	14	0.2	0.6	0.2	92	0.16	0.044
103705	Soil	3.2	15.4	8.1	53	<0.1	19.9	11.3	271	3.35	7.7	0.4	3.3	2.2	42	<0.1	0.4	0.1	80	0.27	0.036
103706	Soil	1.2	28.2	5.1	84	<0.1	14.5	11.1	446	4.31	5.3	0.6	<0.5	3.0	15	0.2	0.3	<0.1	37	0.22	0.042
103707	Soil	1.1	23.7	7.2	53	0.1	13.2	9.2	316	3.05	6.5	0.4	2.5	1.2	17	<0.1	0.4	0.1	99	0.25	0.044
103708	Soil	1.0	46.6	7.0	83	<0.1	20.2	18.4	433	3.38	7.9	0.6	3.1	2.3	24	0.1	0.4	0.1	84	0.28	0.053
103709	Soil	1.1	33.8	6.5	77	0.1	22.2	10.8	389	3.03	6.5	0.8	7.8	4.0	21	0.2	0.5	0.1	58	0.33	0.085
103710	Soil	1.2	23.3	7.6	66	<0.1	21.6	9.2	341	3.00	7.5	0.6	3.0	3.7	21	0.1	0.5	0.1	58	0.26	0.034
103711	Soil	1.6	19.5	8.5	95	<0.1	20.5	15.4	407	3.99	9.8	0.4	1.2	3.1	31	<0.1	0.4	0.1	101	0.22	0.039

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	0.1	0.01	0.1	0.05	0.5	0.2	
103682	Soil	8	24	0.26	147	0.032	<1	1.38	0.011	0.09	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
103683	Soil	10	35	0.44	298	0.099	1	1.82	0.012	0.28	0.1	0.02	8.3	0.1	<0.05	8	<0.5	<0.2
103684	Soil	17	26	0.48	218	0.176	<1	2.23	0.011	0.30	0.1	0.01	14.1	<0.1	<0.05	10	<0.5	<0.2
103685	Soil	18	44	0.55	187	0.122	<1	1.81	0.013	0.12	0.1	0.03	8.5	<0.1	<0.05	6	<0.5	<0.2
103686	Soil	19	23	0.57	151	0.078	1	1.64	0.018	0.15	<0.1	0.05	8.3	<0.1	<0.05	7	<0.5	<0.2
103687	Soil	29	49	2.01	487	0.168	2	4.70	0.024	0.54	<0.1	0.03	10.0	0.4	<0.05	13	1.5	<0.2
103688	Soil	16	60	0.96	376	0.086	<1	2.43	0.020	0.32	<0.1	0.01	4.9	0.4	0.08	6	1.5	<0.2
103689	Soil	57	85	1.42	352	0.168	<1	3.19	0.015	0.77	<0.1	0.03	12.3	0.6	<0.05	13	1.2	<0.2
103690	Soil	45	60	1.20	301	0.167	1	3.02	0.014	0.75	<0.1	0.03	11.3	0.6	<0.05	13	0.6	<0.2
103691	Soil	11	30	0.43	140	0.055	2	2.05	0.007	0.05	0.2	0.03	2.8	0.1	<0.05	7	1.2	<0.2
103692	Soil	38	20	0.48	146	0.107	1	1.58	0.011	0.17	<0.1	0.02	4.9	0.2	<0.05	5	1.2	<0.2
103693	Soil	18	27	0.53	207	0.083	<1	1.81	0.010	0.08	0.1	0.02	3.9	0.3	<0.05	6	0.6	<0.2
103694	Soil	20	27	0.57	207	0.101	<1	1.88	0.011	0.12	0.1	0.02	4.6	0.3	<0.05	7	0.9	<0.2
103695	Soil	10	23	0.68	352	0.135	1	2.13	0.019	0.27	0.1	0.01	4.2	0.2	0.07	7	0.8	<0.2
103696	Soil	9	18	0.96	586	0.176	<1	2.21	0.029	0.53	<0.1	0.02	6.1	0.4	0.18	7	0.8	<0.2
103697	Soil	7	17	0.98	708	0.170	<1	2.59	0.030	0.44	<0.1	0.02	6.9	0.3	0.15	8	1.1	<0.2
103698	Soil	8	27	0.56	346	0.109	<1	2.39	0.010	0.16	0.1	0.04	3.1	0.1	0.05	7	0.7	<0.2
103699	Soil	12	30	0.50	279	0.105	1	2.15	0.014	0.21	<0.1	0.01	5.1	<0.1	0.08	8	1.5	<0.2
103700	Soil	12	37	0.47	208	0.076	<1	2.50	0.010	0.06	0.1	0.03	4.4	0.1	<0.05	7	0.5	<0.2
103701	Soil	10	14	0.20	150	0.052	<1	0.77	0.153	0.39	<0.1	<0.01	3.9	0.2	1.11	5	9.2	0.2
103702	Soil	10	24	0.57	169	0.080	<1	1.99	0.008	0.08	0.1	<0.01	4.0	0.1	<0.05	11	<0.5	<0.2
103703	Soil	15	25	0.98	229	0.114	1	2.14	0.012	0.16	<0.1	0.01	7.3	0.1	<0.05	9	0.9	<0.2
103704	Soil	11	39	0.56	267	0.086	<1	3.08	0.012	0.04	<0.1	0.04	5.0	0.1	<0.05	9	1.1	<0.2
103705	Soil	8	42	0.73	217	0.097	<1	2.21	0.015	0.15	0.1	0.02	3.2	0.1	<0.05	7	0.6	<0.2
103706	Soil	9	29	0.76	209	0.133	<1	2.21	0.015	0.34	<0.1	<0.01	9.8	<0.1	0.06	9	<0.5	<0.2
103707	Soil	8	22	0.45	104	0.061	<1	1.90	0.022	0.04	<0.1	0.04	3.7	<0.1	0.05	7	<0.5	<0.2
103708	Soil	11	25	0.72	160	0.074	2	2.06	0.021	0.08	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
103709	Soil	17	30	0.66	199	0.094	<1	1.67	0.014	0.15	0.2	0.02	5.4	<0.1	<0.05	6	0.9	<0.2
103710	Soil	14	33	0.68	223	0.092	<1	1.82	0.013	0.10	0.1	0.02	5.5	<0.1	<0.05	7	0.6	<0.2
103711	Soil	10	31	0.98	198	0.084	<1	3.02	0.017	0.06	0.1	0.03	5.3	<0.1	<0.05	8	<0.5	<0.2

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Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

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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 %
103712	Soil			1.1	30.1	7.6	172	<0.1	14.6	11.8	527	3.76	7.6	0.7	4.0	2.8	25	0.2	0.3	0.1	81	0.24	0.066
103713	Soil			0.9	24.8	7.2	50	<0.1	20.6	12.3	318	3.05	7.7	0.8	1.4	3.5	28	<0.1	0.4	<0.1	70	0.28	0.018
103714	Soil			1.5	35.1	2.3	77	<0.1	13.5	18.0	525	5.80	3.2	0.4	2.1	1.8	103	<0.1	0.2	<0.1	122	0.45	0.044
103715	Soil			0.7	23.6	3.3	65	<0.1	13.5	16.7	448	4.21	4.0	0.4	1.2	2.6	79	<0.1	0.2	<0.1	100	0.47	0.028
103716	Soil			1.4	19.3	9.0	62	<0.1	16.7	10.9	324	3.82	8.6	0.5	5.1	3.5	28	<0.1	0.4	0.2	84	0.19	0.027
103717	Soil			1.3	16.3	8.4	58	<0.1	17.8	11.3	322	3.45	7.6	0.4	3.6	2.8	21	<0.1	0.4	0.1	80	0.18	0.029
103718	Soil			0.7	31.1	6.8	57	<0.1	20.6	11.7	437	3.27	7.4	1.1	4.0	3.9	34	<0.1	0.4	<0.1	71	0.35	0.025
103719	Soil			0.6	25.6	3.3	50	<0.1	19.3	12.7	402	2.94	2.5	0.5	3.6	1.9	42	<0.1	0.2	<0.1	69	0.45	0.048
103720	Soil			0.6	21.1	6.3	52	<0.1	17.6	12.3	391	3.18	5.0	0.5	4.7	3.6	24	0.1	0.4	<0.1	66	0.32	0.038
103721	Soil			0.8	22.6	6.1	50	<0.1	18.9	10.0	303	2.80	5.2	0.7	4.2	3.3	27	0.1	0.4	<0.1	64	0.32	0.028
103722	Soil			0.6	22.8	5.6	51	<0.1	15.3	9.5	371	2.80	4.9	0.9	1.6	3.1	32	<0.1	0.4	0.1	55	0.33	0.046
103723	Soil			0.4	18.1	2.3	34	<0.1	12.4	8.4	234	2.03	2.2	0.2	0.6	1.3	20	<0.1	0.2	<0.1	45	0.33	0.056
105617	Soil			0.6	18.4	6.6	60	<0.1	11.7	10.9	437	3.01	4.2	0.7	<0.5	5.1	48	<0.1	0.3	0.1	68	0.25	0.035
105618	Soil			0.8	14.0	7.5	52	<0.1	13.1	9.6	355	2.79	4.7	0.6	2.9	4.6	32	<0.1	0.3	0.1	63	0.21	0.028
105619	Soil			0.7	14.4	6.7	52	<0.1	13.2	9.6	357	2.61	5.1	0.8	1.9	5.5	37	<0.1	0.3	0.1	56	0.24	0.027
105620	Soil			0.8	13.3	7.8	57	<0.1	13.6	8.9	407	2.77	4.8	0.8	0.8	5.9	26	<0.1	0.3	0.1	58	0.25	0.035
105621	Soil			0.6	17.0	6.2	66	<0.1	13.6	8.2	422	2.56	3.2	1.0	12.6	6.7	33	<0.1	0.2	0.1	51	0.27	0.049
105622	Soil			0.8	20.2	8.1	59	<0.1	13.7	7.5	361	2.33	4.6	1.2	7.8	5.0	62	<0.1	0.3	0.1	49	0.29	0.041
105623	Soil			1.6	12.7	11.2	66	<0.1	15.2	8.2	375	2.85	5.0	0.8	2.7	6.4	23	<0.1	0.3	0.1	60	0.22	0.033
105624	Soil			1.8	12.5	8.5	56	<0.1	11.2	7.3	398	2.81	4.8	1.2	4.0	7.3	31	<0.1	0.3	0.1	57	0.23	0.034
105625	Soil			0.7	11.8	6.2	55	<0.1	9.0	8.4	458	2.65	3.4	1.2	1.1	10.1	26	<0.1	0.3	<0.1	48	0.24	0.040
105626	Soil			0.7	13.6	8.5	53	<0.1	14.3	7.3	276	2.39	5.5	1.2	2.2	6.2	24	<0.1	0.3	0.1	52	0.23	0.033
105627	Soil			0.8	12.6	8.5	49	<0.1	14.4	7.2	256	2.26	5.6	0.9	1.5	5.2	23	<0.1	0.4	0.1	48	0.24	0.037
105628	Soil			0.7	14.7	8.4	50	<0.1	14.9	6.3	249	2.16	5.5	1.1	4.2	5.2	28	<0.1	0.3	0.1	48	0.34	0.039
105629	Soil			0.6	14.5	8.1	52	<0.1	12.8	6.2	236	2.16	5.2	1.3	3.3	5.5	29	<0.1	0.3	0.1	47	0.28	0.039
105630	Soil			0.7	15.6	8.7	52	<0.1	12.3	6.2	221	2.17	5.0	1.4	1.5	4.9	29	<0.1	0.3	0.1	47	0.26	0.038
105631	Soil			3.1	33.6	11.7	62	0.2	13.6	6.0	175	2.58	11.2	1.9	6.4	4.4	23	<0.1	0.3	0.3	53	0.21	0.049
105632	Soil			0.8	25.4	9.6	64	0.1	21.8	10.2	478	2.41	7.3	0.9	2.3	3.0	35	0.3	0.6	0.2	54	0.57	0.070
105633	Soil			0.9	31.8	9.3	69	0.1	26.1	10.0	449	2.62	10.3	0.7	3.0	3.4	62	0.3	0.8	0.2	53	1.67	0.070
105634	Soil			1.1	21.1	8.7	55	0.1	20.2	10.7	419	2.43	8.7	0.9	0.9	3.2	43	0.1	0.6	0.2	54	0.74	0.053

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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
103712	Soil	12	24	0.94	202	0.078	<1	2.34	0.013	0.08	0.1	0.02	5.1	<0.1	<0.05	8	0.8	<0.2
103713	Soil	16	32	0.63	199	0.098	<1	1.99	0.019	0.06	<0.1	0.04	5.2	<0.1	<0.05	6	0.5	<0.2
103714	Soil	6	18	1.61	245	0.124	<1	3.89	0.065	0.13	<0.1	<0.01	8.7	<0.1	0.06	11	0.9	<0.2
103715	Soil	13	21	1.15	233	0.120	<1	2.66	0.049	0.11	<0.1	<0.01	7.7	<0.1	<0.05	8	1.0	<0.2
103716	Soil	9	32	0.69	198	0.109	<1	2.78	0.014	0.09	0.1	0.02	4.4	0.1	<0.05	9	<0.5	<0.2
103717	Soil	8	34	0.58	171	0.105	<1	2.53	0.013	0.06	0.1	0.03	3.6	0.1	<0.05	8	0.5	<0.2
103718	Soil	16	34	0.71	314	0.104	<1	1.97	0.021	0.08	0.1	0.05	7.0	<0.1	<0.05	6	0.6	<0.2
103719	Soil	11	30	0.88	247	0.128	<1	1.98	0.028	0.25	<0.1	0.02	4.4	<0.1	<0.05	6	0.6	<0.2
103720	Soil	12	31	0.53	241	0.098	<1	1.72	0.027	0.07	0.1	0.01	4.6	<0.1	<0.05	6	0.8	<0.2
103721	Soil	13	30	0.60	222	0.099	<1	1.75	0.025	0.05	0.1	<0.01	4.6	<0.1	<0.05	5	0.6	<0.2
103722	Soil	12	23	0.58	242	0.097	1	1.45	0.019	0.08	0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
103723	Soil	5	31	0.60	174	0.090	1	1.12	0.015	0.20	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
105617	Soil	14	23	0.93	147	0.153	1	1.90	0.009	0.37	0.1	0.01	2.2	0.2	<0.05	6	<0.5	<0.2
105618	Soil	11	24	0.73	147	0.135	1	1.83	0.010	0.16	0.1	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
105619	Soil	13	24	0.64	175	0.110	<1	1.58	0.011	0.11	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
105620	Soil	14	24	0.67	146	0.117	<1	1.73	0.010	0.18	0.1	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
105621	Soil	21	25	0.75	160	0.116	<1	1.51	0.010	0.32	0.1	0.01	3.0	0.2	<0.05	6	<0.5	<0.2
105622	Soil	19	25	0.56	345	0.099	<1	1.47	0.011	0.15	0.1	0.02	3.4	0.1	<0.05	5	<0.5	<0.2
105623	Soil	12	26	0.65	128	0.125	<1	1.77	0.010	0.14	0.3	<0.01	2.9	0.1	<0.05	6	<0.5	<0.2
105624	Soil	17	21	0.66	150	0.111	<1	1.64	0.009	0.26	0.1	0.01	3.2	0.1	<0.05	6	<0.5	<0.2
105625	Soil	20	17	0.71	134	0.117	<1	1.57	0.009	0.34	0.1	<0.01	3.3	0.2	<0.05	6	<0.5	<0.2
105626	Soil	20	28	0.54	181	0.095	<1	1.56	0.011	0.07	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
105627	Soil	14	25	0.48	168	0.077	<1	1.44	0.011	0.05	0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
105628	Soil	15	26	0.50	203	0.082	<1	1.43	0.011	0.05	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
105629	Soil	17	24	0.48	195	0.081	<1	1.42	0.011	0.06	0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
105630	Soil	16	23	0.46	172	0.080	1	1.55	0.011	0.07	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
105631	Soil	16	25	0.51	149	0.080	<1	1.70	0.012	0.07	<0.1	0.04	3.0	0.1	<0.05	6	<0.5	<0.2
105632	Soil	13	27	0.54	295	0.060	2	1.41	0.022	0.05	0.2	0.03	3.5	<0.1	<0.05	5	0.7	<0.2
105633	Soil	13	28	0.75	366	0.073	2	1.35	0.029	0.07	0.2	0.03	3.4	<0.1	<0.05	4	0.5	<0.2
105634	Soil	12	27	0.54	319	0.068	2	1.35	0.025	0.06	0.3	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2

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Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

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
105635	Soil	0.6	23.8	8.0	58	0.1	20.4	8.5	326	2.26	6.9	0.8	2.0	2.8	40	0.2	0.5	0.1	48	0.61	0.070
105636	Soil	0.9	28.1	9.1	65	0.1	19.3	10.2	464	2.67	7.6	0.9	1.7	3.1	52	0.2	0.6	0.1	57	0.68	0.066
105637	Soil	0.3	33.4	34.1	132	<0.1	4.2	21.9	1427	6.86	1.2	0.7	0.7	1.0	30	<0.1	<0.1	0.3	118	0.73	0.173
105638	Soil	0.3	8.9	5.0	142	<0.1	4.6	3.5	1279	3.09	2.4	0.8	1.5	9.3	11	<0.1	0.1	<0.1	9	0.25	0.070
105639	Soil	0.5	16.7	10.2	111	<0.1	4.4	3.6	529	3.10	3.1	0.9	1.0	8.9	12	<0.1	0.2	0.1	19	0.14	0.027
105640	Soil	0.6	18.4	10.7	113	<0.1	5.3	4.1	583	3.16	3.6	1.0	<0.5	8.4	12	<0.1	0.3	<0.1	21	0.15	0.029
105641	Soil	0.6	23.6	8.3	135	<0.1	6.3	5.6	621	3.99	3.7	0.8	<0.5	4.6	15	<0.1	0.2	0.1	25	0.19	0.028
105642	Soil	1.1	12.5	8.6	145	<0.1	7.6	4.8	985	3.22	3.6	0.6	<0.5	2.3	14	<0.1	0.2	0.1	34	0.14	0.067
105643	Soil	0.6	28.7	7.8	111	<0.1	16.2	4.6	520	3.30	5.9	1.0	1.0	5.2	24	<0.1	0.5	0.2	33	0.25	0.023
105644	Soil	1.0	21.3	37.1	120	<0.1	10.0	3.3	861	3.45	4.4	0.9	<0.5	4.7	21	0.1	0.4	0.4	18	0.25	0.024
105645	Soil	0.7	22.4	8.5	71	<0.1	17.7	6.9	350	2.63	7.0	0.7	1.6	4.0	27	<0.1	0.6	0.1	47	0.34	0.044
105646	Soil	1.1	28.0	10.4	63	<0.1	23.5	8.0	365	2.72	8.2	0.7	3.7	4.2	31	<0.1	0.6	0.2	51	0.40	0.047
105647	Soil	0.7	22.3	9.0	55	<0.1	18.1	6.6	267	2.47	6.4	0.6	1.2	3.9	28	<0.1	0.5	0.1	50	0.34	0.034
105648	Soil	0.7	14.6	7.2	101	<0.1	12.1	10.3	535	2.89	4.7	0.4	0.7	3.2	21	<0.1	0.4	<0.1	42	0.28	0.055
105649	Soil	0.9	18.3	7.5	78	<0.1	15.5	7.8	467	2.57	5.2	0.6	2.7	3.5	23	<0.1	0.4	0.1	40	0.32	0.043
105650	Soil	0.9	13.6	8.6	47	<0.1	14.7	5.8	203	2.26	6.1	0.4	2.4	2.6	23	<0.1	0.3	0.2	51	0.31	0.030
105651	Soil	0.8	16.0	7.2	63	<0.1	15.1	7.1	332	2.25	5.3	0.5	2.9	2.4	29	<0.1	0.3	0.1	47	0.42	0.057
105652	Soil	0.6	15.8	7.0	55	<0.1	13.0	6.5	233	2.22	5.5	0.6	2.6	2.6	25	<0.1	0.3	0.1	48	0.32	0.052
105653	Soil	1.6	10.1	15.7	138	<0.1	9.9	7.4	499	3.15	5.3	0.4	<0.5	1.1	39	<0.1	0.3	0.2	75	0.43	0.065
105654	Soil	0.6	11.7	4.4	76	<0.1	9.2	6.1	369	1.81	3.0	0.5	<0.5	1.5	31	<0.1	0.2	<0.1	35	0.49	0.099
105655	Soil	0.7	8.6	5.7	62	<0.1	8.3	4.7	193	1.52	3.4	0.2	<0.5	0.9	28	<0.1	0.2	<0.1	29	0.32	0.038
105656	Soil	0.7	22.6	7.5	60	<0.1	20.8	8.5	349	2.66	9.1	0.5	2.4	3.3	24	<0.1	0.6	0.1	57	0.25	0.033
105657	Soil	0.6	14.9	5.3	97	<0.1	8.4	9.0	582	3.55	3.3	0.6	<0.5	3.0	25	<0.1	0.3	<0.1	79	0.40	0.105
105658	Soil	0.7	11.5	5.6	124	<0.1	8.6	4.7	811	3.23	4.6	0.4	<0.5	3.4	11	0.1	0.3	<0.1	29	0.16	0.034
105659	Soil	0.4	10.9	4.5	106	<0.1	6.4	5.8	563	3.33	2.8	0.2	<0.5	1.2	16	<0.1	0.1	<0.1	46	0.33	0.116
105660	Soil	0.5	56.5	3.3	45	<0.1	9.6	13.5	258	3.42	2.9	0.4	<0.5	1.1	51	<0.1	0.3	<0.1	107	0.74	0.088
105661	Soil	0.6	53.3	4.4	59	<0.1	16.5	16.4	430	4.01	3.7	0.4	1.6	1.3	25	<0.1	0.3	<0.1	133	0.71	0.101
105662	Soil	0.5	34.6	4.6	71	<0.1	10.6	16.8	416	4.91	3.8	0.3	<0.5	1.0	13	<0.1	0.2	<0.1	135	0.40	0.106
105663	Soil	0.4	24.2	3.4	78	<0.1	7.5	13.8	401	4.06	4.0	0.4	<0.5	1.2	13	<0.1	0.2	<0.1	92	0.50	0.168
105664	Soil	0.5	73.3	15.0	106	<0.1	12.6	28.3	1111	7.76	1.8	0.5	<0.5	0.8	23	0.1	0.1	<0.1	256	0.42	0.062

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Page: 5 of 12 Part 2

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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	
105635	Soil	12	25	0.51	263	0.068	1	1.31	0.022	0.07	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
105636	Soil	12	26	0.58	272	0.075	1	1.48	0.027	0.09	0.2	0.04	4.0	<0.1	<0.05	5	0.9	<0.2
105637	Soil	7	2	1.98	354	0.126	<1	2.74	0.012	0.70	<0.1	0.07	13.8	0.2	<0.05	13	0.5	<0.2
105638	Soil	21	4	0.60	175	0.099	<1	1.19	0.007	0.51	<0.1	0.03	13.9	0.2	<0.05	8	<0.5	<0.2
105639	Soil	47	6	0.39	159	0.067	<1	1.33	0.007	0.34	<0.1	0.06	9.7	0.2	<0.05	8	<0.5	<0.2
105640	Soil	45	8	0.41	159	0.067	<1	1.37	0.007	0.33	<0.1	0.05	10.2	0.2	<0.05	8	0.7	<0.2
105641	Soil	34	7	0.47	188	0.056	<1	1.57	0.005	0.25	<0.1	0.02	7.4	0.2	<0.05	10	0.6	<0.2
105642	Soil	7	14	0.32	136	0.057	<1	1.31	0.006	0.28	<0.1	0.04	6.6	0.2	<0.05	9	<0.5	<0.2
105643	Soil	20	20	0.41	256	0.066	<1	1.52	0.010	0.19	<0.1	0.10	10.7	0.2	<0.05	9	0.5	<0.2
105644	Soil	23	12	0.30	278	0.030	<1	1.26	0.007	0.17	<0.1	0.06	10.0	0.1	<0.05	8	<0.5	<0.2
105645	Soil	15	28	0.47	244	0.076	1	1.31	0.015	0.09	0.1	0.04	5.3	<0.1	<0.05	5	<0.5	<0.2
105646	Soil	14	34	0.52	289	0.075	<1	1.45	0.021	0.06	0.2	0.05	5.0	<0.1	<0.05	5	<0.5	<0.2
105647	Soil	14	30	0.47	275	0.081	<1	1.43	0.017	0.04	0.1	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2
105648	Soil	9	19	0.55	188	0.112	<1	1.50	0.010	0.24	0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
105649	Soil	12	22	0.42	203	0.084	<1	1.22	0.015	0.12	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
105650	Soil	10	26	0.43	218	0.069	1	1.42	0.011	0.03	0.2	0.23	3.1	<0.1	<0.05	5	<0.5	<0.2
105651	Soil	9	22	0.57	238	0.082	<1	1.43	0.013	0.06	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
105652	Soil	10	21	0.59	255	0.082	1	1.41	0.011	0.08	0.2	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
105653	Soil	4	15	1.10	134	0.149	<1	1.71	0.010	0.10	0.1	<0.01	2.4	0.1	<0.05	12	<0.5	<0.2
105654	Soil	7	12	0.77	211	0.109	1	1.32	0.009	0.23	<0.1	<0.01	2.3	0.2	<0.05	5	<0.5	<0.2
105655	Soil	3	13	0.55	131	0.092	<1	1.27	0.008	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
105656	Soil	11	29	0.65	224	0.114	<1	1.79	0.014	0.11	0.1	0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
105657	Soil	7	13	0.98	226	0.131	<1	1.80	0.009	0.37	<0.1	0.01	4.5	0.3	<0.05	9	<0.5	<0.2
105658	Soil	4	13	0.61	190	0.162	<1	1.66	0.007	0.62	<0.1	<0.01	7.1	0.3	<0.05	8	<0.5	<0.2
105659	Soil	2	13	0.84	238	0.174	<1	1.69	0.007	0.76	<0.1	<0.01	4.4	0.3	<0.05	9	<0.5	<0.2
105660	Soil	7	10	0.76	149	0.105	<1	1.72	0.031	0.03	<0.1	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
105661	Soil	6	17	0.73	271	0.103	<1	1.70	0.033	0.10	<0.1	0.02	9.2	<0.1	<0.05	6	<0.5	<0.2
105662	Soil	3	22	1.20	162	0.213	<1	2.21	0.024	0.48	<0.1	<0.01	5.9	0.2	<0.05	8	<0.5	<0.2
105663	Soil	5	9	1.20	304	0.197	<1	2.02	0.020	0.79	<0.1	<0.01	4.1	0.2	<0.05	8	<0.5	<0.2
105664	Soil	4	7	2.04	342	0.393	<1	3.33	0.016	2.09	<0.1	<0.01	8.5	0.5	<0.05	10	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
105665	Soil	1.2	34.6	17.5	78	0.1	30.6	10.3	415	3.37	11.7	1.1	3.1	5.4	21	<0.1	0.6	0.3	62	0.27	0.037
105666	Soil	0.3	73.0	3.3	57	<0.1	24.0	19.5	462	3.61	2.3	0.2	2.5	0.8	24	<0.1	0.2	<0.1	101	0.52	0.021
105667	Soil	0.8	65.8	10.0	130	<0.1	28.7	11.6	467	4.61	12.4	0.8	3.7	4.4	22	<0.1	0.6	0.1	113	0.36	0.042
105668	Soil	0.9	44.7	13.5	69	0.1	19.7	17.2	620	3.48	4.1	0.4	1.0	1.9	31	<0.1	0.3	0.1	92	0.55	0.042
105669	Soil	0.5	60.7	15.7	63	<0.1	18.1	15.0	584	3.46	3.4	0.5	0.9	2.3	22	<0.1	0.7	<0.1	77	0.48	0.024
105670	Soil	<0.1	14.5	2.3	59	<0.1	7.0	4.1	534	2.48	1.3	0.4	1.0	4.5	9	<0.1	<0.1	<0.1	17	0.15	0.021
105671	Soil	0.3	25.7	2.9	125	<0.1	18.3	16.0	1344	6.67	1.8	0.8	2.4	6.1	70	<0.1	0.2	<0.1	161	1.30	0.284
105672	Soil	0.3	28.2	4.1	100	<0.1	7.9	11.0	664	3.26	2.8	0.5	<0.5	5.9	109	<0.1	0.1	<0.1	79	2.64	0.121
105673	Soil	0.4	38.3	167.6	175	0.3	20.1	8.7	725	4.38	5.3	0.8	3.0	3.3	168	2.6	0.4	0.7	122	4.38	0.083
105674	Soil	0.3	31.3	5.0	140	<0.1	10.9	9.0	793	5.26	7.3	2.3	0.8	9.3	57	0.1	0.2	<0.1	133	1.00	0.312
105675	Soil	0.8	54.7	8.9	114	0.2	20.4	12.2	778	4.79	6.2	1.5	2.9	8.3	57	<0.1	0.7	<0.1	114	0.63	0.140
108846	Soil	0.9	10.0	6.1	135	<0.1	6.5	10.3	1091	5.00	5.8	0.4	1.3	2.9	9	<0.1	0.2	<0.1	51	0.11	0.036
108847	Soil	0.7	20.2	7.8	149	<0.1	15.7	9.2	670	4.26	8.9	0.6	<0.5	3.8	12	0.1	0.4	0.1	42	0.13	0.020
108848	Soil	1.0	16.2	7.9	244	<0.1	8.0	8.7	625	4.82	4.2	0.9	13.9	5.0	13	0.1	0.3	0.2	60	0.15	0.023
108849	Soil	0.3	5.4	5.4	174	<0.1	5.2	10.8	693	3.02	1.2	0.6	0.7	2.5	53	<0.1	<0.1	<0.1	69	0.42	0.088
108850	Soil	1.1	11.8	21.9	99	<0.1	7.6	4.6	609	3.14	3.7	0.8	0.7	3.1	9	<0.1	0.4	0.4	24	0.10	0.022
108851	Soil	0.3	16.5	3.9	95	<0.1	3.3	8.3	720	3.61	0.9	0.7	<0.5	5.8	10	<0.1	0.2	<0.1	25	0.21	0.063
108852	Soil	0.9	21.7	9.5	163	<0.1	5.7	3.9	839	4.27	2.3	1.2	1.4	5.1	15	0.2	1.9	<0.1	14	0.19	0.024
108853	Soil	1.1	28.3	6.9	88	<0.1	11.5	4.2	814	4.05	3.9	1.0	2.0	5.5	16	<0.1	0.9	<0.1	22	0.15	0.014
108854	Soil	1.9	62.3	7.6	459	0.3	6.0	8.6	1944	5.18	5.9	0.7	<0.5	1.8	14	1.3	19.0	0.1	19	0.25	0.075
108855	Soil	1.0	33.0	2.4	120	<0.1	5.6	24.9	978	7.22	3.4	0.5	<0.5	1.2	15	<0.1	0.5	<0.1	117	0.62	0.208
108856	Soil	0.4	11.5	3.5	271	<0.1	2.9	5.5	697	4.74	2.5	0.6	0.7	2.1	18	0.2	0.2	<0.1	19	0.44	0.116
108857	Soil	0.5	60.8	3.2	62	<0.1	13.4	19.2	496	4.34	4.0	0.5	5.0	1.7	21	<0.1	0.3	<0.1	131	0.54	0.080
108858	Soil	1.3	18.6	7.5	93	<0.1	9.1	9.2	833	3.78	5.2	0.5	0.6	2.2	12	<0.1	0.4	0.2	69	0.12	0.044
108859	Soil	0.6	26.4	6.5	73	<0.1	15.3	9.8	561	3.29	4.7	0.8	2.4	6.4	19	<0.1	0.3	<0.1	65	0.26	0.024
108860	Soil	0.7	31.0	7.9	64	<0.1	19.5	10.2	423	3.03	6.5	0.9	1.2	6.4	23	<0.1	0.4	<0.1	62	0.28	0.022
108861	Soil	0.6	19.5	7.3	75	<0.1	10.7	8.3	419	2.81	4.6	0.8	0.7	3.8	22	<0.1	0.4	<0.1	50	0.29	0.030
108862	Soil	1.0	74.6	13.1	160	<0.1	66.7	9.8	463	3.49	10.1	0.9	2.5	5.9	21	<0.1	0.4	0.1	66	0.24	0.029
108863	Soil	1.2	24.2	10.3	59	<0.1	18.7	8.2	384	3.06	8.6	1.3	1.8	5.3	26	<0.1	0.6	0.2	54	0.20	0.013
108864	Soil	0.6	30.5	24.0	178	<0.1	9.0	18.6	1365	5.93	1.7	0.9	2.0	3.4	26	0.2	0.3	<0.1	149	0.61	0.148

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Project: Rosebute  
Report Date: August 06, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
105665	Soil	19	41	0.64	227	0.123	<1	1.75	0.011	0.33	0.2	0.02	9.2	0.2	<0.05	6	<0.5	<0.2
105666	Soil	7	29	1.54	204	0.216	<1	2.10	0.020	0.82	<0.1	0.03	6.3	0.3	<0.05	6	<0.5	<0.2
105667	Soil	20	32	1.19	361	0.180	<1	2.32	0.015	1.02	<0.1	0.06	12.0	0.4	<0.05	12	<0.5	<0.2
105668	Soil	6	26	1.23	360	0.125	1	2.16	0.015	0.58	<0.1	0.02	7.8	0.2	<0.05	7	<0.5	<0.2
105669	Soil	10	17	0.51	481	0.022	5	1.76	0.007	0.48	<0.1	0.02	13.2	0.2	<0.05	6	<0.5	<0.2
105670	Soil	21	4	0.52	100	0.087	<1	0.83	0.007	0.37	<0.1	<0.01	9.5	0.1	<0.05	6	<0.5	<0.2
105671	Soil	48	51	1.63	206	0.085	<1	2.50	0.024	0.23	<0.1	0.03	18.4	<0.1	<0.05	13	<0.5	<0.2
105672	Soil	20	11	1.05	178	0.083	<1	1.49	0.009	0.36	<0.1	0.01	6.6	0.3	<0.05	8	<0.5	<0.2
105673	Soil	20	20	1.20	219	0.037	<1	1.47	0.015	0.05	<0.1	0.05	6.6	<0.1	<0.05	11	<0.5	<0.2
105674	Soil	32	10	1.36	228	0.112	<1	2.18	0.019	0.60	<0.1	<0.01	13.2	0.2	<0.05	13	<0.5	<0.2
105675	Soil	42	23	1.10	177	0.064	<1	1.83	0.010	0.21	<0.1	0.06	12.3	<0.1	<0.05	10	<0.5	<0.2
108846	Soil	5	11	0.85	157	0.244	<1	2.31	0.007	0.94	<0.1	<0.01	9.4	0.5	<0.05	11	<0.5	<0.2
108847	Soil	9	25	0.59	200	0.164	<1	2.42	0.009	0.40	<0.1	0.02	10.5	0.3	<0.05	9	<0.5	<0.2
108848	Soil	8	13	0.88	175	0.184	<1	2.61	0.007	0.57	<0.1	0.02	10.4	0.5	<0.05	12	0.6	<0.2
108849	Soil	10	10	1.27	281	0.119	<1	1.99	0.009	0.75	<0.1	<0.01	2.9	0.5	<0.05	9	<0.5	<0.2
108850	Soil	4	14	0.19	110	0.029	<1	1.22	0.005	0.12	<0.1	0.05	8.9	0.1	<0.05	5	<0.5	<0.2
108851	Soil	4	5	0.72	157	0.194	<1	1.88	0.007	0.76	<0.1	<0.01	10.0	0.4	<0.05	9	<0.5	<0.2
108852	Soil	34	7	0.45	288	0.095	<1	1.51	0.007	0.40	<0.1	0.07	12.2	0.2	<0.05	6	<0.5	<0.2
108853	Soil	24	16	0.32	223	0.074	<1	1.32	0.008	0.23	<0.1	0.24	13.2	0.2	<0.05	7	<0.5	<0.2
108854	Soil	11	4	0.13	365	0.005	4	0.58	0.002	0.20	<0.1	1.83	12.8	0.1	<0.05	2	<0.5	<0.2
108855	Soil	3	6	1.28	282	0.122	<1	2.54	0.017	0.57	<0.1	0.18	9.6	0.2	<0.05	11	<0.5	0.2
108856	Soil	15	5	0.96	333	0.103	<1	1.88	0.008	0.47	<0.1	0.12	12.9	0.1	<0.05	11	<0.5	<0.2
108857	Soil	7	17	1.14	258	0.126	<1	1.87	0.024	0.29	<0.1	0.05	5.8	<0.1	<0.05	6	<0.5	<0.2
108858	Soil	3	15	0.89	176	0.157	<1	1.95	0.007	0.80	<0.1	0.02	6.7	0.4	<0.05	10	<0.5	<0.2
108859	Soil	31	24	0.77	223	0.127	<1	1.76	0.010	0.31	<0.1	0.04	6.8	0.2	<0.05	7	<0.5	<0.2
108860	Soil	24	30	0.80	233	0.101	<1	1.82	0.011	0.17	<0.1	0.07	6.5	0.1	<0.05	6	<0.5	<0.2
108861	Soil	13	17	0.67	194	0.088	<1	1.66	0.009	0.34	<0.1	0.04	6.9	0.2	<0.05	7	<0.5	<0.2
108862	Soil	17	28	0.71	239	0.101	<1	2.07	0.012	0.18	<0.1	0.05	6.2	0.1	<0.05	7	<0.5	<0.2
108863	Soil	25	36	0.52	244	0.085	<1	1.73	0.016	0.11	0.1	0.05	7.0	<0.1	<0.05	6	<0.5	<0.2
108864	Soil	23	9	1.14	320	0.152	<1	2.06	0.009	0.90	<0.1	0.04	15.8	0.3	<0.05	10	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 7 of 12 Part 1

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
108865	Soil			1.3	21.0	11.6	103	<0.1	13.7	5.6	662	3.64	5.5	0.9	1.3	3.2	18	<0.1	0.4	0.1	38	0.18	0.018
108866	Soil			1.2	23.8	9.7	57	<0.1	19.9	8.0	331	3.23	8.0	0.5	1.4	3.6	18	<0.1	0.5	0.1	64	0.18	0.015
108867	Soil			1.1	17.6	6.9	77	<0.1	13.9	5.8	511	2.70	5.6	0.8	1.9	3.7	17	<0.1	0.4	<0.1	36	0.18	0.013
108868	Soil			3.3	45.2	10.1	76	<0.1	21.8	8.0	429	3.66	6.0	0.9	2.7	5.7	28	<0.1	1.3	0.2	47	0.27	0.012
108869	Soil			0.5	194.8	8.2	73	0.2	25.8	38.0	797	6.10	5.1	0.9	0.7	2.7	35	<0.1	0.3	<0.1	171	0.74	0.039
108870	Soil			0.7	102.2	2.6	84	0.2	24.7	32.9	869	6.28	3.3	0.8	1.8	1.1	30	<0.1	0.3	<0.1	191	0.70	0.033
108871	Soil			1.0	93.7	4.6	65	<0.1	19.1	25.8	524	4.20	2.6	0.3	<0.5	0.8	30	<0.1	0.2	<0.1	133	0.54	0.035
108872	Soil			0.8	55.0	5.8	75	<0.1	14.2	21.3	810	4.71	5.6	0.3	<0.5	1.3	19	<0.1	0.2	<0.1	153	0.44	0.055
108873	Soil			1.0	23.8	5.5	64	<0.1	10.3	9.7	484	3.42	4.4	1.0	<0.5	4.8	17	<0.1	0.3	0.1	51	0.23	0.029
109629	Soil			0.6	27.0	8.7	72	<0.1	19.0	7.0	493	2.95	6.2	1.0	1.9	5.6	60	<0.1	0.5	0.1	47	0.52	0.028
109630	Soil			0.6	11.4	10.6	90	<0.1	6.4	4.2	418	3.16	13.7	1.4	<0.5	10.0	29	<0.1	0.3	<0.1	13	0.24	0.022
109631	Soil			0.1	40.3	7.3	85	<0.1	9.6	14.5	793	4.39	1.6	0.7	<0.5	0.4	116	<0.1	0.1	<0.1	105	1.45	0.031
109632	Soil			1.5	28.7	10.3	130	<0.1	10.0	4.1	480	3.71	3.5	1.0	0.9	15.3	12	<0.1	0.2	<0.1	48	0.08	0.017
109633	Soil			0.7	23.1	12.5	66	<0.1	16.3	7.0	291	2.89	7.2	1.1	2.0	3.8	30	<0.1	0.4	0.1	51	0.26	0.011
109634	Soil			0.5	78.6	7.4	117	<0.1	15.6	14.8	1177	6.75	3.9	1.9	2.0	2.4	28	<0.1	0.3	<0.1	122	0.49	0.077
109635	Soil			1.2	28.5	7.8	67	<0.1	16.7	9.7	309	3.45	9.3	0.9	2.2	2.9	24	<0.1	0.4	0.1	74	0.17	0.041
109636	Soil			0.8	30.9	2.6	83	<0.1	3.1	10.8	473	4.13	2.0	0.8	1.6	2.8	339	<0.1	0.2	<0.1	36	0.75	0.087
109637	Soil			1.4	20.8	10.1	66	0.2	19.1	12.8	312	3.71	10.1	0.5	<0.5	3.1	21	<0.1	0.6	0.2	77	0.13	0.037
109638	Soil			1.1	18.9	9.7	55	0.1	19.9	11.5	237	3.09	9.2	0.5	1.0	2.9	14	<0.1	0.5	0.2	68	0.13	0.031
109639	Soil			1.7	65.6	3.3	81	<0.1	4.2	19.5	634	5.20	2.6	0.5	<0.5	1.9	195	<0.1	0.2	0.1	47	0.67	0.118
109640	Soil			1.0	51.2	3.6	77	<0.1	3.9	17.3	589	5.23	2.1	0.4	<0.5	1.6	181	<0.1	0.1	<0.1	44	0.65	0.139
109641	Soil			1.2	18.0	9.3	56	<0.1	21.7	11.6	282	3.46	9.2	0.6	1.0	3.5	20	<0.1	0.5	0.2	55	0.12	0.029
109642	Soil			0.7	25.4	3.5	126	<0.1	7.6	25.9	781	5.71	3.0	0.4	<0.5	2.5	46	<0.1	0.2	<0.1	127	0.37	0.097
109643	Soil			0.5	88.4	2.4	251	<0.1	6.0	17.2	973	6.88	2.1	0.5	0.7	2.5	34	0.1	0.2	0.1	96	0.76	0.204
109644	Soil			0.8	110.4	4.4	169	<0.1	11.7	23.9	783	5.56	4.6	0.8	0.8	2.8	264	<0.1	0.2	0.1	103	0.47	0.100
109645	Soil			0.3	2.5	3.4	102	<0.1	4.0	3.9	514	1.09	0.9	0.2	<0.5	0.8	7	<0.1	<0.1	0.1	19	0.08	0.037
109646	Soil			1.0	21.5	9.8	48	<0.1	21.3	9.8	265	2.77	11.7	0.7	2.1	4.3	14	<0.1	0.5	0.2	59	0.13	0.024
109647	Soil			0.7	16.2	6.4	70	<0.1	22.3	11.2	434	3.19	8.4	0.3	0.9	2.9	24	<0.1	0.3	0.1	50	0.20	0.028
109648	Soil			0.4	18.2	3.9	47	<0.1	8.3	4.6	239	2.26	5.6	0.4	1.1	2.4	83	<0.1	0.3	<0.1	26	0.65	0.010
109649	Soil			0.8	22.4	9.2	59	<0.1	25.7	12.3	404	2.97	12.3	0.6	3.9	3.7	26	<0.1	0.4	0.2	60	0.22	0.021

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
108865	Soil	12	22	0.51	207	0.095	2	1.57	0.015	0.37	<0.1	0.03	11.7	0.2	<0.05	7	<0.5	<0.2
108866	Soil	10	35	0.58	194	0.086	<1	2.25	0.011	0.08	<0.1	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
108867	Soil	14	20	0.40	189	0.089	<1	1.26	0.010	0.17	<0.1	0.02	8.6	<0.1	<0.05	5	<0.5	<0.2
108868	Soil	17	28	0.34	253	0.043	2	1.22	0.012	0.07	<0.1	0.07	9.6	<0.1	<0.05	4	0.5	<0.2
108869	Soil	14	25	2.53	421	0.189	<1	2.81	0.028	0.42	<0.1	0.08	17.7	0.1	<0.05	9	0.6	<0.2
108870	Soil	5	25	3.50	727	0.178	<1	3.97	0.018	0.78	<0.1	0.07	19.0	0.3	<0.05	11	<0.5	<0.2
108871	Soil	5	20	2.13	316	0.181	<1	2.71	0.023	0.40	<0.1	0.02	6.6	0.2	<0.05	8	<0.5	<0.2
108872	Soil	4	21	1.47	297	0.177	<1	2.57	0.027	0.25	<0.1	0.01	6.2	<0.1	<0.05	8	<0.5	<0.2
108873	Soil	7	18	0.59	201	0.115	<1	1.42	0.011	0.34	<0.1	<0.01	7.8	<0.1	<0.05	6	<0.5	0.2
109629	Soil	25	26	0.53	248	0.111	<1	2.02	0.017	0.20	<0.1	0.05	7.0	<0.1	<0.05	8	<0.5	<0.2
109630	Soil	23	9	0.38	167	0.047	<1	2.00	0.008	0.25	<0.1	0.03	5.0	0.1	<0.05	9	<0.5	<0.2
109631	Soil	5	16	1.39	254	0.227	<1	3.34	0.038	0.38	<0.1	<0.01	7.9	0.2	<0.05	9	<0.5	<0.2
109632	Soil	17	17	0.47	215	0.155	<1	1.73	0.008	0.83	<0.1	0.01	16.6	0.3	<0.05	11	<0.5	<0.2
109633	Soil	18	27	0.43	207	0.078	<1	1.63	0.013	0.10	<0.1	0.04	6.7	<0.1	<0.05	6	<0.5	<0.2
109634	Soil	13	25	1.21	262	0.264	<1	2.74	0.011	1.25	<0.1	0.03	18.2	0.3	<0.05	17	<0.5	<0.2
109635	Soil	13	27	0.89	219	0.075	1	2.26	0.013	0.07	0.1	0.05	5.5	<0.1	<0.05	7	<0.5	<0.2
109636	Soil	25	4	1.17	256	0.044	<1	2.68	0.042	0.26	<0.1	0.03	9.0	<0.1	<0.05	9	<0.5	<0.2
109637	Soil	10	34	0.70	210	0.060	<1	2.90	0.010	0.05	0.1	0.03	4.4	<0.1	<0.05	7	<0.5	<0.2
109638	Soil	10	32	0.46	190	0.054	<1	2.51	0.009	0.04	0.1	0.02	3.6	<0.1	<0.05	7	<0.5	<0.2
109639	Soil	18	7	1.28	281	0.033	<1	3.19	0.039	0.12	<0.1	0.02	8.0	<0.1	<0.05	11	<0.5	<0.2
109640	Soil	18	6	1.22	244	0.033	<1	2.87	0.034	0.12	<0.1	0.02	7.5	<0.1	<0.05	10	<0.5	<0.2
109641	Soil	9	31	0.63	233	0.072	<1	2.91	0.008	0.08	<0.1	0.04	5.4	<0.1	<0.05	8	<0.5	<0.2
109642	Soil	13	11	1.76	171	0.082	<1	3.17	0.026	0.11	<0.1	0.02	9.3	<0.1	<0.05	12	<0.5	<0.2
109643	Soil	15	7	1.72	233	0.056	<1	3.34	0.028	0.13	<0.1	0.02	12.1	<0.1	<0.05	12	<0.5	<0.2
109644	Soil	17	15	1.93	234	0.057	<1	3.03	0.027	0.05	<0.1	0.03	11.3	<0.1	<0.05	11	0.5	<0.2
109645	Soil	4	5	0.31	52	0.035	1	1.14	0.007	0.18	<0.1	0.01	0.7	0.1	<0.05	5	<0.5	<0.2
109646	Soil	12	34	0.49	199	0.068	1	2.15	0.008	0.04	0.1	0.05	3.7	0.1	<0.05	5	<0.5	<0.2
109647	Soil	7	34	0.68	184	0.102	1	3.07	0.013	0.13	<0.1	0.03	2.8	0.1	<0.05	8	<0.5	<0.2
109648	Soil	12	14	0.33	187	0.033	2	2.25	0.056	0.11	<0.1	0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
109649	Soil	14	40	0.69	250	0.082	1	2.21	0.012	0.05	0.1	0.04	4.6	<0.1	<0.05	6	<0.5	<0.2

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 Report Date: August 06, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

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
109650	Soil	0.6	27.4	8.8	60	<0.1	20.7	9.4	387	2.59	10.2	0.8	3.4	3.4	25	<0.1	0.4	0.2	53	0.23	0.025		
109651	Soil	1.0	31.2	10.0	57	<0.1	23.0	12.5	519	3.06	12.8	1.1	3.9	4.8	21	<0.1	0.6	0.2	63	0.19	0.037		
109652	Soil	0.7	26.6	8.3	58	<0.1	25.6	11.8	292	2.73	12.1	0.8	1.4	4.1	24	<0.1	0.5	0.2	61	0.25	0.042		
109653	Soil	0.4	31.6	2.7	180	<0.1	6.4	21.1	1246	6.20	4.6	0.6	2.8	2.8	428	<0.1	0.2	0.2	114	0.88	0.246		
109654	Soil	2.8	15.8	6.9	141	<0.1	11.4	9.2	727	5.02	7.9	0.7	2.7	5.3	16	0.1	0.4	0.2	49	0.10	0.043		
109655	Soil	1.9	47.4	11.0	100	0.3	36.3	10.2	279	4.38	7.4	0.9	0.9	4.9	36	0.2	0.2	0.3	110	0.16	0.058		
109656	Soil	1.3	30.4	8.0	71	0.1	25.9	10.0	420	2.95	8.3	0.8	2.0	4.7	24	0.1	0.4	0.2	67	0.18	0.045		
109657	Soil	1.1	35.7	9.0	60	<0.1	29.7	10.6	351	2.91	10.6	1.7	4.4	4.8	25	<0.1	0.6	0.2	61	0.27	0.018		
109658	Soil	0.8	60.6	6.3	70	0.1	15.5	15.3	316	3.66	4.8	0.6	4.7	2.2	52	<0.1	0.2	0.1	96	0.37	0.031		
109659	Soil	7.2	222.1	6.8	74	1.0	15.6	10.8	322	3.46	6.3	0.7	8.0	3.6	18	0.1	0.3	0.2	73	0.15	0.044		
109660	Soil	3.8	386.0	6.5	58	0.2	13.8	7.1	407	6.15	2.4	1.5	2.0	9.2	74	<0.1	<0.1	0.3	110	0.10	0.085		
109661	Soil	1.0	65.6	6.9	126	<0.1	36.5	12.3	512	4.36	4.2	2.1	2.1	13.6	19	0.2	0.2	0.2	63	0.17	0.183		
109662	Soil	1.5	52.2	16.8	162	0.3	28.1	14.8	324	3.67	7.3	1.2	0.8	7.6	23	0.5	0.2	0.3	77	0.21	0.072		
109663	Soil	1.1	59.3	7.6	116	<0.1	26.1	14.1	445	3.22	5.3	1.1	2.5	6.3	26	0.2	0.3	0.1	76	0.39	0.076		
109664	Soil	1.2	54.6	8.4	71	0.2	21.1	10.2	284	2.76	6.4	1.1	<0.5	4.7	26	0.1	0.3	0.2	64	0.33	0.061		
109665	Soil	1.5	41.0	9.7	78	0.2	16.9	10.1	300	3.15	7.2	0.7	3.1	3.9	20	0.2	0.3	0.2	79	0.22	0.049		
109666	Soil	0.8	16.1	7.6	77	0.1	13.1	14.6	911	3.05	3.6	0.2	<0.5	2.1	17	0.1	0.2	0.1	72	0.20	0.053		
113229	Soil	0.8	24.2	8.3	64	0.1	21.3	11.3	780	2.59	8.1	1.6	0.6	2.9	115	0.2	0.5	0.2	51	0.77	0.061		
113230	Soil	0.9	42.4	11.3	79	<0.1	24.3	14.4	734	4.19	7.0	0.7	2.6	3.3	61	<0.1	0.3	0.1	80	0.48	0.024		
113231	Soil	0.9	20.8	9.9	125	<0.1	8.2	10.1	1059	5.02	3.9	1.0	1.3	4.5	18	<0.1	0.2	<0.1	61	0.19	0.043		
113232	Soil	0.7	35.4	10.0	53	<0.1	27.9	11.8	426	3.00	9.6	0.4	7.3	3.9	28	<0.1	0.5	0.1	72	0.44	0.032		
113233	Soil	0.8	26.3	6.2	83	0.1	18.4	11.4	821	4.22	8.4	0.5	2.3	4.1	23	<0.1	0.4	0.1	64	0.35	0.049		
113234	Soil	0.6	41.0	6.7	83	0.1	21.4	10.6	709	3.79	8.1	0.7	8.0	4.5	20	<0.1	0.5	0.1	62	0.27	0.028		
113235	Soil	0.5	22.2	3.6	155	<0.1	9.4	10.3	1146	4.87	3.5	0.6	<0.5	5.6	12	<0.1	0.2	<0.1	56	0.13	0.046		
113236	Soil	0.7	30.3	8.8	62	<0.1	24.4	10.4	414	3.29	11.6	0.6	2.1	4.3	19	<0.1	0.4	0.1	55	0.22	0.030		
113237	Soil	0.5	21.3	6.9	100	<0.1	14.1	8.5	574	3.29	6.3	0.4	<0.5	4.7	13	<0.1	0.3	<0.1	53	0.12	0.027		
113238	Soil	0.6	21.6	4.4	100	<0.1	10.6	9.0	858	3.96	5.3	0.3	<0.5	5.6	13	<0.1	0.2	<0.1	37	0.15	0.027		
113239	Soil	0.6	21.5	6.8	108	<0.1	21.1	13.4	426	3.39	5.5	0.4	<0.5	2.7	31	<0.1	0.3	<0.1	85	0.29	0.036		
113240	Soil	0.5	74.8	3.4	59	<0.1	11.4	16.1	457	3.75	3.7	0.3	<0.5	1.4	13	<0.1	0.2	0.1	111	0.39	0.021		
113241	Soil	0.6	24.6	8.8	44	<0.1	19.3	8.2	228	2.53	8.4	0.8	2.1	4.0	21	<0.1	0.5	0.1	57	0.22	0.016		

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Page: 8 of 12 Part 2

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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	
109650	Soil	16	31	0.47	263	0.068	1	1.75	0.010	0.06	<0.1	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
109651	Soil	18	36	0.50	269	0.067	3	2.12	0.012	0.05	0.1	0.06	5.7	0.1	<0.05	6	<0.5	<0.2
109652	Soil	16	31	0.59	247	0.084	2	1.94	0.011	0.06	0.2	0.04	6.0	<0.1	<0.05	6	<0.5	<0.2
109653	Soil	17	8	2.13	349	0.112	<1	3.23	0.017	0.22	<0.1	0.02	16.7	0.2	<0.05	14	<0.5	<0.2
109654	Soil	24	21	0.62	247	0.124	<1	2.47	0.010	0.43	<0.1	0.03	10.1	0.2	<0.05	11	<0.5	<0.2
109655	Soil	23	88	1.27	432	0.151	<1	3.28	0.020	0.43	<0.1	0.02	4.8	0.3	0.11	10	<0.5	<0.2
109656	Soil	13	39	0.76	245	0.114	1	1.81	0.015	0.21	<0.1	0.01	3.4	0.2	<0.05	5	<0.5	<0.2
109657	Soil	19	36	0.51	302	0.090	<1	1.66	0.014	0.08	0.1	0.06	7.4	<0.1	<0.05	5	<0.5	<0.2
109658	Soil	9	21	0.79	338	0.155	<1	2.11	0.028	0.23	0.1	0.01	4.7	0.1	<0.05	6	<0.5	<0.2
109659	Soil	8	21	0.88	181	0.151	1	2.15	0.010	0.44	0.1	0.04	2.5	0.3	<0.05	7	<0.5	<0.2
109660	Soil	30	18	1.30	291	0.243	<1	3.12	0.047	1.48	<0.1	<0.01	5.4	0.7	0.33	8	0.6	<0.2
109661	Soil	36	47	1.04	194	0.261	<1	2.34	0.007	0.77	<0.1	<0.01	3.2	0.5	<0.05	9	<0.5	<0.2
109662	Soil	27	39	0.94	195	0.188	<1	2.17	0.010	0.45	<0.1	0.02	3.5	0.3	<0.05	8	<0.5	<0.2
109663	Soil	18	33	0.94	274	0.188	<1	1.92	0.014	0.48	0.2	0.02	4.6	0.3	<0.05	6	<0.5	<0.2
109664	Soil	16	29	0.63	204	0.125	<1	1.60	0.013	0.16	0.1	0.04	3.5	0.2	<0.05	6	<0.5	<0.2
109665	Soil	12	29	0.81	146	0.159	1	1.95	0.010	0.23	0.1	0.04	3.2	0.2	<0.05	7	<0.5	<0.2
109666	Soil	6	25	0.91	230	0.175	<1	1.76	0.011	0.30	0.1	0.04	1.9	0.2	<0.05	7	<0.5	<0.2
113229	Soil	15	27	0.69	244	0.085	1	1.40	0.024	0.15	0.1	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
113230	Soil	12	35	1.22	228	0.192	1	1.94	0.016	0.57	<0.1	0.03	8.4	0.2	<0.05	8	<0.5	<0.2
113231	Soil	22	8	1.24	199	0.269	<1	2.07	0.007	1.11	<0.1	0.03	15.0	0.3	<0.05	13	<0.5	<0.2
113232	Soil	14	33	0.58	196	0.098	<1	1.57	0.014	0.14	0.2	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2
113233	Soil	14	24	0.89	265	0.203	1	1.97	0.012	0.76	<0.1	0.02	10.9	0.2	<0.05	8	<0.5	<0.2
113234	Soil	25	27	0.74	186	0.148	<1	1.73	0.012	0.59	<0.1	0.04	12.1	0.2	<0.05	7	<0.5	<0.2
113235	Soil	11	16	1.35	184	0.293	<1	2.32	0.007	1.54	<0.1	0.01	14.0	0.4	<0.05	12	0.6	<0.2
113236	Soil	12	30	0.62	186	0.145	<1	1.90	0.008	0.43	0.2	0.02	8.7	0.2	<0.05	7	<0.5	<0.2
113237	Soil	12	22	0.80	170	0.165	<1	2.00	0.008	0.72	<0.1	0.02	7.7	0.3	<0.05	8	<0.5	<0.2
113238	Soil	5	12	0.75	247	0.235	1	2.01	0.006	0.90	<0.1	<0.01	11.9	0.3	<0.05	9	<0.5	<0.2
113239	Soil	4	39	1.02	299	0.112	1	1.89	0.009	0.55	<0.1	0.02	4.6	0.2	<0.05	10	<0.5	<0.2
113240	Soil	3	19	1.05	235	0.162	2	1.88	0.028	0.70	<0.1	<0.01	6.5	0.3	<0.05	7	<0.5	<0.2
113241	Soil	19	31	0.45	269	0.073	1	1.57	0.009	0.06	<0.1	0.05	4.8	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

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
113242	Soil	0.4	49.6	4.2	82	<0.1	11.6	16.9	536	4.80	5.0	0.3	<0.5	1.0	19	<0.1	0.2	0.1	123	0.41	0.036
113243	Soil	0.5	45.6	5.2	87	<0.1	11.9	16.9	554	4.74	5.0	0.4	<0.5	1.2	20	<0.1	0.2	0.1	122	0.39	0.038
113244	Soil	0.2	56.8	2.8	81	<0.1	10.7	21.9	655	5.16	3.0	0.3	<0.5	1.4	17	<0.1	0.2	<0.1	158	0.38	0.022
113245	Soil	0.6	17.7	7.4	82	<0.1	14.5	10.6	533	3.07	4.0	0.4	<0.5	2.8	23	<0.1	0.3	0.2	76	0.31	0.069
113246	Soil	1.0	40.9	8.6	84	<0.1	16.0	9.5	390	3.44	15.3	0.4	2.2	2.5	18	<0.1	0.2	0.2	72	0.24	0.037
113247	Soil	0.3	52.5	9.3	98	<0.1	13.1	14.0	529	4.40	3.9	0.6	2.2	4.2	15	<0.1	0.3	0.1	72	0.23	0.045
113248	Soil	0.3	83.1	3.6	52	<0.1	7.0	8.5	257	1.59	1.6	0.2	<0.5	0.6	13	<0.1	0.1	<0.1	47	0.40	0.022
113249	Soil	2.7	49.3	12.2	106	<0.1	19.9	10.0	401	4.50	109.6	1.4	1.5	7.7	13	<0.1	1.6	0.2	67	0.20	0.041
113250	Soil	0.7	37.7	38.5	74	<0.1	15.7	8.1	402	3.47	9.6	1.0	2.1	3.9	14	<0.1	0.7	0.2	71	0.17	0.027
113252	Soil	0.1	14.6	2.6	44	<0.1	29.8	18.7	413	2.28	1.3	0.2	<0.5	1.0	22	<0.1	<0.1	<0.1	56	0.26	0.006
113253	Soil	0.2	25.6	3.2	104	<0.1	7.0	9.2	651	3.37	2.1	0.4	<0.5	5.4	20	<0.1	0.1	<0.1	65	0.25	0.056
113254	Soil	0.5	14.3	7.6	108	<0.1	7.7	6.1	429	3.14	3.7	0.5	<0.5	1.9	13	<0.1	0.2	0.2	46	0.13	0.027
116564	Soil	0.7	31.2	7.7	82	<0.1	17.8	10.7	451	3.92	4.9	0.7	2.7	5.5	27	<0.1	0.4	0.2	87	0.28	0.010
116565	Soil	0.5	15.9	16.7	82	<0.1	7.0	9.5	218	3.44	2.4	0.7	<0.5	3.5	19	<0.1	0.3	0.1	64	0.20	0.016
116566	Soil	1.2	15.2	11.3	69	<0.1	17.3	8.7	359	3.41	8.7	0.4	<0.5	3.0	14	<0.1	0.5	0.2	68	0.13	0.023
116567	Soil	0.6	12.8	11.4	45	<0.1	10.7	5.4	264	2.06	4.1	0.5	<0.5	2.8	13	<0.1	0.3	0.1	44	0.13	0.011
116568	Soil	0.4	20.7	8.2	59	<0.1	16.0	8.3	372	2.69	5.4	0.8	0.8	3.9	20	<0.1	0.3	0.1	53	0.24	0.031
116569	Soil	0.6	20.8	8.3	66	<0.1	13.0	8.5	481	2.76	3.6	0.8	1.3	3.6	18	<0.1	0.3	0.1	53	0.20	0.025
116570	Soil	0.6	21.5	8.1	46	<0.1	17.8	8.2	247	2.48	5.9	0.6	2.5	4.1	17	<0.1	0.4	0.1	56	0.17	0.014
116571	Soil	1.0	23.4	7.6	59	<0.1	15.1	9.1	360	3.26	5.9	0.7	1.7	4.2	19	<0.1	0.4	0.1	64	0.23	0.021
116572	Soil	0.6	22.7	5.7	58	<0.1	12.0	7.3	416	2.95	4.1	0.9	1.1	3.8	20	<0.1	0.2	<0.1	55	0.25	0.039
116573	Soil	0.5	25.5	6.9	59	<0.1	14.9	7.3	381	2.71	5.0	0.8	2.0	4.1	23	<0.1	0.4	0.1	51	0.30	0.043
116574	Soil	0.9	16.3	7.7	46	<0.1	14.6	6.1	232	2.27	5.3	0.5	1.8	3.0	21	<0.1	0.4	0.1	49	0.27	0.031
116575	Soil	0.6	22.9	8.6	46	<0.1	18.6	8.6	276	2.48	6.7	0.6	1.9	4.0	29	<0.1	0.4	0.1	56	0.32	0.035
116576	Soil	0.9	47.5	11.0	70	0.2	29.7	16.2	455	3.89	4.9	0.7	2.1	3.1	34	<0.1	0.5	0.1	98	0.43	0.034
116577	Soil	0.6	28.8	7.6	49	<0.1	18.1	8.4	326	2.56	6.6	0.9	1.6	3.9	28	<0.1	0.4	0.1	57	0.38	0.033
116578	Soil	0.6	14.0	6.1	42	<0.1	12.0	6.6	214	2.15	4.9	0.5	1.7	2.6	22	<0.1	0.3	<0.1	48	0.29	0.030
116579	Soil	0.7	13.9	7.2	42	<0.1	13.1	6.3	310	2.14	4.8	0.8	3.4	3.0	25	<0.1	0.4	0.1	47	0.34	0.033
116580	Soil	0.7	22.0	8.1	54	<0.1	16.6	7.8	402	2.59	6.6	1.4	1.0	3.8	29	<0.1	0.3	0.1	48	0.34	0.038
116581	Soil	0.9	21.8	8.5	48	<0.1	17.7	7.4	271	2.37	6.3	1.1	1.3	4.0	27	<0.1	0.4	0.1	50	0.34	0.035

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
113242	Soil	2	22	1.47	316	0.196	<1	2.78	0.023	0.72	<0.1	<0.01	6.2	0.2	<0.05	8	<0.5	<0.2
113243	Soil	2	22	1.40	316	0.176	2	2.74	0.020	0.67	<0.1	0.02	6.8	0.2	<0.05	8	<0.5	<0.2
113244	Soil	3	17	1.91	335	0.240	1	2.82	0.026	1.39	<0.1	<0.01	7.2	0.4	<0.05	9	<0.5	<0.2
113245	Soil	6	26	0.71	319	0.127	3	1.84	0.010	0.53	<0.1	0.02	3.8	0.2	<0.05	7	<0.5	<0.2
113246	Soil	5	36	1.02	274	0.137	1	2.12	0.007	0.83	<0.1	0.02	4.0	0.4	<0.05	6	<0.5	<0.2
113247	Soil	22	17	0.91	248	0.172	<1	1.61	0.006	0.65	<0.1	0.03	15.6	0.2	<0.05	8	<0.5	<0.2
113248	Soil	4	9	0.56	85	0.048	<1	1.02	0.020	0.05	<0.1	0.02	3.6	<0.1	<0.05	3	<0.5	<0.2
113249	Soil	20	28	0.38	219	0.052	<1	1.40	0.004	0.23	<0.1	0.29	7.3	0.8	<0.05	6	0.9	<0.2
113250	Soil	15	26	0.61	226	0.098	2	1.63	0.007	0.40	<0.1	0.19	8.1	0.3	<0.05	6	<0.5	<0.2
113252	Soil	7	57	1.84	128	0.148	<1	2.18	0.007	0.36	<0.1	0.01	2.9	0.2	<0.05	4	<0.5	<0.2
113253	Soil	26	10	1.32	230	0.204	<1	2.33	0.007	0.92	<0.1	0.01	5.6	0.3	<0.05	9	<0.5	<0.2
113254	Soil	6	12	0.66	140	0.107	1	1.80	0.005	0.48	<0.1	0.02	5.3	0.3	<0.05	8	<0.5	<0.2
116564	Soil	27	44	1.15	474	0.153	1	2.47	0.009	0.49	<0.1	0.02	8.4	0.3	<0.05	8	<0.5	<0.2
116565	Soil	10	16	0.47	290	0.003	<1	1.99	0.005	0.10	<0.1	0.01	9.0	<0.1	<0.05	7	0.6	<0.2
116566	Soil	8	33	0.57	170	0.101	<1	2.38	0.009	0.21	<0.1	0.02	3.6	0.1	<0.05	7	0.6	<0.2
116567	Soil	10	20	0.35	128	0.081	<1	1.24	0.010	0.10	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
116568	Soil	14	26	0.61	186	0.116	<1	1.57	0.011	0.20	0.1	0.02	5.1	0.1	<0.05	6	<0.5	<0.2
116569	Soil	17	23	0.68	161	0.125	<1	1.60	0.013	0.33	<0.1	0.03	5.3	0.2	<0.05	6	<0.5	<0.2
116570	Soil	14	31	0.47	191	0.083	<1	1.75	0.010	0.05	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
116571	Soil	13	31	0.68	233	0.129	<1	1.99	0.012	0.22	<0.1	0.02	4.6	0.1	<0.05	6	<0.5	<0.2
116572	Soil	18	24	0.66	200	0.141	<1	1.56	0.011	0.42	<0.1	0.03	5.6	0.2	<0.05	6	<0.5	<0.2
116573	Soil	17	25	0.62	222	0.124	1	1.49	0.016	0.33	0.1	0.02	5.2	0.1	<0.05	5	<0.5	<0.2
116574	Soil	12	26	0.43	154	0.087	2	1.36	0.014	0.08	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
116575	Soil	14	30	0.45	216	0.088	<1	1.64	0.015	0.06	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
116576	Soil	16	37	1.05	366	0.111	1	2.39	0.019	0.17	<0.1	0.05	9.0	<0.1	<0.05	7	<0.5	<0.2
116577	Soil	14	28	0.56	273	0.096	<1	1.71	0.016	0.09	<0.1	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
116578	Soil	8	22	0.43	187	0.082	<1	1.36	0.012	0.09	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
116579	Soil	11	23	0.45	228	0.072	<1	1.38	0.012	0.06	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
116580	Soil	15	25	0.49	257	0.092	<1	1.50	0.017	0.17	0.1	0.04	4.6	<0.1	<0.05	5	0.5	<0.2
116581	Soil	16	28	0.46	254	0.089	2	1.59	0.018	0.09	0.1	0.04	5.2	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: August 06, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	
116582	Soil		0.5	18.1	5.9	46	<0.1	14.4	5.7	244	2.13	4.5	0.9	1.1	3.6	26	<0.1	0.3	<0.1	45	0.33	0.039
116583	Soil		1.1	13.3	8.3	40	<0.1	14.7	5.1	170	2.12	5.0	0.5	0.6	2.8	20	<0.1	0.4	0.1	43	0.25	0.028
116584	Soil		0.6	15.0	7.4	44	<0.1	12.7	5.7	182	2.10	4.2	0.7	5.9	3.1	23	<0.1	0.3	0.1	42	0.30	0.035
116585	Soil		1.0	14.2	8.1	47	<0.1	15.6	6.9	229	2.28	6.5	0.8	1.2	3.5	25	<0.1	0.4	0.1	48	0.34	0.044
116586	Soil		0.6	16.6	7.3	45	<0.1	15.1	6.5	250	2.10	5.3	1.0	1.6	3.4	26	<0.1	0.3	0.2	41	0.33	0.051
116587	Soil		0.7	13.2	7.6	45	<0.1	12.9	6.6	271	2.11	5.9	0.8	5.6	2.9	22	<0.1	0.4	0.5	37	0.29	0.047
116588	Soil		1.2	11.8	9.2	67	<0.1	11.5	5.9	402	3.19	5.9	0.7	0.8	2.8	14	<0.1	0.3	0.4	45	0.19	0.050
116589	Soil		0.2	121.2	3.8	78	<0.1	13.0	20.6	532	5.34	2.1	0.7	1.6	1.0	25	<0.1	0.1	0.2	166	0.60	0.076
116590	Soil		0.4	108.4	3.7	75	<0.1	12.3	18.3	525	4.99	1.2	0.8	1.0	1.3	20	<0.1	0.1	0.1	154	0.55	0.070
116591	Soil		1.3	17.3	10.7	65	<0.1	20.2	8.5	461	3.12	10.1	0.5	4.0	3.4	18	0.2	0.5	0.3	60	0.20	0.040
116592	Soil		0.8	37.1	8.8	58	0.1	25.4	11.3	533	3.14	9.4	0.6	5.1	3.7	34	<0.1	0.6	0.2	55	0.53	0.072
116593	Soil		1.0	28.8	9.9	71	<0.1	20.5	9.8	300	3.61	7.3	0.5	4.0	2.1	26	<0.1	0.3	0.2	69	0.32	0.032
116594	Soil		1.5	18.4	9.4	53	<0.1	20.9	11.4	285	3.33	10.0	0.5	2.8	3.7	15	<0.1	0.6	0.2	63	0.12	0.025
116595	Soil		0.9	24.7	7.0	68	<0.1	20.1	10.2	299	3.23	8.4	0.9	1.6	4.9	21	<0.1	0.4	0.2	63	0.16	0.019
116596	Soil		1.2	34.8	7.2	118	<0.1	17.1	11.8	492	4.02	8.5	0.9	3.5	5.1	31	0.2	0.4	0.2	74	0.16	0.024
116597	Soil		2.2	111.0	5.0	65	0.2	5.0	6.4	649	7.39	1.4	2.4	5.7	13.9	100	<0.1	0.1	0.2	123	0.07	0.082
116598	Soil		6.0	138.1	6.6	156	0.2	14.3	15.0	853	5.63	3.4	1.6	2.6	6.3	51	<0.1	0.2	0.1	120	0.33	0.046
116599	Soil		1.0	36.4	6.9	51	0.1	15.9	10.1	362	3.22	7.2	0.7	2.9	3.8	20	<0.1	0.4	0.1	71	0.21	0.025
116600	Soil		1.7	36.5	8.0	62	<0.1	21.7	10.8	338	3.83	8.4	1.0	8.3	7.0	23	<0.1	0.5	0.2	67	0.14	0.040
116601	Soil		1.6	28.8	5.3	82	<0.1	9.0	16.5	1042	4.90	4.7	1.2	<0.5	7.4	18	<0.1	0.2	0.1	104	0.16	0.053
116602	Soil		0.9	37.6	7.6	58	<0.1	21.7	11.3	511	3.23	9.6	3.0	1.9	8.7	18	<0.1	0.5	0.1	53	0.20	0.036
116603	Soil		0.6	15.9	6.1	73	<0.1	11.9	10.3	613	3.67	4.9	1.5	0.8	13.1	21	<0.1	0.2	0.1	58	0.22	0.020
116604	Soil		0.9	95.5	5.5	116	<0.1	9.1	11.8	987	4.56	3.2	1.6	4.3	15.1	26	<0.1	0.2	0.4	58	0.34	0.033
116605	Soil		0.9	12.8	6.6	55	<0.1	6.6	6.0	405	2.95	4.3	1.1	2.1	7.4	25	<0.1	0.1	0.2	55	0.24	0.027
116606	Soil		0.6	11.4	5.7	54	<0.1	10.4	7.1	328	3.03	5.4	1.0	2.4	7.1	30	<0.1	0.3	0.2	53	0.23	0.026
116607	Soil		1.0	13.9	8.4	70	<0.1	11.2	6.9	305	3.24	6.8	1.7	1.7	7.6	31	<0.1	0.2	0.3	56	0.22	0.043
116608	Soil		1.4	11.5	6.4	54	<0.1	9.2	7.1	352	3.76	5.7	1.6	1.9	7.5	26	<0.1	0.2	0.2	67	0.13	0.040
116609	Soil		2.7	23.9	6.6	77	<0.1	8.0	6.0	314	3.63	2.8	2.0	4.1	12.1	85	<0.1	0.2	0.2	45	0.11	0.047
116610	Soil		1.1	25.4	9.4	61	0.1	12.4	6.3	210	2.49	5.4	1.5	2.1	5.1	27	<0.1	0.3	0.2	47	0.18	0.026
116611	Soil		0.9	24.0	7.2	55	<0.1	13.6	7.5	191	2.83	5.6	0.9	5.5	3.1	25	<0.1	0.3	0.2	60	0.28	0.045

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
116582	Soil	14	24	0.44	187	0.096	<1	1.21	0.014	0.12	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
116583	Soil	9	25	0.34	154	0.077	1	1.34	0.011	0.08	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
116584	Soil	12	23	0.43	182	0.078	<1	1.39	0.013	0.07	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
116585	Soil	12	25	0.43	230	0.071	1	1.43	0.014	0.06	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
116586	Soil	13	21	0.45	202	0.068	<1	1.23	0.013	0.07	0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
116587	Soil	13	20	0.37	184	0.063	<1	1.14	0.009	0.06	0.2	0.03	2.9	<0.1	0.06	4	<0.5	<0.2
116588	Soil	13	19	0.50	166	0.133	1	1.40	0.007	0.35	0.1	0.02	5.7	0.1	0.06	7	<0.5	<0.2
116589	Soil	6	17	1.71	419	0.197	2	2.47	0.030	0.97	<0.1	0.02	13.1	0.2	<0.05	9	<0.5	<0.2
116590	Soil	7	17	1.48	351	0.173	2	2.15	0.034	0.87	<0.1	0.03	11.2	0.2	0.05	9	<0.5	<0.2
116591	Soil	9	34	0.40	193	0.066	3	1.87	0.008	0.10	0.2	0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
116592	Soil	14	28	0.55	263	0.079	2	1.29	0.021	0.13	0.2	0.04	4.9	<0.1	<0.05	4	<0.5	<0.2
116593	Soil	9	38	0.71	228	0.112	2	1.80	0.009	0.18	0.1	0.01	4.2	<0.1	<0.05	7	<0.5	<0.2
116594	Soil	9	31	0.50	226	0.075	2	2.32	0.009	0.07	0.2	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
116595	Soil	16	27	0.64	256	0.103	<1	2.07	0.010	0.16	0.1	0.02	3.6	0.1	<0.05	5	<0.5	<0.2
116596	Soil	13	26	1.00	232	0.149	<1	2.59	0.019	0.41	0.1	<0.01	2.9	0.3	<0.05	7	<0.5	<0.2
116597	Soil	28	15	1.40	180	0.229	<1	2.61	0.070	1.62	<0.1	<0.01	9.3	0.6	0.70	10	4.6	<0.2
116598	Soil	12	29	1.98	342	0.225	<1	4.02	0.014	1.06	<0.1	0.01	4.2	0.6	<0.05	9	0.8	<0.2
116599	Soil	11	26	0.85	195	0.124	<1	1.93	0.009	0.23	0.2	0.02	2.5	0.1	<0.05	6	<0.5	<0.2
116600	Soil	11	28	0.59	184	0.102	<1	2.36	0.010	0.19	0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
116601	Soil	10	19	1.82	182	0.193	<1	3.19	0.010	1.00	0.2	<0.01	6.5	0.4	<0.05	10	0.9	<0.2
116602	Soil	63	28	0.59	208	0.097	1	1.97	0.012	0.17	0.2	0.03	5.7	0.2	<0.05	5	0.6	<0.2
116603	Soil	38	19	0.97	187	0.159	<1	2.20	0.016	0.48	0.1	<0.01	4.2	0.4	<0.05	8	<0.5	<0.2
116604	Soil	34	13	1.38	189	0.198	<1	3.22	0.009	0.82	0.1	<0.01	4.4	0.5	<0.05	11	<0.5	0.2
116605	Soil	17	14	0.70	94	0.154	<1	1.80	0.009	0.41	0.1	<0.01	3.0	0.3	<0.05	8	<0.5	<0.2
116606	Soil	19	17	0.61	108	0.135	<1	1.94	0.008	0.22	0.1	<0.01	2.4	0.2	<0.05	7	0.9	<0.2
116607	Soil	29	20	0.55	121	0.109	<1	1.88	0.008	0.19	0.2	<0.01	2.7	0.2	<0.05	7	1.6	<0.2
116608	Soil	26	18	0.58	104	0.152	<1	2.01	0.009	0.27	<0.1	0.01	2.6	0.2	<0.05	8	0.5	<0.2
116609	Soil	37	13	0.54	173	0.124	<1	1.67	0.015	0.40	<0.1	<0.01	2.8	0.2	0.08	6	0.8	<0.2
116610	Soil	16	21	0.40	144	0.084	1	1.54	0.010	0.06	<0.1	0.01	2.4	0.1	<0.05	5	0.9	0.3
116611	Soil	12	23	0.46	179	0.077	<1	1.59	0.014	0.04	0.1	0.01	3.5	<0.1	<0.05	6	0.6	0.3

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
116612	Soil	0.9	17.3	6.0	89	<0.1	14.3	10.3	557	3.76	5.2	0.5	2.7	3.5	34	0.2	0.4	0.1	58	0.45	0.054
116613	Soil	0.9	22.9	7.0	86	<0.1	16.1	8.2	281	3.31	6.0	0.6	7.5	2.9	26	0.2	0.4	0.2	53	0.29	0.034
116614	Soil	1.2	20.6	9.2	67	<0.1	17.4	8.8	221	2.91	7.1	0.7	8.0	2.9	22	0.1	0.4	0.2	59	0.22	0.016
116615	Soil	1.0	62.2	5.0	56	<0.1	16.8	19.5	326	3.31	3.9	0.7	3.7	2.0	74	<0.1	0.3	<0.1	75	0.79	0.066
116616	Soil	0.9	28.0	6.6	53	<0.1	16.5	14.1	270	3.29	6.7	0.3	3.8	2.4	41	<0.1	0.3	0.1	74	0.64	0.046
116617	Soil	0.8	51.1	7.3	44	<0.1	22.6	11.4	252	2.84	7.6	0.7	4.2	3.5	37	<0.1	0.4	0.1	63	0.55	0.046
116618	Soil	0.6	39.7	4.1	40	<0.1	15.6	16.2	315	2.89	4.3	0.3	2.2	2.3	37	<0.1	0.2	<0.1	63	0.68	0.084
116619	Soil	0.9	23.8	7.3	40	<0.1	15.3	7.9	201	2.83	7.0	0.4	1.9	2.6	37	<0.1	0.3	0.1	68	0.41	0.027
116620	Soil	0.4	51.3	8.7	84	<0.1	7.2	7.6	495	2.81	2.8	0.8	3.7	9.3	119	0.1	0.1	0.5	50	1.36	0.074
116621	Soil	0.4	13.9	8.4	61	<0.1	15.6	10.5	407	2.72	3.9	0.6	3.0	4.2	93	0.1	0.2	0.2	49	1.09	0.080
122268	Soil	0.4	74.8	3.9	68	<0.1	34.1	19.4	359	4.67	4.2	0.5	1.1	2.0	21	<0.1	0.8	0.1	138	0.36	0.023
122269	Soil	0.6	33.2	8.6	55	0.1	27.6	10.7	466	2.58	10.7	0.4	2.3	3.2	35	0.1	0.6	0.2	54	0.57	0.074
122270	Soil	0.6	39.5	9.7	48	<0.1	22.6	10.9	381	3.15	9.3	0.8	15.7	3.3	31	<0.1	0.5	0.2	71	0.47	0.058
122271	Soil	2.1	43.6	15.5	91	<0.1	22.9	4.7	271	3.55	69.6	1.0	0.8	6.4	12	<0.1	1.6	0.2	55	0.15	0.024
122272	Soil	1.0	23.1	11.2	114	<0.1	13.3	5.6	761	3.71	5.5	0.7	1.0	3.1	12	<0.1	0.4	0.1	54	0.20	0.031
122273	Soil	0.8	31.8	14.0	78	<0.1	15.1	7.6	388	3.70	5.9	0.4	1.1	3.4	13	<0.1	0.6	0.1	64	0.11	0.012
122274	Soil	0.6	27.4	8.6	47	<0.1	21.7	7.6	211	2.64	8.7	1.1	4.2	4.6	17	<0.1	0.4	0.1	54	0.19	0.020
122275	Soil	1.0	9.0	8.2	99	<0.1	7.3	4.0	744	3.84	4.6	0.6	<0.5	3.3	6	<0.1	0.3	<0.1	26	0.04	0.016
122276	Soil	0.9	24.7	12.4	216	<0.1	21.4	12.0	1053	4.76	6.1	1.1	3.0	3.1	32	<0.1	1.0	0.1	71	0.37	0.024
122277	Soil	0.9	22.3	9.9	112	<0.1	17.5	8.3	476	3.49	7.5	1.4	8.3	6.0	19	<0.1	0.5	0.1	55	0.18	0.019
122278	Soil	0.9	34.6	22.0	163	<0.1	17.4	9.0	1271	3.49	4.8	1.4	3.6	3.8	24	<0.1	0.4	0.2	52	0.25	0.030
122279	Soil	1.4	38.8	14.8	113	<0.1	13.4	4.0	444	4.00	5.4	1.0	1.1	3.6	16	<0.1	0.7	0.2	28	0.17	0.018
122280	Soil	1.1	18.0	7.1	111	<0.1	9.2	5.6	1002	3.85	4.1	1.4	<0.5	10.0	16	<0.1	0.4	0.1	21	0.17	0.030
122281	Soil	0.2	19.9	4.5	111	<0.1	7.4	13.8	767	5.90	2.2	1.4	<0.5	1.8	27	<0.1	0.2	<0.1	105	1.14	0.348
122282	Soil	0.2	53.3	2.3	49	<0.1	10.0	23.3	548	4.97	1.4	0.3	<0.5	1.8	13	<0.1	0.4	<0.1	175	0.37	0.032
122283	Soil	0.9	35.5	18.9	80	<0.1	16.2	11.0	457	4.33	5.0	1.2	1.1	5.7	19	<0.1	1.2	0.2	110	0.33	0.012
122284	Soil	0.3	53.6	2.6	58	<0.1	7.6	18.1	474	4.22	2.3	0.2	<0.5	0.4	15	<0.1	<0.1	<0.1	153	0.56	0.102
122285	Soil	0.4	61.4	3.1	53	<0.1	9.1	17.7	398	4.15	1.8	0.3	0.6	0.7	28	<0.1	0.1	<0.1	151	0.72	0.093
122286	Soil	0.4	16.3	11.0	124	<0.1	10.2	9.0	536	5.80	2.8	0.6	0.6	1.8	22	<0.1	0.2	<0.1	42	0.56	0.141
122287	Soil	0.4	30.0	8.0	772	<0.1	7.3	6.9	1191	5.28	3.5	0.6	2.2	3.1	21	0.9	0.2	0.2	45	0.38	0.079

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Page: 11 of 12 Part 2

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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	0.1	0.05	1	0.5	0.2	
116612	Soil	12	22	0.63	183	0.119	<1	2.15	0.012	0.15	0.1	0.01	5.6	<0.1	<0.05	9	<0.5	<0.2
116613	Soil	10	26	0.46	182	0.095	<1	2.06	0.009	0.08	0.1	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
116614	Soil	10	30	0.41	173	0.073	<1	1.77	0.011	0.03	0.1	<0.01	3.4	<0.1	<0.05	6	<0.5	<0.2
116615	Soil	9	24	0.58	118	0.087	<1	2.06	0.033	0.03	<0.1	<0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
116616	Soil	6	27	0.46	150	0.106	<1	2.68	0.026	0.05	0.2	<0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
116617	Soil	13	33	0.47	213	0.088	<1	1.94	0.028	0.04	0.1	0.01	5.6	<0.1	<0.05	6	0.7	<0.2
116618	Soil	6	27	0.52	129	0.101	<1	2.11	0.027	0.04	0.1	<0.01	3.3	<0.1	<0.05	5	0.9	<0.2
116619	Soil	9	29	0.45	151	0.097	<1	2.00	0.015	0.04	0.2	<0.01	3.3	<0.1	<0.05	6	0.7	<0.2
116620	Soil	28	13	0.63	188	0.152	<1	2.63	0.010	0.33	<0.1	<0.01	4.0	0.2	<0.05	8	0.7	<0.2
116621	Soil	13	38	0.82	163	0.139	<1	2.36	0.012	0.14	0.2	<0.01	2.8	<0.1	<0.05	7	0.9	<0.2
122268	Soil	24	56	1.55	244	0.097	1	2.16	0.014	0.36	<0.1	0.20	13.9	0.2	<0.05	8	0.7	<0.2
122269	Soil	12	25	0.60	267	0.065	2	1.20	0.025	0.07	0.1	0.05	3.4	<0.1	<0.05	4	0.5	<0.2
122270	Soil	12	31	0.64	301	0.073	1	1.46	0.017	0.11	0.2	0.10	5.5	<0.1	<0.05	4	<0.5	<0.2
122271	Soil	9	32	0.57	234	0.108	<1	1.85	0.005	0.50	<0.1	0.03	3.7	0.5	<0.05	5	0.8	<0.2
122272	Soil	12	21	0.64	231	0.144	<1	1.56	0.010	0.73	0.1	0.07	13.3	0.3	<0.05	8	0.6	<0.2
122273	Soil	8	25	0.72	155	0.112	1	2.12	0.008	0.41	0.1	0.06	7.2	0.2	<0.05	7	0.6	<0.2
122274	Soil	19	31	0.57	225	0.069	1	1.70	0.009	0.05	<0.1	0.06	4.7	<0.1	<0.05	5	<0.5	<0.2
122275	Soil	8	13	0.71	112	0.121	1	1.99	0.005	0.69	0.1	0.01	7.9	0.2	<0.05	8	0.5	<0.2
122276	Soil	16	37	1.02	360	0.120	2	2.33	0.015	0.33	0.1	0.39	10.3	0.2	<0.05	10	0.9	<0.2
122277	Soil	42	29	0.58	251	0.073	<1	2.04	0.009	0.10	0.1	0.13	8.6	0.1	<0.05	8	0.6	<0.2
122278	Soil	20	26	0.82	253	0.112	<1	1.99	0.009	0.43	<0.1	0.22	10.5	0.2	<0.05	9	0.7	<0.2
122279	Soil	15	19	0.44	146	0.060	<1	1.84	0.006	0.13	0.1	0.05	9.3	<0.1	<0.05	8	0.7	<0.2
122280	Soil	29	13	0.54	162	0.106	<1	1.74	0.007	0.44	<0.1	0.12	11.4	0.2	<0.05	8	0.7	<0.2
122281	Soil	20	14	1.18	180	0.080	<1	1.93	0.023	0.36	<0.1	0.07	14.2	0.2	<0.05	9	<0.5	<0.2
122282	Soil	10	18	1.13	187	0.161	<1	1.99	0.025	0.59	<0.1	0.01	8.6	0.2	<0.05	6	<0.5	<0.2
122283	Soil	14	26	0.54	250	0.058	<1	1.48	0.006	0.20	0.2	0.03	11.6	0.2	<0.05	6	0.8	<0.2
122284	Soil	<1	10	1.33	173	0.159	<1	2.09	0.035	0.68	<0.1	0.01	6.3	0.2	<0.05	7	<0.5	<0.2
122285	Soil	5	10	1.13	174	0.093	<1	1.85	0.030	0.09	<0.1	0.02	7.2	<0.1	<0.05	6	0.6	<0.2
122286	Soil	8	17	1.10	286	0.149	<1	2.56	0.009	0.69	<0.1	0.02	11.8	0.2	<0.05	11	0.7	<0.2
122287	Soil	33	14	1.60	273	0.211	<1	2.81	0.011	1.13	<0.1	0.09	11.1	0.7	<0.05	14	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: Rosebute  
 Report Date: August 06, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	0.1	2	0.01	0.001
122288	Soil	0.3	64.6	2.2	49	<0.1	9.5	15.4	273	4.59	3.7	0.2	0.7	0.8	10	<0.1	0.1	0.2	174	0.47	0.099
122289	Soil	1.0	62.1	16.9	79	0.2	24.0	18.3	608	4.40	17.6	0.8	5.6	3.9	23	<0.1	3.2	0.5	93	0.42	0.021
122290	Soil	1.0	49.1	14.0	74	0.1	23.3	16.1	577	4.10	14.1	0.6	3.1	3.8	23	<0.1	1.8	0.3	90	0.45	0.020
122291	Soil	0.6	31.6	9.3	45	<0.1	28.2	10.5	300	2.76	11.1	0.6	6.4	4.1	23	<0.1	0.5	0.1	63	0.29	0.029
122292	Soil	0.6	56.1	9.5	73	<0.1	23.4	13.0	395	3.42	8.1	0.6	1.5	3.6	22	<0.1	0.5	0.1	75	0.31	0.030
122293	Soil	0.6	74.3	8.0	72	<0.1	22.1	13.5	405	3.50	6.5	0.6	6.5	3.0	20	<0.1	0.4	<0.1	78	0.34	0.048
122294	Soil	0.9	62.6	15.8	77	0.1	36.2	14.5	434	3.48	10.6	0.7	3.6	4.1	24	<0.1	0.6	0.2	81	0.34	0.024
122295	Soil	0.8	34.8	10.9	45	<0.1	25.0	10.1	303	2.69	10.3	0.6	3.9	4.0	28	<0.1	0.5	0.1	61	0.42	0.027
122296	Soil	0.8	51.2	11.0	60	0.1	22.3	13.4	504	3.43	7.6	0.6	3.4	3.2	20	<0.1	0.4	0.1	90	0.36	0.048
122297	Soil	0.6	39.0	9.6	48	<0.1	30.0	10.5	346	2.93	12.0	0.9	5.9	4.6	27	<0.1	0.7	0.2	65	0.35	0.052
122298	Soil	0.3	73.2	4.6	51	0.1	34.4	21.5	484	3.73	4.2	0.4	0.5	1.7	25	<0.1	0.1	<0.1	121	0.44	0.030
122299	Soil	1.9	41.7	33.5	100	0.1	28.4	6.8	372	3.53	140.0	1.0	21.9	4.1	16	<0.1	5.4	0.3	66	0.16	0.040
122300	Soil	0.9	15.2	19.3	84	<0.1	13.6	6.4	447	2.81	12.6	1.3	0.9	7.0	22	<0.1	0.9	0.1	62	0.23	0.053
122301	Soil	0.9	19.1	9.5	61	<0.1	23.2	8.9	293	2.82	7.8	0.5	4.9	3.3	21	<0.1	0.5	0.1	60	0.24	0.020
122302	Soil	0.8	25.1	11.3	92	<0.1	23.4	9.3	507	3.42	10.4	0.9	2.8	5.4	17	<0.1	0.6	0.1	59	0.18	0.024
122303	Soil	0.6	48.3	2.9	93	<0.1	16.9	19.2	795	5.05	2.9	0.5	<0.5	1.9	13	<0.1	0.1	<0.1	134	0.30	0.061
122304	Soil	1.6	41.7	7.6	110	<0.1	19.6	22.1	832	5.37	4.7	0.4	<0.5	1.1	21	<0.1	0.2	0.1	155	0.37	0.057
122305	Soil	0.8	26.0	9.3	58	<0.1	21.5	10.0	322	2.97	8.0	0.6	1.9	4.9	20	<0.1	0.5	0.2	72	0.31	0.047





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Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000693.1

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	
122288	Soil	3	10	1.04	203	0.152	<1	1.72	0.031	0.59	<0.1	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
122289	Soil	15	31	0.76	231	0.069	2	1.84	0.010	0.63	<0.1	1.86	11.8	0.2	<0.05	6	1.1	<0.2
122290	Soil	12	33	0.72	247	0.080	3	1.83	0.011	0.59	<0.1	1.16	9.9	0.2	<0.05	6	0.8	<0.2
122291	Soil	14	36	0.49	230	0.092	<1	1.38	0.014	0.14	0.1	0.05	4.9	<0.1	<0.05	4	<0.5	<0.2
122292	Soil	15	31	0.90	202	0.157	<1	1.88	0.013	0.70	0.1	0.04	5.4	0.2	<0.05	6	<0.5	<0.2
122293	Soil	12	26	0.95	218	0.159	<1	1.92	0.015	0.77	<0.1	0.04	5.6	0.2	<0.05	6	0.6	<0.2
122294	Soil	19	52	0.79	175	0.117	<1	1.78	0.013	0.39	0.1	0.07	7.7	0.2	<0.05	7	0.9	<0.2
122295	Soil	14	34	0.52	286	0.092	2	1.31	0.019	0.10	0.1	0.04	4.8	<0.1	<0.05	4	0.7	<0.2
122296	Soil	10	35	0.84	220	0.133	1	1.96	0.013	0.46	0.1	0.02	6.1	0.1	0.05	6	0.8	<0.2
122297	Soil	18	37	0.56	214	0.090	2	1.46	0.015	0.11	0.2	0.06	5.5	<0.1	<0.05	4	<0.5	<0.2
122298	Soil	8	85	2.48	382	0.172	<1	3.03	0.014	1.13	<0.1	<0.01	5.9	0.3	0.06	8	<0.5	<0.2
122299	Soil	7	29	0.51	277	0.077	<1	1.91	0.006	0.24	<0.1	0.02	3.1	0.3	0.06	7	0.6	0.3
122300	Soil	25	19	0.68	223	0.075	1	1.63	0.008	0.47	0.1	0.04	3.5	0.2	0.08	8	<0.5	<0.2
122301	Soil	9	35	0.69	165	0.088	2	1.75	0.009	0.20	0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
122302	Soil	11	36	0.69	188	0.133	<1	1.96	0.009	0.43	0.1	0.02	9.2	0.2	<0.05	7	0.5	<0.2
122303	Soil	4	13	1.47	294	0.250	<1	2.36	0.015	1.44	<0.1	0.02	6.9	0.3	<0.05	9	<0.5	<0.2
122304	Soil	3	24	1.49	353	0.244	<1	2.42	0.014	1.14	<0.1	0.01	5.6	0.5	<0.05	9	<0.5	<0.2
122305	Soil	13	32	0.62	173	0.105	<1	1.58	0.012	0.19	0.1	0.02	4.9	0.1	<0.05	5	<0.5	<0.2



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Project: Rosebute  
 Report Date: August 06, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000693.1

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																					
103668	Soil	1.0	51.6	9.2	71	<0.1	22.6	13.1	525	3.63	9.4	0.8	0.6	10.7	60	<0.1	0.4	0.1	80	0.48	0.074
REP 103668	QC	1.0	50.8	8.5	70	<0.1	22.2	13.0	501	3.50	8.7	0.7	0.9	10.3	57	<0.1	0.4	0.1	79	0.46	0.068
103678	Soil	1.5	15.1	11.1	111	0.2	16.2	7.6	465	3.20	7.5	0.9	0.7	5.1	27	<0.1	0.5	0.1	53	0.25	0.036
REP 103678	QC	1.5	14.4	10.5	111	0.1	15.7	7.3	444	3.18	8.5	0.9	<0.5	5.1	28	0.2	0.5	0.2	53	0.24	0.035
103699	Soil	1.2	41.1	7.7	50	<0.1	20.3	8.3	374	3.57	7.4	0.7	1.8	3.7	24	<0.1	0.5	0.2	55	0.15	0.028
REP 103699	QC	1.1	42.2	7.8	49	<0.1	20.8	8.7	376	3.70	7.1	0.7	3.8	3.7	24	0.1	0.4	0.2	55	0.16	0.028
103716	Soil	1.4	19.3	9.0	62	<0.1	16.7	10.9	324	3.82	8.6	0.5	5.1	3.5	28	<0.1	0.4	0.2	84	0.19	0.027
REP 103716	QC	1.4	20.4	9.1	65	0.1	17.5	11.2	312	3.78	8.3	0.5	3.3	3.6	29	<0.1	0.4	0.1	87	0.20	0.029
105623	Soil	1.6	12.7	11.2	66	<0.1	15.2	8.2	375	2.85	5.0	0.8	2.7	6.4	23	<0.1	0.3	0.1	60	0.22	0.033
REP 105623	QC	1.5	12.1	10.8	65	<0.1	14.2	8.0	368	2.76	5.0	0.7	4.9	6.4	22	<0.1	0.3	0.1	57	0.20	0.032
105635	Soil	0.6	23.8	8.0	58	0.1	20.4	8.5	326	2.26	6.9	0.8	2.0	2.8	40	0.2	0.5	0.1	48	0.61	0.070
REP 105635	QC	0.6	23.6	7.6	56	0.1	19.7	8.2	318	2.22	6.8	0.8	1.7	2.7	38	0.2	0.5	0.1	45	0.59	0.070
105665	Soil	1.2	34.6	17.5	78	0.1	30.6	10.3	415	3.37	11.7	1.1	3.1	5.4	21	<0.1	0.6	0.3	62	0.27	0.037
REP 105665	QC	1.1	33.9	17.5	77	0.1	30.2	10.0	415	3.34	11.3	1.1	1.7	5.4	21	0.1	0.6	0.4	63	0.29	0.037
105670	Soil	<0.1	14.5	2.3	59	<0.1	7.0	4.1	534	2.48	1.3	0.4	1.0	4.5	9	<0.1	<0.1	<0.1	17	0.15	0.021
REP 105670	QC	<0.1	13.9	2.1	56	<0.1	6.7	4.3	530	2.43	1.2	0.4	0.8	4.5	9	<0.1	<0.1	<0.1	17	0.13	0.022
108860	Soil	0.7	31.0	7.9	64	<0.1	19.5	10.2	423	3.03	6.5	0.9	1.2	6.4	23	<0.1	0.4	<0.1	62	0.28	0.022
REP 108860	QC	0.8	31.3	7.8	61	<0.1	20.1	10.8	409	3.06	6.7	0.9	3.5	6.4	23	<0.1	0.4	0.1	62	0.27	0.022
109640	Soil	1.0	51.2	3.6	77	<0.1	3.9	17.3	589	5.23	2.1	0.4	<0.5	1.6	181	<0.1	0.1	<0.1	44	0.65	0.139
REP 109640	QC	1.1	52.7	3.7	77	<0.1	3.9	16.8	586	5.07	2.2	0.5	<0.5	1.5	178	<0.1	0.1	<0.1	44	0.64	0.137
109652	Soil	0.7	26.6	8.3	58	<0.1	25.6	11.8	292	2.73	12.1	0.8	1.4	4.1	24	<0.1	0.5	0.2	61	0.25	0.042
REP 109652	QC	0.7	25.1	8.2	56	<0.1	23.1	11.0	290	2.69	11.6	0.9	6.9	4.0	24	<0.1	0.5	0.2	60	0.24	0.041
113234	Soil	0.6	41.0	6.7	83	0.1	21.4	10.6	709	3.79	8.1	0.7	8.0	4.5	20	<0.1	0.5	0.1	62	0.27	0.028
REP 113234	QC	0.5	41.3	7.1	82	<0.1	21.4	10.6	647	3.70	8.4	0.8	2.0	4.8	20	<0.1	0.4	0.1	66	0.27	0.029
113245	Soil	0.6	17.7	7.4	82	<0.1	14.5	10.6	533	3.07	4.0	0.4	<0.5	2.8	23	<0.1	0.3	0.2	76	0.31	0.069
REP 113245	QC	0.8	17.7	7.7	85	<0.1	13.9	10.4	557	3.11	4.4	0.4	0.8	2.8	24	<0.1	0.3	0.1	74	0.32	0.065
116571	Soil	1.0	23.4	7.6	59	<0.1	15.1	9.1	360	3.26	5.9	0.7	1.7	4.2	19	<0.1	0.4	0.1	64	0.23	0.021
REP 116571	QC	0.9	21.7	7.5	57	<0.1	14.3	8.8	340	3.09	5.7	0.7	1.4	4.2	19	<0.1	0.4	0.1	65	0.23	0.021



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Page: 1 of 3 Part 2

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																		
103668	Soil	14	32	1.07	152	0.148	<1	2.91	0.018	0.20	0.5	0.02	4.2	0.1	<0.05	8	<0.5	<0.2
REP 103668	QC	14	31	1.03	145	0.142	<1	2.81	0.018	0.19	0.3	0.02	4.2	<0.1	<0.05	8	<0.5	<0.2
103678	Soil	12	29	0.49	181	0.075	<1	2.48	0.011	0.11	0.1	0.02	3.2	0.1	<0.05	8	<0.5	<0.2
REP 103678	QC	12	28	0.50	174	0.084	1	2.58	0.011	0.12	0.1	0.04	3.6	0.1	<0.05	8	<0.5	<0.2
103699	Soil	12	30	0.50	279	0.105	1	2.15	0.014	0.21	<0.1	0.01	5.1	<0.1	0.08	8	1.5	<0.2
REP 103699	QC	12	29	0.50	281	0.108	<1	2.19	0.014	0.22	0.1	0.03	5.1	0.1	0.08	8	1.3	<0.2
103716	Soil	9	32	0.69	198	0.109	<1	2.78	0.014	0.09	0.1	0.02	4.4	0.1	<0.05	9	<0.5	<0.2
REP 103716	QC	10	33	0.71	198	0.111	<1	2.80	0.015	0.09	0.1	<0.01	4.4	0.1	<0.05	9	0.6	<0.2
105623	Soil	12	26	0.65	128	0.125	<1	1.77	0.010	0.14	0.3	<0.01	2.9	0.1	<0.05	6	<0.5	<0.2
REP 105623	QC	11	24	0.65	126	0.123	1	1.70	0.010	0.14	0.2	<0.01	2.7	0.1	<0.05	6	<0.5	<0.2
105635	Soil	12	25	0.51	263	0.068	1	1.31	0.022	0.07	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
REP 105635	QC	11	24	0.50	255	0.060	2	1.26	0.019	0.07	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
105665	Soil	19	41	0.64	227	0.123	<1	1.75	0.011	0.33	0.2	0.02	9.2	0.2	<0.05	6	<0.5	<0.2
REP 105665	QC	20	38	0.63	220	0.125	<1	1.78	0.011	0.32	0.1	0.02	9.1	0.2	<0.05	7	<0.5	<0.2
105670	Soil	21	4	0.52	100	0.087	<1	0.83	0.007	0.37	<0.1	<0.01	9.5	0.1	<0.05	6	<0.5	<0.2
REP 105670	QC	21	4	0.50	98	0.087	<1	0.81	0.006	0.36	<0.1	<0.01	9.1	0.1	<0.05	6	<0.5	<0.2
108860	Soil	24	30	0.80	233	0.101	<1	1.82	0.011	0.17	<0.1	0.07	6.5	0.1	<0.05	6	<0.5	<0.2
REP 108860	QC	24	29	0.77	234	0.102	<1	1.83	0.011	0.17	<0.1	0.07	6.5	0.1	<0.05	6	<0.5	<0.2
109640	Soil	18	6	1.22	244	0.033	<1	2.87	0.034	0.12	<0.1	0.02	7.5	<0.1	<0.05	10	<0.5	<0.2
REP 109640	QC	18	6	1.19	249	0.034	<1	2.79	0.031	0.12	<0.1	0.02	7.5	<0.1	<0.05	10	<0.5	<0.2
109652	Soil	16	31	0.59	247	0.084	2	1.94	0.011	0.06	0.2	0.04	6.0	<0.1	<0.05	6	<0.5	<0.2
REP 109652	QC	16	31	0.55	238	0.079	1	1.84	0.012	0.06	0.2	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2
113234	Soil	25	27	0.74	186	0.148	<1	1.73	0.012	0.59	<0.1	0.04	12.1	0.2	<0.05	7	<0.5	<0.2
REP 113234	QC	25	28	0.72	187	0.146	2	1.74	0.012	0.51	0.1	0.03	11.8	0.1	<0.05	7	<0.5	<0.2
113245	Soil	6	26	0.71	319	0.127	3	1.84	0.010	0.53	<0.1	0.02	3.8	0.2	<0.05	7	<0.5	<0.2
REP 113245	QC	6	27	0.71	309	0.131	2	1.86	0.009	0.53	<0.1	0.03	4.0	0.2	<0.05	7	<0.5	<0.2
116571	Soil	13	31	0.68	233	0.129	<1	1.99	0.012	0.22	<0.1	0.02	4.6	0.1	<0.05	6	<0.5	<0.2
REP 116571	QC	13	30	0.64	228	0.129	<1	1.91	0.011	0.22	0.1	0.02	4.7	0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000693.1

		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
116591	Soil	1.3	17.3	10.7	65	<0.1	20.2	8.5	461	3.12	10.1	0.5	4.0	3.4	18	0.2	0.5	0.3	60	0.20	0.040
REP 116591	QC	1.2	16.8	10.1	68	<0.1	19.2	8.4	482	3.15	10.9	0.4	0.9	3.3	18	<0.1	0.5	0.2	62	0.20	0.039
116606	Soil	0.6	11.4	5.7	54	<0.1	10.4	7.1	328	3.03	5.4	1.0	2.4	7.1	30	<0.1	0.3	0.2	53	0.23	0.026
REP 116606	QC	0.7	11.9	6.1	52	<0.1	10.2	7.6	333	3.12	4.9	1.1	2.5	7.5	31	<0.1	0.2	0.1	52	0.24	0.027
122275	Soil	1.0	9.0	8.2	99	<0.1	7.3	4.0	744	3.84	4.6	0.6	<0.5	3.3	6	<0.1	0.3	<0.1	26	0.04	0.016
REP 122275	QC	0.9	8.5	8.1	98	<0.1	6.7	3.9	707	3.92	4.6	0.5	1.1	3.3	6	<0.1	0.3	<0.1	26	0.04	0.015
122298	Soil	0.3	73.2	4.6	51	0.1	34.4	21.5	484	3.73	4.2	0.4	0.5	1.7	25	<0.1	0.1	<0.1	121	0.44	0.030
REP 122298	QC	0.4	73.9	4.3	50	<0.1	34.4	20.7	468	3.66	4.2	0.4	<0.5	1.8	25	<0.1	0.2	<0.1	117	0.45	0.034
122303	Soil	0.6	48.3	2.9	93	<0.1	16.9	19.2	795	5.05	2.9	0.5	<0.5	1.9	13	<0.1	0.1	<0.1	134	0.30	0.061
REP 122303	QC	0.5	47.0	2.8	89	<0.1	16.2	18.5	772	4.95	3.2	0.4	<0.5	2.0	12	<0.1	0.1	<0.1	133	0.32	0.064
Reference Materials																					
STD DS8	Standard	12.9	103.6	115.8	296	1.8	35.2	7.2	580	2.33	24.8	2.6	132.8	6.2	58	2.4	5.0	6.1	40	0.63	0.075
STD DS8	Standard	12.9	105.6	121.3	307	1.8	37.1	7.2	581	2.35	24.8	2.7	105.1	6.6	59	2.3	5.1	6.2	40	0.67	0.074
STD DS8	Standard	13.1	110.6	116.3	298	1.7	39.8	7.6	583	2.34	26.9	2.6	100.0	6.4	66	2.3	5.8	6.5	43	0.66	0.074
STD DS8	Standard	13.2	111.1	120.1	302	1.8	38.5	7.6	580	2.35	26.3	2.7	106.1	6.4	68	2.0	5.9	6.7	43	0.65	0.077
STD DS8	Standard	12.3	106.9	122.8	311	1.8	36.4	7.4	593	2.41	25.1	2.6	142.5	6.6	62	2.4	5.4	6.7	41	0.64	0.077
STD DS8	Standard	12.6	108.1	123.3	319	1.9	37.3	7.3	602	2.44	26.7	2.6	105.7	6.5	65	2.3	5.5	6.6	42	0.68	0.080
STD DS8	Standard	12.5	108.7	126.2	306	1.7	38.7	7.6	609	2.72	25.7	2.8	112.1	6.8	64	2.0	5.6	5.9	41	0.68	0.077
STD DS8	Standard	13.0	109.0	120.6	307	1.7	37.4	7.6	599	2.62	24.0	2.8	108.8	6.8	66	2.1	5.4	5.8	41	0.66	0.074
STD DS8	Standard	12.6	103.9	121.7	316	1.9	36.1	7.4	626	2.51	26.7	2.6	116.9	6.4	69	2.2	5.4	7.0	41	0.71	0.081
STD DS8	Standard	11.6	105.8	119.3	312	1.8	36.5	7.2	610	2.50	25.8	2.6	110.1	6.1	64	2.4	5.2	6.8	41	0.68	0.077
STD DS8	Standard	13.5	104.8	127.6	312	1.8	37.1	7.1	617	2.53	27.1	2.7	108.3	6.5	68	2.1	5.4	6.2	42	0.70	0.078
STD DS8	Standard	12.9	106.9	131.7	315	1.9	37.2	7.3	631	2.50	27.6	2.7	114.4	6.9	69	2.5	5.4	6.4	44	0.71	0.078
STD DS8	Standard	13.0	104.8	120.8	313	1.9	37.1	7.4	606	2.47	25.7	2.6	102.6	6.3	69	2.2	5.4	5.8	41	0.69	0.081
STD DS8	Standard	11.8	95.0	117.6	286	1.7	33.9	6.8	580	2.22	24.5	2.5	151.7	6.4	64	2.1	5.2	5.7	39	0.65	0.072
STD DS8	Standard	13.5	112.2	123.8	310	1.8	38.4	7.5	605	2.44	25.6	2.8	121.2	6.8	65	2.3	5.6	6.5	41	0.71	0.082
STD DS8	Standard	13.0	113.9	124.5	309	1.8	38.4	7.8	612	2.47	26.6	2.7	112.1	6.8	66	2.5	5.4	6.5	41	0.72	0.081
STD DS8	Standard	12.8	108.2	121.9	289	1.7	35.7	7.3	602	2.35	27.6	2.4	108.9	6.3	62	2.5	5.2	6.2	41	0.68	0.080
STD DS8	Standard	12.8	106.4	122.1	294	1.7	36.9	7.2	600	2.33	25.6	2.4	108.9	6.1	64	2.4	5.2	6.1	41	0.66	0.077



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Project: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000693.1

		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
116591	Soil	9	34	0.40	193	0.066	3	1.87	0.008	0.10	0.2	0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
REP 116591	QC	9	33	0.40	198	0.062	1	1.84	0.009	0.09	0.2	0.01	3.4	<0.1	<0.05	6	<0.5	<0.2
116606	Soil	19	17	0.61	108	0.135	<1	1.94	0.008	0.22	0.1	<0.01	2.4	0.2	<0.05	7	0.9	<0.2
REP 116606	QC	19	18	0.61	111	0.144	<1	2.03	0.010	0.24	<0.1	0.01	2.6	0.2	<0.05	7	<0.5	0.2
122275	Soil	8	13	0.71	112	0.121	1	1.99	0.005	0.69	0.1	0.01	7.9	0.2	<0.05	8	0.5	<0.2
REP 122275	QC	8	13	0.67	112	0.124	1	1.94	0.007	0.65	0.1	0.01	8.0	0.2	<0.05	8	<0.5	<0.2
122298	Soil	8	85	2.48	382	0.172	<1	3.03	0.014	1.13	<0.1	<0.01	5.9	0.3	0.06	8	<0.5	<0.2
REP 122298	QC	8	83	2.40	363	0.167	<1	2.85	0.014	1.04	<0.1	0.01	5.7	0.3	<0.05	7	<0.5	<0.2
122303	Soil	4	13	1.47	294	0.250	<1	2.36	0.015	1.44	<0.1	0.02	6.9	0.3	<0.05	9	<0.5	<0.2
REP 122303	QC	4	12	1.47	280	0.240	<1	2.30	0.016	1.37	<0.1	0.01	7.0	0.3	<0.05	9	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	108	0.60	262	0.108	2	0.88	0.082	0.39	2.7	0.21	1.8	5.1	0.15	4	5.2	4.7
STD DS8	Standard	14	109	0.58	263	0.109	2	0.84	0.081	0.40	2.8	0.19	1.9	5.2	0.15	4	5.2	4.8
STD DS8	Standard	15	117	0.58	261	0.123	3	0.86	0.086	0.41	2.7	0.20	2.2	5.2	0.15	4	4.8	4.8
STD DS8	Standard	14	116	0.59	263	0.123	3	0.86	0.086	0.39	2.8	0.20	2.2	5.1	0.15	4	5.5	4.6
STD DS8	Standard	13	116	0.59	263	0.109	3	0.87	0.080	0.41	3.2	0.22	2.1	5.5	0.12	5	5.8	5.0
STD DS8	Standard	14	115	0.61	269	0.111	2	0.90	0.084	0.43	3.2	0.23	2.1	5.5	0.13	5	4.9	5.1
STD DS8	Standard	14	112	0.55	280	0.112	2	0.90	0.080	0.42	3.1	0.18	2.1	5.3	0.08	5	4.5	5.7
STD DS8	Standard	14	117	0.53	286	0.110	2	0.90	0.079	0.41	3.2	0.21	2.1	5.3	0.06	4	5.4	5.0
STD DS8	Standard	15	117	0.63	288	0.115	2	0.96	0.090	0.43	3.0	0.23	2.2	5.6	0.16	5	5.1	5.6
STD DS8	Standard	14	117	0.60	277	0.112	3	0.87	0.086	0.42	3.0	0.23	2.0	5.2	0.12	4	4.6	5.2
STD DS8	Standard	14	118	0.62	271	0.111	3	0.93	0.091	0.41	3.0	0.20	2.0	5.5	0.12	5	6.0	4.5
STD DS8	Standard	15	121	0.61	288	0.116	3	0.93	0.092	0.45	3.1	0.22	2.0	5.6	0.18	5	5.6	5.0
STD DS8	Standard	15	118	0.62	277	0.110	3	0.94	0.091	0.41	3.0	0.20	1.9	5.4	0.13	5	4.7	4.8
STD DS8	Standard	13	108	0.58	260	0.101	3	0.86	0.089	0.39	2.8	0.19	2.0	5.2	0.09	4	5.2	4.0
STD DS8	Standard	16	115	0.60	287	0.120	3	0.90	0.085	0.41	3.0	0.21	2.2	5.5	0.12	5	5.1	5.4
STD DS8	Standard	15	113	0.61	289	0.118	1	0.91	0.089	0.42	2.9	0.19	2.1	5.2	0.14	5	4.7	5.4
STD DS8	Standard	14	112	0.52	275	0.115	3	0.88	0.093	0.40	2.8	0.21	2.3	5.1	0.07	4	4.6	4.7
STD DS8	Standard	14	113	0.50	271	0.119	2	0.89	0.086	0.41	2.9	0.21	2.1	5.2	0.09	5	4.7	5.4

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**Project:** Rosebute

**Report Date:** August 06, 2011

**Page:** 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11000693.1

		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	12.7	104.9	117.8	301	1.7	37.4	7.3	619	2.40	26.0	2.5	110.9	6.5	63	2.3	5.2	5.9	42	0.69	0.081
STD DS8	Standard	13.1	108.8	121.2	320	1.9	38.0	7.8	610	2.51	26.8	2.7	107.3	6.4	65	2.2	5.6	6.1	42	0.70	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	0.02	<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:** Rosebute

**Report Date:** August 06, 2011

**Page:** 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000693.1

		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	117	0.59	258	0.107	2	0.87	0.093	0.43	2.7	0.20	2.1	5.1	0.16	5	5.8	4.5
STD DS8	Standard	15	118	0.63	277	0.110	3	0.94	0.093	0.43	2.8	0.19	2.2	5.2	0.13	5	5.9	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: Taku Gold Corp
680 3rd Ave, Suite 203
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Submitted By: Lauren Wilson
Receiving Lab: Canada-Whitehorse
Received: July 22, 2011
Report Date: August 06, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI11000691.1

CLIENT JOB INFORMATION

Project: DAN
Shipment ID: 20110709120204
P.O. Number
Number of Samples: 158

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.

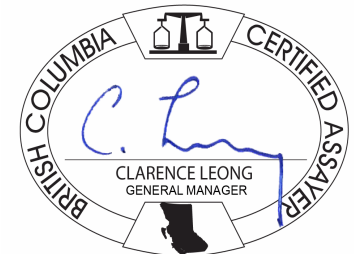
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Mark Fekete

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: DAN  
 Report Date: August 06, 2011

Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	
105571	Soil	0.4	28.1	9.5	79	<0.1	31.6	13.1	431	3.75	2.4	0.8	1.6	9.1	22	<0.1	0.2	0.2	47	0.22	0.041
105572	Soil	0.6	29.4	8.6	79	<0.1	31.1	10.6	372	3.65	2.0	1.1	2.2	10.1	32	<0.1	0.2	0.2	49	0.29	0.067
105573	Soil	0.7	25.2	8.0	58	<0.1	25.7	10.9	311	2.86	4.6	1.2	2.4	8.9	30	<0.1	0.3	0.2	46	0.31	0.053
105574	Soil	0.4	35.2	11.1	93	<0.1	34.9	14.3	480	4.76	3.6	0.9	1.7	11.9	30	<0.1	0.2	0.2	54	0.20	0.033
105575	Soil	0.3	40.0	11.4	99	<0.1	42.2	16.2	588	4.97	1.7	0.9	1.3	12.8	20	<0.1	0.1	0.2	51	0.21	0.047
105576	Soil	0.4	33.8	10.1	85	<0.1	32.3	13.0	428	3.78	0.9	0.9	1.2	11.4	19	<0.1	0.1	0.2	40	0.16	0.041
105577	Soil	0.4	34.5	12.1	86	<0.1	39.3	14.5	488	4.52	2.0	1.6	1.1	16.6	13	<0.1	0.2	0.2	71	0.17	0.026
105578	Soil	0.5	27.5	13.8	84	<0.1	37.6	15.0	480	4.37	1.0	1.7	3.4	16.4	8	<0.1	0.1	0.2	46	0.16	0.040
105579	Soil	1.1	78.8	12.0	103	<0.1	47.8	17.8	702	4.47	1.5	1.8	1.8	18.3	9	<0.1	0.2	0.3	55	0.08	0.015
105580	Soil	0.2	87.1	1.4	10	<0.1	18.9	4.9	53	0.68	1.0	0.1	2.7	0.5	6	<0.1	<0.1	<0.1	16	0.08	0.007
105581	Soil	1.0	25.9	9.1	65	<0.1	30.3	13.0	182	3.32	6.0	0.6	2.8	4.2	13	<0.1	0.4	0.1	49	0.12	0.023
105582	Soil	1.0	62.6	9.4	82	<0.1	52.5	18.3	596	4.00	1.7	1.1	2.4	10.5	11	<0.1	0.1	0.2	71	0.11	0.022
105583	Soil	0.9	39.8	8.0	90	<0.1	38.7	10.7	391	3.10	3.1	1.0	2.8	6.0	19	<0.1	0.1	0.2	53	0.19	0.034
105584	Soil	0.6	30.4	6.9	73	<0.1	24.8	9.5	339	3.13	2.6	1.2	2.1	4.9	20	<0.1	0.2	0.2	56	0.22	0.040
105585	Soil	0.7	19.7	5.2	57	<0.1	16.2	7.5	188	2.48	3.1	0.7	4.4	3.2	17	<0.1	0.2	<0.1	46	0.18	0.030
105586	Soil	0.7	14.1	4.1	64	<0.1	11.6	5.2	197	2.24	2.0	0.9	2.1	2.6	27	<0.1	<0.1	0.2	37	0.16	0.025
105587	Soil	0.8	27.2	7.2	52	<0.1	20.2	7.6	212	2.26	6.6	1.4	5.1	4.1	24	<0.1	0.4	0.1	46	0.32	0.059
105588	Soil	0.8	28.2	5.8	48	<0.1	17.1	6.4	202	2.02	3.4	1.0	3.9	3.5	19	<0.1	0.2	0.1	39	0.25	0.033
105589	Soil	1.1	41.6	5.9	53	<0.1	17.2	5.7	218	2.13	2.7	0.9	3.1	3.8	16	<0.1	0.2	0.1	38	0.19	0.024
105590	Soil	1.1	40.3	5.5	57	<0.1	19.2	5.9	218	2.21	2.9	0.9	11.1	3.8	17	<0.1	0.3	0.1	38	0.21	0.024
105591	Soil	1.0	45.9	5.1	44	<0.1	17.7	5.8	231	2.05	2.3	0.8	7.9	4.0	16	<0.1	0.2	0.1	35	0.19	0.021
105592	Soil	2.2	37.1	8.7	48	0.1	30.6	8.1	313	2.33	6.1	1.2	2.9	3.9	23	<0.1	0.4	0.2	49	0.33	0.042
105593	Soil	1.5	37.9	7.8	42	<0.1	17.1	5.7	268	1.88	3.7	1.3	3.7	4.3	19	<0.1	0.3	0.1	41	0.22	0.030
105594	Soil	1.9	36.5	7.9	50	<0.1	30.8	7.7	343	2.16	4.9	1.4	20.9	3.9	25	<0.1	0.3	0.1	47	0.35	0.047
105595	Soil	0.8	41.1	8.3	78	<0.1	39.3	12.2	305	3.37	5.3	0.6	19.9	4.3	17	<0.1	0.3	0.2	77	0.22	0.025
105596	Soil	0.5	28.3	5.8	82	<0.1	25.0	7.2	284	2.90	2.9	0.7	2.6	4.4	16	<0.1	0.1	0.1	53	0.24	0.025
105597	Soil	0.6	39.1	8.7	77	<0.1	43.3	9.0	426	2.83	2.0	1.0	2.5	6.0	20	<0.1	0.2	0.1	62	0.33	0.041
105598	Soil	0.6	47.0	4.3	81	<0.1	54.5	13.3	496	3.28	1.6	0.6	3.5	4.9	23	0.1	0.1	<0.1	106	0.44	0.048
105599	Soil	0.6	57.2	6.0	83	<0.1	75.7	13.8	428	3.50	2.2	1.1	6.0	4.2	25	0.2	0.2	0.1	94	0.36	0.043
105600	Soil	1.0	31.3	7.0	62	<0.1	27.9	8.3	299	2.52	4.8	1.2	4.7	4.1	22	<0.1	0.3	0.1	60	0.28	0.034

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Project: DAN  
 Report Date: August 06, 2011

Page: 2 of 7 Part 2

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	
105571	Soil	33	40	0.99	228	0.258	1	2.33	0.011	1.12	0.1	<0.01	3.5	0.6	<0.05	8	<0.5	<0.2
105572	Soil	38	44	0.89	207	0.232	1	2.32	0.015	1.09	0.1	<0.01	4.6	0.5	<0.05	8	<0.5	<0.2
105573	Soil	28	36	0.66	224	0.158	1	1.67	0.012	0.46	0.2	0.02	4.1	0.3	<0.05	6	<0.5	<0.2
105574	Soil	33	47	1.11	266	0.297	<1	2.93	0.012	1.28	0.1	<0.01	5.3	0.7	<0.05	10	<0.5	<0.2
105575	Soil	38	50	1.22	269	0.353	2	2.86	0.009	1.73	<0.1	<0.01	4.9	0.9	<0.05	9	<0.5	<0.2
105576	Soil	26	38	0.92	216	0.255	<1	2.26	0.009	1.35	<0.1	<0.01	4.3	0.6	<0.05	8	<0.5	<0.2
105577	Soil	59	70	1.08	429	0.321	1	2.40	0.008	0.97	0.2	<0.01	9.9	0.6	<0.05	11	<0.5	<0.2
105578	Soil	60	45	0.78	223	0.240	<1	1.81	0.007	1.09	<0.1	0.02	5.7	0.5	<0.05	8	<0.5	<0.2
105579	Soil	50	48	1.09	258	0.255	<1	2.18	0.007	1.11	0.1	0.01	6.0	0.6	<0.05	8	0.8	<0.2
105580	Soil	2	18	0.30	120	0.022	<1	0.57	0.006	0.01	<0.1	<0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
105581	Soil	12	36	0.78	165	0.142	2	2.03	0.008	0.43	0.1	<0.01	2.3	0.2	<0.05	6	<0.5	<0.2
105582	Soil	30	79	1.34	506	0.290	<1	2.77	0.008	1.00	<0.1	<0.01	5.0	0.5	<0.05	9	<0.5	<0.2
105583	Soil	17	37	1.20	561	0.157	<1	1.91	0.010	0.79	<0.1	<0.01	4.4	0.4	<0.05	7	<0.5	<0.2
105584	Soil	16	35	1.28	754	0.165	<1	2.14	0.015	0.77	<0.1	<0.01	5.1	0.4	<0.05	8	<0.5	<0.2
105585	Soil	8	24	0.80	447	0.108	<1	1.56	0.010	0.40	<0.1	<0.01	3.2	0.2	<0.05	5	<0.5	<0.2
105586	Soil	9	18	1.35	1530	0.119	1	1.81	0.017	0.67	<0.1	<0.01	6.2	0.2	<0.05	7	<0.5	<0.2
105587	Soil	12	31	0.51	573	0.069	<1	1.20	0.012	0.07	0.1	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
105588	Soil	11	26	0.62	537	0.077	<1	1.19	0.009	0.14	0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
105589	Soil	11	33	0.71	318	0.099	<1	1.34	0.009	0.36	<0.1	<0.01	3.0	0.2	<0.05	4	0.8	<0.2
105590	Soil	12	33	0.72	326	0.101	<1	1.36	0.009	0.35	<0.1	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
105591	Soil	12	26	0.49	230	0.083	1	1.13	0.008	0.25	<0.1	0.01	3.6	0.1	<0.05	4	<0.5	<0.2
105592	Soil	13	43	0.46	320	0.060	1	1.37	0.012	0.05	0.2	0.01	4.0	<0.1	<0.05	4	0.7	<0.2
105593	Soil	12	25	0.39	201	0.063	1	1.08	0.008	0.12	0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
105594	Soil	12	42	0.50	286	0.059	1	1.24	0.013	0.05	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
105595	Soil	15	54	1.15	760	0.130	1	2.34	0.011	0.45	0.1	<0.01	5.3	0.3	<0.05	7	0.5	<0.2
105596	Soil	14	37	1.13	527	0.135	2	2.24	0.016	0.71	<0.1	<0.01	6.0	0.3	<0.05	7	<0.5	<0.2
105597	Soil	19	53	1.05	702	0.083	<1	2.06	0.010	0.40	<0.1	<0.01	6.3	0.4	<0.05	7	0.8	<0.2
105598	Soil	16	100	1.62	1027	0.234	1	2.92	0.038	0.81	0.2	<0.01	8.6	0.3	<0.05	9	0.8	<0.2
105599	Soil	12	101	1.55	1044	0.192	<1	3.24	0.026	0.76	0.1	<0.01	9.2	0.3	<0.05	8	<0.5	<0.2
105600	Soil	14	45	0.75	432	0.092	<1	1.73	0.011	0.21	0.1	<0.01	5.1	0.1	<0.05	5	0.6	<0.2

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 Val D'Or QC J9P 1S5 Canada

Project: DAN  
 Report Date: August 06, 2011

Page: 3 of 7 Part 1

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	
105601	Soil	1.0	28.1	7.8	50	<0.1	29.6	9.0	273	2.26	6.6	1.2	5.0	4.1	23	<0.1	0.4	0.1	48	0.27	0.035
105602	Soil	0.7	27.2	5.7	46	<0.1	39.5	9.1	214	2.14	5.6	1.1	5.8	3.3	24	<0.1	0.3	<0.1	46	0.31	0.040
105603	Soil	0.6	16.2	3.5	69	<0.1	16.0	6.8	339	2.75	2.1	0.7	2.7	3.3	15	<0.1	0.1	<0.1	45	0.25	0.032
105604	Soil	0.7	36.6	5.2	50	<0.1	71.4	10.7	232	2.34	5.8	1.0	3.8	3.2	26	<0.1	0.3	<0.1	50	0.38	0.040
105605	Soil	0.1	45.5	0.8	14	<0.1	51.2	5.8	110	1.09	1.1	0.1	3.9	0.4	13	<0.1	<0.1	<0.1	23	0.50	0.014
105606	Soil	0.4	60.0	1.3	42	<0.1	305.7	22.4	254	2.60	4.6	0.3	2.4	0.9	20	0.1	0.2	<0.1	66	0.36	0.019
105607	Soil	0.9	33.5	6.2	58	<0.1	32.9	7.2	287	2.34	4.0	0.8	2.0	4.2	24	<0.1	0.2	0.2	48	0.18	0.034
105608	Soil	0.3	39.9	3.8	29	<0.1	155.0	12.8	154	1.81	4.2	0.5	13.8	2.1	15	<0.1	0.2	0.1	39	0.21	0.016
105609	Soil	0.5	33.9	5.1	37	<0.1	91.2	14.2	191	2.14	7.3	0.6	0.7	3.1	18	<0.1	0.3	0.1	49	0.23	0.019
105610	Soil	1.3	62.1	7.1	72	0.1	36.2	9.7	269	2.88	4.1	1.1	3.5	5.4	22	0.1	0.2	0.2	56	0.17	0.035
105611	Soil	1.3	49.3	8.1	70	<0.1	31.7	10.8	319	2.80	4.2	1.0	1.6	4.6	20	<0.1	0.3	0.2	53	0.12	0.027
105612	Soil	1.4	77.8	13.0	128	<0.1	47.1	13.4	435	4.02	2.8	1.0	<0.5	4.7	23	<0.1	0.2	0.4	62	0.09	0.026
105613	Soil	0.6	43.1	5.7	42	<0.1	38.1	9.6	206	2.07	4.0	0.8	1.2	3.1	16	<0.1	0.3	0.2	47	0.20	0.022
105614	Soil	0.8	22.1	10.8	55	<0.1	22.0	7.7	230	2.78	6.9	0.9	1.5	4.5	17	<0.1	0.3	0.2	58	0.17	0.029
105615	Soil	0.9	32.8	10.7	74	<0.1	35.0	13.2	407	3.47	6.0	0.9	3.4	7.7	16	0.1	0.3	0.2	70	0.20	0.043
105616	Soil	0.7	44.9	9.3	107	<0.1	51.7	20.7	562	4.78	1.7	1.2	1.3	8.7	10	<0.1	0.1	0.3	62	0.15	0.052
108780	Soil	5.8	65.4	14.6	51	<0.1	17.8	8.0	557	2.85	2.7	3.0	2.4	6.8	24	0.1	0.3	0.4	55	0.10	0.043
108781	Soil	2.3	64.4	12.3	55	<0.1	20.3	8.2	443	3.02	4.9	2.1	3.0	6.1	29	<0.1	0.5	0.3	80	0.15	0.031
108782	Soil	1.0	41.4	10.0	58	<0.1	29.9	12.4	547	3.13	10.5	1.1	3.6	5.1	31	<0.1	0.7	0.2	67	0.29	0.032
108783	Soil	1.0	54.1	11.1	51	<0.1	27.9	13.0	494	2.87	8.0	1.1	6.7	4.8	30	<0.1	0.6	0.2	66	0.23	0.026
108784	Soil	0.9	41.8	9.8	62	<0.1	31.1	12.2	451	3.02	9.9	0.7	5.1	4.6	31	<0.1	0.7	0.2	67	0.29	0.022
108785	Soil	0.5	39.4	22.9	99	<0.1	40.2	20.6	532	4.76	1.0	1.4	<0.5	18.1	17	<0.1	0.2	0.3	46	0.13	0.023
108786	Soil	2.3	48.5	13.9	60	<0.1	23.5	9.1	297	3.15	8.0	1.6	3.4	6.6	31	<0.1	0.7	0.3	68	0.17	0.018
108787	Soil	2.0	59.3	12.8	50	<0.1	17.4	6.7	296	3.29	4.5	2.3	2.2	5.9	24	<0.1	0.5	0.2	76	0.13	0.033
108788	Soil	1.0	40.5	8.5	44	<0.1	19.3	7.8	401	2.23	5.4	0.9	2.3	4.1	24	<0.1	0.5	0.2	48	0.14	0.021
108789	Soil	0.9	64.5	6.3	69	<0.1	14.6	5.2	190	2.65	1.2	0.6	1.3	2.6	14	<0.1	0.2	0.2	47	0.11	0.021
108790	Soil	0.9	68.2	6.9	80	<0.1	15.9	5.5	207	2.85	1.3	0.7	1.3	2.8	15	<0.1	0.3	0.2	51	0.11	0.024
108791	Soil	0.7	66.2	12.1	92	<0.1	48.7	21.2	496	3.86	0.9	1.4	9.3	5.2	9	<0.1	0.3	0.5	47	0.06	0.017
108792	Soil	1.5	98.3	13.9	109	<0.1	17.3	6.4	647	3.73	0.7	1.4	1.2	7.3	32	<0.1	0.3	0.3	73	0.10	0.062
108793	Soil	0.8	45.7	10.0	71	<0.1	33.0	12.5	372	3.24	9.2	1.8	4.5	5.4	19	<0.1	0.6	0.2	58	0.14	0.022

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Project: DAN  
 Report Date: August 06, 2011

Page: 3 of 7 Part 2

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	
105601	Soil	14	42	0.54	286	0.066	1	1.49	0.011	0.05	0.2	0.01	4.4	<0.1	<0.05	4	0.6	<0.2
105602	Soil	12	53	0.73	239	0.071	1	1.53	0.013	0.06	0.1	0.01	3.7	<0.1	<0.05	5	0.8	<0.2
105603	Soil	12	24	1.32	408	0.183	<1	2.17	0.011	0.83	0.1	<0.01	5.5	0.2	<0.05	8	0.6	<0.2
105604	Soil	12	82	1.00	276	0.068	<1	1.71	0.016	0.08	<0.1	0.02	4.3	<0.1	<0.05	5	1.1	<0.2
105605	Soil	1	39	0.94	105	0.007	<1	1.22	0.013	0.07	<0.1	<0.01	4.6	<0.1	<0.05	2	<0.5	<0.2
105606	Soil	5	177	2.83	319	0.097	<1	2.31	0.015	0.36	<0.1	0.01	6.6	0.2	<0.05	5	<0.5	<0.2
105607	Soil	14	42	0.80	406	0.132	<1	1.45	0.018	0.40	<0.1	0.02	3.2	0.2	0.10	5	0.8	<0.2
105608	Soil	8	102	1.28	211	0.071	<1	1.48	0.010	0.03	<0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
105609	Soil	11	78	0.93	221	0.096	<1	1.49	0.013	0.05	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
105610	Soil	18	46	0.74	348	0.176	<1	1.69	0.012	0.49	<0.1	0.01	3.4	0.3	0.06	6	<0.5	<0.2
105611	Soil	16	38	0.75	306	0.170	<1	1.74	0.010	0.49	<0.1	0.02	3.2	0.3	0.05	5	<0.5	<0.2
105612	Soil	29	50	1.25	350	0.209	<1	2.30	0.013	1.23	<0.1	0.02	4.3	0.6	0.13	9	<0.5	<0.2
105613	Soil	14	51	0.67	187	0.062	2	1.38	0.011	0.05	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
105614	Soil	23	31	0.54	201	0.097	<1	1.87	0.007	0.16	0.1	0.03	2.9	0.2	<0.05	7	<0.5	<0.2
105615	Soil	17	44	0.79	300	0.146	1	2.37	0.008	0.38	0.2	0.02	4.1	0.3	<0.05	8	<0.5	<0.2
105616	Soil	36	53	1.26	299	0.287	1	2.80	0.008	1.38	0.1	0.01	4.6	0.8	<0.05	10	<0.5	<0.2
108780	Soil	22	26	0.62	227	0.104	<1	1.33	0.005	0.37	<0.1	0.03	4.0	0.3	0.13	5	1.1	0.2
108781	Soil	30	31	0.68	243	0.168	<1	1.69	0.008	0.37	0.1	0.03	5.9	0.2	<0.05	6	<0.5	<0.2
108782	Soil	19	40	0.62	319	0.110	<1	2.05	0.014	0.10	0.1	0.06	6.3	<0.1	<0.05	6	<0.5	<0.2
108783	Soil	18	33	0.51	335	0.116	<1	1.97	0.014	0.09	0.1	0.05	5.8	0.1	<0.05	6	<0.5	<0.2
108784	Soil	17	38	0.58	383	0.103	<1	1.78	0.014	0.06	0.1	0.06	6.2	<0.1	<0.05	5	<0.5	<0.2
108785	Soil	63	42	1.23	300	0.347	<1	2.86	0.010	1.41	<0.1	0.02	5.3	0.9	<0.05	9	<0.5	<0.2
108786	Soil	24	33	0.46	258	0.110	<1	1.99	0.010	0.09	0.1	0.06	6.1	0.2	<0.05	6	<0.5	<0.2
108787	Soil	24	38	0.82	252	0.180	<1	2.08	0.007	0.24	0.1	0.04	5.9	0.2	<0.05	6	<0.5	<0.2
108788	Soil	16	26	0.42	203	0.090	<1	1.29	0.007	0.11	0.1	0.03	4.1	0.1	<0.05	4	<0.5	<0.2
108789	Soil	9	35	0.97	402	0.188	<1	1.76	0.012	0.63	<0.1	<0.01	3.7	0.4	0.06	6	<0.5	<0.2
108790	Soil	9	37	1.04	408	0.200	<1	1.91	0.012	0.67	<0.1	0.01	3.9	0.4	0.07	7	<0.5	<0.2
108791	Soil	13	38	1.09	163	0.269	<1	2.38	0.008	0.92	<0.1	0.04	6.7	0.6	<0.05	8	<0.5	<0.2
108792	Soil	28	37	1.41	259	0.253	<1	2.55	0.014	1.31	<0.1	0.02	3.6	0.6	0.23	8	<0.5	<0.2
108793	Soil	20	37	0.75	210	0.144	<1	2.05	0.012	0.17	0.1	0.04	6.7	0.2	<0.05	6	<0.5	<0.2

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Project: DAN  
 Report Date: August 06, 2011

Page: 4 of 7 Part 1

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	
108794	Soil		1.6	46.9	12.1	59	<0.1	24.3	8.9	511	2.61	3.1	1.0	1.8	3.1	27	0.2	0.3	0.2	54	0.15	0.046
108795	Soil		2.1	41.3	13.6	66	<0.1	25.6	8.9	239	3.01	5.7	2.8	6.8	5.8	22	0.2	0.3	0.3	57	0.19	0.040
108796	Soil		2.6	35.7	11.7	82	0.2	25.6	11.7	250	2.87	4.0	1.7	5.6	6.3	19	0.2	0.3	0.3	48	0.17	0.050
108797	Soil		2.8	35.5	11.3	61	<0.1	20.5	8.3	245	2.97	7.1	2.1	2.8	5.1	22	0.1	0.4	0.3	59	0.17	0.040
108798	Soil		4.1	53.1	12.2	83	0.2	26.4	12.6	352	3.63	4.7	2.4	2.9	7.6	22	<0.1	0.4	0.3	60	0.14	0.043
108799	Soil		1.8	57.2	12.6	90	<0.1	38.2	18.0	605	3.06	3.5	1.3	1.5	6.8	21	0.1	0.3	0.4	51	0.11	0.032
108800	Soil		1.0	48.9	9.4	108	<0.1	39.8	20.1	322	4.07	1.5	1.7	7.5	10.5	16	<0.1	0.1	0.3	48	0.13	0.027
108801	Soil		1.7	42.1	10.4	98	<0.1	30.3	16.3	265	4.13	4.3	0.8	0.7	4.3	15	<0.1	0.2	0.5	57	0.10	0.046
108802	Soil		1.2	43.3	9.9	60	<0.1	32.1	11.2	381	2.91	9.4	2.0	3.9	5.2	21	<0.1	0.6	0.2	63	0.18	0.031
108803	Soil		1.1	26.6	10.0	63	<0.1	30.7	13.3	373	2.94	9.7	0.6	3.5	4.5	18	0.1	0.6	0.2	62	0.16	0.026
108804	Soil		1.3	51.9	10.3	73	<0.1	35.3	13.7	419	3.01	10.6	1.8	3.6	5.6	23	0.1	0.7	0.2	71	0.19	0.023
108805	Soil		1.5	36.0	11.5	65	<0.1	32.2	10.7	262	2.94	9.5	1.0	4.3	4.5	24	0.1	0.5	0.3	72	0.22	0.031
108806	Soil		3.0	62.3	11.3	113	<0.1	41.4	16.8	311	3.90	2.4	1.6	3.0	8.2	21	0.1	0.3	0.3	55	0.13	0.030
108807	Soil		12.2	88.0	26.9	71	0.2	15.7	5.7	597	3.26	2.3	11.2	2.3	11.1	96	0.2	0.3	0.7	144	0.30	0.205
108808	Soil		3.1	35.2	12.0	57	<0.1	20.3	9.6	269	2.94	8.0	2.1	12.8	5.1	20	<0.1	0.4	0.3	77	0.14	0.036
108809	Soil		3.1	59.5	11.5	91	<0.1	20.8	9.1	311	3.25	3.2	2.8	2.6	5.9	40	<0.1	0.2	0.2	71	0.17	0.066
111469	Soil		1.9	41.0	7.7	41	0.1	19.5	8.6	411	2.13	5.4	0.8	2.3	2.4	17	0.2	0.6	0.1	47	0.15	0.021
111470	Soil		3.4	34.2	16.9	43	0.2	17.3	8.2	405	2.55	5.4	2.7	2.7	3.3	32	0.1	0.4	0.4	81	0.13	0.053
111471	Soil		1.2	40.9	9.4	57	<0.1	28.2	12.1	387	2.70	8.2	1.8	3.0	4.7	28	<0.1	0.5	0.2	62	0.30	0.066
111472	Soil		1.4	41.8	10.9	64	<0.1	32.3	13.4	294	3.25	9.5	1.1	7.2	5.2	21	<0.1	0.6	0.2	79	0.18	0.020
111473	Soil		1.8	36.7	11.2	49	<0.1	29.4	9.5	324	2.46	8.1	1.2	2.4	3.4	16	0.2	0.4	0.3	63	0.14	0.035
111474	Soil		1.8	53.5	12.7	83	<0.1	56.0	14.9	754	3.65	12.0	0.9	5.8	5.0	47	0.1	0.8	0.3	83	0.40	0.078
111475	Soil		1.1	32.2	11.8	48	0.2	26.1	10.1	283	2.87	9.4	1.3	3.5	4.2	21	<0.1	0.5	0.2	75	0.20	0.048
111476	Soil		1.4	53.1	13.7	67	<0.1	30.9	12.9	553	3.79	8.3	3.0	5.5	5.3	27	<0.1	0.5	0.2	66	0.24	0.044
111477	Soil		2.1	54.5	12.2	76	<0.1	35.1	12.9	532	3.66	9.0	1.2	4.1	4.7	40	<0.1	0.6	0.2	80	0.41	0.053
111478	Soil		1.9	41.4	11.3	62	<0.1	28.4	13.3	424	3.30	9.4	1.3	2.9	5.0	24	0.1	0.5	0.2	78	0.22	0.029
111479	Soil		1.5	40.3	11.6	63	<0.1	28.8	11.9	414	3.18	10.3	1.3	2.9	5.0	29	<0.1	0.6	0.2	74	0.27	0.040
111480	Soil		1.7	66.5	5.9	52	<0.1	15.5	6.5	378	2.64	2.8	1.0	0.9	2.8	14	<0.1	0.2	0.2	41	0.08	0.022
111481	Soil		1.7	50.2	9.5	57	<0.1	27.9	11.2	436	2.99	5.9	1.4	3.6	4.2	22	<0.1	0.5	0.2	66	0.14	0.025
111482	Soil		1.6	95.8	11.3	99	<0.1	41.9	18.5	800	3.82	1.3	1.6	2.0	8.1	31	<0.1	0.3	0.2	102	0.21	0.075

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Page: 4 of 7 Part 2

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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	
108794	Soil	17	30	0.80	150	0.140	<1	1.84	0.007	0.49	<0.1	0.02	2.5	0.3	<0.05	7	<0.5	<0.2
108795	Soil	27	33	0.56	174	0.104	<1	1.84	0.010	0.21	0.1	0.05	4.3	0.2	<0.05	7	<0.5	<0.2
108796	Soil	21	30	0.68	117	0.130	<1	1.83	0.010	0.31	0.1	0.04	3.1	0.3	<0.05	6	<0.5	<0.2
108797	Soil	16	32	0.57	137	0.091	<1	1.78	0.010	0.12	0.1	0.03	3.3	0.2	<0.05	6	<0.5	<0.2
108798	Soil	23	37	0.83	173	0.137	<1	2.25	0.010	0.39	0.1	0.03	4.0	0.3	<0.05	7	<0.5	<0.2
108799	Soil	20	34	0.87	195	0.169	<1	2.19	0.009	0.53	0.1	0.02	3.8	0.4	<0.05	7	<0.5	<0.2
108800	Soil	23	39	1.11	210	0.288	<1	2.60	0.011	1.11	<0.1	0.02	4.2	0.7	<0.05	9	<0.5	<0.2
108801	Soil	13	38	0.92	143	0.210	<1	2.40	0.013	0.72	0.1	0.01	3.1	0.5	<0.05	8	<0.5	<0.2
108802	Soil	19	38	0.55	263	0.074	<1	2.12	0.011	0.06	0.1	0.05	5.1	<0.1	<0.05	6	<0.5	<0.2
108803	Soil	13	36	0.53	219	0.074	<1	2.11	0.010	0.05	0.2	0.04	3.4	0.1	<0.05	5	<0.5	<0.2
108804	Soil	22	47	0.54	327	0.109	2	2.03	0.010	0.05	0.1	0.05	6.6	<0.1	<0.05	5	0.5	<0.2
108805	Soil	15	45	0.50	217	0.092	1	1.96	0.010	0.06	0.1	0.03	3.6	<0.1	<0.05	6	0.5	<0.2
108806	Soil	27	44	1.06	221	0.180	1	2.17	0.012	0.66	<0.1	0.01	3.5	0.5	0.06	7	0.5	<0.2
108807	Soil	41	39	1.11	227	0.155	2	1.67	0.009	0.69	0.1	<0.01	3.7	0.6	0.29	5	1.9	0.2
108808	Soil	16	37	0.59	171	0.111	2	2.03	0.009	0.10	0.1	0.02	2.8	0.1	<0.05	5	0.6	<0.2
108809	Soil	22	42	0.99	231	0.156	1	2.11	0.012	0.51	<0.1	<0.01	4.1	0.4	<0.05	6	0.8	<0.2
111469	Soil	15	25	0.40	179	0.077	1	1.05	0.009	0.04	<0.1	0.02	2.5	0.1	<0.05	3	<0.5	<0.2
111470	Soil	17	30	0.39	180	0.085	2	1.26	0.008	0.11	<0.1	0.02	3.3	0.1	0.07	5	1.1	<0.2
111471	Soil	18	35	0.57	272	0.087	2	1.66	0.014	0.05	0.1	0.03	4.7	<0.1	<0.05	5	0.7	<0.2
111472	Soil	16	47	0.59	246	0.100	1	2.42	0.011	0.05	<0.1	0.03	6.7	0.1	<0.05	6	<0.5	<0.2
111473	Soil	14	36	0.41	174	0.072	2	1.83	0.008	0.05	<0.1	0.03	3.5	0.1	<0.05	5	<0.5	<0.2
111474	Soil	37	56	0.75	385	0.099	2	2.30	0.018	0.06	0.1	0.07	6.5	0.1	<0.05	6	<0.5	<0.2
111475	Soil	18	40	0.49	271	0.082	<1	2.13	0.012	0.05	0.1	0.04	5.5	0.1	<0.05	6	<0.5	<0.2
111476	Soil	22	38	0.90	306	0.155	2	2.48	0.013	0.27	0.1	0.05	6.6	0.2	<0.05	6	0.6	<0.2
111477	Soil	17	49	0.87	310	0.154	2	2.21	0.021	0.17	0.1	0.04	6.2	0.1	<0.05	6	0.6	<0.2
111478	Soil	16	46	0.66	241	0.112	2	2.27	0.013	0.07	0.1	0.05	5.6	0.1	<0.05	6	<0.5	<0.2
111479	Soil	18	43	0.66	291	0.106	2	2.03	0.013	0.07	0.1	0.03	5.9	0.1	<0.05	5	0.7	<0.2
111480	Soil	11	29	0.91	214	0.178	<1	1.71	0.007	0.50	<0.1	<0.01	4.1	0.3	<0.05	5	<0.5	<0.2
111481	Soil	17	36	0.67	198	0.116	1	1.91	0.009	0.16	0.1	0.04	6.1	0.1	<0.05	5	<0.5	<0.2
111482	Soil	38	47	1.35	192	0.284	<1	2.54	0.006	1.10	<0.1	<0.01	4.6	0.5	<0.05	8	<0.5	<0.2

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Project: DAN  
 Report Date: August 06, 2011

Page: 5 of 7 Part 1

CERTIFICATE OF ANALYSIS

WHI11000691.1

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
111483	Soil	2.0	39.5	10.4	61	<0.1	34.0	11.8	392	3.22	10.6	0.9	2.4	4.2	24	0.1	0.6	0.2	70	0.19	0.047
111484	Soil	1.9	52.9	13.2	68	<0.1	33.8	14.8	448	3.42	7.7	1.3	2.4	5.0	19	<0.1	0.6	0.2	80	0.12	0.030
111485	Soil	1.7	52.9	11.2	61	<0.1	26.9	11.6	354	2.82	5.0	1.6	7.6	5.0	21	<0.1	0.5	0.2	63	0.15	0.026
111486	Soil	1.6	39.8	14.1	59	<0.1	26.2	10.6	309	2.95	7.1	1.4	3.3	5.0	29	<0.1	0.6	0.2	67	0.29	0.024
111487	Soil	1.9	30.5	11.7	56	<0.1	25.5	10.8	438	2.82	7.9	1.2	2.2	4.4	29	<0.1	0.5	0.2	67	0.30	0.032
111488	Soil	1.4	47.7	10.9	53	<0.1	27.4	10.1	314	2.89	8.7	2.4	3.9	6.1	29	0.1	0.6	0.2	63	0.26	0.034
111489	Soil	2.3	56.1	10.0	56	<0.1	25.6	9.4	369	2.76	3.7	2.3	1.7	6.5	29	<0.1	0.5	0.2	64	0.20	0.048
111490	Soil	1.9	57.5	13.1	67	<0.1	22.3	7.5	385	2.98	1.9	2.2	1.7	8.9	34	0.1	0.4	0.2	59	0.19	0.052
111491	Soil	1.5	60.8	12.5	59	<0.1	33.8	10.4	329	3.23	8.0	3.0	4.7	7.7	26	<0.1	0.7	0.2	73	0.16	0.024
111492	Soil	1.1	49.9	13.2	69	<0.1	45.4	14.1	440	3.64	6.6	2.2	2.6	11.1	27	<0.1	0.5	0.2	67	0.27	0.019
111493	Soil	1.2	69.0	17.5	116	<0.1	32.5	16.4	347	3.89	1.0	1.9	5.5	9.6	27	<0.1	0.1	0.2	46	0.21	0.030
111494	Soil	2.2	55.6	12.8	62	<0.1	30.7	8.7	359	3.15	7.6	1.6	3.0	8.6	41	<0.1	0.5	0.2	80	0.20	0.049
111495	Soil	2.0	90.5	12.5	96	0.2	39.9	12.6	434	3.70	4.7	2.5	3.0	5.8	34	<0.1	0.4	0.3	65	0.23	0.034
111496	Soil	1.2	70.5	9.8	97	<0.1	46.9	13.0	283	3.75	1.7	1.5	0.8	5.6	16	<0.1	0.1	0.2	69	0.09	0.038
111497	Soil	2.0	33.9	12.0	59	0.2	19.3	7.3	279	3.17	6.6	0.7	0.6	4.3	25	<0.1	0.4	0.3	68	0.13	0.050
111498	Soil	1.0	70.5	10.5	65	<0.1	38.4	11.9	622	3.71	5.9	1.1	3.1	5.8	38	<0.1	0.4	0.2	62	0.43	0.118
111499	Soil	1.0	43.5	10.4	66	<0.1	34.8	11.1	309	3.28	6.8	0.8	4.0	5.3	16	<0.1	0.4	0.2	56	0.19	0.014
111500	Soil	1.9	78.5	17.6	90	<0.1	52.3	18.2	828	4.11	1.4	0.9	12.5	6.9	12	<0.1	0.2	0.3	58	0.11	0.022
111501	Soil	0.8	53.4	6.6	90	<0.1	68.8	11.8	353	3.07	2.9	0.7	0.9	2.6	11	<0.1	0.1	<0.1	54	0.15	0.040
111502	Soil	0.7	46.8	6.3	74	0.1	99.4	13.0	299	3.22	3.1	0.8	2.5	2.9	19	<0.1	0.1	<0.1	59	0.17	0.018
111503	Soil	2.1	94.8	8.9	89	0.1	44.6	12.0	382	4.33	2.8	1.5	2.6	3.7	10	0.2	0.3	0.2	61	0.05	0.043
111504	Soil	1.1	55.4	8.9	80	0.2	41.6	8.0	247	2.30	3.5	1.5	3.6	4.3	12	<0.1	0.2	0.2	38	0.09	0.016
116530	Soil	1.1	26.2	9.9	121	0.2	42.5	19.1	1189	3.48	2.6	0.4	1.7	3.0	11	0.1	0.3	0.3	45	0.13	0.066
116531	Soil	2.1	18.6	11.1	50	0.2	16.4	11.0	1022	3.11	6.9	0.5	2.1	2.6	14	0.2	0.4	0.2	68	0.16	0.041
116532	Soil	2.6	33.1	10.8	46	<0.1	21.3	7.6	293	2.47	7.7	1.3	1.3	4.1	18	0.1	0.4	0.2	54	0.19	0.021
116533	Soil	2.4	21.3	10.6	44	0.5	17.1	9.7	622	2.55	6.1	0.6	<0.5	2.3	14	0.2	0.4	0.2	61	0.14	0.058
116534	Soil	1.4	30.0	10.7	68	<0.1	34.0	15.3	916	3.32	9.1	0.5	2.7	2.6	21	0.1	0.4	0.1	66	0.28	0.037
116535	Soil	1.4	32.4	10.9	125	<0.1	39.8	13.2	829	3.44	10.1	0.5	2.5	2.6	12	0.5	0.5	0.2	66	0.13	0.045
116536	Soil	1.2	21.6	10.2	58	0.2	24.4	9.6	401	2.99	9.8	0.5	<0.5	3.2	18	0.1	0.5	0.2	60	0.20	0.027
116537	Soil	2.7	15.2	14.2	72	0.7	16.3	9.2	1136	2.62	4.7	0.5	4.8	2.1	32	0.5	0.7	0.2	54	0.35	0.107

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Project: DAN  
 Report Date: August 06, 2011

Page: 5 of 7 Part 2

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	
111483	Soil	12	41	0.60	184	0.105	3	2.13	0.011	0.13	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
111484	Soil	15	44	0.68	204	0.125	1	2.34	0.010	0.13	0.1	0.03	3.6	0.2	<0.05	6	0.6	<0.2
111485	Soil	18	36	0.62	194	0.143	<1	1.84	0.008	0.14	<0.1	0.02	4.1	0.1	<0.05	5	<0.5	<0.2
111486	Soil	17	42	0.63	288	0.124	2	1.98	0.015	0.06	0.1	0.04	5.3	<0.1	<0.05	5	<0.5	<0.2
111487	Soil	16	43	0.54	293	0.098	1	1.87	0.014	0.05	0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
111488	Soil	19	40	0.60	203	0.098	<1	1.74	0.012	0.09	0.1	0.03	4.5	0.1	<0.05	5	<0.5	<0.2
111489	Soil	25	33	0.74	167	0.135	1	1.69	0.006	0.33	0.1	0.02	4.6	0.2	<0.05	5	0.6	<0.2
111490	Soil	31	33	0.81	153	0.168	<1	1.81	0.006	0.56	<0.1	<0.01	4.5	0.4	<0.05	5	0.6	<0.2
111491	Soil	26	48	0.71	202	0.125	<1	2.18	0.010	0.14	0.1	0.05	5.7	0.1	<0.05	6	<0.5	<0.2
111492	Soil	36	71	0.93	284	0.194	<1	2.46	0.014	0.37	<0.1	0.04	6.5	0.3	<0.05	7	<0.5	<0.2
111493	Soil	26	36	1.20	166	0.236	<1	2.54	0.009	0.90	<0.1	0.01	5.0	0.7	<0.05	7	0.7	<0.2
111494	Soil	19	43	0.81	192	0.119	<1	2.22	0.010	0.22	0.1	<0.01	3.6	0.2	0.07	6	<0.5	<0.2
111495	Soil	26	44	0.98	469	0.157	<1	2.05	0.014	0.51	<0.1	0.02	6.0	0.3	0.17	6	1.3	<0.2
111496	Soil	15	47	1.26	387	0.228	<1	2.68	0.007	0.83	<0.1	0.02	4.9	0.4	<0.05	7	0.6	<0.2
111497	Soil	14	36	0.61	302	0.111	<1	1.89	0.012	0.22	0.1	0.02	2.4	0.1	0.10	6	0.6	<0.2
111498	Soil	22	60	0.88	336	0.133	1	1.89	0.011	0.42	0.1	0.05	4.8	0.2	<0.05	6	1.3	<0.2
111499	Soil	20	36	0.91	416	0.104	<1	2.14	0.009	0.14	0.1	0.02	4.0	0.2	<0.05	6	0.8	<0.2
111500	Soil	23	43	1.10	603	0.185	1	1.99	0.006	0.79	0.1	<0.01	6.1	0.5	<0.05	7	1.0	<0.2
111501	Soil	11	60	1.48	2829	0.153	2	2.28	0.024	0.64	0.1	<0.01	6.0	0.2	<0.05	8	<0.5	<0.2
111502	Soil	11	153	1.64	2415	0.157	<1	2.25	0.011	0.40	<0.1	0.01	5.9	0.2	<0.05	7	<0.5	<0.2
111503	Soil	9	43	0.41	375	0.072	<1	1.32	0.004	0.33	<0.1	0.02	4.8	0.4	<0.05	4	2.0	<0.2
111504	Soil	14	28	0.37	260	0.058	<1	1.16	0.006	0.21	<0.1	0.03	4.6	0.3	<0.05	4	0.6	<0.2
116530	Soil	9	31	0.71	167	0.136	<1	2.01	0.009	0.38	<0.1	<0.01	2.4	0.3	<0.05	8	<0.5	<0.2
116531	Soil	9	27	0.39	178	0.049	<1	1.67	0.008	0.06	<0.1	0.01	2.2	0.1	<0.05	6	0.5	<0.2
116532	Soil	13	33	0.52	214	0.057	<1	1.58	0.011	0.05	0.1	0.02	4.3	<0.1	<0.05	5	0.8	<0.2
116533	Soil	9	26	0.39	151	0.036	<1	1.56	0.008	0.04	0.1	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2
116534	Soil	8	39	0.62	318	0.058	1	2.23	0.013	0.07	0.1	0.01	3.3	<0.1	<0.05	6	0.8	<0.2
116535	Soil	7	35	0.51	150	0.062	<1	2.40	0.008	0.05	0.2	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
116536	Soil	8	33	0.53	245	0.057	1	1.87	0.009	0.08	0.2	0.02	2.8	0.1	<0.05	5	0.8	<0.2
116537	Soil	8	22	0.30	282	0.038	<1	1.49	0.011	0.07	0.2	0.03	2.1	0.1	<0.05	6	0.9	<0.2

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Project: DAN  
 Report Date: August 06, 2011

Page: 6 of 7 Part 1

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WHI11000691.1

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	
116538	Soil		2.1	29.8	10.4	60	0.3	18.3	8.3	255	3.79	11.4	0.8	<0.5	3.2	12	0.4	0.6	0.2	73	0.13	0.060
116539	Soil		1.5	19.9	10.0	53	<0.1	22.3	13.3	1536	3.35	7.4	0.4	<0.5	1.8	12	0.2	0.5	0.2	70	0.14	0.033
116540	Soil		1.7	37.4	11.4	55	0.2	35.2	13.1	331	3.36	8.8	0.7	0.7	4.1	10	0.1	0.5	0.2	52	0.08	0.032
116541	Soil		1.7	14.1	11.1	55	0.3	17.0	7.8	246	3.47	10.2	0.4	<0.5	2.3	11	0.2	0.5	0.2	75	0.13	0.048
116542	Soil		1.4	16.6	10.4	49	0.2	19.1	9.0	226	3.01	7.6	0.5	1.4	2.4	13	<0.1	0.4	0.2	70	0.13	0.026
116543	Soil		1.7	37.8	9.8	49	0.2	20.7	7.5	224	3.06	7.9	1.1	<0.5	2.5	14	<0.1	0.4	0.2	76	0.11	0.033
116544	Soil		1.5	24.7	7.9	39	<0.1	16.8	6.5	190	2.31	7.4	1.2	7.9	3.3	17	<0.1	0.3	0.1	49	0.20	0.052
116545	Soil		3.6	54.8	12.1	40	0.1	12.6	5.6	331	3.42	3.6	1.2	0.6	3.5	14	<0.1	0.3	0.2	49	0.05	0.071
116546	Soil		3.4	52.6	12.4	58	<0.1	21.9	8.1	307	3.65	5.8	1.4	3.0	4.3	16	0.1	0.4	0.2	61	0.09	0.033
116547	Soil		1.2	58.4	8.9	61	<0.1	31.2	10.6	530	3.35	8.1	1.3	4.7	4.1	15	<0.1	0.5	0.2	58	0.14	0.020
116548	Soil		2.1	34.8	9.9	61	<0.1	23.3	10.3	340	3.51	8.2	1.1	1.5	3.7	17	<0.1	0.5	0.2	62	0.16	0.036
116549	Soil		2.2	35.8	10.1	59	0.2	24.9	8.9	270	3.45	8.0	1.0	4.4	4.0	17	<0.1	0.5	0.2	61	0.14	0.031
116550	Soil		2.3	43.9	10.9	62	0.2	24.5	10.2	459	3.84	8.1	1.4	2.2	4.4	26	0.2	0.5	0.2	70	0.17	0.049
116551	Soil		1.2	33.0	8.5	51	0.1	21.8	8.9	255	2.79	7.0	1.2	4.2	4.2	19	<0.1	0.5	0.1	58	0.19	0.021
116552	Soil		1.6	33.1	12.5	66	0.2	35.1	15.4	1180	3.62	8.8	0.7	1.8	3.2	22	0.2	0.5	0.2	69	0.20	0.047
116553	Soil		1.0	27.3	8.4	56	<0.1	26.7	10.1	305	2.69	9.3	0.6	3.2	3.4	22	<0.1	0.4	0.1	56	0.27	0.033
116554	Soil		1.2	24.6	9.1	50	0.2	22.1	10.2	391	2.55	7.2	0.6	3.8	2.8	17	0.1	0.4	0.1	60	0.18	0.025
116555	Soil		1.0	24.5	8.4	44	<0.1	23.2	8.5	327	2.55	7.8	1.1	3.0	3.7	20	0.1	0.5	0.1	56	0.27	0.024
116556	Soil		1.1	22.8	9.0	52	0.1	22.6	9.9	453	2.50	7.4	0.9	1.4	2.9	20	<0.1	0.4	0.1	53	0.24	0.029
116557	Soil		1.2	29.6	8.7	49	0.1	22.6	9.3	369	2.64	7.8	1.3	3.5	3.8	21	<0.1	0.5	0.1	51	0.27	0.028
116558	Soil		1.3	14.0	7.6	40	<0.1	13.0	5.0	213	1.92	5.7	0.4	2.5	2.1	22	<0.1	0.4	0.2	50	0.25	0.027
116559	Soil		1.2	29.7	8.7	52	0.1	22.9	8.9	434	2.38	6.5	0.9	2.1	3.0	26	0.3	0.5	0.2	53	0.27	0.037
116560	Soil		1.7	32.3	9.1	53	0.1	21.8	8.9	395	2.22	5.9	0.8	1.6	2.2	28	0.2	0.6	0.2	49	0.31	0.041
116561	Soil		1.8	26.6	9.1	55	0.1	22.9	10.7	479	2.44	7.8	0.7	4.0	3.6	26	<0.1	0.6	0.2	53	0.30	0.041
116562	Soil		1.4	34.4	10.8	54	0.1	26.1	10.4	471	2.64	9.6	1.1	3.1	4.1	32	0.1	0.6	0.2	58	0.39	0.030
116563	Soil		3.5	86.1	13.3	101	0.1	31.5	12.1	372	3.17	4.9	2.1	2.9	6.1	45	0.2	0.4	0.3	71	0.23	0.039
102373	Soil		2.5	41.1	16.8	27	0.1	16.5	4.3	147	2.01	5.5	1.3	2.5	6.0	40	<0.1	0.7	0.2	29	0.10	0.028
102374	Soil		2.3	67.2	11.1	43	0.2	25.4	6.8	204	2.81	3.3	1.6	6.7	6.4	66	0.1	0.5	0.2	39	2.16	0.038
102375	Soil		2.3	58.2	9.7	36	0.1	22.2	5.9	203	2.38	6.3	1.3	5.9	5.5	29	<0.1	0.6	0.2	40	0.18	0.026
102376	Soil		1.8	33.6	11.5	65	0.1	31.9	11.1	722	2.85	6.5	1.0	2.2	4.8	23	<0.1	0.5	0.2	60	0.28	0.024

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Project: DAN  
 Report Date: August 06, 2011

Page: 6 of 7 Part 2

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	0.1	0.01	0.05	1	0.5	0.2	
116538	Soil	9	30	0.47	154	0.058	<1	2.03	0.007	0.09	0.2	0.02	3.0	0.2	<0.05	7	0.8	<0.2
116539	Soil	8	26	0.33	221	0.054	2	1.64	0.007	0.04	0.1	<0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
116540	Soil	9	33	0.54	156	0.070	<1	2.19	0.007	0.08	0.1	0.04	2.7	0.1	<0.05	5	1.0	<0.2
116541	Soil	8	29	0.36	178	0.040	<1	1.99	0.008	0.03	0.2	0.02	2.1	0.1	<0.05	7	<0.5	<0.2
116542	Soil	9	28	0.45	165	0.063	<1	1.84	0.010	0.05	0.1	0.01	2.5	0.1	<0.05	6	<0.5	<0.2
116543	Soil	12	29	0.46	139	0.068	<1	1.73	0.008	0.05	0.2	0.02	2.6	0.1	<0.05	7	0.6	<0.2
116544	Soil	10	25	0.43	137	0.053	<1	1.39	0.008	0.04	0.1	0.02	2.9	<0.1	<0.05	4	0.6	<0.2
116545	Soil	13	20	0.35	120	0.062	<1	1.10	0.004	0.19	0.1	0.01	1.7	0.2	0.07	5	0.5	<0.2
116546	Soil	13	33	0.75	150	0.114	1	1.88	0.008	0.24	0.1	0.03	3.1	0.2	<0.05	6	0.6	<0.2
116547	Soil	14	35	0.69	228	0.100	<1	1.96	0.010	0.10	0.1	0.04	5.7	0.1	<0.05	6	0.6	<0.2
116548	Soil	10	35	0.61	175	0.079	<1	1.98	0.010	0.09	0.1	0.02	3.5	0.1	<0.05	6	0.5	<0.2
116549	Soil	9	35	0.58	169	0.071	<1	1.91	0.011	0.07	0.1	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
116550	Soil	14	34	0.72	191	0.097	1	2.02	0.009	0.13	0.1	0.02	3.2	0.2	<0.05	6	<0.5	<0.2
116551	Soil	13	31	0.59	181	0.080	<1	1.60	0.011	0.07	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
116552	Soil	9	32	0.47	196	0.061	<1	2.05	0.008	0.10	0.1	0.03	2.8	0.1	<0.05	6	0.9	<0.2
116553	Soil	10	32	0.53	228	0.059	<1	1.54	0.013	0.06	0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
116554	Soil	9	28	0.46	221	0.054	<1	1.68	0.010	0.04	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
116555	Soil	12	32	0.48	296	0.058	1	1.52	0.013	0.04	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
116556	Soil	10	28	0.48	269	0.049	<1	1.44	0.010	0.05	0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
116557	Soil	13	31	0.48	252	0.055	<1	1.43	0.012	0.04	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
116558	Soil	10	21	0.37	175	0.062	<1	1.07	0.009	0.05	0.2	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
116559	Soil	14	30	0.48	311	0.068	1	1.53	0.012	0.05	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
116560	Soil	14	23	0.40	264	0.062	1	1.26	0.012	0.07	0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
116561	Soil	12	27	0.50	262	0.073	1	1.44	0.012	0.07	0.2	0.02	3.1	<0.1	<0.05	4	0.7	<0.2
116562	Soil	14	34	0.50	301	0.077	<1	1.57	0.014	0.06	0.1	0.04	4.1	<0.1	<0.05	4	0.5	<0.2
116563	Soil	21	36	0.86	214	0.139	<1	1.95	0.011	0.49	0.1	0.02	3.8	0.4	0.06	5	1.1	<0.2
102373	Soil	12	19	0.22	147	0.035	<1	0.72	0.005	0.08	<0.1	0.53	2.5	0.4	<0.05	2	1.2	<0.2
102374	Soil	18	24	0.31	185	0.042	1	0.63	0.007	0.11	<0.1	0.27	3.5	0.3	0.10	2	1.1	<0.2
102375	Soil	16	24	0.24	212	0.033	1	0.79	0.008	0.08	<0.1	0.16	3.7	0.1	<0.05	2	<0.5	<0.2
102376	Soil	12	36	0.52	335	0.090	2	1.49	0.010	0.16	0.1	0.02	4.0	0.1	<0.05	5	0.7	<0.2

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Project: DAN  
 Report Date: August 06, 2011

Page: 7 of 7 Part 1

CERTIFICATE OF ANALYSIS

WHI11000691.1

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
102377	Soil	2.4	56.5	13.3	87	<0.1	38.9	11.3	624	2.60	5.6	2.0	1.9	6.6	27	0.4	0.4	0.2	62	0.13	0.039
102378	Soil	0.9	46.1	4.6	39	<0.1	21.3	8.1	241	3.58	5.6	1.1	2.9	6.0	16	<0.1	0.3	0.3	57	0.21	0.023
102379	Soil	0.9	25.8	5.4	96	<0.1	29.9	17.5	958	4.94	3.1	1.2	2.6	14.8	28	<0.1	0.9	0.2	59	0.47	0.054
102380	Soil	0.4	16.5	2.0	42	<0.1	66.9	14.2	272	3.67	2.4	0.9	0.7	6.0	17	<0.1	0.2	<0.1	46	0.33	0.035
102381	Soil	0.7	18.5	2.3	100	<0.1	8.6	9.5	190	3.50	2.1	0.8	1.3	2.2	8	<0.1	0.1	<0.1	23	0.28	0.105
102382	Soil	0.4	14.4	3.7	98	<0.1	11.9	10.2	247	4.12	2.5	0.8	2.1	4.4	13	<0.1	0.2	<0.1	23	0.40	0.120
102383	Soil	0.6	15.0	3.6	83	<0.1	33.2	13.7	362	4.10	1.6	0.7	0.8	3.0	16	<0.1	0.2	<0.1	35	0.51	0.117
102384	Soil	0.7	16.8	7.7	48	<0.1	24.5	10.5	383	2.53	10.2	0.7	1.9	3.7	38	0.1	0.6	0.1	52	0.51	0.067



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Project: DAN  
 Report Date: August 06, 2011

Page: 7 of 7 Part 2

CERTIFICATE OF ANALYSIS

WHI11000691.1

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	
102377	Soil	13	40	0.40	382	0.057	<1	1.05	0.005	0.22	<0.1	0.21	6.3	0.4	<0.05	4	0.8	<0.2
102378	Soil	15	38	1.51	525	0.178	<1	2.26	0.017	0.93	0.1	0.01	8.5	0.3	0.09	9	0.7	<0.2
102379	Soil	43	79	1.57	377	0.010	1	2.83	0.006	0.16	<0.1	<0.01	7.4	<0.1	<0.05	10	<0.5	<0.2
102380	Soil	31	384	1.47	510	0.242	<1	1.96	0.012	0.59	<0.1	<0.01	9.6	0.2	<0.05	8	<0.5	<0.2
102381	Soil	9	6	0.76	307	0.172	<1	1.71	0.008	0.94	<0.1	<0.01	5.8	0.2	<0.05	8	<0.5	<0.2
102382	Soil	13	6	0.79	479	0.188	<1	1.92	0.009	0.94	<0.1	0.11	5.4	0.2	<0.05	9	<0.5	<0.2
102383	Soil	20	129	1.10	461	0.239	<1	2.25	0.011	0.86	<0.1	0.03	5.0	0.2	<0.05	9	<0.5	<0.2
102384	Soil	13	29	0.53	285	0.066	2	1.24	0.024	0.05	0.1	0.02	3.9	<0.1	<0.05	3	0.7	<0.2



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Project: DAN  
 Report Date: August 06, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000691.1

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																					
105582	Soil	1.0	62.6	9.4	82	<0.1	52.5	18.3	596	4.00	1.7	1.1	2.4	10.5	11	<0.1	0.1	0.2	71	0.11	0.022
REP 105582	QC	1.0	61.8	8.9	85	<0.1	50.2	17.7	570	4.04	1.8	1.0	0.6	10.8	11	<0.1	0.2	0.2	71	0.10	0.022
105589	Soil	1.1	41.6	5.9	53	<0.1	17.2	5.7	218	2.13	2.7	0.9	3.1	3.8	16	<0.1	0.2	0.1	38	0.19	0.024
REP 105589	QC	1.0	40.3	5.5	53	<0.1	16.5	5.6	221	2.04	2.4	0.8	2.9	3.7	16	<0.1	0.2	0.1	37	0.19	0.021
108783	Soil	1.0	54.1	11.1	51	<0.1	27.9	13.0	494	2.87	8.0	1.1	6.7	4.8	30	<0.1	0.6	0.2	66	0.23	0.026
REP 108783	QC	1.1	56.1	11.4	55	<0.1	28.4	12.6	485	2.88	8.0	1.2	6.0	4.9	31	<0.1	0.7	0.2	67	0.24	0.026
108792	Soil	1.5	98.3	13.9	109	<0.1	17.3	6.4	647	3.73	0.7	1.4	1.2	7.3	32	<0.1	0.3	0.3	73	0.10	0.062
REP 108792	QC	1.2	94.1	14.1	105	<0.1	16.7	6.3	616	3.52	<0.5	1.4	<0.5	7.1	31	<0.1	0.3	0.3	70	0.09	0.056
108808	Soil	3.1	35.2	12.0	57	<0.1	20.3	9.6	269	2.94	8.0	2.1	12.8	5.1	20	<0.1	0.4	0.3	77	0.14	0.036
REP 108808	QC	3.1	34.7	12.1	55	<0.1	19.7	9.5	270	2.90	7.8	2.2	20.0	5.2	21	0.1	0.4	0.3	80	0.14	0.036
111492	Soil	1.1	49.9	13.2	69	<0.1	45.4	14.1	440	3.64	6.6	2.2	2.6	11.1	27	<0.1	0.5	0.2	67	0.27	0.019
REP 111492	QC	1.2	50.3	12.9	67	<0.1	46.8	14.3	444	3.72	6.7	2.1	2.3	11.2	28	<0.1	0.6	0.2	68	0.26	0.020
111502	Soil	0.7	46.8	6.3	74	0.1	99.4	13.0	299	3.22	3.1	0.8	2.5	2.9	19	<0.1	0.1	<0.1	59	0.17	0.018
REP 111502	QC	0.7	47.1	6.1	71	0.1	98.2	12.6	288	3.04	3.2	0.8	4.7	2.8	19	<0.1	0.2	0.1	56	0.17	0.017
116548	Soil	2.1	34.8	9.9	61	<0.1	23.3	10.3	340	3.51	8.2	1.1	1.5	3.7	17	<0.1	0.5	0.2	62	0.16	0.036
REP 116548	QC	2.0	33.7	9.6	59	<0.1	23.6	10.1	329	3.42	7.8	1.1	2.3	3.7	17	<0.1	0.5	0.2	62	0.15	0.034
102374	Soil	2.3	67.2	11.1	43	0.2	25.4	6.8	204	2.81	3.3	1.6	6.7	6.4	66	0.1	0.5	0.2	39	2.16	0.038
REP 102374	QC	2.4	67.6	10.3	43	0.1	25.5	6.8	201	2.80	3.1	1.6	4.9	6.2	65	0.2	0.5	0.2	38	2.09	0.037
Reference Materials																					
STD DS8	Standard	13.6	114.0	126.9	313	1.8	39.1	7.6	622	2.51	27.6	2.9	111.3	6.9	69	2.2	5.8	7.0	43	0.67	0.079
STD DS8	Standard	14.3	113.7	125.0	322	1.8	38.0	7.8	610	2.50	28.1	2.8	138.1	6.7	68	2.2	6.1	6.8	44	0.70	0.079
STD DS8	Standard	13.7	113.0	122.8	317	1.9	39.2	7.7	618	2.51	26.8	2.8	109.8	6.9	69	2.6	5.9	7.0	42	0.70	0.081
STD DS8	Standard	14.1	113.7	122.1	318	1.9	38.6	7.5	612	2.49	27.1	2.8	107.1	7.0	70	2.2	6.0	6.7	43	0.71	0.083
STD DS8	Standard	12.2	104.5	123.7	300	1.8	36.2	7.1	578	2.33	25.7	2.6	112.3	6.5	57	2.0	4.9	5.7	39	0.65	0.076
STD DS8	Standard	13.3	105.3	119.1	303	1.8	37.1	7.3	582	2.35	25.3	2.7	99.9	6.6	59	2.3	4.7	5.6	41	0.66	0.075
STD DS8	Standard	12.4	105.1	121.3	312	1.8	36.0	7.2	598	2.46	24.9	2.5	105.7	6.2	61	2.4	5.4	6.1	42	0.66	0.073
STD DS8	Standard	12.4	104.6	125.1	301	1.8	38.0	7.3	582	2.35	24.7	2.5	107.5	6.3	64	2.1	5.5	6.0	40	0.67	0.074
STD DS8	Standard	13.1	108.7	124.0	311	1.8	35.8	7.2	616	2.45	25.5	2.8	111.5	6.4	69	2.3	5.6	6.3	42	0.69	0.081

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: DAN  
Report Date: August 06, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000691.1

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																		
105582	Soil	30	79	1.34	506	0.290	<1	2.77	0.008	1.00	<0.1	<0.01	5.0	0.5	<0.05	9	<0.5	<0.2
REP 105582	QC	30	75	1.35	500	0.278	<1	2.80	0.009	0.98	<0.1	<0.01	5.1	0.5	<0.05	9	0.7	<0.2
105589	Soil	11	33	0.71	318	0.099	<1	1.34	0.009	0.36	<0.1	<0.01	3.0	0.2	<0.05	4	0.8	<0.2
REP 105589	QC	11	33	0.67	319	0.101	2	1.30	0.009	0.36	<0.1	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
108783	Soil	18	33	0.51	335	0.116	<1	1.97	0.014	0.09	0.1	0.05	5.8	0.1	<0.05	6	<0.5	<0.2
REP 108783	QC	19	33	0.52	343	0.120	<1	2.05	0.015	0.09	0.1	0.05	5.7	0.1	<0.05	6	<0.5	<0.2
108792	Soil	28	37	1.41	259	0.253	<1	2.55	0.014	1.31	<0.1	0.02	3.6	0.6	0.23	8	<0.5	<0.2
REP 108792	QC	26	35	1.35	248	0.241	<1	2.40	0.013	1.25	<0.1	0.01	3.4	0.6	0.22	8	<0.5	<0.2
108808	Soil	16	37	0.59	171	0.111	2	2.03	0.009	0.10	0.1	0.02	2.8	0.1	<0.05	5	0.6	<0.2
REP 108808	QC	17	37	0.60	170	0.116	1	2.09	0.010	0.10	0.1	0.02	2.8	0.1	<0.05	5	0.6	<0.2
111492	Soil	36	71	0.93	284	0.194	<1	2.46	0.014	0.37	<0.1	0.04	6.5	0.3	<0.05	7	<0.5	<0.2
REP 111492	QC	36	71	0.95	286	0.205	1	2.58	0.017	0.37	0.1	0.04	6.4	0.3	<0.05	7	<0.5	<0.2
111502	Soil	11	153	1.64	2415	0.157	<1	2.25	0.011	0.40	<0.1	0.01	5.9	0.2	<0.05	7	<0.5	<0.2
REP 111502	QC	10	147	1.57	2200	0.150	1	2.16	0.011	0.38	<0.1	0.02	5.5	0.2	<0.05	7	0.6	<0.2
116548	Soil	10	35	0.61	175	0.079	<1	1.98	0.010	0.09	0.1	0.02	3.5	0.1	<0.05	6	0.5	<0.2
REP 116548	QC	10	34	0.61	174	0.078	1	1.95	0.010	0.09	<0.1	0.02	3.3	0.1	<0.05	5	0.8	<0.2
102374	Soil	18	24	0.31	185	0.042	1	0.63	0.007	0.11	<0.1	0.27	3.5	0.3	0.10	2	1.1	<0.2
REP 102374	QC	18	24	0.31	176	0.042	1	0.61	0.007	0.11	<0.1	0.28	3.5	0.2	0.10	2	1.1	<0.2
Reference Materials																		
STD DS8	Standard	14	123	0.61	274	0.126	3	0.89	0.081	0.42	2.9	0.20	2.1	5.7	0.17	4	5.9	5.0
STD DS8	Standard	15	122	0.60	287	0.131	2	0.89	0.083	0.42	2.9	0.21	2.0	5.2	0.18	5	5.1	5.0
STD DS8	Standard	15	119	0.60	291	0.127	1	0.89	0.090	0.42	2.9	0.22	2.3	5.5	0.15	5	6.0	4.5
STD DS8	Standard	16	117	0.60	289	0.131	2	0.91	0.089	0.42	3.1	0.19	2.2	5.5	0.15	5	5.0	4.8
STD DS8	Standard	13	110	0.62	258	0.103	3	0.87	0.079	0.40	2.7	0.20	1.9	5.2	0.13	4	5.6	4.5
STD DS8	Standard	14	109	0.58	269	0.108	2	0.86	0.084	0.40	2.7	0.22	2.2	5.3	0.11	5	5.4	4.9
STD DS8	Standard	13	117	0.57	273	0.104	3	0.85	0.073	0.41	2.8	0.17	1.7	5.4	0.15	5	5.1	5.4
STD DS8	Standard	13	113	0.59	270	0.104	3	0.84	0.076	0.41	2.8	0.19	1.8	5.2	0.12	5	4.6	5.4
STD DS8	Standard	15	116	0.63	284	0.111	3	0.92	0.093	0.43	3.1	0.21	2.1	5.4	0.21	5	5.2	4.9



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**Project:** DAN

**Report Date:** August 06, 2011

**Page:** 2 of 2 **Part** 1

QUALITY CONTROL REPORT

WHI11000691.1

		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	14.6	114.9	126.9	304	1.8	41.0	8.4	630	2.49	26.3	2.9	102.6	7.0	70	2.3	5.5	6.8	47	0.70	0.078
STD DS8	Standard	15.3	123.7	130.5	322	1.8	43.2	8.6	651	2.64	27.9	3.1	111.1	7.6	74	2.3	6.0	7.0	50	0.74	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



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**Report Date:** August 06, 2011

**Page:** 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11000691.1

		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 Tl 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	127	0.62	278	0.138	4	0.90	0.085	0.40	2.8	0.18	2.1	5.1	0.16	4	5.5	4.5
STD DS8	Standard	17	135	0.65	296	0.128	3	0.98	0.092	0.41	2.9	0.20	2.1	5.2	0.18	5	5.5	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





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Submitted By: Lauren Wilson
Receiving Lab: Canada-Whitehorse
Received: July 21, 2011
Report Date: August 09, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000684.1

CLIENT JOB INFORMATION

Project: Rosebute
Shipment ID: 20110712081425
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: Mark Fekete

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: Rosebute  
 Report Date: August 09, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
102419	Soil	0.3	55.1	6.9	46	<0.1	17.4	11.7	335	2.86	2.8	0.4	2.1	1.1	64	<0.1	0.2	<0.1	88	0.93	0.052
102420	Soil	0.8	24.9	8.4	56	<0.1	22.6	9.4	364	2.57	8.2	0.8	3.0	3.6	27	<0.1	0.5	0.1	53	0.31	0.058
102421	Soil	7.6	92.9	19.5	171	<0.1	40.8	15.6	554	8.89	3.2	2.0	2.9	14.5	38	0.2	0.2	0.3	84	0.08	0.101
102422	Soil	1.1	43.2	15.0	82	<0.1	28.7	10.9	366	3.01	6.5	2.5	8.5	9.3	33	0.1	0.4	0.3	50	0.18	0.027
102423	Soil	1.0	20.3	10.0	93	<0.1	33.1	12.1	354	3.78	6.8	0.7	1.6	7.2	33	0.2	0.3	0.2	52	0.16	0.042
102424	Soil	1.2	42.8	7.3	93	<0.1	41.1	14.9	565	4.39	2.5	2.4	<0.5	17.1	11	<0.1	0.1	0.3	42	0.08	0.040
102425	Soil	1.2	23.8	13.1	87	<0.1	21.3	9.9	248	3.58	8.0	0.7	3.0	3.8	20	0.2	0.4	0.3	58	0.10	0.041
102426	Soil	11.8	60.0	8.6	58	<0.1	6.9	4.1	279	4.43	2.9	2.4	3.7	20.2	32	0.1	0.3	10.7	21	0.07	0.028
102427	Soil	0.4	12.6	6.8	56	<0.1	11.3	14.0	704	4.11	3.6	1.5	0.8	14.5	49	0.2	0.2	0.1	66	0.47	0.065
102428	Soil	1.5	13.6	8.9	45	<0.1	11.8	8.3	281	3.36	6.3	3.0	2.3	18.6	18	<0.1	0.3	0.2	44	0.14	0.036
102429	Soil	1.1	63.0	5.6	110	<0.1	7.2	12.6	864	4.91	2.5	3.9	1.6	22.5	37	<0.1	0.2	0.2	75	0.20	0.033
102430	Soil	0.9	35.4	8.6	58	0.1	19.3	12.6	304	2.93	7.7	0.8	1.1	6.1	24	<0.1	0.4	0.2	56	0.23	0.027
102431	Soil	2.5	64.1	8.5	55	0.5	22.2	14.8	336	3.30	8.0	0.5	2.0	3.8	17	<0.1	0.4	0.1	74	0.13	0.033
102432	Soil	1.0	26.8	8.2	46	<0.1	20.3	9.0	268	2.72	8.7	0.9	3.1	5.6	19	<0.1	0.5	0.1	62	0.14	0.017
102433	Soil	1.2	28.8	9.7	62	<0.1	28.2	10.7	309	2.89	11.8	0.8	6.7	10.9	16	<0.1	0.6	0.2	61	0.12	0.021
102434	Soil	1.0	17.2	11.1	86	<0.1	12.5	10.2	667	3.98	7.2	1.0	<0.5	10.6	15	<0.1	0.2	0.2	59	0.16	0.038
102435	Soil	1.1	79.9	25.2	57	<0.1	122.8	20.5	397	4.17	8.6	1.6	1.6	7.9	56	<0.1	0.4	0.2	119	0.58	0.152
102436	Soil	2.1	17.7	11.1	54	0.1	19.3	8.3	308	2.76	8.5	0.4	0.7	2.9	19	<0.1	0.5	0.2	69	0.14	0.042
102437	Soil	1.5	23.0	9.2	43	<0.1	20.6	8.2	238	2.71	8.8	1.4	3.5	7.3	28	<0.1	0.5	0.2	56	0.18	0.015
102438	Soil	0.7	19.0	9.6	33	0.2	17.0	6.2	110	2.11	5.0	0.6	2.9	3.3	14	<0.1	0.2	0.2	49	0.13	0.024
102439	Soil	2.1	71.1	19.9	112	<0.1	30.1	13.7	319	3.38	3.7	1.4	11.1	6.8	37	0.1	0.2	0.3	68	0.20	0.034
102440	Soil	0.5	64.6	1.8	19	<0.1	10.1	7.5	142	1.45	1.4	0.3	1.4	1.7	68	<0.1	<0.1	<0.1	35	1.39	0.066
102441	Soil	0.7	26.2	7.2	36	<0.1	19.0	8.3	189	2.30	5.4	0.6	1.6	2.8	25	<0.1	0.3	<0.1	58	0.31	0.037
102442	Soil	0.3	16.1	3.8	72	<0.1	10.8	11.0	513	3.22	1.9	1.0	1.0	10.5	29	<0.1	0.1	<0.1	62	0.32	0.025
102443	Soil	0.5	37.1	6.9	51	<0.1	15.5	8.0	321	2.50	5.1	1.2	3.2	6.7	47	<0.1	0.3	<0.1	51	0.34	0.049
102444	Soil	0.3	76.4	4.3	33	<0.1	17.3	15.6	283	2.36	2.9	0.4	1.5	2.0	49	<0.1	0.2	<0.1	78	0.87	0.090
102445	Soil	0.2	99.4	2.3	36	<0.1	10.7	17.2	272	2.14	1.3	0.1	1.5	0.5	80	<0.1	0.1	<0.1	63	1.17	0.180
102446	Soil	0.6	51.5	4.9	59	<0.1	16.4	12.1	348	2.83	3.5	0.5	2.0	6.2	94	<0.1	0.3	<0.1	70	0.99	0.142
102447	Soil	0.2	25.5	3.4	78	<0.1	16.6	14.6	364	3.20	1.4	0.3	3.3	7.0	184	<0.1	<0.1	<0.1	74	1.66	0.165
102448	Soil	0.2	174.1	11.1	385	<0.1	12.8	17.4	379	3.69	2.1	0.4	3.2	2.6	52	0.4	0.2	<0.1	89	1.31	0.303

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
102419	Soil	6	29	0.77	212	0.098	3	2.04	0.055	0.10	<0.1	<0.01	6.6	<0.1	<0.05	5	<0.5	<0.2
102420	Soil	12	28	0.56	285	0.080	4	1.59	0.013	0.07	<0.1	0.03	4.4	<0.1	<0.05	4	0.7	<0.2
102421	Soil	46	66	1.13	278	0.222	2	3.17	0.010	0.96	<0.1	<0.01	4.6	0.7	0.07	9	0.6	<0.2
102422	Soil	24	37	0.71	328	0.128	2	1.90	0.011	0.15	0.1	0.02	4.9	0.2	<0.05	5	0.9	<0.2
102423	Soil	11	36	0.87	177	0.165	2	2.30	0.007	0.48	<0.1	0.01	2.5	0.4	<0.05	7	0.5	<0.2
102424	Soil	22	39	1.14	132	0.270	2	2.74	0.006	1.08	<0.1	<0.01	2.7	0.8	<0.05	9	<0.5	<0.2
102425	Soil	8	30	0.50	166	0.085	1	2.41	0.011	0.09	0.1	0.02	2.4	0.2	<0.05	7	0.5	<0.2
102426	Soil	25	10	0.36	162	0.082	2	1.60	0.012	0.36	<0.1	0.01	2.4	0.3	0.11	5	1.1	0.2
102427	Soil	26	12	1.01	177	0.235	3	3.58	0.010	1.18	0.2	0.01	3.9	0.5	<0.05	12	<0.5	<0.2
102428	Soil	16	20	0.45	83	0.036	2	1.89	0.007	0.08	<0.1	0.01	2.5	<0.1	<0.05	5	0.7	<0.2
102429	Soil	49	9	1.40	265	0.194	2	3.07	0.012	1.17	<0.1	0.02	6.4	0.7	0.06	10	<0.5	<0.2
102430	Soil	9	28	0.59	171	0.110	2	2.56	0.009	0.20	<0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
102431	Soil	7	32	0.82	177	0.124	2	2.58	0.009	0.14	0.2	0.03	2.3	0.2	<0.05	6	<0.5	<0.2
102432	Soil	12	32	0.61	165	0.095	2	2.03	0.009	0.08	<0.1	0.01	3.6	0.1	<0.05	5	<0.5	<0.2
102433	Soil	10	34	0.63	192	0.095	1	2.53	0.008	0.10	0.1	0.01	3.0	0.1	<0.05	6	<0.5	<0.2
102434	Soil	12	16	1.02	211	0.179	2	2.94	0.009	0.50	0.1	<0.01	3.8	0.4	<0.05	9	<0.5	<0.2
102435	Soil	14	63	1.98	266	0.194	3	3.26	0.011	0.20	0.6	<0.01	2.2	<0.1	<0.05	9	<0.5	<0.2
102436	Soil	8	32	0.49	181	0.077	3	1.89	0.008	0.07	0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
102437	Soil	16	34	0.51	165	0.079	3	1.70	0.015	0.07	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
102438	Soil	8	24	0.32	192	0.058	2	1.68	0.007	0.04	<0.1	<0.01	1.9	0.1	<0.05	5	<0.5	<0.2
102439	Soil	32	51	1.09	502	0.178	3	2.26	0.011	0.41	<0.1	<0.01	3.2	0.3	0.09	7	0.8	<0.2
102440	Soil	4	15	0.40	67	0.057	<1	2.48	0.041	0.06	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
102441	Soil	11	27	0.49	178	0.091	1	1.76	0.015	0.04	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
102442	Soil	23	17	1.22	201	0.218	2	2.60	0.011	0.41	<0.1	<0.01	3.4	0.2	<0.05	8	<0.5	<0.2
102443	Soil	23	22	0.66	204	0.116	<1	1.58	0.012	0.23	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
102444	Soil	7	23	0.89	129	0.107	2	1.75	0.048	0.06	0.1	<0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
102445	Soil	1	13	1.05	78	0.102	3	1.70	0.061	0.05	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
102446	Soil	17	24	0.94	275	0.128	2	2.20	0.032	0.18	<0.1	0.01	4.5	<0.1	<0.05	6	0.6	<0.2
102447	Soil	18	49	1.33	467	0.211	<1	3.50	0.017	0.52	<0.1	<0.01	2.3	0.2	<0.05	8	0.7	<0.2
102448	Soil	10	16	1.19	102	0.060	2	2.03	0.065	0.05	<0.1	0.02	7.2	<0.1	<0.05	6	1.3	<0.2

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Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
102449	Soil	0.6	16.4	11.0	83	<0.1	17.6	6.3	517	3.33	6.7	0.6	1.1	4.2	27	<0.1	0.3	<0.1	36	0.22	0.019
102450	Soil	1.0	18.1	4.5	76	<0.1	7.2	9.8	797	4.34	2.4	0.9	0.9	4.7	14	<0.1	0.2	<0.1	55	0.25	0.059
102451	Soil	1.4	14.4	29.7	80	0.1	16.8	5.6	461	2.73	5.0	1.3	1.4	5.7	49	<0.1	0.3	<0.1	29	0.41	0.033
102452	Soil	0.9	9.8	8.2	101	<0.1	8.8	5.5	641	2.30	2.4	0.7	0.9	3.2	43	0.2	0.2	<0.1	25	0.50	0.058
102453	Soil	0.9	33.9	26.2	72	0.5	39.6	10.5	418	2.80	8.7	1.0	5.1	4.6	14	<0.1	0.6	0.2	53	0.18	0.019
102454	Soil	0.6	32.6	12.2	62	<0.1	28.5	14.4	413	3.47	4.0	1.9	<0.5	12.3	202	0.1	0.2	0.1	45	0.31	0.024
102455	Soil	21.2	210.7	12.2	68	0.5	5.5	2.5	316	4.87	2.4	2.4	<0.5	15.8	41	0.1	0.3	0.5	24	0.09	0.041
102456	Soil	4.8	79.3	187.3	96	1.5	2.7	2.1	222	5.21	4.7	2.5	<0.5	23.2	109	0.2	<0.1	7.9	25	0.07	0.066
102457	Soil	1.8	26.2	8.4	63	0.1	12.5	6.5	310	3.44	6.3	1.7	<0.5	8.3	41	<0.1	0.3	0.7	46	0.17	0.055
102458	Soil	1.0	18.9	9.4	49	<0.1	15.7	9.0	266	2.85	8.5	1.4	<0.5	6.5	22	0.1	0.4	0.2	57	0.20	0.028
102459	Soil	2.0	25.6	8.3	62	0.1	14.5	8.2	309	2.75	5.8	2.4	<0.5	7.8	25	0.1	0.3	0.3	51	0.22	0.037
102460	Soil	1.8	22.4	11.8	59	<0.1	12.6	6.8	258	2.33	3.6	1.8	<0.5	7.5	31	<0.1	0.3	0.3	46	0.25	0.031
102461	Soil	1.2	21.9	10.0	55	<0.1	16.4	8.2	251	2.53	6.2	1.6	<0.5	7.0	23	<0.1	0.3	0.2	51	0.23	0.032
102462	Soil	1.0	18.1	8.0	57	<0.1	16.9	9.3	310	2.62	6.7	1.6	2.6	8.9	24	<0.1	0.3	0.1	51	0.19	0.032
102463	Soil	2.4	8.9	7.7	58	<0.1	6.4	14.6	807	4.78	5.2	1.5	<0.5	12.8	27	<0.1	0.2	<0.1	80	0.18	0.036
102464	Soil	1.0	22.7	6.6	71	<0.1	11.0	9.7	420	3.39	4.0	1.4	<0.5	7.2	33	<0.1	0.2	0.9	66	0.17	0.022
102465	Soil	2.4	14.9	5.2	55	<0.1	2.9	2.8	531	5.34	1.0	2.1	0.7	15.3	147	<0.1	<0.1	0.1	58	0.24	0.053
102466	Soil	0.8	22.0	5.0	55	<0.1	11.8	10.3	525	2.73	3.8	1.6	<0.5	14.3	43	<0.1	0.2	<0.1	52	0.34	0.024
102467	Soil	0.6	21.1	7.6	57	<0.1	16.3	8.9	305	2.75	5.3	1.1	<0.5	10.6	49	<0.1	0.3	0.2	59	0.24	0.012
102468	Soil	0.8	10.8	6.0	61	<0.1	9.6	10.7	508	3.38	3.4	1.3	<0.5	11.8	56	<0.1	0.2	0.1	50	0.17	0.021
102469	Soil	0.8	16.6	7.3	50	<0.1	15.0	9.3	331	2.73	5.0	1.5	<0.5	10.0	26	<0.1	0.3	<0.1	57	0.22	0.017
102470	Soil	1.4	16.2	5.4	75	<0.1	8.6	7.7	575	3.39	2.6	2.4	<0.5	13.7	34	<0.1	0.2	<0.1	57	0.19	0.032
102471	Soil	1.2	16.1	10.1	66	<0.1	12.5	6.6	342	2.51	4.5	1.9	<0.5	10.7	19	<0.1	0.3	0.1	49	0.22	0.020
102472	Soil	0.9	31.3	7.5	46	<0.1	16.9	9.1	281	2.54	5.6	2.1	<0.5	6.8	23	0.1	0.3	0.1	53	0.26	0.044
102473	Soil	1.0	19.2	7.4	91	<0.1	14.2	11.7	415	3.41	6.8	0.8	<0.5	4.5	32	<0.1	0.3	<0.1	69	0.16	0.027
102474	Soil	0.7	40.7	5.0	80	<0.1	6.6	13.4	519	4.16	1.9	1.5	<0.5	6.9	50	<0.1	0.1	<0.1	85	0.25	0.033
102475	Soil	1.6	22.6	9.7	51	0.1	11.7	7.1	215	2.70	7.7	0.5	<0.5	3.4	12	0.1	0.3	0.1	61	0.10	0.036
102476	Soil	0.5	50.5	3.1	124	<0.1	17.9	16.7	789	3.88	2.2	0.9	<0.5	6.2	37	<0.1	<0.1	0.1	99	0.18	0.021
102477	Soil	0.7	14.9	8.9	39	<0.1	14.2	6.2	165	2.27	6.1	1.1	1.6	8.0	12	<0.1	0.3	0.1	56	0.14	0.014
102478	Soil	0.6	14.2	8.4	39	<0.1	13.7	6.8	245	2.25	5.6	0.8	1.1	4.5	16	<0.1	0.3	0.1	50	0.19	0.025

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Page: 3 of 12 Part 2

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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	0.1	0.01	0.05	1	0.5	0.2
102449	Soil	9	22	0.85	195	0.165	2	2.34	0.009	0.32	<0.1	<0.01	7.1	0.1	<0.05	10	<0.5	<0.2
102450	Soil	12	10	1.18	83	0.142	1	2.27	0.006	0.69	<0.1	<0.01	8.6	0.2	<0.05	9	<0.5	<0.2
102451	Soil	16	28	0.39	164	0.068	2	2.20	0.008	0.24	<0.1	<0.01	5.1	0.1	<0.05	9	<0.5	<0.2
102452	Soil	9	14	0.35	188	0.051	2	1.46	0.007	0.25	<0.1	<0.01	2.6	0.1	<0.05	6	<0.5	<0.2
102453	Soil	11	33	0.55	154	0.059	1	1.91	0.008	0.03	0.1	0.04	5.2	<0.1	<0.05	5	0.8	<0.2
102454	Soil	17	39	0.94	546	0.215	<1	3.21	0.027	0.54	<0.1	0.03	2.5	0.6	<0.05	8	0.7	<0.2
102455	Soil	27	8	0.51	226	0.094	<1	1.67	0.017	0.69	<0.1	0.02	1.7	0.7	0.40	5	1.2	0.3
102456	Soil	52	5	0.43	203	0.099	<1	1.74	0.077	0.72	0.2	<0.01	2.5	0.6	0.88	6	1.2	2.3
102457	Soil	25	18	0.53	169	0.093	<1	1.84	0.015	0.27	0.1	0.02	2.1	0.3	0.13	6	<0.5	<0.2
102458	Soil	13	27	0.48	150	0.082	<1	1.98	0.012	0.08	0.1	0.03	3.2	0.1	<0.05	6	<0.5	<0.2
102459	Soil	20	21	0.65	154	0.102	1	2.01	0.024	0.16	0.1	0.03	3.1	0.2	<0.05	6	0.6	<0.2
102460	Soil	19	20	0.55	159	0.115	<1	1.65	0.016	0.18	0.1	0.02	3.0	0.2	<0.05	5	0.5	<0.2
102461	Soil	17	26	0.55	216	0.094	1	1.75	0.022	0.09	0.1	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
102462	Soil	20	24	0.59	167	0.090	1	2.05	0.012	0.13	0.1	0.04	3.0	0.2	<0.05	5	<0.5	<0.2
102463	Soil	9	12	1.47	137	0.185	<1	3.26	0.009	0.50	0.1	0.02	4.8	0.3	<0.05	10	<0.5	<0.2
102464	Soil	12	16	0.86	215	0.150	<1	2.45	0.014	0.47	<0.1	0.01	2.8	0.3	<0.05	7	<0.5	<0.2
102465	Soil	28	4	1.27	186	0.206	<1	2.39	0.052	1.28	<0.1	0.01	4.2	0.7	0.85	8	5.2	<0.2
102466	Soil	40	20	1.12	194	0.169	<1	2.16	0.020	0.55	0.1	0.02	4.6	0.4	<0.05	7	<0.5	<0.2
102467	Soil	20	27	0.68	197	0.130	1	2.22	0.031	0.18	0.1	0.02	4.5	0.2	<0.05	6	<0.5	<0.2
102468	Soil	7	15	0.81	131	0.147	<1	2.92	0.014	0.52	<0.1	0.01	2.6	0.4	<0.05	8	<0.5	<0.2
102469	Soil	25	25	0.68	194	0.122	<1	1.84	0.018	0.19	0.1	0.03	3.7	0.2	<0.05	6	0.5	<0.2
102470	Soil	24	14	1.06	185	0.161	<1	2.39	0.015	0.48	<0.1	0.02	4.2	0.3	<0.05	7	<0.5	<0.2
102471	Soil	21	23	0.68	197	0.110	<1	1.92	0.015	0.12	0.1	0.02	3.5	0.2	<0.05	5	0.5	<0.2
102472	Soil	23	32	0.64	229	0.085	<1	1.76	0.013	0.07	0.1	0.01	4.1	0.1	<0.05	5	0.7	<0.2
102473	Soil	8	24	0.94	183	0.143	<1	2.78	0.011	0.45	<0.1	<0.01	2.1	0.2	<0.05	6	<0.5	<0.2
102474	Soil	11	10	1.36	183	0.212	<1	3.43	0.014	1.06	<0.1	0.01	2.2	0.5	<0.05	8	<0.5	<0.2
102475	Soil	8	26	0.42	102	0.063	<1	1.90	0.008	0.05	0.1	0.03	1.8	0.1	<0.05	6	<0.5	<0.2
102476	Soil	23	36	2.41	237	0.229	<1	3.62	0.012	1.22	0.1	0.02	5.4	0.6	<0.05	11	<0.5	<0.2
102477	Soil	12	27	0.49	156	0.072	<1	1.88	0.012	0.06	0.1	0.03	2.9	0.1	<0.05	5	<0.5	<0.2
102478	Soil	14	20	0.47	148	0.077	<1	1.87	0.013	0.09	<0.1	0.04	2.2	0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
102479	Soil		0.5	12.9	5.9	41	<0.1	11.9	6.5	267	2.15	4.1	1.3	<0.5	5.4	30	<0.1	0.2	0.1	46	0.38	0.057
102480	Soil		0.9	11.5	7.5	44	<0.1	16.0	9.0	227	3.17	7.0	0.8	1.4	5.3	22	<0.1	0.3	0.1	62	0.18	0.040
102481	Soil		1.4	11.1	8.0	55	<0.1	9.3	8.1	421	3.11	6.3	1.3	<0.5	6.4	22	<0.1	0.3	0.2	67	0.13	0.025
102482	Soil		3.2	73.0	12.3	34	0.4	3.1	1.8	117	6.13	1.0	1.5	<0.5	9.5	69	<0.1	0.1	2.4	30	0.06	0.033
102483	Soil		0.6	18.2	8.8	45	<0.1	17.5	7.6	189	2.38	7.6	1.2	<0.5	5.5	17	<0.1	0.5	0.1	51	0.16	0.012
102484	Soil		1.2	28.3	33.5	100	0.1	12.2	9.5	489	2.85	8.1	2.0	<0.5	8.2	42	0.2	0.4	0.3	48	0.21	0.037
102485	Soil		1.1	15.5	11.1	64	0.1	10.5	7.4	233	3.11	3.9	1.6	<0.5	7.0	57	<0.1	0.2	0.2	63	0.26	0.024
102486	Soil		1.0	30.9	9.1	55	0.1	23.5	10.3	440	2.43	8.3	1.2	1.9	3.4	31	0.2	0.5	0.2	54	0.53	0.055
102487	Soil		0.8	32.2	8.5	56	0.2	24.2	9.5	348	2.34	8.4	0.8	2.2	3.9	38	0.2	0.6	0.1	52	0.57	0.061
102488	Soil		0.7	32.3	8.3	67	0.1	26.0	11.3	508	2.60	10.9	2.2	1.2	3.3	37	0.3	0.7	0.1	55	0.72	0.067
104642	Soil		0.7	31.4	10.8	89	<0.1	10.3	7.7	562	3.74	4.0	0.8	1.5	8.1	14	<0.1	0.4	0.2	51	0.19	0.013
104643	Soil		0.6	56.6	5.6	50	<0.1	21.9	15.2	438	3.15	3.3	0.9	2.1	2.1	26	<0.1	0.4	<0.1	64	0.39	0.018
104644	Soil		0.7	39.0	10.1	98	<0.1	12.2	8.8	540	3.89	4.3	0.9	2.8	5.4	15	<0.1	0.6	0.1	63	0.15	0.019
104645	Soil		1.2	71.1	9.3	88	<0.1	16.5	17.6	653	5.84	19.1	1.0	3.3	4.0	10	<0.1	0.4	0.2	130	0.13	0.027
104646	Soil		0.7	54.0	7.0	62	<0.1	14.0	15.3	474	4.23	5.7	0.8	2.1	2.6	19	<0.1	0.3	0.1	109	0.41	0.096
104647	Soil		0.7	22.8	3.2	132	<0.1	7.3	5.1	618	3.39	5.6	0.4	1.2	2.6	9	<0.1	0.3	<0.1	35	0.10	0.012
104648	Soil		1.4	36.8	10.3	78	<0.1	20.7	7.4	413	3.17	68.6	0.8	3.7	4.8	19	<0.1	0.7	0.1	46	0.25	0.041
104649	Soil		2.3	41.6	10.4	114	<0.1	21.9	9.4	841	4.07	74.1	1.1	2.3	4.0	17	0.2	0.6	0.1	48	0.26	0.061
104650	Soil		9.2	80.5	6.1	129	<0.1	35.9	14.9	562	4.95	80.7	1.2	2.4	3.6	11	0.1	1.5	0.3	146	0.18	0.056
104651	Soil		1.1	172.0	4.6	111	<0.1	7.8	21.4	1033	5.23	1.8	1.0	1.9	3.3	20	0.1	0.1	<0.1	165	0.82	0.229
104652	Soil		0.6	223.5	5.5	86	<0.1	22.1	26.4	1644	5.54	4.0	0.4	1.5	1.0	22	<0.1	0.3	<0.1	98	0.50	0.054
104653	Soil		0.3	120.9	1.2	24	<0.1	8.0	11.5	154	2.23	0.6	0.2	1.8	1.8	8	<0.1	0.1	<0.1	59	0.24	0.013
104654	Soil		0.4	103.5	2.5	28	<0.1	12.7	13.2	190	1.89	1.0	0.2	1.3	1.0	12	<0.1	<0.1	<0.1	57	0.27	0.030
104655	Soil		0.4	66.2	4.7	73	<0.1	16.8	18.1	457	3.84	1.8	0.3	0.7	0.9	15	<0.1	0.1	<0.1	121	0.25	0.020
104656	Soil		<0.1	112.2	1.5	40	<0.1	16.8	17.0	446	3.24	<0.5	0.3	1.2	0.8	21	<0.1	<0.1	<0.1	89	0.54	0.051
104657	Soil		0.2	92.7	5.8	54	<0.1	10.0	16.2	742	3.95	1.4	0.4	1.5	0.7	17	<0.1	0.2	<0.1	119	0.60	0.075
104658	Soil		0.2	110.6	1.1	41	<0.1	11.0	19.4	410	3.37	1.1	0.3	1.0	0.8	14	<0.1	0.1	<0.1	120	0.50	0.076
104659	Soil		0.3	116.3	3.6	30	<0.1	12.0	12.5	198	2.36	3.6	0.2	0.8	0.8	13	<0.1	0.2	<0.1	70	0.30	0.019
104660	Soil		0.2	133.8	1.8	54	<0.1	9.1	17.9	491	4.29	1.5	0.3	1.2	0.9	24	<0.1	<0.1	<0.1	140	0.68	0.077
104661	Soil		0.3	94.9	1.9	47	<0.1	26.1	23.0	384	3.07	1.7	0.2	<0.5	0.7	12	<0.1	<0.1	<0.1	82	0.41	0.066

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
102479	Soil	21	17	0.48	129	0.094	<1	1.72	0.012	0.21	<0.1	0.02	2.1	0.1	<0.05	5	<0.5	<0.2
102480	Soil	9	22	0.59	165	0.109	1	2.01	0.012	0.19	0.1	0.02	2.4	0.1	<0.05	6	<0.5	<0.2
102481	Soil	11	18	0.64	135	0.148	<1	1.72	0.008	0.33	0.1	0.02	2.2	0.3	<0.05	7	<0.5	<0.2
102482	Soil	19	7	0.29	70	0.072	<1	1.09	0.228	0.88	<0.1	0.01	2.0	0.4	1.83	6	3.0	1.0
102483	Soil	15	30	0.47	165	0.077	<1	1.53	0.013	0.05	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
102484	Soil	24	21	0.40	136	0.083	<1	1.96	0.010	0.17	<0.1	0.03	2.2	<0.1	<0.05	6	0.5	<0.2
102485	Soil	17	20	0.71	186	0.095	<1	2.05	0.026	0.26	<0.1	0.02	3.4	0.1	0.20	7	0.7	<0.2
102486	Soil	13	26	0.52	323	0.066	1	1.52	0.024	0.05	0.2	0.04	3.3	<0.1	<0.05	4	0.7	<0.2
102487	Soil	13	26	0.54	274	0.065	1	1.23	0.025	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
102488	Soil	12	28	0.66	285	0.069	2	1.37	0.029	0.07	0.1	0.04	3.2	<0.1	<0.05	4	0.6	<0.2
104642	Soil	40	18	0.97	191	0.096	2	2.03	0.008	0.48	<0.1	0.01	8.8	0.3	<0.05	7	<0.5	<0.2
104643	Soil	6	35	1.08	215	0.085	3	1.76	0.011	0.23	<0.1	0.11	7.8	0.2	<0.05	5	<0.5	<0.2
104644	Soil	40	22	0.71	193	0.111	1	1.86	0.007	0.44	<0.1	0.32	11.6	0.2	<0.05	8	<0.5	<0.2
104645	Soil	5	27	0.70	234	0.097	2	1.82	0.006	0.41	<0.1	0.32	14.6	0.2	<0.05	7	0.7	<0.2
104646	Soil	11	21	0.78	381	0.112	2	2.07	0.016	0.48	<0.1	0.03	9.0	<0.1	<0.05	7	<0.5	<0.2
104647	Soil	18	15	0.75	173	0.141	3	1.78	0.008	0.79	<0.1	0.05	8.6	0.4	<0.05	8	<0.5	<0.2
104648	Soil	24	27	0.51	357	0.079	2	1.42	0.010	0.24	0.1	0.21	7.1	0.2	<0.05	6	<0.5	<0.2
104649	Soil	17	26	0.39	237	0.059	<1	1.14	0.008	0.21	<0.1	0.11	9.7	0.1	<0.05	5	<0.5	<0.2
104650	Soil	11	49	1.05	799	0.162	<1	1.89	0.009	0.90	<0.1	0.07	13.1	0.8	<0.05	9	<0.5	0.2
104651	Soil	22	4	1.28	493	0.079	<1	2.04	0.016	0.97	<0.1	0.01	12.3	0.2	<0.05	9	<0.5	<0.2
104652	Soil	7	14	0.90	351	0.016	1	1.42	0.008	0.21	<0.1	0.04	17.0	0.1	<0.05	4	<0.5	<0.2
104653	Soil	4	8	0.62	42	0.029	<1	1.09	0.023	0.01	<0.1	0.01	5.2	<0.1	<0.05	3	<0.5	<0.2
104654	Soil	5	19	1.10	192	0.091	1	1.35	0.016	0.25	<0.1	<0.01	2.5	0.1	<0.05	3	<0.5	<0.2
104655	Soil	8	22	1.74	466	0.181	<1	2.61	0.016	0.76	<0.1	<0.01	4.8	0.4	<0.05	7	<0.5	<0.2
104656	Soil	4	22	2.00	232	0.034	1	2.06	0.018	0.31	<0.1	0.01	10.2	<0.1	<0.05	5	<0.5	<0.2
104657	Soil	4	8	0.84	190	0.022	<1	1.55	0.033	0.07	<0.1	0.01	10.6	<0.1	<0.05	5	<0.5	<0.2
104658	Soil	5	11	1.05	269	0.140	<1	1.91	0.025	0.35	<0.1	<0.01	6.2	0.1	<0.05	5	<0.5	<0.2
104659	Soil	2	14	0.89	88	0.090	<1	1.53	0.026	0.06	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
104660	Soil	4	9	1.53	243	0.077	<1	2.28	0.037	0.33	<0.1	0.01	12.6	0.1	<0.05	7	<0.5	<0.2
104661	Soil	3	54	1.46	220	0.157	<1	1.95	0.021	0.71	<0.1	<0.01	4.5	0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
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Page: 5 of 12 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	
104662	Soil	0.6	29.3	10.0	56	<0.1	17.8	11.8	310	3.18	6.1	0.6	2.1	3.0	19	<0.1	0.6	0.1	70	0.26	0.016
104663	Soil	1.2	66.2	19.4	92	<0.1	26.0	19.0	729	5.55	9.6	1.0	3.0	5.4	25	<0.1	0.2	0.2	155	0.39	0.025
104664	Soil	0.6	26.7	7.8	73	<0.1	9.4	13.9	655	3.82	1.5	0.7	1.0	3.8	21	<0.1	0.3	<0.1	77	0.40	0.047
104665	Soil	0.5	9.3	5.1	40	<0.1	4.2	3.2	442	2.37	2.8	0.5	1.0	3.6	11	<0.1	0.2	<0.1	13	0.12	0.017
104666	Soil	0.4	33.2	6.9	27	0.1	16.0	9.8	214	1.52	2.7	0.2	<0.5	1.0	115	<0.1	0.2	<0.1	33	1.07	0.038
104667	Soil	0.2	19.3	6.7	78	<0.1	11.0	14.2	570	3.28	2.0	0.4	<0.5	0.4	95	<0.1	<0.1	<0.1	76	1.52	0.055
104668	Soil	0.2	22.1	6.3	40	<0.1	4.8	7.4	235	1.85	2.3	0.3	<0.5	1.4	90	<0.1	<0.1	<0.1	46	1.40	0.025
104669	Soil	0.7	22.5	10.2	63	<0.1	12.1	12.1	460	3.12	5.3	0.5	0.5	2.4	59	<0.1	0.1	<0.1	68	0.87	0.029
104670	Soil	0.8	42.6	17.4	157	<0.1	26.4	8.8	609	4.09	3.9	1.4	<0.5	14.2	41	<0.1	0.4	0.5	87	0.42	0.046
104671	Soil	1.0	29.6	9.4	193	<0.1	15.3	6.8	457	2.92	3.8	1.2	1.4	11.7	19	<0.1	0.2	<0.1	44	0.17	0.014
104672	Soil	0.3	22.0	5.7	76	<0.1	9.6	4.4	684	2.96	4.1	1.4	1.8	6.1	115	<0.1	0.1	<0.1	18	1.04	0.021
104673	Soil	0.6	25.0	7.9	102	<0.1	9.2	4.6	604	3.06	1.7	1.2	<0.5	15.9	75	<0.1	0.2	<0.1	18	0.63	0.013
104674	Soil	0.9	40.3	12.9	72	<0.1	24.6	12.6	411	3.20	6.6	0.6	2.0	3.9	62	0.2	0.5	0.1	75	0.71	0.048
104675	Soil	1.0	36.9	9.4	63	<0.1	25.2	10.6	416	2.97	7.7	0.9	4.4	4.2	29	<0.1	0.6	0.1	63	0.35	0.032
104676	Soil	0.7	29.0	9.7	61	<0.1	18.3	9.9	324	2.94	5.9	1.2	2.6	3.5	36	<0.1	0.4	0.1	68	0.41	0.041
104677	Soil	0.8	14.8	9.1	90	<0.1	14.3	7.5	401	2.93	4.7	0.5	<0.5	2.6	26	<0.1	0.2	0.1	58	0.30	0.041
104678	Soil	1.5	10.8	11.3	61	<0.1	15.2	8.6	384	3.16	8.1	0.4	<0.5	2.1	18	<0.1	0.3	0.2	59	0.21	0.068
104679	Soil	0.2	77.8	2.0	40	<0.1	15.1	14.7	312	2.23	2.3	0.2	<0.5	1.9	62	<0.1	0.1	<0.1	60	1.04	0.176
104680	Soil	0.3	25.2	8.4	79	<0.1	7.7	17.0	645	4.80	2.8	0.2	<0.5	0.5	53	<0.1	0.2	<0.1	106	0.95	0.180
104681	Soil	0.9	20.4	7.3	107	<0.1	16.8	8.8	777	4.37	5.7	0.5	<0.5	2.7	16	<0.1	0.2	<0.1	49	0.24	0.057
104682	Soil	0.5	23.3	8.7	77	<0.1	14.0	9.4	461	3.40	6.0	0.7	<0.5	7.1	11	<0.1	0.2	<0.1	68	0.15	0.026
104683	Soil	1.0	28.0	13.5	89	<0.1	18.0	8.3	743	3.60	5.2	1.2	<0.5	7.6	31	<0.1	0.3	0.1	41	0.37	0.036
104684	Soil	1.1	31.4	72.4	144	<0.1	10.5	14.5	568	4.39	5.3	0.4	<0.5	1.5	27	<0.1	0.4	1.2	93	0.42	0.091
104685	Soil	2.7	17.3	11.9	130	0.2	10.9	9.6	1230	4.43	4.8	0.4	<0.5	2.0	16	0.2	0.6	0.2	34	0.55	0.191
104686	Soil	0.8	11.0	5.3	148	<0.1	8.0	7.1	1001	4.61	1.8	0.8	<0.5	2.1	14	<0.1	1.6	<0.1	22	0.17	0.030
104687	Soil	1.2	12.6	6.0	107	<0.1	6.2	10.6	338	3.16	1.8	0.6	<0.5	2.2	29	<0.1	0.2	<0.1	82	0.29	0.061
104688	Soil	0.7	24.7	8.2	79	<0.1	16.6	11.2	538	3.21	4.5	0.4	<0.5	2.9	22	<0.1	0.3	<0.1	70	0.41	0.063
104689	Soil	0.7	19.0	8.5	134	<0.1	10.9	6.2	617	3.27	2.7	1.0	<0.5	7.6	18	<0.1	0.3	<0.1	36	0.25	0.027
104690	Soil	0.9	30.7	22.2	257	<0.1	10.1	6.2	1322	3.90	3.7	1.0	2.0	5.0	13	0.1	0.3	0.1	31	0.20	0.058
104691	Soil	0.4	10.3	2.9	117	<0.1	6.5	18.8	929	4.84	2.4	0.3	<0.5	1.1	26	<0.1	0.1	<0.1	133	0.59	0.130

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 Val D'Or QC J9P 1S5 Canada

Project: Rosebute  
 Report Date: August 09, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
104662	Soil	9	32	0.86	194	0.103	<1	1.66	0.013	0.21	<0.1	0.01	5.4	0.1	<0.05	5	<0.5	<0.2
104663	Soil	13	64	1.82	460	0.151	<1	2.88	0.014	0.72	<0.1	0.02	13.9	0.4	<0.05	10	<0.5	<0.2
104664	Soil	7	19	1.07	260	0.076	2	1.89	0.008	0.35	<0.1	0.01	6.5	0.1	<0.05	7	<0.5	<0.2
104665	Soil	10	6	0.29	88	0.015	<1	0.94	0.008	0.06	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
104666	Soil	3	33	0.54	116	0.039	<1	2.63	0.013	0.12	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
104667	Soil	6	15	1.04	495	0.183	<1	3.59	0.016	0.64	<0.1	<0.01	4.4	0.2	<0.05	10	<0.5	<0.2
104668	Soil	3	9	0.42	179	0.085	<1	2.65	0.016	0.27	<0.1	<0.01	3.4	0.1	<0.05	7	<0.5	<0.2
104669	Soil	8	21	0.70	267	0.158	<1	2.85	0.019	0.15	<0.1	<0.01	6.2	<0.1	<0.05	9	<0.5	<0.2
104670	Soil	18	33	0.64	224	0.252	8	2.62	0.010	0.73	0.1	<0.01	7.4	0.4	0.12	14	<0.5	<0.2
104671	Soil	10	22	0.45	161	0.144	2	2.17	0.009	0.43	<0.1	0.01	5.6	0.3	<0.05	9	<0.5	<0.2
104672	Soil	29	11	0.36	123	0.117	<1	2.37	0.010	0.22	<0.1	0.01	12.5	<0.1	<0.05	11	<0.5	<0.2
104673	Soil	26	11	0.39	114	0.114	<1	2.21	0.008	0.14	<0.1	0.02	6.4	<0.1	<0.05	12	<0.5	<0.2
104674	Soil	13	36	0.75	264	0.120	1	2.10	0.024	0.18	<0.1	0.03	6.8	<0.1	<0.05	7	<0.5	<0.2
104675	Soil	15	35	0.64	289	0.101	<1	1.81	0.014	0.08	0.1	0.04	6.7	<0.1	<0.05	5	<0.5	<0.2
104676	Soil	13	32	0.62	270	0.112	<1	1.85	0.016	0.10	<0.1	0.03	6.3	<0.1	<0.05	6	<0.5	<0.2
104677	Soil	8	23	0.51	171	0.108	2	1.90	0.011	0.15	<0.1	0.01	4.0	<0.1	<0.05	8	<0.5	<0.2
104678	Soil	8	30	0.51	113	0.098	<1	1.70	0.010	0.13	0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
104679	Soil	7	21	0.85	158	0.097	<1	1.68	0.040	0.06	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
104680	Soil	1	7	1.18	186	0.247	<1	2.71	0.025	0.38	<0.1	<0.01	5.1	<0.1	<0.05	10	<0.5	<0.2
104681	Soil	7	19	0.96	277	0.197	<1	2.25	0.007	0.91	<0.1	<0.01	8.7	0.2	<0.05	10	<0.5	<0.2
104682	Soil	8	20	0.70	175	0.175	<1	1.81	0.008	0.67	<0.1	<0.01	5.2	0.3	<0.05	8	<0.5	<0.2
104683	Soil	25	26	0.66	195	0.122	<1	2.16	0.008	0.41	<0.1	0.02	6.8	0.1	<0.05	9	<0.5	<0.2
104684	Soil	4	15	1.56	249	0.129	2	2.31	0.007	0.77	<0.1	0.02	4.1	0.3	<0.05	11	<0.5	<0.2
104685	Soil	6	14	0.77	352	0.111	<1	1.87	0.014	0.51	<0.1	0.02	6.8	0.1	0.07	8	<0.5	<0.2
104686	Soil	8	6	0.23	346	0.010	3	0.72	0.003	0.23	<0.1	0.43	10.0	<0.1	<0.05	4	<0.5	<0.2
104687	Soil	8	10	1.06	346	0.176	<1	2.03	0.006	0.68	<0.1	0.02	1.8	0.3	<0.05	8	<0.5	<0.2
104688	Soil	10	24	0.82	247	0.136	<1	1.52	0.016	0.41	<0.1	0.02	5.4	0.1	<0.05	6	<0.5	<0.2
104689	Soil	28	16	0.69	207	0.112	<1	1.54	0.006	0.38	<0.1	0.03	8.2	0.1	<0.05	8	<0.5	<0.2
104690	Soil	46	12	0.57	222	0.153	<1	1.67	0.006	0.71	<0.1	0.03	10.5	0.8	<0.05	9	<0.5	<0.2
104691	Soil	6	8	1.49	312	0.200	<1	2.52	0.018	1.27	<0.1	<0.01	5.2	0.6	<0.05	8	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
104692	Soil	0.8	11.3	6.1	228	<0.1	10.4	5.5	732	4.19	4.4	0.6	<0.5	4.3	9	<0.1	0.2	<0.1	22	0.11	0.033
104693	Soil	0.8	11.3	14.1	58	<0.1	14.1	5.1	315	2.18	6.2	0.5	1.0	2.0	13	<0.1	0.4	<0.1	32	0.13	0.014
104694	Soil	0.5	19.9	2.9	358	<0.1	8.8	11.8	1699	5.34	2.1	0.9	24.3	3.5	13	0.1	<0.1	<0.1	62	0.43	0.108
104695	Soil	0.9	27.3	58.7	220	<0.1	9.8	4.5	1098	4.18	5.2	1.2	0.8	6.1	13	0.1	0.3	0.6	22	0.13	0.024
104696	Soil	0.9	15.9	14.6	53	<0.1	16.3	8.9	287	2.60	8.1	0.6	1.0	3.4	14	<0.1	0.4	0.2	54	0.14	0.029
104697	Soil	1.3	15.0	11.0	130	<0.1	7.1	4.7	490	2.55	4.2	0.9	0.7	3.7	15	<0.1	0.8	0.1	38	0.19	0.033
104698	Soil	0.8	16.8	7.7	100	<0.1	8.6	7.9	689	3.51	3.6	0.9	<0.5	7.6	12	<0.1	0.3	<0.1	26	0.17	0.039
104699	Soil	1.1	12.9	8.0	73	<0.1	9.1	4.5	539	2.69	4.2	0.8	<0.5	5.2	14	<0.1	0.4	<0.1	17	0.14	0.020
104700	Soil	0.5	10.9	3.3	71	<0.1	7.6	12.6	476	3.93	4.0	0.5	<0.5	1.9	13	<0.1	0.2	<0.1	43	0.48	0.137
104701	Soil	0.7	21.1	1.3	100	<0.1	3.4	9.9	1090	4.99	2.5	0.5	0.6	0.9	21	<0.1	0.2	<0.1	44	0.64	0.165
104702	Soil	1.2	22.5	10.2	80	<0.1	19.3	10.0	390	3.80	11.8	0.5	1.6	4.2	11	<0.1	0.6	0.1	57	0.12	0.021
104703	Soil	3.1	17.1	10.2	101	<0.1	17.2	6.5	715	3.54	7.4	0.7	2.4	3.9	15	0.2	0.6	0.1	42	0.16	0.023
104704	Soil	36.2	26.9	37.0	148	<0.1	15.6	7.6	752	3.97	6.0	1.3	<0.5	4.7	17	<0.1	0.4	0.5	37	0.18	0.016
104705	Soil	0.3	31.0	1.4	60	<0.1	37.9	24.3	429	3.21	2.1	0.2	<0.5	0.5	18	<0.1	<0.1	<0.1	83	0.37	0.023
104706	Soil	0.4	125.7	3.2	59	<0.1	9.8	23.0	514	5.24	2.2	0.4	0.9	0.7	21	<0.1	0.8	<0.1	180	0.69	0.054
104707	Soil	1.0	33.3	7.8	40	<0.1	17.5	10.8	230	2.73	7.9	0.4	<0.5	2.6	12	<0.1	0.4	0.1	68	0.22	0.042
104708	Soil	0.6	36.5	4.7	75	<0.1	8.2	17.6	407	4.57	5.2	0.5	<0.5	2.9	15	<0.1	0.2	<0.1	135	0.42	0.079
104709	Soil	1.1	20.9	9.5	36	<0.1	18.5	9.7	521	2.71	8.0	0.7	1.1	2.6	16	<0.1	0.6	0.1	55	0.17	0.041
104710	Soil	0.5	76.6	4.8	50	<0.1	25.4	20.2	469	3.34	5.3	0.6	<0.5	1.8	25	<0.1	0.3	0.1	107	0.47	0.018
104711	Soil	0.5	68.9	2.7	70	<0.1	16.4	17.0	489	3.86	3.4	0.3	<0.5	0.9	20	<0.1	0.1	<0.1	130	0.30	0.042
104712	Soil	0.5	51.7	5.1	35	<0.1	29.5	13.8	184	2.36	6.8	0.3	1.2	1.3	10	<0.1	0.3	<0.1	54	0.11	0.015
104713	Soil	0.5	16.2	7.8	27	0.2	10.9	5.7	120	2.03	7.1	0.3	<0.5	1.6	9	<0.1	0.3	0.2	55	0.11	0.024
104714	Soil	0.5	30.6	4.5	94	<0.1	7.5	21.6	612	5.05	1.6	0.3	<0.5	0.8	13	<0.1	0.1	<0.1	135	0.56	0.161
104715	Soil	0.6	64.2	6.7	62	<0.1	16.3	17.2	468	3.55	3.0	0.5	<0.5	1.9	23	<0.1	0.3	<0.1	97	0.47	0.062
104716	Soil	0.8	32.9	7.5	61	<0.1	12.6	12.4	387	3.59	4.3	0.4	<0.5	1.8	20	<0.1	0.3	0.1	86	0.46	0.087
104717	Soil	2.3	17.3	8.5	54	<0.1	10.9	7.1	262	2.43	4.3	0.6	<0.5	2.5	18	<0.1	0.4	0.2	52	0.24	0.031
105676	Soil	0.4	27.8	5.6	38	<0.1	26.7	20.8	253	2.77	4.0	0.3	<0.5	1.2	12	<0.1	0.2	<0.1	83	0.25	0.027
105677	Soil	0.6	64.9	3.3	54	<0.1	10.8	21.4	324	3.66	5.8	0.3	<0.5	1.5	18	<0.1	0.7	<0.1	118	0.30	0.023
105678	Soil	2.4	7.2	17.4	77	<0.1	6.5	14.3	610	4.84	<0.5	1.5	<0.5	15.0	15	<0.1	0.4	<0.1	68	0.29	0.072
105679	Soil	1.2	26.4	10.3	44	0.1	23.8	9.6	308	2.56	8.1	0.8	0.9	3.5	29	<0.1	0.6	0.2	49	0.43	0.049

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**Report Date:** August 09, 2011

**Page:** 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.01	0.1	0.05	0.2		
104692	Soil			12	15	0.55	218	0.190	<1	2.21	0.007	0.58	<0.1	0.02	8.3	0.3	<0.05	10	<0.5	<0.2
104693	Soil			5	23	0.30	139	0.035	<1	1.34	0.008	0.11	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
104694	Soil			51	9	1.18	313	0.237	<1	2.41	0.009	1.24	<0.1	0.02	7.1	0.7	<0.05	12	<0.5	<0.2
104695	Soil			30	15	0.45	251	0.152	<1	1.64	0.009	0.56	<0.1	0.01	12.0	0.2	<0.05	9	<0.5	<0.2
104696	Soil			12	28	0.40	226	0.058	1	1.78	0.009	0.06	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
104697	Soil			15	9	0.36	275	0.056	<1	1.10	0.005	0.19	<0.1	0.18	4.6	0.1	<0.05	5	<0.5	<0.2
104698	Soil			32	14	0.59	195	0.141	<1	1.63	0.006	0.50	<0.1	0.02	6.3	0.3	<0.05	8	<0.5	<0.2
104699	Soil			15	12	0.17	186	0.013	<1	1.16	0.006	0.11	<0.1	0.06	4.7	<0.1	<0.05	4	<0.5	<0.2
104700	Soil			10	10	0.86	208	0.173	<1	2.03	0.018	0.51	<0.1	<0.01	5.4	0.2	<0.05	8	<0.5	<0.2
104701	Soil			11	4	1.18	341	0.120	<1	2.04	0.007	0.59	<0.1	0.08	14.5	0.3	<0.05	11	<0.5	<0.2
104702	Soil			9	34	0.44	198	0.062	<1	2.41	0.008	0.10	<0.1	0.05	6.5	<0.1	<0.05	6	<0.5	<0.2
104703	Soil			12	29	0.32	181	0.025	<1	1.69	0.009	0.06	<0.1	0.10	9.1	<0.1	<0.05	6	<0.5	<0.2
104704	Soil			29	24	0.51	222	0.109	<1	1.84	0.008	0.15	<0.1	0.06	11.1	0.1	<0.05	9	<0.5	<0.2
104705	Soil			11	45	1.79	164	0.135	<1	2.37	0.014	0.09	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
104706	Soil			6	8	0.91	536	0.042	2	1.87	0.042	0.10	<0.1	0.04	16.9	<0.1	<0.05	7	<0.5	<0.2
104707	Soil			7	27	0.45	155	0.061	<1	1.78	0.012	0.05	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
104708	Soil			11	12	1.20	225	0.168	<1	2.23	0.021	0.35	<0.1	0.01	5.0	0.1	<0.05	7	<0.5	<0.2
104709	Soil			8	27	0.37	266	0.040	<1	1.63	0.008	0.05	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
104710	Soil			8	32	1.23	219	0.124	1	1.86	0.022	0.05	<0.1	0.01	7.4	0.1	<0.05	6	<0.5	<0.2
104711	Soil			5	20	1.49	239	0.202	<1	2.40	0.011	0.35	<0.1	<0.01	2.6	0.2	<0.05	7	<0.5	<0.2
104712	Soil			4	35	0.92	100	0.087	<1	1.85	0.006	0.03	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
104713	Soil			6	19	0.31	130	0.041	<1	1.17	0.007	0.03	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
104714	Soil			3	7	1.55	274	0.162	<1	2.54	0.017	0.73	<0.1	<0.01	4.5	0.2	<0.05	8	<0.5	<0.2
104715	Soil			9	23	1.00	270	0.111	<1	1.74	0.013	0.23	<0.1	<0.01	4.7	<0.1	<0.05	6	<0.5	<0.2
104716	Soil			5	18	0.91	210	0.101	<1	1.92	0.014	0.19	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
104717	Soil			11	17	0.48	163	0.051	<1	1.32	0.009	0.11	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
105676	Soil			3	51	1.57	334	0.162	<1	2.24	0.016	0.22	<0.1	0.01	3.1	0.1	<0.05	6	<0.5	<0.2
105677	Soil			4	25	1.84	263	0.169	<1	2.26	0.019	0.25	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
105678	Soil			20	13	1.10	760	0.156	<1	2.14	0.009	0.83	0.1	0.02	6.7	0.3	<0.05	8	<0.5	<0.2
105679	Soil			14	34	0.56	692	0.051	<1	1.21	0.020	0.04	<0.1	0.06	4.0	<0.1	<0.05	4	0.8	<0.2

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
105680	Soil		2.7	66.7	466.1	124	11.9	21.5	11.2	297	3.42	507.4	1.1	1.8	4.5	29	0.4	11.4	0.3	59	0.24	0.025
105681	Soil		1.4	12.1	13.2	111	<0.1	27.3	17.9	824	5.72	2.6	1.4	<0.5	21.8	10	<0.1	0.7	0.1	67	0.19	0.075
105682	Soil		1.2	12.2	23.0	58	<0.1	13.5	7.3	249	3.07	4.6	0.5	<0.5	3.0	14	<0.1	0.4	0.3	62	0.15	0.033
105683	Soil		1.2	18.3	15.2	92	<0.1	11.0	12.1	675	3.37	2.4	1.0	<0.5	9.8	24	<0.1	0.4	0.2	67	0.27	0.051
105684	Soil		2.0	13.4	16.4	47	<0.1	17.2	7.7	218	2.82	7.0	0.5	<0.5	4.2	9	<0.1	0.5	0.3	53	0.08	0.024
105685	Soil		0.8	11.1	11.4	59	<0.1	5.5	7.4	407	2.98	1.7	1.2	<0.5	10.3	14	<0.1	0.5	0.1	43	0.25	0.050
105686	Soil		1.4	9.0	12.8	72	<0.1	6.1	5.9	232	3.43	3.0	0.5	<0.5	5.5	8	<0.1	0.7	0.3	35	0.08	0.027
105687	Soil		0.8	15.9	16.3	94	<0.1	11.1	9.2	608	3.38	3.7	0.7	<0.5	6.3	7	<0.1	0.3	0.3	55	0.07	0.022
105688	Soil		0.9	24.4	11.7	58	<0.1	19.2	11.4	308	2.93	7.4	0.7	<0.5	4.1	14	<0.1	0.4	0.1	58	0.13	0.026
105689	Soil		0.6	12.4	6.1	72	<0.1	13.2	10.5	260	2.11	3.8	0.3	<0.5	1.8	17	<0.1	0.2	<0.1	42	0.19	0.053
105690	Soil		0.3	8.9	4.0	89	<0.1	6.2	9.9	312	1.98	1.5	0.2	<0.5	0.8	22	<0.1	0.2	<0.1	39	0.28	0.076
105691	Soil		3.4	84.1	7.0	84	<0.1	48.6	25.7	453	4.10	2.2	1.0	<0.5	1.1	21	<0.1	0.3	0.1	101	0.43	0.080
105692	Soil		1.5	45.8	9.4	76	<0.1	23.8	17.8	412	3.45	1.2	0.3	<0.5	0.8	14	<0.1	0.4	<0.1	94	0.37	0.084
105693	Soil		0.9	21.1	8.9	55	<0.1	17.5	11.9	355	3.27	7.6	0.4	<0.5	1.9	14	<0.1	0.5	0.1	75	0.26	0.061
105694	Soil		0.7	25.7	14.1	77	<0.1	14.3	12.2	304	3.27	6.1	0.4	<0.5	1.6	18	<0.1	0.3	0.1	77	0.29	0.040
105695	Soil		0.5	23.7	17.1	59	<0.1	12.9	10.5	251	2.65	4.1	0.4	<0.5	1.4	17	<0.1	0.2	0.2	68	0.32	0.060
105696	Soil		0.6	20.4	14.4	68	<0.1	11.5	10.0	271	2.68	3.4	0.4	<0.5	1.3	21	<0.1	0.2	0.1	72	0.29	0.044
105697	Soil		0.8	20.7	6.8	143	<0.1	5.9	15.2	1097	5.55	<0.5	0.6	<0.5	1.8	16	0.1	0.2	<0.1	46	0.73	0.217
105698	Soil		1.0	15.8	12.3	63	<0.1	13.6	8.5	327	3.02	4.3	0.5	0.7	2.4	18	<0.1	0.4	0.1	57	0.31	0.054
105699	Soil		1.0	11.6	9.2	66	<0.1	11.1	7.8	399	2.75	3.9	0.4	<0.5	1.9	17	0.1	0.3	0.1	54	0.29	0.041
105700	Soil		0.9	12.5	10.1	60	<0.1	11.4	9.1	350	2.70	4.1	0.5	3.5	2.0	20	0.1	0.4	0.1	54	0.38	0.045
105701	Soil		0.6	11.5	8.0	65	<0.1	11.0	7.5	303	2.51	3.5	0.5	<0.5	2.4	16	<0.1	0.3	<0.1	53	0.26	0.039
105702	Soil		1.1	11.5	9.1	76	<0.1	12.8	7.7	373	2.80	3.8	0.4	1.5	2.5	17	<0.1	0.3	0.1	56	0.30	0.048
105703	Soil		1.0	13.7	8.2	70	0.1	11.1	8.0	428	2.63	3.9	0.6	<0.5	2.6	18	0.1	0.3	0.1	53	0.30	0.045
105704	Soil		0.7	10.7	8.2	79	<0.1	10.8	6.9	349	2.50	3.7	0.5	<0.5	2.5	19	<0.1	0.3	0.1	47	0.29	0.045
105705	Soil		0.7	14.3	8.3	69	<0.1	13.6	7.4	314	2.45	6.0	0.7	4.2	2.6	21	0.1	0.4	0.1	54	0.29	0.038
107628	Soil		0.8	27.0	9.7	80	<0.1	21.1	11.2	381	2.93	8.1	1.0	1.5	4.2	41	0.2	0.5	0.2	64	0.21	0.037
107629	Soil		1.4	34.2	11.4	98	0.1	27.9	17.2	454	4.50	3.6	1.6	<0.5	9.9	43	0.1	0.2	0.3	99	0.12	0.071
107630	Soil		1.0	22.7	10.8	63	0.3	23.5	10.6	288	3.00	9.8	0.8	1.4	5.4	16	<0.1	0.5	0.2	66	0.10	0.032
107631	Soil		0.9	28.0	11.9	96	0.2	28.8	11.3	266	3.19	7.5	0.8	1.4	9.4	17	0.2	0.5	0.2	61	0.12	0.019

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
105680	Soil	14	36	0.52	550	0.046	<1	1.66	0.012	0.07	0.2	0.58	6.0	<0.1	<0.05	5	<0.5	<0.2
105681	Soil	32	81	1.25	275	0.043	<1	2.38	0.006	0.35	<0.1	<0.01	6.0	0.1	<0.05	11	<0.5	<0.2
105682	Soil	6	47	0.61	141	0.086	<1	1.67	0.007	0.09	0.1	0.01	4.2	0.1	<0.05	8	<0.5	<0.2
105683	Soil	36	16	1.22	229	0.154	<1	2.07	0.008	0.54	<0.1	<0.01	4.8	0.3	<0.05	10	<0.5	<0.2
105684	Soil	8	29	0.37	137	0.042	<1	1.79	0.006	0.05	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
105685	Soil	20	11	0.54	126	0.093	<1	1.47	0.006	0.35	<0.1	<0.01	4.7	0.3	<0.05	6	<0.5	<0.2
105686	Soil	14	11	0.47	94	0.004	<1	1.59	0.004	0.05	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
105687	Soil	8	20	0.87	110	0.136	<1	2.13	0.007	0.44	0.1	<0.01	5.9	0.3	<0.05	9	<0.5	<0.2
105688	Soil	9	25	0.64	169	0.068	<1	2.08	0.008	0.09	<0.1	<0.01	3.2	<0.1	<0.05	7	<0.5	<0.2
105689	Soil	5	18	0.83	155	0.086	<1	1.79	0.007	0.27	<0.1	<0.01	1.3	0.2	<0.05	5	<0.5	<0.2
105690	Soil	4	9	1.07	151	0.092	<1	1.90	0.006	0.42	<0.1	<0.01	0.6	0.3	<0.05	5	<0.5	<0.2
105691	Soil	9	113	1.58	238	0.155	<1	2.49	0.020	0.36	<0.1	<0.01	4.5	0.2	<0.05	7	0.5	<0.2
105692	Soil	4	68	1.59	137	0.153	<1	2.43	0.015	0.22	<0.1	<0.01	4.2	0.1	<0.05	7	<0.5	<0.2
105693	Soil	7	30	0.64	163	0.055	<1	1.93	0.013	0.04	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
105694	Soil	6	27	0.81	174	0.090	<1	1.90	0.015	0.04	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
105695	Soil	5	22	0.72	164	0.099	<1	1.57	0.017	0.07	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
105696	Soil	5	20	0.81	172	0.103	<1	1.59	0.011	0.07	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
105697	Soil	13	8	1.30	402	0.115	<1	2.49	0.011	0.87	<0.1	<0.01	10.2	0.3	<0.05	11	0.5	<0.2
105698	Soil	8	23	0.61	174	0.072	<1	1.66	0.013	0.07	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
105699	Soil	7	19	0.52	190	0.085	<1	1.35	0.010	0.09	0.1	0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
105700	Soil	7	20	0.50	180	0.070	<1	1.58	0.012	0.07	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
105701	Soil	8	21	0.56	163	0.088	<1	1.46	0.011	0.06	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
105702	Soil	7	22	0.59	162	0.093	<1	1.67	0.012	0.14	0.2	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
105703	Soil	10	20	0.56	210	0.090	<1	1.51	0.013	0.09	0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
105704	Soil	9	20	0.54	184	0.085	<1	1.37	0.012	0.10	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
105705	Soil	11	24	0.48	217	0.078	1	1.52	0.011	0.05	0.1	0.04	3.4	<0.1	0.05	5	<0.5	<0.2
107628	Soil	16	35	0.73	285	0.106	<1	2.07	0.012	0.23	<0.1	0.03	4.7	0.2	<0.05	5	<0.5	<0.2
107629	Soil	29	58	1.35	205	0.144	<1	2.99	0.011	0.79	<0.1	0.01	6.7	0.7	0.09	8	<0.5	<0.2
107630	Soil	11	37	0.59	159	0.086	1	2.23	0.010	0.07	0.1	0.03	2.9	0.1	<0.05	6	<0.5	<0.2
107631	Soil	15	40	0.68	186	0.127	1	2.48	0.009	0.19	0.1	0.01	2.7	0.2	<0.05	6	<0.5	<0.2

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Page: 8 of 12 Part 1

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			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
107632	Soil		0.9	25.2	6.6	60	<0.1	30.8	12.5	306	3.51	5.7	1.2	1.3	9.1	16	0.1	0.3	0.3	55	0.11	0.033
107633	Soil		1.0	32.4	8.2	61	<0.1	29.0	12.1	329	2.89	5.4	2.0	3.5	10.0	22	<0.1	0.3	0.2	56	0.15	0.016
107634	Soil		1.3	24.5	26.1	129	<0.1	19.7	8.4	305	3.02	8.8	1.1	0.6	6.5	17	0.2	0.5	0.4	61	0.15	0.021
107635	Soil		1.0	23.7	8.2	97	<0.1	12.7	12.3	441	2.97	4.3	2.8	1.1	12.4	37	0.1	0.3	0.5	46	0.32	0.019
107636	Soil		0.9	12.7	8.6	69	<0.1	14.2	9.3	456	2.98	6.3	1.6	1.0	13.2	36	<0.1	0.3	0.1	55	0.41	0.025
107637	Soil		1.2	17.7	7.8	63	<0.1	7.0	6.9	372	3.17	4.6	1.6	1.2	8.4	22	<0.1	0.2	0.2	63	0.16	0.028
107638	Soil		0.7	24.9	4.5	80	<0.1	8.6	13.4	779	4.17	3.4	1.9	2.3	10.8	64	<0.1	0.2	<0.1	97	0.31	0.038
107639	Soil		0.7	25.5	6.4	88	<0.1	10.0	15.2	643	4.09	4.6	0.4	0.5	2.5	52	<0.1	0.2	<0.1	106	0.25	0.051
107640	Soil		0.6	22.7	5.8	118	<0.1	11.7	15.9	475	3.83	4.2	0.4	<0.5	1.6	92	<0.1	0.2	<0.1	103	0.37	0.069
107641	Soil		1.0	31.4	8.5	46	<0.1	21.7	8.0	230	2.64	8.5	1.3	4.0	6.3	18	<0.1	0.5	0.2	61	0.17	0.015
107642	Soil		0.8	64.1	5.0	48	<0.1	11.6	14.5	527	3.46	3.7	1.4	<0.5	8.5	18	<0.1	0.3	<0.1	95	0.24	0.021
107643	Soil		0.8	19.5	6.9	74	<0.1	16.4	12.0	699	3.06	7.0	1.8	1.2	10.2	18	0.1	0.4	0.1	59	0.19	0.047
107644	Soil		1.2	19.9	11.5	51	<0.1	21.4	12.9	309	3.06	9.0	1.0	1.3	5.9	14	<0.1	0.5	0.2	73	0.12	0.027
107645	Soil		0.6	43.1	32.6	48	<0.1	85.7	15.8	374	3.43	6.2	1.6	1.2	9.0	88	<0.1	0.3	0.3	87	0.95	0.035
107646	Soil		3.3	27.3	23.5	54	0.1	13.7	4.9	295	4.47	7.2	2.0	0.8	17.3	77	<0.1	0.2	0.5	78	0.18	0.087
107647	Soil		1.0	28.2	8.1	82	<0.1	12.3	7.2	470	3.22	4.6	2.5	2.1	14.9	50	<0.1	0.3	0.3	60	0.15	0.032
107648	Soil		2.3	29.6	16.9	63	0.2	4.3	2.4	266	2.79	3.5	1.6	1.2	13.6	55	0.1	0.1	1.0	51	0.07	0.059
107649	Soil		1.3	26.2	8.3	119	<0.1	18.1	13.7	599	3.76	4.7	0.6	1.9	2.3	14	0.1	0.3	0.1	77	0.26	0.074
107650	Soil		1.1	59.7	3.8	55	<0.1	20.8	18.7	337	3.28	2.8	0.9	2.8	2.7	48	<0.1	0.2	<0.1	87	0.80	0.065
107651	Soil		0.7	35.4	5.5	49	<0.1	18.5	11.9	293	2.45	3.3	0.6	1.9	3.3	44	<0.1	0.2	<0.1	64	0.65	0.049
107652	Soil		0.5	21.5	6.6	53	<0.1	13.6	9.5	378	2.66	4.3	0.9	2.0	6.9	40	<0.1	0.3	0.1	60	0.51	0.049
107653	Soil		0.5	61.8	6.0	67	<0.1	18.1	13.1	424	3.46	5.1	1.3	2.1	16.5	63	<0.1	0.3	<0.1	84	0.69	0.095
107654	Soil		0.3	58.0	3.2	30	<0.1	14.5	15.9	338	2.59	2.9	0.2	3.0	0.8	27	<0.1	0.2	<0.1	94	0.78	0.041
107655	Soil		0.2	100.0	2.2	56	<0.1	14.2	24.1	438	3.18	2.7	0.2	4.6	0.6	38	<0.1	0.1	<0.1	81	1.62	0.393
107656	Soil		<0.1	160.9	0.9	24	<0.1	11.3	45.2	244	4.19	2.2	0.2	2.8	0.5	53	<0.1	<0.1	<0.1	166	1.34	0.048
107657	Soil		0.4	23.7	6.3	144	<0.1	15.1	13.9	953	5.24	2.6	1.1	<0.5	13.0	58	<0.1	0.2	<0.1	109	0.89	0.131
107658	Soil		1.2	44.3	12.4	62	<0.1	28.1	13.9	380	3.17	9.6	0.7	3.9	3.7	28	<0.1	0.5	0.2	80	0.33	0.015
107659	Soil		0.7	24.2	7.1	81	<0.1	17.7	10.3	641	4.64	7.6	1.0	4.4	4.9	19	<0.1	0.4	0.1	54	0.31	0.046
107660	Soil		0.7	21.9	15.0	89	<0.1	17.9	7.6	396	3.14	6.9	1.6	1.1	10.6	53	<0.1	0.3	0.1	41	0.45	0.037
109667	Soil		1.1	49.7	9.1	89	<0.1	40.7	19.0	504	3.97	3.4	1.7	2.8	17.4	10	<0.1	0.2	0.2	54	0.09	0.033

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	0.1	0.01	0.1	0.05	0.5	0.2	
107632	Soil	18	41	0.89	165	0.197	<1	2.38	0.007	0.53	<0.1	0.02	3.0	0.5	<0.05	7	<0.5	<0.2
107633	Soil	31	43	0.82	206	0.156	1	2.11	0.010	0.24	0.1	0.02	3.4	0.3	<0.05	6	0.5	<0.2
107634	Soil	9	31	0.57	162	0.100	1	2.33	0.009	0.11	0.1	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
107635	Soil	32	19	0.64	199	0.135	<1	1.83	0.012	0.36	<0.1	0.03	3.7	0.3	<0.05	6	<0.5	<0.2
107636	Soil	24	23	0.70	182	0.103	<1	2.47	0.011	0.25	<0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
107637	Soil	15	15	0.68	123	0.132	<1	1.92	0.009	0.34	<0.1	0.02	2.7	0.2	<0.05	7	<0.5	<0.2
107638	Soil	62	13	1.37	232	0.250	<1	3.00	0.014	1.03	<0.1	0.01	3.9	0.6	<0.05	8	<0.5	<0.2
107639	Soil	4	26	1.47	207	0.225	<1	3.15	0.012	0.86	<0.1	<0.01	1.4	0.4	<0.05	8	<0.5	<0.2
107640	Soil	4	20	1.46	252	0.268	<1	3.16	0.015	0.66	<0.1	0.01	1.2	0.3	<0.05	10	<0.5	<0.2
107641	Soil	16	36	0.58	183	0.099	<1	1.85	0.012	0.07	0.1	0.03	4.9	0.1	<0.05	5	<0.5	<0.2
107642	Soil	20	21	1.16	159	0.178	<1	2.24	0.012	0.58	0.1	<0.01	5.7	0.3	<0.05	8	<0.5	<0.2
107643	Soil	16	25	0.73	182	0.139	<1	2.31	0.012	0.30	0.1	0.01	5.9	0.2	<0.05	7	<0.5	<0.2
107644	Soil	14	40	0.51	222	0.083	<1	2.50	0.011	0.05	0.1	0.01	3.7	0.1	<0.05	6	<0.5	<0.2
107645	Soil	15	52	1.61	155	0.202	<1	2.81	0.033	0.06	0.4	<0.01	3.0	<0.1	<0.05	9	<0.5	<0.2
107646	Soil	39	21	1.05	250	0.114	<1	2.11	0.034	0.53	0.1	<0.01	5.2	0.2	0.60	9	0.7	<0.2
107647	Soil	24	21	0.87	189	0.162	1	2.22	0.019	0.49	<0.1	<0.01	5.0	0.3	0.18	8	<0.5	<0.2
107648	Soil	31	15	0.48	226	0.097	<1	1.17	0.046	0.32	<0.1	<0.01	2.1	0.2	0.52	6	<0.5	0.5
107649	Soil	7	29	0.81	211	0.168	<1	2.33	0.014	0.41	<0.1	0.01	4.1	0.1	<0.05	8	<0.5	<0.2
107650	Soil	11	32	0.95	167	0.142	<1	2.04	0.030	0.10	<0.1	0.01	5.4	<0.1	<0.05	6	0.6	<0.2
107651	Soil	12	34	0.82	150	0.127	<1	1.96	0.024	0.12	<0.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
107652	Soil	22	24	0.71	169	0.144	<1	1.97	0.013	0.27	<0.1	0.02	3.0	0.2	<0.05	6	<0.5	<0.2
107653	Soil	33	31	1.15	321	0.184	<1	2.20	0.024	0.38	<0.1	0.01	6.1	0.2	<0.05	7	<0.5	<0.2
107654	Soil	2	18	0.98	103	0.094	<1	1.46	0.069	0.06	<0.1	0.01	8.7	<0.1	<0.05	5	<0.5	<0.2
107655	Soil	2	15	1.43	150	0.108	<1	1.97	0.076	0.14	<0.1	<0.01	5.9	<0.1	0.05	5	<0.5	<0.2
107656	Soil	2	13	1.64	122	0.209	<1	1.98	0.181	0.18	<0.1	0.01	10.1	<0.1	0.07	4	<0.5	<0.2
107657	Soil	19	15	1.33	121	0.265	<1	3.38	0.025	0.60	<0.1	<0.01	9.5	0.2	0.06	16	<0.5	<0.2
107658	Soil	17	40	0.79	249	0.108	<1	2.25	0.018	0.07	0.1	0.04	7.1	<0.1	<0.05	6	<0.5	<0.2
107659	Soil	23	27	0.98	225	0.183	<1	2.48	0.009	0.80	<0.1	0.02	11.1	0.2	<0.05	9	<0.5	<0.2
107660	Soil	18	26	0.47	142	0.098	<1	2.51	0.008	0.18	<0.1	0.01	7.6	0.2	<0.05	10	<0.5	<0.2
109667	Soil	23	33	1.20	236	0.149	<1	2.65	0.010	0.69	<0.1	0.03	4.0	0.5	<0.05	8	<0.5	<0.2

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 Report Date: August 09, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
109668	Soil	17.0	68.6	4.9	23	0.5	6.9	1.7	71	4.19	1.4	4.7	<0.5	18.9	86	<0.1	0.5	0.4	23	0.06	0.078
109669	Soil	0.8	19.3	9.1	66	<0.1	23.3	12.1	398	3.15	8.3	0.9	1.6	8.9	23	<0.1	0.5	0.1	53	0.13	0.028
109670	Soil	1.0	24.2	9.9	69	0.1	14.4	8.2	304	3.07	7.4	2.2	0.6	11.0	95	0.1	0.4	0.2	49	0.12	0.027
109671	Soil	0.6	92.1	4.0	63	0.2	1.8	1.6	344	4.78	<0.5	1.9	1.4	22.5	26	<0.1	<0.1	1.4	13	0.04	0.035
109672	Soil	1.0	16.2	8.8	51	<0.1	15.9	7.9	269	2.87	9.0	1.4	1.8	5.7	24	<0.1	0.4	0.3	51	0.16	0.038
109673	Soil	1.2	26.0	8.4	59	<0.1	12.8	9.3	344	2.79	6.4	1.7	1.9	6.3	32	0.1	0.3	0.3	53	0.19	0.046
109674	Soil	1.4	20.7	8.9	58	<0.1	15.2	8.0	267	2.61	6.0	1.4	2.5	6.4	23	<0.1	0.4	0.3	49	0.20	0.040
109675	Soil	0.9	18.1	8.4	54	<0.1	17.7	9.5	332	2.78	7.2	1.0	2.0	5.4	22	0.1	0.4	0.2	52	0.16	0.027
109676	Soil	1.4	21.3	6.6	55	<0.1	14.9	13.7	387	2.87	5.4	1.6	0.7	7.3	43	0.1	0.3	1.1	54	0.20	0.024
109677	Soil	1.9	27.4	9.5	42	<0.1	12.1	10.3	341	3.71	8.0	1.3	<0.5	9.1	34	<0.1	0.5	0.2	54	0.16	0.032
109678	Soil	1.2	15.8	10.0	56	<0.1	14.4	8.0	333	2.80	7.9	1.2	<0.5	8.2	24	<0.1	0.5	0.2	54	0.12	0.031
109679	Soil	1.4	11.7	8.8	51	<0.1	12.5	7.3	308	2.55	6.4	1.4	<0.5	8.3	48	<0.1	0.4	0.1	48	0.13	0.020
109680	Soil	0.8	20.6	8.8	51	<0.1	16.7	9.3	286	2.61	7.3	1.3	3.7	5.8	22	<0.1	0.4	0.2	57	0.19	0.020
109681	Soil	2.0	29.9	7.5	59	0.1	12.0	8.8	350	2.84	5.3	1.9	2.3	10.2	46	<0.1	0.3	0.3	50	0.28	0.041
109682	Soil	1.3	13.9	9.5	46	<0.1	15.4	8.1	238	2.84	8.0	1.5	4.5	6.0	23	<0.1	0.4	0.2	56	0.19	0.048
109683	Soil	0.9	21.0	8.7	45	<0.1	16.3	9.0	299	2.69	7.5	1.6	3.2	6.6	25	<0.1	0.4	0.1	55	0.22	0.021
109684	Soil	1.5	43.9	9.2	66	<0.1	11.8	7.7	346	2.90	5.1	1.8	1.6	11.8	46	<0.1	0.3	3.4	49	0.23	0.016
109685	Soil	1.2	20.2	8.8	55	<0.1	16.0	8.7	369	2.80	7.0	1.7	1.8	9.6	26	<0.1	0.4	0.2	54	0.25	0.020
109686	Soil	1.4	19.1	7.7	69	<0.1	7.7	12.5	746	3.96	4.5	2.2	<0.5	9.3	69	<0.1	0.2	0.1	88	0.20	0.055
109687	Soil	7.5	40.6	6.9	81	<0.1	4.2	6.6	540	5.07	2.6	2.8	1.0	23.2	150	<0.1	0.1	0.1	77	0.18	0.083
109688	Soil	4.2	77.3	6.6	82	0.1	12.6	11.5	403	2.66	4.8	1.8	2.0	11.7	19	0.2	0.3	0.2	54	0.12	0.024
109689	Soil	0.7	87.6	5.4	78	<0.1	14.7	9.9	568	3.32	4.9	2.0	1.6	8.0	78	<0.1	0.3	0.1	72	0.34	0.053
109690	Soil	0.8	13.4	7.0	63	<0.1	12.6	9.6	529	2.98	4.8	1.0	0.6	6.3	13	<0.1	0.2	0.1	61	0.18	0.060
109691	Soil	0.9	14.8	8.4	58	<0.1	16.6	9.3	411	3.84	8.7	0.8	1.6	4.7	15	<0.1	0.4	0.1	69	0.17	0.049
109692	Soil	0.7	22.3	7.9	51	<0.1	17.7	8.9	364	2.73	7.2	1.1	11.7	12.5	21	<0.1	0.4	0.1	58	0.23	0.017
109693	Soil	0.8	30.6	8.0	52	<0.1	23.0	8.3	332	2.63	9.0	1.9	2.8	8.6	27	<0.1	0.5	0.1	57	0.32	0.051
109694	Soil	1.0	16.5	8.5	40	<0.1	12.9	6.6	224	2.36	6.9	1.6	4.9	7.5	20	<0.1	0.3	0.2	59	0.19	0.014
109695	Soil	1.1	16.8	5.8	63	<0.1	14.1	12.0	470	3.33	5.1	2.2	<0.5	11.3	25	<0.1	0.2	0.2	51	0.20	0.030
109696	Soil	0.8	45.7	6.3	106	<0.1	12.9	8.2	332	2.94	4.6	1.4	1.5	8.1	80	0.1	0.2	0.2	58	0.21	0.033
109697	Soil	0.6	15.9	7.1	17	0.2	4.8	1.9	54	1.12	3.2	0.9	1.3	1.3	16	<0.1	0.1	0.2	29	0.11	0.030

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Page: 9 of 12 Part 2

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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	
109668	Soil	52	21	0.24	209	0.058	<1	0.60	0.010	0.51	0.2	<0.01	2.4	0.5	0.86	5	6.0	0.3
109669	Soil	13	33	0.75	181	0.115	<1	2.59	0.009	0.30	0.2	0.03	2.8	0.3	<0.05	6	<0.5	<0.2
109670	Soil	19	24	0.61	173	0.096	1	2.56	0.011	0.34	0.1	0.03	3.1	0.4	<0.05	6	<0.5	<0.2
109671	Soil	49	4	0.36	171	0.103	<1	1.33	0.006	0.63	<0.1	<0.01	1.4	0.7	0.27	4	<0.5	0.4
109672	Soil	13	25	0.53	153	0.071	2	2.02	0.010	0.12	0.2	0.02	3.0	0.1	<0.05	5	<0.5	<0.2
109673	Soil	20	20	0.59	150	0.099	<1	1.96	0.010	0.21	0.1	0.02	2.5	0.2	<0.05	6	0.6	<0.2
109674	Soil	16	23	0.57	174	0.095	<1	1.83	0.011	0.10	0.2	0.03	3.1	0.2	<0.05	6	<0.5	<0.2
109675	Soil	15	26	0.56	169	0.079	<1	2.01	0.010	0.08	0.1	0.01	2.8	0.1	<0.05	6	0.7	<0.2
109676	Soil	21	29	0.86	168	0.124	<1	2.29	0.011	0.21	0.1	0.02	2.7	0.2	<0.05	6	<0.5	<0.2
109677	Soil	10	23	0.66	147	0.098	<1	2.43	0.010	0.22	0.1	<0.01	2.4	0.2	<0.05	7	0.5	<0.2
109678	Soil	15	29	0.59	173	0.077	<1	2.37	0.011	0.14	0.1	0.02	3.8	0.2	<0.05	6	<0.5	<0.2
109679	Soil	12	23	0.61	170	0.097	<1	2.07	0.011	0.12	0.1	0.03	3.4	0.2	<0.05	6	<0.5	<0.2
109680	Soil	19	28	0.57	191	0.097	1	2.04	0.010	0.07	<0.1	0.02	4.3	0.1	<0.05	6	<0.5	<0.2
109681	Soil	25	18	0.73	158	0.113	<1	2.07	0.013	0.33	<0.1	<0.01	2.7	0.3	<0.05	6	<0.5	<0.2
109682	Soil	15	25	0.50	182	0.076	1	1.92	0.011	0.10	0.1	0.02	2.6	0.1	<0.05	6	<0.5	<0.2
109683	Soil	20	28	0.57	199	0.083	1	2.00	0.011	0.08	0.1	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
109684	Soil	25	20	0.60	190	0.123	<1	2.06	0.013	0.26	<0.1	0.03	4.1	0.3	<0.05	7	<0.5	<0.2
109685	Soil	22	27	0.60	202	0.083	<1	2.08	0.014	0.09	0.1	0.02	3.2	0.1	<0.05	6	0.5	<0.2
109686	Soil	31	18	1.21	227	0.184	<1	2.66	0.011	0.69	<0.1	<0.01	4.3	0.3	<0.05	10	<0.5	<0.2
109687	Soil	37	10	1.30	280	0.207	<1	3.06	0.024	0.97	0.1	<0.01	6.7	0.4	0.46	10	2.0	<0.2
109688	Soil	15	25	0.70	142	0.100	<1	2.00	0.010	0.20	<0.1	0.02	3.2	0.1	<0.05	5	0.6	<0.2
109689	Soil	21	22	1.17	273	0.161	<1	2.35	0.014	0.74	<0.1	0.03	5.1	0.4	<0.05	7	<0.5	<0.2
109690	Soil	12	21	0.84	138	0.152	<1	2.07	0.010	0.40	0.1	<0.01	3.4	0.2	<0.05	8	0.6	<0.2
109691	Soil	12	30	0.72	134	0.113	1	2.15	0.010	0.19	0.1	0.02	3.1	0.1	<0.05	7	<0.5	<0.2
109692	Soil	27	30	0.73	183	0.128	<1	2.08	0.015	0.22	0.1	0.01	4.1	0.2	<0.05	6	0.6	<0.2
109693	Soil	23	31	0.58	247	0.098	1	1.76	0.014	0.10	0.1	0.05	5.1	0.1	<0.05	5	0.5	<0.2
109694	Soil	20	27	0.46	164	0.086	<1	1.61	0.011	0.06	<0.1	0.02	3.5	<0.1	<0.05	5	0.5	<0.2
109695	Soil	17	16	0.73	189	0.156	<1	2.76	0.014	0.57	<0.1	<0.01	2.3	0.4	<0.05	7	<0.5	<0.2
109696	Soil	22	19	0.80	239	0.156	<1	2.36	0.013	0.38	<0.1	<0.01	2.6	0.2	<0.05	8	<0.5	<0.2
109697	Soil	10	12	0.13	147	0.046	<1	0.92	0.008	0.04	<0.1	0.02	1.4	0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

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
109698	Soil	1.4	80.9	18.9	137	0.2	6.0	7.2	322	3.68	4.3	2.3	2.7	10.4	120	0.2	0.2	0.3	71	0.31	0.039
109699	Soil	1.0	21.2	13.0	74	0.2	12.0	6.4	244	2.44	5.3	1.5	3.0	6.0	67	0.1	0.3	0.2	48	0.40	0.029
109700	Soil	1.4	26.7	10.2	79	0.2	10.3	6.6	255	2.71	4.6	2.5	2.3	8.8	56	0.3	0.3	0.3	54	0.40	0.029
109701	Soil	0.9	21.8	9.2	52	<0.1	20.5	9.9	268	2.58	9.5	0.5	2.9	3.2	31	0.1	0.5	0.1	65	0.45	0.051
109702	Soil	0.7	28.4	8.8	59	0.1	22.8	11.1	357	2.63	11.2	0.7	5.1	3.9	43	<0.1	0.6	0.2	60	0.81	0.055
109703	Soil	0.8	40.7	9.0	66	0.1	31.4	12.4	427	2.74	9.8	0.5	3.0	3.8	40	0.1	0.7	0.2	58	0.67	0.066
113254	Soil	0.9	30.8	8.8	67	<0.1	22.2	12.0	349	2.98	8.8	1.0	3.8	4.1	20	<0.1	0.5	0.2	69	0.22	0.041
113255	Soil	0.8	18.4	9.6	58	<0.1	13.9	8.3	230	2.86	7.7	0.7	2.3	2.6	17	0.1	0.4	0.2	68	0.13	0.040
113256	Soil	2.1	39.9	11.3	41	<0.1	26.5	13.5	167	4.05	1.6	2.0	<0.5	18.3	79	0.2	<0.1	0.2	69	0.17	0.055
113257	Soil	1.1	54.2	11.7	96	0.2	14.6	4.4	149	4.34	<0.5	3.6	<0.5	19.8	37	<0.1	<0.1	0.6	59	0.12	0.071
113258	Soil	1.2	32.4	10.4	89	0.2	25.2	9.2	193	3.40	2.7	1.7	1.1	13.1	64	0.2	0.1	0.2	57	0.20	0.063
113259	Soil	1.2	53.6	24.8	88	0.3	18.1	7.2	279	3.29	3.3	2.0	1.3	10.7	37	0.2	0.2	0.5	52	0.20	0.050
113260	Soil	1.1	70.1	29.7	106	0.2	31.0	13.8	433	3.76	3.8	1.8	2.4	14.8	59	0.4	0.2	0.7	42	0.12	0.050
113261	Soil	1.0	118.8	11.2	261	<0.1	31.8	17.7	455	3.94	<0.5	1.7	<0.5	16.6	71	0.4	<0.1	0.2	41	0.21	0.038
113262	Soil	0.6	31.5	10.5	91	<0.1	31.7	15.7	584	3.77	2.4	1.0	<0.5	12.1	41	<0.1	0.2	0.2	44	0.23	0.057
113263	Soil	0.5	39.0	9.6	71	<0.1	31.1	5.9	585	4.36	5.3	0.7	<0.5	11.7	97	<0.1	0.1	0.6	39	0.14	0.042
113264	Soil	0.8	16.9	9.6	50	<0.1	17.8	8.6	286	2.65	6.3	1.3	2.9	6.2	17	0.1	0.3	0.2	50	0.18	0.045
113265	Soil	0.8	48.3	7.8	95	<0.1	157.0	31.6	647	4.08	1.8	1.2	<0.5	10.7	107	<0.1	0.1	0.2	58	0.46	0.087
113266	Soil	1.2	38.6	13.8	264	<0.1	53.9	13.7	654	4.18	1.2	2.3	<0.5	16.1	118	0.2	0.2	0.3	47	0.35	0.076
113267	Soil	1.0	26.2	9.2	55	0.1	39.2	10.7	257	2.41	3.8	1.1	1.6	2.3	27	0.1	0.2	0.2	47	0.19	0.044
113268	Soil	1.0	27.9	11.1	69	0.1	35.6	10.6	274	2.50	3.9	1.2	1.1	1.8	27	0.3	0.2	0.2	49	0.24	0.041
113269	Soil	1.4	32.4	13.6	105	0.4	31.5	15.4	514	2.77	2.7	2.0	2.8	5.7	27	0.4	0.2	0.3	46	0.28	0.065
113270	Soil	1.3	23.2	9.2	90	<0.1	29.0	11.5	363	2.88	1.5	1.1	0.8	7.7	23	<0.1	0.1	0.4	48	0.21	0.038
113271	Soil	1.0	21.8	7.1	59	0.1	21.0	9.5	290	2.51	3.5	1.3	1.8	5.3	21	<0.1	0.2	0.2	46	0.22	0.051
113272	Soil	0.5	22.7	6.3	38	0.3	15.4	6.6	156	1.78	<0.5	2.2	<0.5	3.6	26	<0.1	0.2	0.2	21	0.29	0.076
113273	Soil	0.6	16.5	6.9	22	0.2	8.6	3.2	72	1.09	0.8	1.0	0.9	1.7	20	<0.1	<0.1	0.3	23	0.15	0.025
113274	Soil	1.4	19.1	6.4	50	<0.1	25.5	10.5	212	2.78	2.6	0.7	1.0	2.6	14	<0.1	0.1	0.2	56	0.18	0.046
113275	Soil	0.9	29.5	6.6	64	0.1	24.6	12.2	361	3.08	2.7	1.3	5.3	6.3	18	0.1	0.1	0.8	49	0.16	0.042
113276	Soil	0.7	26.1	9.0	55	<0.1	33.2	15.7	426	3.31	3.0	1.2	1.9	8.6	24	<0.1	0.2	0.2	62	0.45	0.060
113277	Soil	0.9	34.3	5.2	42	0.2	24.0	9.1	213	2.45	1.9	2.3	0.9	5.4	21	0.1	0.1	0.1	41	0.20	0.047

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
109698	Soil	29	19	0.90	259	0.164	<1	2.47	0.033	0.36	<0.1	<0.01	3.6	0.1	0.31	8	0.7	0.3
109699	Soil	18	19	0.52	140	0.085	<1	1.99	0.017	0.14	<0.1	0.01	2.4	<0.1	0.10	6	<0.5	<0.2
109700	Soil	23	20	0.63	161	0.118	<1	1.91	0.022	0.23	<0.1	0.01	3.2	0.1	0.10	6	0.8	<0.2
109701	Soil	11	30	0.55	228	0.077	1	1.69	0.023	0.06	0.1	0.02	3.0	<0.1	<0.05	5	0.6	<0.2
109702	Soil	12	31	0.68	265	0.091	2	1.40	0.050	0.07	0.2	0.03	3.7	<0.1	0.20	4	0.8	<0.2
109703	Soil	14	33	0.70	281	0.076	2	1.50	0.027	0.07	0.2	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
113254	Soil	14	32	0.62	257	0.092	<1	2.12	0.012	0.08	0.1	0.03	5.2	0.1	<0.05	6	0.5	<0.2
113255	Soil	9	28	0.52	218	0.076	<1	1.96	0.010	0.10	0.1	0.03	3.3	0.1	<0.05	6	0.7	<0.2
113256	Soil	22	42	0.90	228	0.128	<1	2.69	0.013	0.74	<0.1	<0.01	3.3	0.9	0.06	6	0.8	<0.2
113257	Soil	48	38	0.98	114	0.083	<1	2.10	0.012	0.67	<0.1	<0.01	3.4	0.7	0.22	6	1.1	0.2
113258	Soil	61	33	0.71	197	0.104	<1	2.01	0.014	0.57	<0.1	<0.01	2.8	0.4	0.19	6	0.8	<0.2
113259	Soil	23	40	0.83	446	0.121	<1	1.92	0.016	0.52	<0.1	<0.01	4.2	0.3	0.20	5	0.9	<0.2
113260	Soil	32	30	1.03	228	0.109	<1	2.42	0.009	0.57	<0.1	<0.01	3.2	0.3	<0.05	7	0.8	<0.2
113261	Soil	53	30	1.28	314	0.212	<1	2.47	0.008	1.19	<0.1	<0.01	3.7	0.8	<0.05	7	<0.5	<0.2
113262	Soil	21	33	0.99	246	0.212	1	2.53	0.006	0.97	<0.1	<0.01	2.6	0.6	<0.05	7	<0.5	<0.2
113263	Soil	17	32	1.58	741	0.218	<1	2.40	0.016	1.46	<0.1	<0.01	3.2	0.5	0.29	8	1.1	<0.2
113264	Soil	24	26	0.52	203	0.090	<1	1.63	0.007	0.12	0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
113265	Soil	33	137	1.93	583	0.237	<1	2.89	0.016	0.97	<0.1	<0.01	3.3	0.6	<0.05	9	<0.5	<0.2
113266	Soil	46	49	1.24	283	0.269	<1	2.66	0.012	1.22	<0.1	0.01	2.9	0.8	0.06	9	0.6	<0.2
113267	Soil	17	43	0.70	176	0.110	1	1.51	0.008	0.21	0.1	0.02	2.1	0.2	<0.05	6	0.6	<0.2
113268	Soil	15	36	0.65	231	0.100	<1	1.68	0.010	0.14	<0.1	0.03	2.6	0.2	<0.05	6	<0.5	<0.2
113269	Soil	26	38	0.73	203	0.133	<1	1.86	0.011	0.34	<0.1	0.05	3.3	0.3	<0.05	6	<0.5	<0.2
113270	Soil	19	33	0.83	167	0.211	<1	1.79	0.008	0.73	<0.1	<0.01	2.5	0.5	<0.05	8	<0.5	<0.2
113271	Soil	20	30	0.66	140	0.132	<1	1.48	0.008	0.28	0.1	0.02	2.4	0.2	<0.05	6	<0.5	<0.2
113272	Soil	32	22	0.43	169	0.087	3	1.16	0.009	0.23	0.1	0.06	2.3	0.2	0.09	4	<0.5	<0.2
113273	Soil	23	14	0.22	130	0.081	2	0.86	0.009	0.13	<0.1	0.02	1.4	0.2	<0.05	5	<0.5	<0.2
113274	Soil	18	34	0.73	141	0.191	2	1.70	0.009	0.43	<0.1	0.01	2.5	0.4	<0.05	8	<0.5	<0.2
113275	Soil	31	32	0.74	182	0.170	1	1.72	0.009	0.59	<0.1	0.01	2.7	0.4	0.06	7	0.5	<0.2
113276	Soil	27	41	0.96	163	0.204	1	1.96	0.011	0.34	<0.1	0.02	4.0	0.3	<0.05	8	<0.5	<0.2
113277	Soil	46	36	0.66	177	0.137	<1	1.72	0.010	0.34	<0.1	0.03	3.1	0.2	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	
113278	Soil		0.9	26.8	8.7	84	0.2	25.1	10.5	325	2.93	2.3	1.0	2.2	7.6	23	0.2	0.2	0.3	47	0.20	0.045
113279	Soil		1.0	17.1	9.0	65	0.2	23.1	9.6	239	2.55	3.4	0.9	1.7	4.3	19	0.2	0.2	0.3	45	0.20	0.050
113280	Soil		0.5	14.1	11.0	48	0.2	13.3	5.0	142	1.71	2.5	0.9	2.2	2.0	17	0.2	0.2	0.3	26	0.17	0.043
113281	Soil		0.6	14.1	9.2	48	0.1	12.8	5.1	141	1.71	2.1	0.8	2.4	1.6	17	0.2	0.2	0.2	30	0.17	0.044
113282	Soil		0.7	19.1	9.9	69	0.2	14.2	7.6	200	2.54	4.5	0.9	1.7	2.4	16	0.1	0.2	0.2	57	0.18	0.052
113283	Soil		0.7	18.1	9.9	65	0.1	14.7	7.5	172	2.57	5.0	0.8	4.1	2.7	16	0.1	0.3	0.2	53	0.19	0.048
113284	Soil		0.7	15.9	11.1	65	0.1	12.7	5.9	167	2.26	3.3	0.7	1.8	2.0	18	0.2	0.2	0.2	51	0.17	0.041
113285	Soil		0.7	12.9	9.1	57	<0.1	10.4	5.8	161	1.82	1.7	0.6	7.5	2.2	18	<0.1	0.2	0.2	42	0.18	0.041
113286	Soil		0.7	15.2	6.7	57	<0.1	10.5	6.3	186	1.81	1.7	0.5	6.0	2.6	18	0.1	0.2	0.1	41	0.20	0.044
117763	Soil		3.2	44.3	13.0	77	0.2	17.6	6.5	219	3.38	4.4	1.2	2.9	7.0	47	0.2	0.2	0.3	64	0.13	0.045
117764	Soil		1.7	31.5	16.9	169	0.1	60.0	21.8	492	2.81	<0.5	2.2	2.5	12.1	195	0.3	<0.1	0.3	45	0.45	0.040
117765	Soil		1.9	56.9	22.5	164	<0.1	33.5	17.1	501	6.10	4.0	2.5	1.0	24.9	22	0.4	0.2	0.3	81	0.10	0.093
117766	Soil		1.7	53.8	9.6	73	<0.1	32.3	11.2	429	3.69	5.0	1.4	3.0	4.6	31	<0.1	0.3	0.3	72	0.25	0.038
117767	Soil		2.8	64.1	10.9	77	<0.1	23.2	10.1	394	3.76	5.6	2.4	2.5	5.3	38	0.1	0.3	0.4	93	0.21	0.071
117768	Soil		1.1	38.2	10.0	77	<0.1	40.5	15.0	374	3.16	8.0	0.8	3.6	4.7	23	0.1	0.5	0.2	69	0.25	0.051
117769	Soil		1.0	31.7	9.4	54	<0.1	22.5	10.1	365	2.59	9.3	0.9	2.5	3.3	26	<0.1	0.5	0.2	58	0.28	0.053
117770	Soil		4.8	45.6	11.4	64	0.2	27.3	9.7	344	3.25	8.3	1.7	2.0	4.8	23	<0.1	0.4	0.3	73	0.16	0.049
117771	Soil		4.9	120.8	18.0	151	0.2	65.1	17.8	424	5.39	2.5	4.2	7.6	11.7	42	0.3	0.1	2.6	81	0.25	0.072
117772	Soil		1.6	66.2	10.4	100	<0.1	37.2	12.5	334	4.21	5.8	1.5	6.0	8.7	23	0.1	0.4	1.1	77	0.12	0.030
117773	Soil		2.6	98.7	10.4	186	<0.1	60.6	16.5	419	6.07	1.9	3.4	1.2	17.5	28	0.3	0.1	0.4	84	0.11	0.057
117774	Soil		1.6	46.5	10.8	77	<0.1	36.3	12.6	360	3.40	8.3	1.5	2.1	7.5	18	0.3	0.5	0.3	65	0.15	0.036
117775	Soil		0.8	64.3	9.6	77	<0.1	34.8	18.8	663	3.73	2.1	3.9	0.8	17.9	39	0.2	0.2	0.4	46	0.10	0.045
117776	Soil		1.3	89.6	5.5	40	<0.1	14.7	8.0	218	3.82	1.2	1.2	1.0	13.7	9	<0.1	<0.1	0.8	33	0.04	0.035
117777	Soil		1.7	156.7	12.2	88	0.2	8.5	3.4	305	4.81	<0.5	1.9	<0.5	14.2	26	0.1	<0.1	1.1	55	0.12	0.055
117778	Soil		1.5	52.4	10.1	102	0.1	33.8	13.7	371	3.74	3.3	2.5	<0.5	14.2	40	0.1	0.3	0.3	61	0.16	0.049
117779	Soil		3.8	62.3	16.2	138	0.3	18.9	10.8	381	5.52	1.1	2.7	2.7	15.4	80	0.1	<0.1	0.6	83	0.17	0.111
117780	Soil		4.3	79.2	9.2	132	0.4	15.0	4.8	226	5.61	<0.5	3.6	1.9	20.5	97	0.1	<0.1	0.9	63	0.17	0.076
117781	Soil		1.5	42.2	6.8	60	0.1	16.0	9.1	285	3.58	3.3	0.9	2.9	4.7	18	0.1	0.2	0.7	66	0.12	0.032
117782	Soil		0.9	50.7	11.1	62	0.3	20.2	10.8	318	3.23	7.1	1.1	5.7	4.2	22	<0.1	0.5	0.4	71	0.25	0.058
117783	Soil		0.7	54.7	4.6	73	<0.1	11.6	21.2	470	4.33	2.8	0.8	1.8	2.0	19	<0.1	0.2	<0.1	124	0.36	0.064

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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
113278	Soil	27	32	0.78	170	0.165	<1	1.70	0.010	0.46	0.1	0.02	2.7	0.3	<0.05	6	<0.5	<0.2
113279	Soil	19	32	0.72	151	0.144	<1	1.65	0.008	0.28	<0.1	0.05	2.6	0.2	<0.05	6	<0.5	<0.2
113280	Soil	15	25	0.46	105	0.094	<1	1.22	0.008	0.12	0.1	0.05	2.2	0.1	<0.05	6	0.8	<0.2
113281	Soil	14	23	0.43	108	0.090	1	1.14	0.009	0.11	0.1	0.05	2.0	0.1	<0.05	5	<0.5	<0.2
113282	Soil	13	27	0.65	116	0.107	<1	1.58	0.008	0.17	0.1	0.04	2.4	0.1	<0.05	6	<0.5	<0.2
113283	Soil	13	27	0.57	121	0.092	<1	1.44	0.009	0.12	0.1	0.03	2.3	0.1	<0.05	5	<0.5	<0.2
113284	Soil	13	25	0.56	111	0.099	<1	1.41	0.009	0.11	0.1	0.03	2.1	0.1	<0.05	5	<0.5	<0.2
113285	Soil	12	20	0.49	98	0.091	<1	1.20	0.009	0.12	0.2	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
113286	Soil	10	17	0.55	98	0.098	1	1.21	0.009	0.17	0.2	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
117763	Soil	23	43	0.96	319	0.112	<1	2.23	0.015	0.39	<0.1	0.02	4.0	0.3	0.20	6	1.4	<0.2
117764	Soil	59	42	0.67	217	0.088	2	2.32	0.020	0.41	<0.1	0.01	5.3	0.5	0.07	7	<0.5	<0.2
117765	Soil	35	70	1.28	265	0.219	3	3.46	0.008	1.04	<0.1	<0.01	6.6	0.6	0.09	9	1.0	<0.2
117766	Soil	17	59	0.96	290	0.182	1	2.09	0.014	0.32	0.1	0.02	4.7	0.3	0.15	6	0.7	<0.2
117767	Soil	20	39	0.95	320	0.138	2	2.34	0.011	0.39	<0.1	0.02	4.9	0.4	0.16	7	1.1	<0.2
117768	Soil	14	51	0.84	274	0.098	2	2.31	0.010	0.09	0.1	0.03	4.6	0.2	<0.05	6	0.7	<0.2
117769	Soil	15	31	0.59	273	0.068	2	1.68	0.013	0.07	0.2	0.04	4.4	<0.1	<0.05	5	0.6	<0.2
117770	Soil	15	38	0.61	248	0.081	2	2.18	0.010	0.13	0.1	0.02	3.9	0.1	0.12	6	0.7	<0.2
117771	Soil	30	83	1.52	426	0.187	1	2.79	0.018	0.78	0.1	<0.01	6.4	0.5	0.19	9	1.7	0.2
117772	Soil	24	66	1.09	227	0.151	3	2.79	0.014	0.30	0.1	0.02	6.0	0.3	0.08	8	0.8	<0.2
117773	Soil	46	86	1.66	258	0.205	1	3.61	0.011	1.00	<0.1	<0.01	6.8	0.6	0.07	10	0.9	<0.2
117774	Soil	20	44	0.72	214	0.101	2	2.26	0.008	0.16	0.1	0.02	3.5	0.2	<0.05	6	0.7	<0.2
117775	Soil	48	35	1.11	268	0.175	1	2.69	0.009	0.96	<0.1	0.01	3.6	0.6	<0.05	7	0.7	<0.2
117776	Soil	15	27	0.84	145	0.114	<1	2.08	0.010	0.65	<0.1	<0.01	3.2	0.4	0.08	5	1.0	<0.2
117777	Soil	27	35	1.13	213	0.157	<1	2.13	0.020	1.05	<0.1	0.01	4.2	0.5	0.51	8	1.6	<0.2
117778	Soil	32	40	0.84	231	0.136	1	2.13	0.023	0.52	0.1	<0.01	3.6	0.4	0.17	6	0.7	<0.2
117779	Soil	71	64	1.09	422	0.195	1	2.74	0.039	1.08	<0.1	0.01	5.0	0.6	0.62	8	0.8	<0.2
117780	Soil	78	45	0.88	270	0.176	<1	2.25	0.048	1.09	<0.1	0.01	4.9	0.6	0.81	7	0.7	0.2
117781	Soil	15	42	0.68	344	0.129	1	1.94	0.019	0.35	0.1	0.02	4.2	0.2	0.22	7	1.3	<0.2
117782	Soil	13	29	0.65	308	0.095	2	2.00	0.013	0.13	0.1	0.03	4.9	0.2	<0.05	6	0.6	<0.2
117783	Soil	15	16	1.00	292	0.212	1	2.36	0.030	0.60	<0.1	0.01	7.2	0.2	<0.05	7	0.8	<0.2

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000684.1

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	
117784	Soil	0.7	33.6	8.9	57	<0.1	21.7	12.4	407	3.07	7.7	0.9	4.3	4.1	18	<0.1	0.5	0.2	68	0.20	0.044
117785	Soil	0.5	33.2	4.5	130	<0.1	18.2	20.4	615	4.17	1.2	0.5	1.6	1.9	17	<0.1	0.2	<0.1	112	0.55	0.093
117786	Soil	0.7	36.7	5.4	74	<0.1	18.2	14.3	489	3.39	3.6	0.9	0.8	2.7	21	<0.1	0.3	<0.1	78	0.36	0.038
117787	Soil	1.1	55.8	5.3	106	<0.1	19.9	16.7	524	5.65	1.5	0.7	0.8	1.6	56	0.1	0.1	0.1	112	0.57	0.162
117788	Soil	1.5	113.8	17.5	190	0.2	7.9	4.3	624	4.24	1.2	0.9	0.9	7.5	36	0.2	0.1	0.2	56	0.28	0.041
117789	Soil	6.9	515.8	16.0	158	0.3	2.9	5.0	693	6.21	<0.5	1.0	0.8	5.3	88	0.1	<0.1	0.5	129	0.25	0.071
117790	Soil	2.1	174.6	8.9	66	0.2	13.9	7.8	321	3.55	5.0	1.1	2.7	5.1	38	<0.1	0.3	0.2	81	0.19	0.029
117791	Soil	2.3	202.2	8.7	70	0.2	14.3	7.9	374	3.73	4.7	1.1	5.7	5.3	41	<0.1	0.3	0.2	85	0.21	0.032
117792	Soil	54.6	874.9	6.7	126	1.0	7.3	11.6	571	5.40	0.8	2.5	14.7	11.5	43	0.1	<0.1	0.6	128	0.10	0.064
117793	Soil	9.5	287.4	6.4	73	0.3	23.6	11.6	448	3.11	4.5	2.3	2.2	6.4	19	<0.1	0.3	0.1	80	0.19	0.064
117794	Soil	11.0	641.2	6.4	98	0.5	14.3	9.2	430	5.69	1.1	2.4	2.6	7.0	75	0.1	0.2	0.4	74	0.29	0.077
117795	Soil	7.9	472.7	2.2	116	<0.1	22.0	11.5	602	4.75	<0.5	1.5	2.6	16.6	36	<0.1	<0.1	0.1	83	0.26	0.086
117796	Soil	14.2	904.8	4.5	116	0.1	7.7	13.4	695	5.17	<0.5	3.0	4.9	14.3	72	<0.1	<0.1	<0.1	136	0.29	0.059
117797	Soil	2.1	889.6	2.3	112	0.2	20.3	22.7	538	5.24	<0.5	1.4	0.9	6.3	41	0.3	<0.1	<0.1	140	0.49	0.150
117798	Soil	1.1	226.7	2.7	56	0.1	11.2	7.9	341	4.13	<0.5	0.4	2.6	0.9	53	<0.1	<0.1	0.1	116	0.66	0.122
117799	Soil	0.6	143.8	1.3	75	<0.1	28.1	32.7	436	4.39	1.0	1.3	<0.5	5.5	18	<0.1	<0.1	0.1	94	0.24	0.106
117800	Soil	1.1	66.7	7.7	58	<0.1	20.4	13.6	247	3.71	6.6	0.8	2.1	3.3	18	<0.1	0.3	0.3	86	0.15	0.038



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Project: Rosebute  
 Report Date: August 09, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000684.1

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
117784	Soil	12	34	0.59	267	0.084	2	2.05	0.011	0.08	0.1	0.02	4.3	0.1	<0.05	6	<0.5	<0.2
117785	Soil	12	12	0.96	368	0.189	1	1.86	0.034	0.52	<0.1	0.01	8.8	0.2	<0.05	8	0.5	<0.2
117786	Soil	12	26	0.82	273	0.149	<1	1.83	0.022	0.28	0.1	0.02	6.6	0.1	<0.05	6	<0.5	<0.2
117787	Soil	9	31	1.34	559	0.264	1	2.69	0.046	0.86	0.1	0.02	6.1	0.4	0.23	9	0.5	<0.2
117788	Soil	13	11	1.05	321	0.168	<1	2.08	0.019	0.79	<0.1	<0.01	4.7	0.5	0.26	7	<0.5	<0.2
117789	Soil	17	9	1.70	303	0.290	<1	3.31	0.017	2.09	<0.1	<0.01	6.6	0.8	0.72	10	1.6	0.2
117790	Soil	12	28	0.88	311	0.146	1	2.29	0.013	0.27	<0.1	0.03	5.3	0.2	0.15	7	1.1	<0.2
117791	Soil	12	26	0.88	327	0.150	<1	2.29	0.012	0.31	<0.1	0.03	5.4	0.2	0.16	6	0.9	<0.2
117792	Soil	22	14	1.53	383	0.261	<1	3.32	0.013	1.74	0.2	0.01	7.8	0.7	0.39	10	1.8	<0.2
117793	Soil	16	38	0.72	198	0.122	<1	1.97	0.008	0.38	0.1	0.02	3.9	0.3	<0.05	5	<0.5	<0.2
117794	Soil	29	36	1.14	337	0.249	1	2.33	0.023	0.76	<0.1	0.02	4.2	0.4	0.38	8	1.7	<0.2
117795	Soil	19	56	1.57	216	0.318	<1	2.77	0.009	1.73	0.1	<0.01	10.3	1.0	<0.05	12	<0.5	<0.2
117796	Soil	25	11	1.53	354	0.268	<1	3.12	0.019	1.52	0.2	0.02	8.8	0.8	0.08	10	0.7	<0.2
117797	Soil	14	81	2.31	690	0.293	<1	3.38	0.024	2.09	0.2	<0.01	13.0	0.8	0.16	12	1.3	0.3
117798	Soil	4	52	1.18	632	0.165	<1	2.17	0.084	0.72	0.1	<0.01	5.6	0.3	0.26	6	<0.5	<0.2
117799	Soil	13	159	1.90	807	0.225	<1	2.90	0.013	1.26	0.1	<0.01	14.6	0.5	<0.05	10	0.6	<0.2
117800	Soil	11	73	0.86	428	0.121	<1	2.39	0.011	0.32	0.1	0.01	5.5	0.2	<0.05	8	<0.5	<0.2



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Project: Rosebute  
Report Date: August 09, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000684.1

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																					
102420	Soil	0.8	24.9	8.4	56	<0.1	22.6	9.4	364	2.57	8.2	0.8	3.0	3.6	27	<0.1	0.5	0.1	53	0.31	0.058
REP 102420	QC	0.8	25.7	8.2	58	<0.1	23.4	9.5	381	2.62	8.0	0.7	5.5	3.6	28	0.1	0.5	0.1	54	0.31	0.058
102440	Soil	0.5	64.6	1.8	19	<0.1	10.1	7.5	142	1.45	1.4	0.3	1.4	1.7	68	<0.1	<0.1	<0.1	35	1.39	0.066
REP 102440	QC	0.5	63.3	1.7	19	<0.1	10.0	7.4	136	1.38	1.5	0.3	2.2	1.7	70	<0.1	<0.1	<0.1	33	1.31	0.063
102461	Soil	1.2	21.9	10.0	55	<0.1	16.4	8.2	251	2.53	6.2	1.6	<0.5	7.0	23	<0.1	0.3	0.2	51	0.23	0.032
REP 102461	QC	1.1	22.4	9.6	52	<0.1	16.5	8.0	246	2.47	6.3	1.6	<0.5	6.7	23	<0.1	0.3	0.2	50	0.23	0.031
102487	Soil	0.8	32.2	8.5	56	0.2	24.2	9.5	348	2.34	8.4	0.8	2.2	3.9	38	0.2	0.6	0.1	52	0.57	0.061
REP 102487	QC	0.8	33.3	8.5	57	0.1	24.6	9.8	360	2.39	9.7	0.8	5.7	4.1	37	0.2	0.5	0.1	54	0.58	0.062
104650	Soil	9.2	80.5	6.1	129	<0.1	35.9	14.9	562	4.95	80.7	1.2	2.4	3.6	11	0.1	1.5	0.3	146	0.18	0.056
REP 104650	QC	9.6	81.6	6.5	130	<0.1	36.9	15.4	552	4.90	80.2	1.2	3.1	3.7	11	0.1	1.5	0.3	151	0.19	0.056
104665	Soil	0.5	9.3	5.1	40	<0.1	4.2	3.2	442	2.37	2.8	0.5	1.0	3.6	11	<0.1	0.2	<0.1	13	0.12	0.017
REP 104665	QC	0.5	9.3	3.4	39	<0.1	4.5	3.1	452	2.33	2.9	0.5	0.5	3.5	11	<0.1	0.2	<0.1	13	0.12	0.017
104690	Soil	0.9	30.7	22.2	257	<0.1	10.1	6.2	1322	3.90	3.7	1.0	2.0	5.0	13	0.1	0.3	0.1	31	0.20	0.058
REP 104690	QC	0.8	32.4	22.7	276	<0.1	10.7	6.0	1411	4.09	4.4	1.1	<0.5	5.3	14	0.1	0.3	0.2	32	0.21	0.058
104694	Soil	0.5	19.9	2.9	358	<0.1	8.8	11.8	1699	5.34	2.1	0.9	24.3	3.5	13	0.1	<0.1	<0.1	62	0.43	0.108
REP 104694	QC	0.4	19.5	2.7	348	<0.1	9.1	12.1	1740	5.50	2.5	0.9	24.9	3.7	14	0.2	<0.1	<0.1	64	0.44	0.119
104715	Soil	0.6	64.2	6.7	62	<0.1	16.3	17.2	468	3.55	3.0	0.5	<0.5	1.9	23	<0.1	0.3	<0.1	97	0.47	0.062
REP 104715	QC	0.5	67.9	6.6	65	<0.1	16.5	17.4	485	3.72	3.2	0.5	<0.5	2.0	25	<0.1	0.3	<0.1	97	0.49	0.068
105696	Soil	0.6	20.4	14.4	68	<0.1	11.5	10.0	271	2.68	3.4	0.4	<0.5	1.3	21	<0.1	0.2	0.1	72	0.29	0.044
REP 105696	QC	0.5	20.4	14.9	67	<0.1	11.0	10.2	267	2.69	3.9	0.4	<0.5	1.3	23	<0.1	0.2	0.2	71	0.30	0.045
105705	Soil	0.7	14.3	8.3	69	<0.1	13.6	7.4	314	2.45	6.0	0.7	4.2	2.6	21	0.1	0.4	0.1	54	0.29	0.038
REP 105705	QC	0.7	14.5	8.0	70	<0.1	12.4	7.5	317	2.46	6.0	0.7	6.8	2.5	21	0.1	0.3	0.1	53	0.30	0.040
107660	Soil	0.7	21.9	15.0	89	<0.1	17.9	7.6	396	3.14	6.9	1.6	1.1	10.6	53	<0.1	0.3	0.1	41	0.45	0.037
REP 107660	QC	0.8	22.3	15.0	93	<0.1	18.6	7.8	398	3.21	7.6	1.7	<0.5	10.6	52	0.1	0.3	0.1	43	0.44	0.036
109681	Soil	2.0	29.9	7.5	59	0.1	12.0	8.8	350	2.84	5.3	1.9	2.3	10.2	46	<0.1	0.3	0.3	50	0.28	0.041
REP 109681	QC	2.0	29.1	7.2	57	0.1	11.8	9.0	354	2.81	5.4	1.9	2.9	10.4	46	<0.1	0.3	0.3	50	0.27	0.039
109687	Soil	7.5	40.6	6.9	81	<0.1	4.2	6.6	540	5.07	2.6	2.8	1.0	23.2	150	<0.1	0.1	0.1	77	0.18	0.083
REP 109687	QC	7.3	39.7	6.8	78	<0.1	4.4	6.4	523	5.04	2.4	2.8	<0.5	21.9	146	<0.1	0.1	0.1	75	0.18	0.082

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000684.1

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																		
102420	Soil	12	28	0.56	285	0.080	4	1.59	0.013	0.07	<0.1	0.03	4.4	<0.1	<0.05	4	0.7	<0.2
REP 102420	QC	13	28	0.57	293	0.079	4	1.62	0.013	0.07	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
102440	Soil	4	15	0.40	67	0.057	<1	2.48	0.041	0.06	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
REP 102440	QC	4	15	0.39	66	0.053	2	2.34	0.038	0.06	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
102461	Soil	17	26	0.55	216	0.094	1	1.75	0.022	0.09	0.1	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
REP 102461	QC	17	25	0.54	213	0.088	<1	1.72	0.015	0.09	0.1	0.04	3.9	0.1	<0.05	5	<0.5	<0.2
102487	Soil	13	26	0.54	274	0.065	1	1.23	0.025	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
REP 102487	QC	14	26	0.55	282	0.070	2	1.25	0.026	0.07	0.2	0.03	3.3	<0.1	<0.05	4	0.7	<0.2
104650	Soil	11	49	1.05	799	0.162	<1	1.89	0.009	0.90	<0.1	0.07	13.1	0.8	<0.05	9	<0.5	0.2
REP 104650	QC	11	49	1.07	808	0.162	1	1.93	0.010	0.92	<0.1	0.08	13.5	0.8	<0.05	9	0.7	<0.2
104665	Soil	10	6	0.29	88	0.015	<1	0.94	0.008	0.06	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
REP 104665	QC	10	6	0.30	88	0.015	<1	0.97	0.007	0.06	<0.1	<0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
104690	Soil	46	12	0.57	222	0.153	<1	1.67	0.006	0.71	<0.1	0.03	10.5	0.8	<0.05	9	<0.5	<0.2
REP 104690	QC	48	11	0.64	226	0.161	<1	1.73	0.007	0.75	<0.1	0.04	10.7	0.8	<0.05	9	<0.5	<0.2
104694	Soil	51	9	1.18	313	0.237	<1	2.41	0.009	1.24	<0.1	0.02	7.1	0.7	<0.05	12	<0.5	<0.2
REP 104694	QC	52	10	1.25	327	0.258	<1	2.54	0.009	1.21	<0.1	0.02	7.4	0.6	<0.05	11	<0.5	<0.2
104715	Soil	9	23	1.00	270	0.111	<1	1.74	0.013	0.23	<0.1	<0.01	4.7	<0.1	<0.05	6	<0.5	<0.2
REP 104715	QC	9	22	1.04	273	0.115	<1	1.73	0.014	0.24	<0.1	0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
105696	Soil	5	20	0.81	172	0.103	<1	1.59	0.011	0.07	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
REP 105696	QC	5	19	0.82	169	0.105	<1	1.68	0.014	0.07	<0.1	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2
105705	Soil	11	24	0.48	217	0.078	1	1.52	0.011	0.05	0.1	0.04	3.4	<0.1	0.05	5	<0.5	<0.2
REP 105705	QC	11	24	0.47	215	0.080	<1	1.55	0.012	0.05	0.1	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
107660	Soil	18	26	0.47	142	0.098	<1	2.51	0.008	0.18	<0.1	0.01	7.6	0.2	<0.05	10	<0.5	<0.2
REP 107660	QC	18	26	0.47	143	0.102	<1	2.43	0.010	0.18	<0.1	<0.01	7.5	0.1	<0.05	10	<0.5	<0.2
109681	Soil	25	18	0.73	158	0.113	<1	2.07	0.013	0.33	<0.1	<0.01	2.7	0.3	<0.05	6	<0.5	<0.2
REP 109681	QC	25	19	0.75	151	0.110	<1	2.18	0.014	0.31	0.1	0.02	2.7	0.2	<0.05	6	<0.5	<0.2
109687	Soil	37	10	1.30	280	0.207	<1	3.06	0.024	0.97	0.1	<0.01	6.7	0.4	0.46	10	2.0	<0.2
REP 109687	QC	36	10	1.29	272	0.211	<1	2.98	0.023	0.95	0.1	<0.01	6.5	0.4	0.40	9	1.7	<0.2

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Project: Rosebute  
 Report Date: August 09, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000684.1

		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
113260	Soil	1.1	70.1	29.7	106	0.2	31.0	13.8	433	3.76	3.8	1.8	2.4	14.8	59	0.4	0.2	0.7	42	0.12	0.050
REP 113260	QC	1.1	68.9	29.4	108	0.2	29.9	13.4	429	3.65	3.5	1.9	1.4	14.5	57	0.4	0.2	0.7	43	0.11	0.047
113278	Soil	0.9	26.8	8.7	84	0.2	25.1	10.5	325	2.93	2.3	1.0	2.2	7.6	23	0.2	0.2	0.3	47	0.20	0.045
REP 113278	QC	0.9	27.5	9.2	85	0.2	26.8	11.1	338	3.01	2.5	1.0	1.5	7.4	23	0.2	0.2	0.3	48	0.19	0.047
117765	Soil	1.9	56.9	22.5	164	<0.1	33.5	17.1	501	6.10	4.0	2.5	1.0	24.9	22	0.4	0.2	0.3	81	0.10	0.093
REP 117765	QC	1.9	57.0	22.6	162	<0.1	32.6	17.2	491	6.32	3.8	2.6	1.1	25.9	24	0.4	0.2	0.4	82	0.11	0.095
117785	Soil	0.5	33.2	4.5	130	<0.1	18.2	20.4	615	4.17	1.2	0.5	1.6	1.9	17	<0.1	0.2	<0.1	112	0.55	0.093
REP 117785	QC	0.5	31.3	4.6	123	<0.1	17.2	19.7	585	4.21	1.0	0.6	0.9	1.9	17	0.2	0.2	<0.1	109	0.55	0.092
Reference Materials																					
STD DS8	Standard	13.6	121.9	138.1	325	1.8	42.7	8.3	630	2.59	27.3	2.7	155.6	6.3	60	2.4	5.7	6.6	44	0.66	0.082
STD DS8	Standard	13.3	122.3	135.5	327	1.9	42.4	8.2	626	2.55	28.3	2.7	120.7	6.2	60	2.5	5.4	6.6	44	0.66	0.083
STD DS8	Standard	13.7	111.8	119.3	300	1.8	37.9	8.0	601	2.45	26.2	2.4	113.5	6.5	63	2.1	5.4	6.3	42	0.67	0.079
STD DS8	Standard	13.6	109.6	119.5	298	1.8	37.7	7.5	632	2.38	25.2	2.8	122.2	7.4	67	2.3	5.3	6.2	39	0.71	0.078
STD DS8	Standard	11.5	93.0	115.5	273	1.6	32.4	6.5	539	2.16	23.2	2.6	99.9	6.5	54	1.9	4.4	5.0	37	0.63	0.071
STD DS8	Standard	11.8	97.7	121.7	292	1.6	34.7	6.9	539	2.22	25.6	2.7	105.7	6.5	54	2.3	4.3	5.3	40	0.63	0.076
STD DS8	Standard	12.3	99.6	119.4	293	1.6	34.2	6.9	562	2.27	25.9	2.7	114.0	6.6	60	2.3	5.6	6.7	38	0.62	0.077
STD DS8	Standard	13.4	102.2	123.2	300	1.7	33.5	6.9	566	2.29	25.4	2.8	110.6	6.9	62	2.1	5.5	6.8	42	0.67	0.080
STD DS8	Standard	12.9	102.3	126.9	295	1.7	36.3	7.2	566	2.31	25.1	2.7	100.2	6.7	61	2.3	5.4	6.6	42	0.68	0.073
STD DS8	Standard	13.1	109.3	126.3	311	1.8	37.7	7.7	577	2.36	26.5	2.7	115.6	6.8	62	2.3	5.5	6.7	42	0.68	0.083
STD DS8	Standard	11.7	108.6	117.3	309	1.9	36.6	7.2	583	2.35	26.3	2.5	99.4	5.8	58	2.3	5.1	6.0	39	0.63	0.080
STD DS8	Standard	11.7	111.0	118.4	313	1.8	37.5	7.4	594	2.41	26.4	2.5	106.6	6.1	57	2.3	5.1	6.2	41	0.62	0.080
STD DS8	Standard	11.2	105.9	116.3	292	1.6	34.8	7.2	552	2.34	24.2	2.3	107.3	5.8	57	2.3	5.2	6.5	38	0.60	0.075
STD DS8	Standard	12.0	103.4	120.5	299	1.7	35.5	7.3	554	2.34	24.8	2.5	106.2	6.2	58	2.2	5.3	6.6	40	0.65	0.075
STD DS8	Standard	11.6	107.5	124.7	299	1.8	37.0	7.4	594	2.40	24.3	2.7	101.6	6.5	57	2.1	5.0	5.8	42	0.62	0.078
STD DS8	Standard	12.2	105.4	119.7	297	1.8	36.1	7.3	612	2.43	25.1	2.5	101.2	6.1	59	2.0	5.0	5.9	42	0.66	0.075
STD DS8	Standard	11.8	102.3	113.5	284	1.7	35.7	7.2	562	2.26	24.5	2.5	120.9	6.1	59	2.2	5.1	5.8	39	0.62	0.072
STD DS8	Standard	12.2	104.1	118.0	299	1.8	35.0	7.0	567	2.32	25.0	2.5	107.4	6.3	62	2.4	4.8	6.0	41	0.65	0.079
STD DS8	Standard	12.1	97.6	112.4	275	1.5	35.3	6.6	554	2.21	23.4	2.5	102.5	6.5	60	2.0	5.3	6.3	39	0.64	0.073
STD DS8	Standard	12.0	102.2	114.2	281	1.6	35.6	7.2	561	2.27	24.0	2.5	101.8	6.5	62	2.0	5.5	6.3	38	0.61	0.070

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**Project:** Rosebute  
**Report Date:** August 09, 2011

**Page:** 2 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000684.1

		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
113260	Soil	32	30	1.03	228	0.109	<1	2.42	0.009	0.57	<0.1	<0.01	3.2	0.3	<0.05	7	0.8	<0.2
REP 113260	QC	31	30	0.98	223	0.111	<1	2.37	0.009	0.56	<0.1	<0.01	3.2	0.3	<0.05	7	0.7	<0.2
113278	Soil	27	32	0.78	170	0.165	<1	1.70	0.010	0.46	0.1	0.02	2.7	0.3	<0.05	6	<0.5	<0.2
REP 113278	QC	26	32	0.79	169	0.162	<1	1.67	0.009	0.47	<0.1	0.02	2.6	0.3	<0.05	6	<0.5	<0.2
117765	Soil	35	70	1.28	265	0.219	3	3.46	0.008	1.04	<0.1	<0.01	6.6	0.6	0.09	9	1.0	<0.2
REP 117765	QC	34	69	1.27	264	0.224	2	3.56	0.010	1.06	<0.1	0.02	6.5	0.6	0.06	9	0.7	<0.2
117785	Soil	12	12	0.96	368	0.189	1	1.86	0.034	0.52	<0.1	0.01	8.8	0.2	<0.05	8	0.5	<0.2
REP 117785	QC	11	12	0.93	354	0.180	<1	1.88	0.034	0.51	<0.1	<0.01	8.8	0.2	<0.05	7	0.6	<0.2
Reference Materials																		
STD DS8	Standard	13	122	0.62	283	0.108	2	0.89	0.084	0.43	3.1	0.21	2.0	5.4	0.15	5	5.5	5.1
STD DS8	Standard	12	124	0.63	276	0.107	4	0.90	0.084	0.43	3.0	0.23	2.0	5.5	0.18	4	5.8	5.1
STD DS8	Standard	14	116	0.59	268	0.110	3	0.89	0.083	0.41	2.9	0.17	2.3	5.1	0.20	5	4.8	4.6
STD DS8	Standard	15	115	0.60	275	0.114	3	0.91	0.096	0.42	3.0	0.18	2.4	5.1	0.16	5	4.8	4.5
STD DS8	Standard	13	100	0.56	255	0.106	2	0.87	0.095	0.39	2.8	0.19	2.0	5.0	0.12	4	4.6	4.4
STD DS8	Standard	13	107	0.58	263	0.104	2	0.84	0.094	0.39	3.0	0.19	2.0	5.1	0.15	5	5.1	4.7
STD DS8	Standard	14	103	0.55	265	0.103	2	0.85	0.081	0.38	3.0	0.21	1.8	5.2	0.12	5	5.3	4.9
STD DS8	Standard	15	113	0.59	278	0.115	3	0.88	0.083	0.40	2.9	0.19	1.8	5.2	0.15	4	5.6	4.9
STD DS8	Standard	14	114	0.61	267	0.115	2	0.89	0.082	0.40	3.0	0.18	1.8	5.2	0.18	5	4.8	4.9
STD DS8	Standard	14	118	0.63	274	0.118	2	0.91	0.090	0.41	3.0	0.19	2.0	5.2	0.21	5	5.2	5.1
STD DS8	Standard	11	110	0.57	257	0.098	3	0.82	0.078	0.40	2.7	0.20	1.9	5.0	0.14	4	4.6	4.9
STD DS8	Standard	11	112	0.60	252	0.099	3	0.85	0.082	0.41	2.8	0.20	2.0	5.1	0.14	4	5.0	4.7
STD DS8	Standard	11	110	0.57	238	0.098	2	0.76	0.074	0.38	2.7	0.19	1.7	5.0	0.14	4	4.9	4.5
STD DS8	Standard	12	111	0.59	257	0.102	2	0.85	0.082	0.39	2.9	0.19	1.8	5.3	0.13	4	5.6	4.9
STD DS8	Standard	12	115	0.52	257	0.103	3	0.83	0.077	0.39	2.8	0.19	2.0	5.1	0.18	4	4.7	4.4
STD DS8	Standard	14	113	0.53	260	0.106	1	0.83	0.090	0.41	3.1	0.19	2.1	5.3	0.15	4	4.6	4.5
STD DS8	Standard	13	108	0.56	262	0.107	3	0.82	0.084	0.38	2.6	0.19	1.9	4.9	0.14	4	4.7	4.9
STD DS8	Standard	14	110	0.58	269	0.110	2	0.85	0.089	0.40	2.7	0.19	2.1	5.0	0.15	4	4.4	4.6
STD DS8	Standard	13	108	0.54	248	0.106	2	0.80	0.074	0.36	2.7	0.19	1.8	4.9	0.16	4	5.1	4.3
STD DS8	Standard	13	106	0.55	247	0.107	3	0.81	0.074	0.36	2.6	0.19	1.7	4.8	0.15	4	4.8	4.2



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**Project:** Rosebute

**Report Date:** August 09, 2011

**Page:** 3 of 3 **Part** 1

# QUALITY CONTROL REPORT

WHI11000684.1

		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	14.0	113.0	126.6	321	1.9	40.6	8.1	627	2.61	28.4	2.8	129.1	7.3	68	2.5	5.9	7.1	48	0.72	0.079
STD DS8	Standard	12.5	105.7	128.5	299	1.7	35.9	7.2	564	2.32	25.3	2.8	103.9	6.9	65	2.0	5.6	6.7	40	0.65	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	<0.01	<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:** Rosebute

**Report Date:** August 09, 2011

**Page:** 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000684.1

		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	16	123	0.63	289	0.120	3	0.96	0.111	0.43	3.2	0.21	2.3	5.4	0.16	5	5.2	4.9
STD DS8	Standard	14	113	0.59	260	0.113	2	0.86	0.084	0.39	2.7	0.20	2.3	5.1	0.15	5	5.1	4.5
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
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<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  
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Submitted By: Lauren Wilson  
Receiving Lab: Canada-Whitehorse  
Received: July 21, 2011  
Report Date: August 06, 2011  
Page: 1 of 12

## CERTIFICATE OF ANALYSIS

WHI11000682.1

### CLIENT JOB INFORMATION

Project: Rosebute  
Shipment ID: 20110710134004  
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.

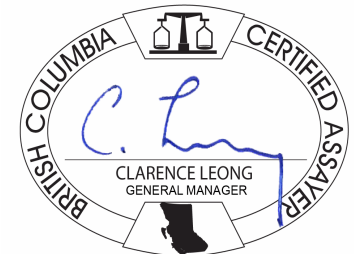
Invoice To: Taku Gold Corp  
680 3rd Ave, Suite 203  
Val D'Or QC J9P 1S5  
Canada

CC: Mark Fekete

### 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. 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: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

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
101347	Soil	2.1	16.7	9.1	51	<0.1	13.7	8.3	761	2.47	8.5	2.1	2.8	9.7	9	0.2	0.5	0.4	53	0.10	0.070
101348	Soil	1.5	10.7	9.9	31	<0.1	13.4	8.3	455	3.06	10.9	1.9	1.3	14.6	6	<0.1	0.5	0.4	56	0.05	0.062
101349	Soil	1.8	41.9	13.5	64	<0.1	33.4	12.2	464	3.16	9.5	1.8	1.2	8.2	30	0.1	0.5	0.5	71	0.32	0.037
101350	Soil	1.6	28.7	16.7	68	<0.1	23.0	7.8	283	2.27	7.4	3.1	<0.5	12.8	23	0.2	0.5	0.2	49	0.28	0.024
101351	Soil	1.2	33.7	14.4	59	<0.1	26.5	9.9	408	2.72	7.9	2.8	0.7	12.9	28	<0.1	0.6	0.2	59	0.34	0.025
101352	Soil	1.1	16.2	11.5	42	<0.1	13.9	5.6	189	1.87	5.6	2.6	2.4	13.7	14	<0.1	0.3	0.1	47	0.17	0.015
101353	Soil	1.4	15.6	9.9	42	<0.1	15.0	6.4	213	2.29	6.3	1.6	<0.5	7.3	16	<0.1	0.3	0.2	56	0.17	0.020
101354	Soil	1.5	22.4	11.6	41	<0.1	17.5	7.9	241	2.34	6.0	1.7	3.6	11.4	16	<0.1	0.4	0.2	59	0.17	0.012
101355	Soil	1.1	21.2	10.1	40	<0.1	19.9	7.6	218	2.42	5.9	1.7	<0.5	10.8	18	<0.1	0.3	0.2	59	0.18	0.011
101356	Soil	1.2	34.4	11.8	54	<0.1	27.7	10.7	399	2.75	9.6	1.2	2.4	8.6	28	0.1	0.6	0.2	65	0.34	0.031
101357	Soil	0.8	20.2	8.9	40	<0.1	15.9	7.6	244	2.25	5.2	1.1	0.7	10.3	19	<0.1	0.3	0.1	53	0.20	0.011
101358	Soil	0.9	27.5	9.8	48	<0.1	22.2	9.8	242	2.88	8.7	1.4	1.9	11.6	22	<0.1	0.5	0.2	66	0.22	0.013
101359	Soil	1.1	29.3	9.0	50	<0.1	20.7	8.6	293	2.76	6.2	1.5	<0.5	16.5	18	<0.1	0.4	0.1	58	0.17	0.011
101360	Soil	1.1	28.0	10.9	54	<0.1	24.9	10.9	295	2.92	7.7	1.4	1.9	11.5	23	<0.1	0.4	0.2	69	0.23	0.013
101361	Soil	0.9	36.2	6.5	56	<0.1	9.7	7.5	393	2.57	3.5	1.3	<0.5	13.1	24	<0.1	0.3	0.2	51	0.29	0.034
101362	Soil	1.0	28.6	8.7	60	<0.1	14.2	8.5	354	2.92	5.5	1.1	<0.5	13.7	17	<0.1	0.4	0.2	60	0.22	0.029
101363	Soil	1.0	22.5	9.0	51	<0.1	18.1	8.1	249	2.51	4.8	1.0	1.7	8.8	19	<0.1	0.4	0.1	58	0.22	0.016
101364	Soil	1.1	23.6	10.0	53	<0.1	20.6	9.9	306	2.72	7.1	1.8	1.8	10.5	23	<0.1	0.4	0.1	58	0.28	0.021
101365	Soil	0.9	14.7	7.6	56	<0.1	13.4	8.0	290	2.49	5.9	0.9	4.6	7.7	18	0.1	0.3	0.1	57	0.25	0.034
101366	Soil	1.0	16.3	10.8	50	<0.1	16.1	8.6	296	2.37	5.4	1.1	5.7	8.4	22	0.1	0.4	0.1	56	0.27	0.033
101367	Soil	1.0	20.1	9.3	59	0.1	17.6	9.1	283	2.70	6.6	1.4	2.8	8.5	25	0.1	0.3	0.1	64	0.32	0.036
101368	Soil	0.6	17.8	7.6	50	<0.1	15.7	9.2	306	2.45	5.0	1.2	1.9	6.7	24	0.1	0.3	0.1	56	0.33	0.041
101369	Soil	2.4	14.6	4.8	97	<0.1	8.0	19.2	785	4.96	1.5	1.6	0.6	7.6	34	<0.1	0.2	<0.1	120	0.55	0.063
101370	Soil	1.6	35.3	10.9	64	<0.1	18.4	10.9	460	3.04	5.3	1.6	1.9	10.7	30	<0.1	0.4	0.1	66	0.44	0.037
101371	Soil	1.3	23.6	8.3	55	<0.1	17.5	9.7	324	3.27	7.0	0.6	3.1	5.4	27	0.1	0.4	0.1	79	0.37	0.035
101372	Soil	0.8	63.5	7.6	78	<0.1	9.5	11.0	642	3.35	3.0	1.7	1.8	13.5	33	0.1	0.3	0.1	69	0.46	0.039
101375	Soil	1.0	13.8	7.7	66	<0.1	13.0	8.4	573	3.23	5.2	0.4	<0.5	5.4	14	<0.1	0.3	<0.1	53	0.14	0.033
101376	Soil	0.6	17.1	8.8	44	<0.1	15.1	7.3	295	2.50	5.7	0.5	2.9	3.5	17	<0.1	0.4	<0.1	51	0.16	0.016
101377	Soil	0.8	38.2	12.4	90	<0.1	8.1	6.5	352	4.06	4.7	0.9	<0.5	3.8	17	<0.1	0.4	0.1	42	0.20	0.027
101378	Soil	1.2	29.6	9.5	61	<0.1	28.5	9.5	329	3.15	9.0	0.9	1.4	5.4	24	0.1	0.5	0.1	64	0.18	0.041

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: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
101347	Soil	13	25	0.20	99	0.045	<1	1.40	0.006	0.07	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
101348	Soil	10	22	0.19	96	0.040	<1	1.43	0.005	0.04	0.1	0.03	1.6	<0.1	<0.05	7	0.7	<0.2
101349	Soil	19	44	0.53	317	0.066	1	1.84	0.014	0.05	0.1	0.04	5.6	<0.1	<0.05	5	0.9	<0.2
101350	Soil	23	32	0.36	209	0.047	<1	1.28	0.011	0.04	<0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
101351	Soil	20	36	0.45	272	0.076	1	1.75	0.015	0.05	0.1	0.04	5.0	<0.1	<0.05	5	0.6	<0.2
101352	Soil	19	25	0.31	118	0.070	<1	1.23	0.007	0.03	<0.1	0.01	2.4	<0.1	<0.05	4	0.8	<0.2
101353	Soil	15	27	0.30	141	0.069	<1	1.40	0.008	0.03	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
101354	Soil	18	31	0.33	173	0.072	<1	1.63	0.008	0.03	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
101355	Soil	16	34	0.37	175	0.080	<1	1.85	0.008	0.03	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
101356	Soil	21	42	0.47	329	0.086	<1	1.93	0.014	0.05	0.1	0.05	5.4	<0.1	<0.05	5	<0.5	<0.2
101357	Soil	21	30	0.37	158	0.080	<1	1.47	0.010	0.05	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
101358	Soil	29	41	0.44	223	0.094	<1	2.00	0.011	0.06	0.1	0.02	6.5	<0.1	<0.05	6	<0.5	<0.2
101359	Soil	29	34	0.42	195	0.089	<1	1.89	0.008	0.10	<0.1	0.04	4.4	0.1	<0.05	6	0.5	<0.2
101360	Soil	22	40	0.48	258	0.090	<1	2.02	0.009	0.06	<0.1	0.04	4.3	<0.1	<0.05	6	0.7	<0.2
101361	Soil	28	17	0.45	99	0.110	<1	1.60	0.008	0.16	0.2	0.02	2.1	0.2	<0.05	6	<0.5	<0.2
101362	Soil	19	25	0.49	127	0.111	<1	1.95	0.010	0.15	0.2	0.02	2.6	0.2	<0.05	7	<0.5	<0.2
101363	Soil	21	33	0.42	191	0.082	2	1.70	0.010	0.04	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
101364	Soil	25	34	0.47	248	0.086	<1	1.88	0.011	0.05	0.1	0.04	4.5	<0.1	<0.05	5	<0.5	<0.2
101365	Soil	15	26	0.48	124	0.102	<1	1.71	0.010	0.09	0.1	0.02	2.5	0.1	<0.05	6	<0.5	<0.2
101366	Soil	25	28	0.43	188	0.098	<1	1.61	0.011	0.06	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
101367	Soil	25	31	0.50	244	0.108	<1	1.92	0.013	0.07	0.2	0.04	3.5	<0.1	<0.05	6	0.6	<0.2
101368	Soil	18	27	0.45	214	0.092	2	1.52	0.011	0.08	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
101369	Soil	15	17	1.67	261	0.276	<1	3.16	0.009	1.01	<0.1	0.01	1.8	0.3	<0.05	9	<0.5	<0.2
101370	Soil	23	31	0.58	227	0.115	<1	1.82	0.014	0.21	0.2	0.03	4.3	0.1	<0.05	6	0.6	<0.2
101371	Soil	11	29	0.61	196	0.134	<1	2.04	0.014	0.11	0.2	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
101372	Soil	18	17	0.87	241	0.150	<1	2.01	0.011	0.39	0.2	<0.01	3.7	0.2	<0.05	8	0.7	<0.2
101375	Soil	7	21	0.52	186	0.146	<1	1.99	0.006	0.47	<0.1	0.01	5.9	0.2	<0.05	7	0.6	<0.2
101376	Soil	9	27	0.37	173	0.060	<1	1.53	0.006	0.08	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
101377	Soil	6	15	0.41	130	0.050	1	1.90	0.006	0.32	<0.1	0.01	10.2	0.2	<0.05	8	<0.5	<0.2
101378	Soil	18	42	0.49	158	0.114	2	1.87	0.011	0.20	0.1	<0.01	6.9	0.1	<0.05	6	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	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
101379	Soil			0.7	16.7	8.5	48	<0.1	18.2	8.1	459	2.49	4.9	0.7	1.6	4.3	24	<0.1	0.3	0.1	54	0.31	0.027
101380	Soil			1.1	41.4	14.4	63	<0.1	25.5	8.6	382	2.91	7.7	1.1	7.2	5.2	21	<0.1	0.4	0.2	65	0.27	0.029
101381	Soil			1.1	30.7	12.3	49	<0.1	27.7	9.5	275	2.79	8.7	0.9	4.6	4.7	24	0.1	0.6	0.1	61	0.26	0.023
101382	Soil			1.2	20.4	9.7	58	0.1	24.5	10.2	447	2.69	8.2	0.7	1.9	4.2	24	<0.1	0.4	0.2	63	0.35	0.047
101383	Soil			1.6	25.4	12.7	56	0.1	27.5	10.0	499	2.62	7.0	0.5	2.5	4.4	27	0.1	0.5	0.2	59	0.40	0.032
101384	Soil			0.6	24.3	9.3	52	<0.1	16.3	9.7	296	2.51	6.0	0.5	10.6	4.0	29	<0.1	0.5	0.2	49	0.34	0.025
101385	Soil			1.2	26.2	12.3	80	<0.1	18.5	7.8	471	3.32	5.2	0.7	1.6	3.8	42	<0.1	0.4	0.1	42	0.31	0.024
101386	Soil			0.8	24.2	9.3	50	<0.1	15.0	7.1	259	2.07	4.0	0.4	0.7	3.7	27	<0.1	0.4	0.2	47	0.29	0.022
101387	Soil			0.7	17.2	11.0	70	<0.1	9.8	8.3	566	3.13	4.9	0.6	1.5	4.0	21	<0.1	0.4	0.1	52	0.22	0.014
101388	Soil			1.1	30.4	8.8	78	<0.1	17.2	7.5	430	3.37	5.0	0.7	2.0	4.2	27	<0.1	0.4	0.1	46	0.24	0.013
101389	Soil			0.8	14.4	8.0	78	<0.1	8.2	7.4	403	3.27	4.1	1.1	0.5	5.0	11	<0.1	0.3	<0.1	38	0.13	0.025
101390	Soil			1.0	17.9	6.9	68	<0.1	6.8	5.8	342	3.22	4.3	1.4	<0.5	5.5	12	<0.1	0.4	<0.1	37	0.13	0.019
101391	Soil			0.7	19.7	9.3	75	<0.1	10.1	6.7	549	3.40	5.8	0.8	<0.5	5.9	14	<0.1	0.3	0.1	40	0.14	0.017
101392	Soil			1.2	17.3	9.2	71	<0.1	20.0	7.7	621	2.84	7.6	0.5	<0.5	3.2	16	<0.1	0.5	0.1	54	0.18	0.042
101393	Soil			0.6	21.6	9.3	86	<0.1	9.5	3.9	350	2.61	3.1	1.1	1.7	4.3	14	<0.1	0.3	<0.1	26	0.18	0.017
101394	Soil			0.8	26.4	20.2	77	<0.1	13.9	6.8	535	2.80	5.4	0.8	0.6	3.9	18	<0.1	0.3	0.2	41	0.20	0.041
101395	Soil			1.0	22.2	9.6	82	<0.1	18.2	8.6	558	3.23	6.9	0.8	3.1	5.6	20	<0.1	0.4	0.1	51	0.23	0.038
101396	Soil			1.0	29.9	8.8	58	<0.1	23.4	7.7	287	2.80	10.3	1.0	13.4	4.4	23	<0.1	0.6	0.1	54	0.31	0.051
101397	Soil			0.5	26.7	12.4	67	<0.1	19.3	8.7	546	2.95	8.4	0.7	3.3	4.5	32	<0.1	0.5	0.1	51	0.49	0.084
101398	Soil			0.8	13.9	40.0	150	0.5	8.5	9.0	684	4.67	6.1	1.2	<0.5	9.5	66	<0.1	0.3	0.4	96	0.62	0.170
101399	Soil			0.4	20.2	5.5	116	<0.1	9.5	12.7	736	5.09	3.1	1.6	0.5	6.7	48	<0.1	0.2	<0.1	97	0.69	0.124
104604	Soil			0.8	30.2	7.4	83	<0.1	20.7	17.8	629	4.02	7.4	0.4	<0.5	3.3	24	0.1	0.3	0.1	95	0.35	0.090
104605	Soil			0.5	44.9	4.7	95	<0.1	14.0	24.9	877	5.08	4.3	0.6	<0.5	3.8	42	<0.1	0.4	<0.1	120	0.48	0.046
104606	Soil			0.4	30.7	4.3	92	<0.1	38.9	23.7	847	4.45	3.0	0.6	<0.5	4.7	21	<0.1	0.2	<0.1	125	0.31	0.043
104607	Soil			0.8	33.9	10.7	88	<0.1	13.2	25.4	1058	5.31	5.2	0.4	<0.5	4.4	23	<0.1	0.2	0.1	111	0.27	0.087
104608	Soil			0.5	10.4	4.5	72	<0.1	9.1	19.3	831	4.92	2.5	0.5	<0.5	5.2	32	<0.1	0.2	<0.1	117	0.32	0.031
104609	Soil			0.6	16.8	5.7	81	<0.1	13.0	19.9	914	4.95	3.6	0.4	<0.5	6.9	30	<0.1	0.3	<0.1	105	0.28	0.054
104610	Soil			0.9	28.4	10.3	58	<0.1	30.8	10.8	278	3.00	12.9	0.6	3.3	6.1	13	<0.1	0.6	0.2	69	0.11	0.021
104611	Soil			1.3	27.0	13.6	61	<0.1	29.6	9.8	270	3.23	13.8	0.6	<0.5	8.6	12	0.1	0.7	0.2	77	0.11	0.024
104612	Soil			1.3	22.4	12.3	55	0.2	27.2	8.7	415	2.75	12.3	0.7	1.8	9.4	18	0.1	0.5	0.2	66	0.16	0.030

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	0.2
101379	Soil	14	31	0.44	242	0.094	1	1.44	0.015	0.11	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
101380	Soil	21	39	0.51	149	0.105	1	1.61	0.011	0.16	0.2	0.02	7.3	0.1	<0.05	5	<0.5	<0.2
101381	Soil	17	41	0.44	170	0.092	1	1.39	0.013	0.08	0.1	0.05	5.5	<0.1	<0.05	4	<0.5	<0.2
101382	Soil	12	40	0.48	310	0.072	<1	1.75	0.013	0.08	0.1	0.02	4.1	0.1	<0.05	4	<0.5	<0.2
101383	Soil	14	44	0.44	260	0.082	2	1.50	0.018	0.08	0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
101384	Soil	11	26	0.46	247	0.093	1	1.54	0.014	0.10	0.1	0.02	4.2	<0.1	<0.05	5	0.5	<0.2
101385	Soil	14	28	0.59	232	0.146	1	1.83	0.012	0.44	<0.1	0.02	6.2	0.2	<0.05	7	<0.5	<0.2
101386	Soil	12	23	0.39	198	0.111	<1	1.35	0.018	0.16	<0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
101387	Soil	16	18	0.60	220	0.175	1	1.59	0.011	0.48	<0.1	<0.01	6.0	0.2	<0.05	6	<0.5	<0.2
101388	Soil	19	28	0.60	218	0.141	<1	1.80	0.011	0.35	<0.1	0.03	8.1	0.2	<0.05	7	<0.5	<0.2
101389	Soil	16	14	0.51	128	0.083	<1	1.52	0.007	0.35	<0.1	<0.01	8.2	0.1	<0.05	7	<0.5	<0.2
101390	Soil	22	13	0.42	122	0.051	<1	1.44	0.006	0.25	<0.1	0.01	7.7	0.1	<0.05	7	<0.5	<0.2
101391	Soil	17	18	0.51	204	0.137	<1	2.02	0.007	0.51	<0.1	0.02	9.1	0.2	<0.05	8	<0.5	<0.2
101392	Soil	9	30	0.47	261	0.079	1	1.79	0.007	0.19	0.1	0.01	4.1	0.1	<0.05	6	<0.5	<0.2
101393	Soil	20	10	0.42	164	0.091	<1	1.34	0.007	0.45	<0.1	0.04	7.1	0.2	<0.05	7	<0.5	<0.2
101394	Soil	15	22	0.51	182	0.099	<1	1.64	0.008	0.44	<0.1	0.01	7.0	0.2	0.06	8	<0.5	<0.2
101395	Soil	16	28	0.63	199	0.116	<1	1.75	0.007	0.51	0.1	0.02	7.9	0.2	<0.05	7	<0.5	<0.2
101396	Soil	17	36	0.49	133	0.093	<1	1.46	0.009	0.19	0.2	0.03	6.6	0.1	0.06	5	<0.5	<0.2
101397	Soil	15	23	0.63	202	0.094	1	1.33	0.018	0.20	0.2	0.02	5.4	0.1	0.06	5	<0.5	<0.2
101398	Soil	26	17	1.20	121	0.107	1	2.24	0.006	0.35	<0.1	0.01	6.4	0.2	0.06	15	<0.5	<0.2
101399	Soil	22	31	1.30	368	0.128	1	2.41	0.007	0.76	<0.1	0.01	8.2	0.4	0.06	10	<0.5	<0.2
104604	Soil	8	37	1.48	267	0.212	1	2.66	0.013	0.49	0.2	0.02	2.6	0.2	0.06	7	<0.5	<0.2
104605	Soil	6	38	2.17	214	0.273	<1	3.45	0.011	0.89	0.1	<0.01	2.9	0.3	0.05	10	<0.5	<0.2
104606	Soil	13	84	2.13	238	0.273	<1	3.13	0.015	1.19	0.1	<0.01	4.2	0.5	<0.05	10	<0.5	<0.2
104607	Soil	5	25	1.81	210	0.247	<1	3.34	0.009	0.85	0.2	<0.01	3.0	0.3	<0.05	11	<0.5	<0.2
104608	Soil	9	18	1.92	230	0.285	<1	3.65	0.013	1.09	0.2	<0.01	2.5	0.4	<0.05	10	<0.5	<0.2
104609	Soil	15	24	1.75	194	0.240	<1	3.53	0.008	1.17	0.1	<0.01	2.6	0.4	<0.05	9	<0.5	<0.2
104610	Soil	9	38	0.56	193	0.084	2	2.55	0.007	0.07	0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
104611	Soil	10	44	0.58	184	0.083	<1	2.94	0.008	0.07	0.1	0.01	3.6	0.1	<0.05	7	<0.5	<0.2
104612	Soil	8	35	0.43	250	0.057	1	2.56	0.008	0.05	0.2	0.01	2.7	0.1	<0.05	7	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 4 of 12 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	
104613	Soil	1.7	23.8	13.8	67	<0.1	32.1	9.6	273	3.03	13.2	0.7	<0.5	9.9	12	0.1	0.6	0.2	68	0.12	0.046
104614	Soil	1.2	24.0	11.1	42	<0.1	26.6	6.7	203	2.29	9.2	1.3	0.8	26.0	11	<0.1	0.5	0.1	48	0.09	0.015
104615	Soil	1.5	34.7	12.5	58	<0.1	29.2	11.7	278	3.13	10.0	1.8	3.1	11.8	22	<0.1	0.6	0.2	74	0.20	0.014
104616	Soil	0.1	2.7	3.6	7	<0.1	1.3	0.3	71	0.53	0.5	1.7	<0.5	24.5	6	<0.1	<0.1	<0.1	2	0.06	0.006
104617	Soil	1.0	35.3	13.8	61	<0.1	21.9	9.6	489	2.68	8.1	4.0	5.2	15.2	24	0.1	0.6	0.3	56	0.27	0.018
104618	Soil	1.1	25.0	13.8	55	<0.1	23.1	9.9	235	2.68	9.5	2.0	2.3	11.6	15	0.2	0.5	0.3	58	0.15	0.017
104619	Soil	1.2	27.5	14.5	55	0.1	18.0	8.3	325	2.57	7.8	3.7	2.5	15.4	18	0.2	0.6	0.3	49	0.15	0.018
104620	Soil	0.8	21.1	11.8	49	<0.1	19.4	8.3	245	2.81	10.6	1.2	2.1	7.5	15	<0.1	0.6	0.2	65	0.12	0.011
104621	Soil	0.9	22.6	14.6	49	<0.1	18.2	8.1	264	2.34	8.3	2.4	8.4	21.4	12	<0.1	0.5	0.2	44	0.11	0.012
104622	Soil	1.2	33.5	13.7	60	<0.1	22.0	8.8	384	2.51	7.4	4.5	3.0	12.9	26	<0.1	0.5	0.4	54	0.26	0.026
104623	Soil	1.6	28.4	16.7	50	<0.1	12.3	5.1	240	1.98	5.8	7.8	1.5	14.1	12	<0.1	0.3	0.3	39	0.15	0.018
104624	Soil	1.5	16.8	11.6	40	<0.1	10.9	5.0	193	1.72	4.6	3.3	1.0	10.5	11	0.2	0.3	0.3	33	0.14	0.024
104625	Soil	0.9	19.4	9.9	47	<0.1	16.5	6.7	196	2.16	6.5	2.0	4.1	10.0	16	<0.1	0.4	0.2	48	0.23	0.027
104626	Soil	1.1	26.4	12.2	55	<0.1	20.2	7.6	258	2.67	7.4	3.0	4.2	9.1	22	<0.1	0.5	0.2	50	0.31	0.041
104627	Soil	1.1	23.7	10.1	55	<0.1	23.5	9.6	248	3.29	8.5	2.4	5.6	11.0	22	<0.1	0.5	0.2	59	0.28	0.018
104628	Soil	1.1	20.4	8.2	45	<0.1	17.0	6.1	194	1.95	5.5	2.8	1.9	9.8	18	<0.1	0.3	0.1	43	0.27	0.033
104629	Soil	1.0	30.7	11.7	67	<0.1	21.9	10.5	295	3.54	9.5	6.1	6.3	11.5	21	<0.1	0.6	0.2	65	0.23	0.027
104630	Soil	1.4	33.1	12.6	64	0.1	24.9	11.4	338	3.83	11.1	5.8	3.4	10.8	22	0.1	0.6	0.3	70	0.27	0.028
104631	Soil	0.8	24.3	11.2	55	<0.1	10.4	4.4	234	2.07	10.0	6.8	1.9	41.9	13	<0.1	0.5	0.4	30	0.16	0.011
104632	Soil	1.1	28.9	10.4	49	0.2	23.5	9.5	298	3.73	10.4	1.4	5.6	5.6	15	<0.1	0.5	0.2	71	0.16	0.028
104633	Soil	0.9	38.3	10.8	62	<0.1	22.8	9.8	280	3.65	9.9	2.4	2.3	10.5	20	<0.1	0.5	0.5	68	0.21	0.014
104634	Soil	1.3	23.0	11.2	61	<0.1	27.4	12.9	264	4.05	12.0	0.9	2.8	6.1	12	<0.1	0.6	0.2	70	0.14	0.023
104635	Soil	1.0	28.0	11.5	55	0.1	19.6	9.0	227	3.29	8.2	2.8	3.7	11.9	16	<0.1	0.4	0.3	59	0.13	0.013
104636	Soil	1.5	17.5	11.3	47	0.2	17.2	9.4	245	3.76	11.1	0.9	4.8	5.6	10	0.1	0.5	0.3	66	0.11	0.029
104637	Soil	0.8	18.9	8.3	59	<0.1	17.1	9.6	287	3.43	6.6	1.1	1.7	7.0	29	<0.1	0.4	0.2	63	0.26	0.022
104638	Soil	0.6	21.6	5.4	68	<0.1	15.1	14.4	557	4.28	4.3	0.6	1.7	5.4	27	<0.1	0.2	<0.1	84	0.29	0.030
104639	Soil	0.4	15.1	6.9	68	<0.1	10.6	13.9	578	4.46	3.6	0.5	1.1	4.2	42	<0.1	0.1	<0.1	83	0.25	0.031
104640	Soil	0.6	17.9	6.7	67	<0.1	13.8	15.5	616	4.48	4.6	0.5	2.2	5.0	33	<0.1	0.2	<0.1	85	0.27	0.037
104641	Soil	0.7	20.4	6.2	69	<0.1	16.0	14.5	613	4.18	4.4	0.7	2.3	6.4	37	<0.1	0.3	<0.1	82	0.34	0.040
111505	Soil	0.3	30.8	4.1	35	<0.1	21.2	13.0	208	2.11	2.4	0.3	1.6	1.2	19	<0.1	0.2	<0.1	51	0.44	0.015

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
104613	Soil	9	37	0.53	182	0.064	1	2.51	0.008	0.07	0.2	0.03	2.8	<0.1	<0.05	7	<0.5	<0.2
104614	Soil	8	31	0.37	96	0.057	1	2.44	0.008	0.05	0.1	0.02	2.8	0.1	<0.05	6	0.5	<0.2
104615	Soil	23	49	0.60	289	0.088	<1	2.37	0.011	0.05	0.1	0.07	7.8	<0.1	<0.05	6	<0.5	<0.2
104616	Soil	17	2	0.06	37	0.002	<1	0.34	0.004	0.04	<0.1	0.01	0.6	<0.1	<0.05	1	<0.5	<0.2
104617	Soil	23	31	0.51	217	0.083	<1	1.68	0.015	0.06	0.1	0.06	6.5	<0.1	<0.05	5	<0.5	<0.2
104618	Soil	14	33	0.51	174	0.068	<1	2.29	0.010	0.05	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
104619	Soil	31	31	0.42	168	0.061	<1	1.83	0.009	0.06	0.1	0.05	5.5	<0.1	<0.05	5	<0.5	<0.2
104620	Soil	20	41	0.53	171	0.086	<1	2.20	0.009	0.04	0.1	0.04	5.4	<0.1	<0.05	6	<0.5	<0.2
104621	Soil	18	27	0.37	131	0.055	<1	1.67	0.008	0.05	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
104622	Soil	25	32	0.50	233	0.075	<1	1.69	0.017	0.05	0.2	0.06	4.8	<0.1	<0.05	5	<0.5	<0.2
104623	Soil	25	23	0.34	127	0.050	<1	1.27	0.007	0.03	0.1	0.04	2.4	<0.1	<0.05	4	0.6	<0.2
104624	Soil	17	19	0.27	96	0.041	1	1.19	0.006	0.04	<0.1	0.03	1.5	<0.1	<0.05	4	0.6	<0.2
104625	Soil	17	25	0.43	166	0.064	1	1.43	0.009	0.03	0.1	0.02	2.8	<0.1	<0.05	4	0.7	<0.2
104626	Soil	19	30	0.48	267	0.070	2	1.39	0.010	0.04	0.2	0.05	3.9	<0.1	<0.05	4	0.7	<0.2
104627	Soil	19	42	0.55	259	0.074	1	1.92	0.010	0.04	0.1	0.04	4.4	<0.1	<0.05	6	<0.5	<0.2
104628	Soil	18	27	0.43	162	0.070	2	1.19	0.010	0.04	<0.1	0.03	2.7	<0.1	<0.05	4	1.1	<0.2
104629	Soil	23	37	0.57	282	0.081	1	2.05	0.011	0.05	0.2	0.05	5.7	<0.1	<0.05	6	0.6	<0.2
104630	Soil	26	41	0.60	305	0.073	1	2.34	0.011	0.05	0.1	0.07	5.2	<0.1	<0.05	6	0.7	<0.2
104631	Soil	34	18	0.27	120	0.041	<1	0.99	0.010	0.04	<0.1	0.04	3.5	<0.1	<0.05	3	<0.5	<0.2
104632	Soil	16	41	0.55	249	0.077	1	2.45	0.013	0.04	0.1	0.05	5.6	0.1	<0.05	6	1.0	<0.2
104633	Soil	22	38	0.57	215	0.097	2	2.01	0.013	0.05	0.1	0.08	6.7	<0.1	<0.05	6	<0.5	<0.2
104634	Soil	10	39	0.59	232	0.071	1	2.76	0.009	0.05	0.1	0.01	3.1	0.1	<0.05	6	0.6	<0.2
104635	Soil	29	37	0.47	158	0.075	2	2.08	0.009	0.04	<0.1	0.05	5.4	<0.1	<0.05	5	0.5	<0.2
104636	Soil	10	36	0.43	161	0.060	1	2.30	0.007	0.04	0.2	0.04	2.3	0.1	<0.05	6	0.6	<0.2
104637	Soil	17	29	0.69	199	0.095	<1	1.89	0.010	0.08	0.1	0.03	2.8	0.1	<0.05	5	1.1	<0.2
104638	Soil	17	26	1.52	222	0.185	<1	2.39	0.009	0.48	0.1	<0.01	2.3	0.2	<0.05	6	0.8	<0.2
104639	Soil	8	22	1.45	151	0.184	<1	2.53	0.008	0.55	0.1	0.02	1.9	0.2	<0.05	7	0.5	<0.2
104640	Soil	12	25	1.45	198	0.187	<1	2.58	0.010	0.57	0.2	<0.01	2.2	0.2	<0.05	7	0.6	<0.2
104641	Soil	17	25	1.36	243	0.183	<1	2.26	0.010	0.58	0.1	0.01	2.8	0.2	<0.05	6	1.0	<0.2
111505	Soil	9	33	1.20	134	0.095	<1	1.63	0.016	0.04	<0.1	0.01	3.2	<0.1	<0.05	4	0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	
111506	Soil		0.7	36.3	8.5	69	<0.1	21.1	9.5	352	3.87	8.7	0.8	4.6	4.6	20	<0.1	0.5	0.1	65	0.27	0.015
111507	Soil		0.8	17.0	10.9	53	<0.1	18.1	8.1	222	3.58	10.3	0.4	2.0	3.6	15	<0.1	0.5	0.1	60	0.16	0.017
111508	Soil		1.4	36.7	11.2	88	0.2	24.2	8.3	217	4.59	7.6	0.9	1.9	7.4	9	<0.1	0.3	0.2	72	0.11	0.017
111509	Soil		0.6	38.8	5.5	44	<0.1	12.1	14.7	351	5.59	5.5	0.5	1.2	2.1	20	<0.1	0.3	<0.1	130	0.44	0.083
111510	Soil		0.3	108.9	1.5	62	<0.1	13.6	20.6	577	5.08	1.5	0.3	0.8	0.8	13	<0.1	0.1	<0.1	152	0.58	0.121
111511	Soil		0.2	49.1	2.3	60	<0.1	20.3	18.8	748	5.20	1.4	0.4	2.7	0.7	22	<0.1	0.1	<0.1	138	0.75	0.157
111512	Soil		1.2	15.9	11.5	49	<0.1	24.6	9.7	270	3.69	8.3	0.3	1.6	1.9	11	<0.1	0.4	<0.1	71	0.15	0.032
111513	Soil		1.0	48.9	7.0	65	<0.1	13.4	18.6	552	6.32	4.2	0.3	0.7	1.6	19	<0.1	0.5	<0.1	133	0.36	0.077
111514	Soil		0.8	37.7	8.1	51	<0.1	24.3	9.0	268	3.33	8.9	0.9	4.9	4.8	23	<0.1	0.6	0.1	58	0.32	0.027
111515	Soil		0.7	38.1	8.3	59	<0.1	16.9	9.9	268	3.83	8.9	0.4	0.9	2.3	12	<0.1	0.3	<0.1	66	0.22	0.021
111516	Soil		0.5	22.3	20.8	111	<0.1	11.7	15.9	682	6.55	3.0	0.6	0.8	4.4	15	0.1	0.2	0.1	111	0.22	0.048
111517	Soil		0.5	56.5	2.2	46	<0.1	6.0	13.0	236	4.01	1.3	0.4	1.2	0.9	13	<0.1	0.2	<0.1	85	0.39	0.039
111518	Soil		0.9	60.7	8.1	72	<0.1	11.7	17.1	362	6.25	4.2	0.5	1.0	2.1	21	<0.1	0.4	<0.1	119	0.33	0.014
111519	Soil		0.6	37.3	10.1	53	<0.1	16.1	13.0	313	4.14	4.7	0.5	2.2	3.2	31	<0.1	0.8	<0.1	78	0.67	0.021
111520	Soil		1.4	19.3	8.4	77	<0.1	14.7	8.3	508	4.61	7.6	0.5	1.9	4.8	18	<0.1	0.4	0.1	52	0.25	0.029
111521	Soil		0.9	20.3	12.9	93	<0.1	14.2	6.7	398	3.29	6.9	0.8	4.3	4.0	12	<0.1	0.5	0.1	49	0.11	0.020
111522	Soil		0.7	35.8	8.7	53	<0.1	21.6	8.0	279	2.93	9.5	0.6	2.7	3.9	21	<0.1	0.5	0.2	62	0.22	0.025
111523	Soil		0.5	26.4	7.3	51	<0.1	15.4	9.1	309	2.88	6.4	0.5	4.1	2.9	21	<0.1	0.4	0.1	70	0.30	0.027
111524	Soil		0.8	31.3	8.9	47	<0.1	26.2	10.1	369	2.76	9.7	0.8	4.6	4.2	28	<0.1	0.6	0.2	63	0.42	0.041
111525	Soil		0.6	15.4	7.0	35	<0.1	14.4	5.9	174	2.17	5.8	0.4	0.9	2.3	23	<0.1	0.3	0.1	51	0.33	0.024
111526	Soil		0.6	24.6	8.0	47	0.1	22.3	9.3	351	2.87	9.0	0.7	4.6	3.9	28	<0.1	0.5	0.2	59	0.38	0.033
111527	Soil		0.8	21.7	9.4	49	<0.1	20.0	10.3	290	2.81	8.1	0.4	2.5	3.3	22	<0.1	0.5	0.1	63	0.30	0.019
111528	Soil		1.1	37.2	10.5	64	<0.1	26.4	12.1	406	3.29	8.3	0.5	3.4	4.0	30	<0.1	0.6	0.2	75	0.42	0.043
111529	Soil		0.6	31.7	7.8	70	<0.1	15.4	12.9	416	3.63	4.8	0.4	0.8	3.0	26	<0.1	0.4	0.1	89	0.34	0.016
111530	Soil		0.6	22.6	7.3	71	<0.1	16.1	8.9	388	3.34	6.3	0.4	3.4	5.1	16	<0.1	0.4	0.1	74	0.20	0.030
111531	Soil		0.7	28.3	13.3	73	0.1	22.2	11.8	480	3.75	8.3	1.0	3.7	7.1	21	<0.1	0.5	0.2	83	0.25	0.039
111532	Soil		0.4	44.8	4.7	71	<0.1	21.3	16.2	579	4.09	7.6	0.6	3.8	3.6	21	<0.1	0.4	<0.1	107	0.43	0.031
111533	Soil		0.8	32.3	11.8	67	<0.1	28.4	12.6	396	3.33	11.8	1.0	2.6	4.9	27	<0.1	0.8	0.2	73	0.40	0.036
111534	Soil		0.7	57.1	7.0	116	<0.1	18.5	21.9	826	4.92	3.2	0.6	1.4	2.2	31	<0.1	0.3	<0.1	117	0.47	0.065
111535	Soil		0.5	42.6	30.1	109	<0.1	18.0	17.3	935	5.87	6.2	1.4	2.8	9.8	22	<0.1	0.3	0.3	142	0.33	0.049

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Page: 5 of 12 Part 2

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	
111506	Soil	20	32	0.80	265	0.138	<1	1.99	0.011	0.22	0.1	0.02	7.1	0.2	<0.05	7	<0.5	<0.2
111507	Soil	8	33	0.54	210	0.079	<1	2.20	0.007	0.10	<0.1	0.02	3.2	<0.1	<0.05	6	0.8	<0.2
111508	Soil	13	40	0.68	227	0.141	<1	2.49	0.006	0.48	<0.1	0.02	3.7	0.4	<0.05	6	0.8	<0.2
111509	Soil	10	16	1.03	348	0.158	<1	2.32	0.012	0.41	<0.1	<0.01	7.3	0.2	<0.05	8	0.8	<0.2
111510	Soil	6	15	1.59	339	0.211	<1	2.28	0.021	0.88	<0.1	<0.01	3.9	0.2	<0.05	6	0.7	<0.2
111511	Soil	4	29	1.81	277	0.108	<1	2.14	0.019	0.48	<0.1	0.02	7.9	0.1	<0.05	8	<0.5	<0.2
111512	Soil	5	34	0.45	177	0.079	<1	2.46	0.009	0.06	<0.1	0.02	3.1	0.1	<0.05	7	<0.5	<0.2
111513	Soil	5	19	1.18	355	0.158	<1	2.66	0.007	0.79	<0.1	0.02	5.7	0.3	<0.05	8	0.7	<0.2
111514	Soil	18	33	0.59	261	0.100	1	1.53	0.015	0.06	0.2	0.03	7.2	<0.1	<0.05	5	<0.5	<0.2
111515	Soil	5	21	0.65	205	0.113	<1	2.13	0.016	0.39	<0.1	0.02	5.3	0.2	<0.05	6	0.7	<0.2
111516	Soil	5	30	1.58	332	0.202	<1	2.63	0.007	1.44	<0.1	0.08	9.4	0.5	<0.05	11	0.6	<0.2
111517	Soil	4	12	0.85	221	0.081	<1	1.93	0.018	0.42	<0.1	0.01	6.2	<0.1	<0.05	5	1.0	<0.2
111518	Soil	4	16	1.00	517	0.069	<1	2.69	0.007	0.67	<0.1	<0.01	9.8	0.2	<0.05	8	0.7	<0.2
111519	Soil	11	26	0.72	352	0.041	<1	2.03	0.008	0.11	0.1	0.03	8.2	<0.1	<0.05	6	0.6	<0.2
111520	Soil	5	26	0.73	167	0.172	2	2.34	0.006	0.62	0.1	0.01	9.9	0.2	<0.05	9	0.7	<0.2
111521	Soil	13	22	0.55	158	0.126	3	1.76	0.006	0.52	<0.1	0.04	6.7	0.2	<0.05	8	0.5	<0.2
111522	Soil	14	31	0.55	209	0.090	2	1.49	0.013	0.14	0.1	0.04	6.2	0.1	<0.05	5	1.0	<0.2
111523	Soil	10	25	0.66	253	0.108	2	1.52	0.012	0.22	0.1	<0.01	4.4	0.1	<0.05	5	0.7	<0.2
111524	Soil	13	36	0.51	324	0.081	3	1.31	0.024	0.06	0.2	0.05	5.2	<0.1	<0.05	4	<0.5	<0.2
111525	Soil	9	24	0.42	249	0.069	2	1.17	0.012	0.06	0.2	0.01	2.7	<0.1	<0.05	4	0.7	<0.2
111526	Soil	11	30	0.56	296	0.075	1	1.39	0.022	0.07	0.1	0.03	5.2	<0.1	<0.05	4	<0.5	<0.2
111527	Soil	9	33	0.58	228	0.094	<1	1.57	0.014	0.11	<0.1	0.01	3.7	<0.1	<0.05	5	0.5	<0.2
111528	Soil	13	36	0.73	323	0.116	1	1.81	0.021	0.20	0.1	0.03	5.7	0.1	<0.05	6	0.7	<0.2
111529	Soil	9	34	1.10	392	0.167	<1	2.24	0.012	0.50	<0.1	0.02	4.8	0.3	<0.05	7	0.9	<0.2
111530	Soil	10	25	0.74	228	0.159	1	1.71	0.009	0.69	<0.1	0.02	7.3	0.3	<0.05	7	0.8	<0.2
111531	Soil	13	34	0.81	348	0.163	2	2.09	0.009	0.65	0.1	0.02	7.6	0.3	<0.05	7	0.7	<0.2
111532	Soil	16	25	1.44	336	0.179	<1	2.27	0.019	0.83	0.1	0.05	7.7	0.3	<0.05	7	0.7	<0.2
111533	Soil	17	41	0.56	278	0.094	2	1.89	0.011	0.24	0.1	0.02	6.8	0.1	<0.05	6	1.0	<0.2
111534	Soil	9	35	1.87	429	0.309	<1	2.96	0.010	1.47	<0.1	0.02	5.0	0.4	<0.05	9	<0.5	<0.2
111535	Soil	26	34	1.55	355	0.253	1	2.72	0.009	1.15	<0.1	0.02	15.2	0.3	<0.05	13	0.9	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
111536	Soil	1.4	41.7	8.3	87	<0.1	16.2	13.8	555	5.07	6.9	0.9	<0.5	4.7	22	<0.1	0.3	0.1	113	0.29	0.051
111537	Soil	1.2	62.3	12.9	97	<0.1	22.4	11.2	680	4.79	62.5	1.4	1.9	8.5	18	<0.1	0.6	0.1	107	0.47	0.157
111538	Soil	1.4	30.3	9.3	73	0.2	28.1	11.2	329	3.60	11.4	0.8	2.3	6.2	31	<0.1	0.4	0.6	74	0.15	0.027
111539	Soil	2.0	40.6	6.6	70	0.2	12.3	5.7	413	5.07	5.0	1.4	4.7	15.7	50	<0.1	0.3	3.0	59	0.07	0.045
111540	Soil	1.7	46.5	5.0	64	0.2	10.5	5.1	373	5.08	3.6	1.5	0.8	17.2	52	<0.1	0.2	2.6	48	0.07	0.048
111541	Soil	1.9	21.6	7.6	71	<0.1	14.8	7.6	469	3.92	5.2	2.0	2.1	18.7	82	<0.1	0.2	0.5	72	0.12	0.038
111542	Soil	1.9	14.0	4.4	80	<0.1	7.8	7.3	773	3.85	1.5	2.5	<0.5	24.3	47	<0.1	0.1	0.4	65	0.12	0.040
111543	Soil	2.4	22.6	11.2	57	0.2	18.2	9.7	239	3.29	8.6	1.9	1.3	7.4	13	<0.1	0.4	0.2	74	0.11	0.034
111544	Soil	2.6	24.1	6.2	50	<0.1	13.2	10.4	353	4.02	5.1	1.4	4.3	9.5	53	<0.1	0.3	<0.1	78	0.16	0.025
111545	Soil	1.4	29.3	9.3	52	<0.1	22.9	10.7	375	3.15	9.4	1.9	1.3	8.5	22	<0.1	0.5	0.1	65	0.18	0.025
111546	Soil	1.7	24.5	3.8	95	<0.1	6.4	5.8	677	4.79	3.2	4.4	1.7	25.7	33	<0.1	0.2	<0.1	63	0.19	0.046
111547	Soil	1.1	28.3	9.7	51	<0.1	22.1	10.8	356	2.85	9.9	1.5	1.7	5.0	20	<0.1	0.5	0.2	63	0.22	0.047
111548	Soil	1.2	16.0	10.1	61	<0.1	16.7	8.1	330	3.22	7.1	1.0	1.0	8.0	22	<0.1	0.3	0.1	72	0.19	0.018
111549	Soil	1.0	18.3	7.8	70	<0.1	14.6	12.1	529	3.61	4.1	0.8	<0.5	9.2	12	<0.1	0.3	0.1	66	0.13	0.028
111550	Soil	1.1	12.0	6.0	55	<0.1	9.5	7.1	509	3.03	4.0	1.2	0.9	9.0	17	<0.1	0.2	0.1	62	0.19	0.028
111551	Soil	0.9	10.5	7.0	54	<0.1	9.9	10.1	542	3.53	5.3	1.0	2.7	8.1	35	<0.1	0.2	<0.1	65	0.19	0.031
111552	Soil	0.8	15.3	5.1	52	<0.1	4.8	4.7	435	5.00	1.2	4.2	<0.5	27.1	146	<0.1	0.1	0.3	54	0.11	0.052
111553	Soil	1.0	24.7	10.2	54	<0.1	20.5	10.1	288	3.15	8.8	1.4	0.9	8.8	21	<0.1	0.6	0.2	65	0.13	0.018
111554	Soil	0.4	18.2	5.2	61	<0.1	4.5	3.8	324	2.48	1.7	1.2	<0.5	11.2	35	<0.1	0.1	0.1	47	0.13	0.013
111555	Soil	0.9	150.4	6.5	152	<0.1	19.5	9.6	467	4.51	1.0	3.4	2.1	12.6	120	<0.1	<0.1	0.1	87	0.21	0.054
111556	Soil	0.9	43.6	4.5	293	<0.1	14.7	14.9	246	3.65	3.1	1.2	<0.5	2.6	107	<0.1	0.2	0.1	70	0.19	0.024
111557	Soil	0.7	28.0	3.5	390	<0.1	14.9	17.8	408	5.82	1.5	1.6	1.3	6.6	137	<0.1	<0.1	<0.1	162	0.64	0.175
111558	Soil	1.1	24.2	13.6	106	<0.1	14.5	8.3	254	2.71	5.8	0.6	1.8	3.9	52	0.1	0.3	0.2	57	0.12	0.024
111559	Soil	1.3	18.9	11.4	53	0.1	16.3	7.4	199	2.87	8.5	1.0	<0.5	4.3	36	<0.1	0.5	0.2	67	0.10	0.034
111560	Soil	18.0	42.8	27.6	199	0.2	8.6	3.6	595	4.00	5.2	2.2	1.0	13.9	39	0.2	0.2	0.8	66	0.06	0.054
111561	Soil	2.7	104.7	38.2	226	0.2	32.5	8.0	562	3.63	3.7	1.6	1.0	8.5	57	0.6	0.2	0.3	133	0.12	0.037
111562	Soil	1.6	43.5	14.9	96	<0.1	28.6	10.7	301	3.17	9.0	1.4	3.0	8.0	27	0.2	0.5	0.2	65	0.23	0.024
111563	Soil	1.9	19.8	9.0	163	<0.1	14.5	25.8	1267	4.66	4.0	0.7	<0.5	2.8	18	0.2	0.3	0.1	64	0.36	0.143
111564	Soil	1.1	34.0	7.9	136	<0.1	17.5	11.3	681	4.78	5.6	0.7	4.3	2.8	43	<0.1	0.5	<0.1	69	0.62	0.069
111565	Soil	0.8	45.2	5.5	50	<0.1	18.3	15.0	281	3.03	4.2	0.2	1.1	1.0	47	<0.1	0.2	<0.1	76	0.84	0.048

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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
111536	Soil	15	37	1.08	455	0.238	<1	2.77	0.011	1.06	<0.1	<0.01	11.5	0.3	<0.05	10	0.7	<0.2
111537	Soil	34	60	1.21	363	0.218	<1	2.59	0.009	1.18	<0.1	0.03	8.9	0.6	<0.05	11	1.3	0.3
111538	Soil	12	33	0.68	223	0.111	3	2.80	0.011	0.11	0.2	0.05	3.3	0.3	0.05	7	0.8	<0.2
111539	Soil	39	18	0.70	347	0.161	1	2.65	0.045	0.66	0.1	0.02	3.7	0.6	0.52	7	1.0	0.4
111540	Soil	43	14	0.66	311	0.148	<1	2.47	0.047	0.75	0.1	0.01	3.4	0.6	0.59	6	1.1	0.7
111541	Soil	40	19	1.03	243	0.203	1	3.29	0.016	0.45	0.1	<0.01	4.4	0.4	0.11	9	<0.5	<0.2
111542	Soil	12	9	1.32	169	0.249	<1	3.52	0.014	0.82	<0.1	<0.01	5.4	0.6	<0.05	10	0.9	<0.2
111543	Soil	21	34	0.45	160	0.098	<1	2.62	0.009	0.05	0.2	0.03	3.6	0.2	<0.05	7	0.6	<0.2
111544	Soil	14	21	0.98	167	0.219	<1	3.05	0.013	0.48	<0.1	0.02	3.1	0.4	<0.05	8	0.6	<0.2
111545	Soil	24	35	0.62	223	0.108	<1	2.20	0.011	0.11	0.1	0.03	5.5	0.2	<0.05	6	0.9	<0.2
111546	Soil	53	10	1.27	209	0.230	<1	2.37	0.011	0.99	<0.1	<0.01	7.3	0.7	0.10	10	0.9	<0.2
111547	Soil	18	34	0.54	233	0.079	2	1.95	0.012	0.05	0.2	0.06	4.8	0.1	<0.05	5	0.8	<0.2
111548	Soil	18	25	0.71	166	0.139	<1	2.37	0.011	0.13	0.1	0.02	3.2	0.2	<0.05	8	0.5	<0.2
111549	Soil	9	21	0.86	127	0.174	<1	3.13	0.010	0.34	0.1	0.01	3.5	0.4	<0.05	8	0.9	<0.2
111550	Soil	20	16	0.86	132	0.175	<1	2.03	0.010	0.37	0.2	<0.01	3.2	0.3	<0.05	8	<0.5	<0.2
111551	Soil	13	18	0.83	117	0.164	<1	2.50	0.009	0.38	0.1	0.02	2.4	0.3	<0.05	8	0.6	<0.2
111552	Soil	71	10	1.24	240	0.209	<1	3.72	0.017	1.06	<0.1	<0.01	4.2	0.6	0.31	10	<0.5	<0.2
111553	Soil	23	36	0.55	195	0.104	<1	2.63	0.013	0.10	<0.1	0.02	4.0	0.2	<0.05	6	0.7	<0.2
111554	Soil	24	9	0.78	107	0.166	<1	1.91	0.010	0.43	<0.1	<0.01	5.3	0.3	<0.05	7	0.8	<0.2
111555	Soil	60	84	1.80	607	0.259	<1	3.44	0.009	0.84	<0.1	<0.01	2.9	0.4	0.24	10	1.2	<0.2
111556	Soil	5	14	1.44	354	0.267	<1	3.43	0.011	0.76	<0.1	<0.01	1.1	0.4	<0.05	12	<0.5	<0.2
111557	Soil	23	15	2.79	669	0.391	<1	3.98	0.016	1.90	<0.1	<0.01	2.1	0.6	<0.05	22	<0.5	<0.2
111558	Soil	6	23	0.62	158	0.114	1	2.15	0.009	0.17	<0.1	0.02	2.1	0.1	<0.05	7	<0.5	<0.2
111559	Soil	13	30	0.40	128	0.065	<1	1.68	0.011	0.08	0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
111560	Soil	28	15	1.05	321	0.153	<1	2.42	0.016	0.77	<0.1	<0.01	6.3	0.3	0.46	9	<0.5	<0.2
111561	Soil	24	78	1.63	598	0.202	<1	2.82	0.011	0.81	<0.1	0.01	4.7	0.4	<0.05	9	1.2	<0.2
111562	Soil	23	39	0.66	257	0.090	<1	2.06	0.014	0.17	<0.1	0.01	3.9	0.2	<0.05	7	<0.5	<0.2
111563	Soil	7	21	0.65	211	0.093	<1	2.19	0.017	0.30	<0.1	0.01	7.1	<0.1	<0.05	10	<0.5	<0.2
111564	Soil	14	25	0.83	214	0.106	<1	2.91	0.012	0.15	<0.1	0.02	7.3	<0.1	<0.05	11	<0.5	<0.2
111565	Soil	3	29	0.46	134	0.097	<1	3.11	0.041	0.07	<0.1	<0.01	4.3	<0.1	<0.05	8	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 7 of 12 Part 1

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
111566	Soil			0.8	67.9	8.0	39	<0.1	19.5	13.6	331	3.38	5.2	0.3	0.8	1.7	82	<0.1	0.2	<0.1	99	0.77	0.053
111567	Soil			1.5	179.1	3.8	35	<0.1	28.5	21.2	258	3.90	3.8	0.9	2.0	5.9	44	<0.1	0.2	<0.1	103	0.56	0.091
111568	Soil			0.6	34.8	7.2	44	<0.1	24.7	12.1	209	2.70	5.8	0.3	1.6	3.4	64	<0.1	0.3	<0.1	62	0.34	0.023
111569	Soil			0.2	63.5	2.1	80	<0.1	14.7	18.8	633	4.61	1.2	0.5	<0.5	2.2	75	<0.1	<0.1	<0.1	112	1.26	0.224
111570	Soil			0.8	17.4	7.5	49	<0.1	8.0	7.1	418	2.38	2.6	1.7	<0.5	12.5	70	<0.1	0.2	<0.1	40	0.88	0.038
111571	Soil			1.0	25.7	15.0	116	<0.1	14.4	6.5	663	3.46	3.3	0.6	3.1	2.7	101	<0.1	0.3	<0.1	54	0.94	0.044
111572	Soil			1.0	18.0	10.9	101	<0.1	8.5	9.7	1074	4.63	3.1	0.8	<0.5	2.8	121	<0.1	0.1	<0.1	49	1.42	0.095
111573	Soil			0.9	41.8	9.6	78	<0.1	12.8	10.7	422	3.46	4.6	0.8	1.5	2.9	65	<0.1	0.3	0.2	85	0.73	0.046
107596	Soil			1.1	31.7	10.1	89	<0.1	34.1	15.6	266	3.70	8.8	1.2	2.1	7.5	17	0.2	0.5	0.3	72	0.18	0.034
107597	Soil			0.9	36.4	9.2	61	<0.1	31.1	11.9	368	2.94	8.5	1.4	3.1	6.7	22	<0.1	0.4	0.1	60	0.24	0.041
107598	Soil			2.9	44.4	9.1	71	0.2	17.3	6.9	317	4.28	4.8	2.6	2.1	16.5	34	<0.1	0.3	0.3	44	0.10	0.064
107599	Soil			1.3	36.9	10.1	94	<0.1	43.2	18.3	442	4.04	4.3	1.6	2.3	11.2	13	<0.1	0.2	0.2	58	0.17	0.042
107600	Soil			1.0	31.1	5.0	58	<0.1	37.5	17.1	270	3.14	4.6	0.7	2.1	3.7	19	<0.1	0.2	0.2	65	0.43	0.142
107601	Soil			0.7	34.9	7.7	60	<0.1	36.1	13.1	284	2.84	7.2	0.9	2.9	8.6	14	<0.1	0.4	0.1	59	0.20	0.014
107602	Soil			1.5	25.4	11.6	137	<0.1	30.7	19.2	990	5.73	2.5	2.3	0.7	13.0	30	<0.1	0.2	<0.1	79	0.25	0.038
107603	Soil			1.6	67.2	14.9	149	<0.1	28.2	14.0	751	4.49	3.6	3.0	2.2	11.5	20	<0.1	0.3	0.1	117	0.26	0.014
107604	Soil			0.8	32.4	27.6	168	<0.1	16.7	27.3	1104	5.81	3.4	0.4	1.8	4.3	40	0.1	0.3	<0.1	146	0.32	0.019
107605	Soil			0.7	29.0	6.9	88	<0.1	16.3	21.5	1160	4.76	7.0	0.2	1.7	2.7	16	0.1	0.2	<0.1	114	0.20	0.058
107606	Soil			0.6	72.3	9.6	159	<0.1	15.8	23.6	1069	5.00	3.4	0.6	2.1	5.3	19	<0.1	0.2	<0.1	118	0.24	0.029
107607	Soil			0.7	30.1	7.6	73	<0.1	21.5	15.2	477	3.83	7.3	0.4	0.7	3.4	19	<0.1	0.3	<0.1	87	0.21	0.045
107608	Soil			0.5	26.1	5.6	70	<0.1	14.1	19.1	689	3.97	4.2	0.4	1.3	4.5	32	<0.1	0.2	<0.1	95	0.35	0.042
107609	Soil			0.3	19.2	6.6	79	<0.1	12.4	17.7	909	4.07	2.6	0.5	<0.5	6.4	52	<0.1	0.2	<0.1	89	0.47	0.046
107610	Soil			0.6	15.7	8.0	44	<0.1	14.1	9.1	300	2.53	6.2	0.7	2.1	6.0	21	<0.1	0.3	0.1	63	0.22	0.018
107611	Soil			0.7	24.1	9.9	49	<0.1	22.6	10.9	311	2.92	9.1	0.9	2.1	6.9	17	<0.1	0.5	0.2	60	0.18	0.023
107612	Soil			1.4	14.8	16.1	61	<0.1	16.0	15.7	907	2.89	9.8	2.8	1.6	13.1	23	0.2	0.3	0.1	62	0.21	0.063
107613	Soil			0.8	13.3	10.6	31	<0.1	6.8	5.2	232	1.65	5.4	2.7	1.3	12.5	16	<0.1	0.4	<0.1	37	0.13	0.017
107614	Soil			1.0	10.8	7.7	32	<0.1	7.5	5.4	221	1.87	5.3	1.7	2.8	11.5	10	<0.1	0.4	0.2	40	0.10	0.039
107615	Soil			0.8	14.8	8.5	45	<0.1	13.5	7.4	304	2.21	5.1	1.2	4.3	7.3	17	<0.1	0.4	0.1	45	0.18	0.032
107616	Soil			0.8	21.9	8.7	52	<0.1	17.2	7.8	271	2.26	6.0	1.5	2.0	6.5	25	<0.1	0.5	0.2	50	0.29	0.033
107617	Soil			0.8	30.8	10.5	70	0.1	25.3	9.0	343	2.57	8.4	0.8	4.0	4.3	33	0.3	0.7	0.2	50	0.47	0.066

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
111566	Soil	4	30	0.80	212	0.111	<1	2.68	0.046	0.09	<0.1	<0.01	5.8	<0.1	<0.05	7	<0.5	<0.2
111567	Soil	24	41	1.01	128	0.099	<1	2.32	0.039	0.15	<0.1	<0.01	7.8	<0.1	<0.05	8	<0.5	<0.2
111568	Soil	7	41	0.84	148	0.114	<1	2.34	0.019	0.12	<0.1	<0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
111569	Soil	7	18	2.07	458	0.289	<1	3.44	0.025	0.87	<0.1	<0.01	3.2	0.3	<0.05	8	<0.5	<0.2
111570	Soil	23	14	0.55	47	0.145	<1	2.37	0.010	0.19	<0.1	<0.01	3.6	<0.1	0.05	8	<0.5	<0.2
111571	Soil	9	20	0.52	130	0.127	<1	2.66	0.016	0.15	<0.1	0.04	7.9	<0.1	<0.05	10	<0.5	<0.2
111572	Soil	10	14	0.77	250	0.244	<1	3.49	0.015	0.72	<0.1	<0.01	10.1	<0.1	<0.05	13	<0.5	<0.2
111573	Soil	11	20	0.82	156	0.158	<1	2.22	0.018	0.28	<0.1	0.02	6.7	0.2	0.09	8	<0.5	<0.2
107596	Soil	18	48	0.87	168	0.126	<1	2.80	0.012	0.20	0.1	0.02	4.0	0.2	0.10	8	<0.5	<0.2
107597	Soil	25	38	0.68	219	0.098	<1	2.04	0.013	0.10	0.1	0.02	5.9	0.1	0.06	5	<0.5	<0.2
107598	Soil	68	35	0.76	219	0.111	<1	2.04	0.040	0.45	<0.1	0.01	4.9	0.4	0.51	6	0.5	<0.2
107599	Soil	31	44	0.98	268	0.195	<1	2.98	0.010	0.55	0.1	<0.01	4.5	0.5	0.06	8	<0.5	<0.2
107600	Soil	16	41	1.08	290	0.152	<1	2.42	0.020	0.34	0.1	0.02	2.9	0.2	0.10	7	<0.5	<0.2
107601	Soil	20	39	0.65	144	0.118	<1	2.20	0.009	0.12	0.1	<0.01	3.6	0.2	0.06	6	<0.5	<0.2
107602	Soil	22	60	1.88	418	0.329	<1	4.26	0.016	1.24	<0.1	0.01	7.2	0.6	<0.05	15	<0.5	<0.2
107603	Soil	46	43	1.40	174	0.238	<1	2.87	0.014	0.30	<0.1	<0.01	6.8	0.3	0.07	10	<0.5	<0.2
107604	Soil	4	46	2.86	210	0.329	<1	4.63	0.011	0.84	0.2	<0.01	2.7	0.3	0.05	11	<0.5	<0.2
107605	Soil	4	39	1.78	176	0.249	<1	3.09	0.009	0.77	0.1	<0.01	2.1	0.3	<0.05	8	<0.5	<0.2
107606	Soil	19	42	2.11	265	0.268	<1	3.69	0.012	0.83	0.2	<0.01	2.6	0.3	<0.05	8	<0.5	<0.2
107607	Soil	7	39	1.18	142	0.167	<1	2.72	0.010	0.42	0.2	0.01	2.8	0.2	<0.05	7	<0.5	<0.2
107608	Soil	8	30	1.52	194	0.219	<1	2.98	0.012	0.65	0.2	0.01	2.2	0.2	<0.05	7	<0.5	<0.2
107609	Soil	11	21	1.49	209	0.190	<1	2.82	0.014	0.50	0.2	<0.01	2.9	0.2	<0.05	8	<0.5	<0.2
107610	Soil	13	26	0.58	146	0.109	<1	1.75	0.010	0.08	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
107611	Soil	11	32	0.55	172	0.075	<1	2.22	0.011	0.05	0.1	0.02	3.2	0.2	<0.05	6	0.6	<0.2
107612	Soil	45	28	0.49	174	0.073	<1	2.05	0.009	0.08	0.1	0.03	2.5	0.1	<0.05	7	<0.5	<0.2
107613	Soil	36	13	0.29	103	0.054	1	1.07	0.008	0.04	0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
107614	Soil	22	15	0.24	84	0.068	1	0.94	0.007	0.05	0.2	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
107615	Soil	15	23	0.47	129	0.068	<1	1.45	0.008	0.05	0.2	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
107616	Soil	17	27	0.55	226	0.080	1	1.38	0.017	0.04	0.2	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
107617	Soil	13	29	0.59	335	0.070	2	1.45	0.023	0.05	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

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
107618	Soil	0.9	29.8	9.7	57	0.1	24.0	9.4	335	2.45	7.6	2.0	2.3	6.1	32	0.2	0.6	0.2	50	0.44	0.056
107619	Soil	0.9	29.1	10.3	61	0.1	23.3	9.4	375	2.41	8.1	1.9	3.7	5.3	32	0.2	0.6	0.1	49	0.45	0.065
107620	Soil	0.7	30.8	8.3	64	0.1	24.7	9.9	372	2.38	8.6	0.6	4.9	3.6	37	0.2	0.8	0.1	50	0.77	0.073
107621	Soil	0.8	34.2	8.9	67	0.1	27.4	10.1	403	2.49	9.6	0.6	2.8	3.3	51	0.3	0.8	0.2	51	1.28	0.071
107622	Soil	0.8	30.1	8.4	59	0.1	25.5	10.0	367	2.43	9.1	0.7	5.2	3.5	35	0.2	0.7	0.2	51	0.63	0.066
107623	Soil	0.6	53.9	8.0	64	0.1	32.2	10.0	427	2.40	8.8	0.6	4.6	3.2	49	0.2	0.7	0.1	49	1.30	0.074
107624	Soil	0.7	29.2	7.5	57	0.1	24.6	9.9	410	2.29	9.4	0.5	4.2	3.4	57	0.2	0.6	0.1	47	1.83	0.076
107625	Soil	0.7	26.4	8.0	55	0.1	23.2	9.9	408	2.46	9.0	0.9	3.6	3.2	36	<0.1	0.5	0.1	51	0.63	0.065
107626	Soil	0.8	29.9	7.9	63	0.1	25.4	9.9	412	2.28	9.7	0.5	2.5	3.3	54	0.3	0.8	0.1	44	1.66	0.077
107627	Soil	0.7	28.7	7.6	55	0.1	24.2	9.7	384	2.36	8.6	0.8	4.2	3.3	37	0.2	0.6	0.1	50	0.62	0.071
102385	Soil	1.1	40.0	13.4	179	0.1	47.4	17.4	255	4.32	5.5	1.3	1.3	10.3	18	1.1	0.2	0.8	83	0.12	0.036
102386	Soil	0.8	22.2	8.5	50	<0.1	26.0	11.5	289	3.04	6.7	1.1	2.5	7.4	13	<0.1	0.5	0.2	55	0.16	0.037
102387	Soil	0.9	21.9	9.0	55	<0.1	25.8	12.6	270	3.24	6.9	1.2	2.2	8.4	12	0.1	0.4	0.2	48	0.15	0.030
102388	Soil	0.5	82.5	16.5	56	<0.1	104.4	20.7	529	4.29	5.6	2.3	2.4	12.4	53	<0.1	0.3	0.1	118	0.55	0.100
102389	Soil	1.1	21.2	8.6	64	0.1	24.4	11.4	310	3.01	9.1	0.6	2.5	6.9	10	0.1	0.6	0.2	64	0.10	0.029
102390	Soil	0.7	25.2	8.3	48	<0.1	23.4	9.4	260	2.76	8.6	1.5	4.2	7.5	16	<0.1	0.6	0.2	58	0.14	0.014
102391	Soil	0.8	24.3	8.8	51	0.1	24.5	9.7	260	2.87	8.9	1.5	3.6	7.9	15	<0.1	0.7	0.2	60	0.12	0.014
102392	Soil	1.4	53.8	8.2	85	<0.1	30.5	9.9	298	3.30	6.6	1.6	3.3	6.6	40	<0.1	0.4	0.2	78	0.19	0.024
102393	Soil	0.3	55.8	2.5	58	<0.1	13.0	22.1	427	4.70	2.0	0.2	0.8	0.8	24	<0.1	<0.1	<0.1	135	0.39	0.051
102394	Soil	2.7	44.3	14.7	194	0.4	9.7	16.6	1013	5.30	2.5	1.3	1.0	8.3	141	0.1	0.1	0.3	117	0.23	0.029
102395	Soil	0.7	25.8	6.3	50	<0.1	19.9	8.7	254	2.55	6.4	0.5	2.8	3.6	20	<0.1	0.4	0.1	56	0.21	0.019
102396	Soil	1.1	87.4	5.4	86	0.3	16.6	14.2	591	4.21	5.0	0.4	0.8	3.1	20	<0.1	0.2	<0.1	95	0.18	0.058
102397	Soil	1.4	173.2	3.2	97	<0.1	11.7	19.5	808	4.61	1.4	0.4	1.0	4.7	33	<0.1	0.1	<0.1	98	0.29	0.058
102398	Soil	2.2	125.4	4.4	72	0.2	7.3	9.4	424	3.72	2.1	0.9	1.9	6.4	118	<0.1	0.1	<0.1	70	0.28	0.040
102399	Soil	1.8	158.8	4.6	140	<0.1	11.7	17.1	785	5.23	1.8	0.4	2.1	3.3	37	<0.1	0.2	<0.1	129	0.14	0.022
102400	Soil	1.3	169.3	4.1	68	0.1	10.5	14.3	792	4.50	1.9	1.4	3.1	7.7	45	<0.1	0.2	<0.1	119	0.70	0.069
102401	Soil	0.8	17.2	7.7	59	<0.1	13.8	9.0	504	2.87	5.0	1.3	2.8	8.0	19	<0.1	0.3	0.1	54	0.22	0.038
102402	Soil	0.5	20.3	7.3	54	<0.1	12.9	7.5	359	2.23	3.2	1.1	1.6	6.9	55	<0.1	0.3	<0.1	46	0.51	0.032
102403	Soil	1.3	48.4	8.9	66	0.1	5.8	5.3	449	4.36	2.7	2.1	0.9	13.4	46	<0.1	0.2	0.4	39	0.12	0.029
102404	Soil	2.5	68.1	5.9	131	<0.1	11.8	13.8	672	4.65	3.8	0.9	7.3	3.2	41	0.1	0.3	0.6	155	0.59	0.032

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Page: 8 of 12 Part 2

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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
107618	Soil	18	30	0.53	309	0.071	<1	1.46	0.023	0.05	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
107619	Soil	15	28	0.51	295	0.065	<1	1.37	0.020	0.04	0.2	0.04	3.7	<0.1	<0.05	4	0.7	<0.2
107620	Soil	13	25	0.60	331	0.069	2	1.22	0.031	0.05	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
107621	Soil	12	27	0.70	358	0.072	2	1.31	0.030	0.06	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
107622	Soil	12	27	0.59	302	0.070	2	1.30	0.027	0.05	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
107623	Soil	12	26	0.66	286	0.068	2	1.19	0.028	0.05	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
107624	Soil	11	24	0.67	263	0.070	2	1.15	0.027	0.06	0.2	0.02	3.4	<0.1	<0.05	3	<0.5	<0.2
107625	Soil	12	26	0.54	282	0.059	1	1.38	0.024	0.05	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
107626	Soil	11	23	0.75	293	0.067	3	1.10	0.029	0.08	0.2	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
107627	Soil	12	26	0.53	294	0.066	1	1.28	0.023	0.05	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
102385	Soil	19	68	1.33	233	0.189	<1	3.43	0.013	0.53	0.1	0.02	3.9	0.3	0.07	10	0.5	<0.2
102386	Soil	17	34	0.65	189	0.116	<1	2.12	0.008	0.24	0.1	0.03	3.7	0.2	<0.05	7	0.6	<0.2
102387	Soil	14	32	0.70	173	0.117	1	2.49	0.009	0.25	0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
102388	Soil	42	63	1.96	292	0.233	2	2.78	0.014	0.27	0.4	0.02	6.3	0.2	<0.05	8	<0.5	<0.2
102389	Soil	10	36	0.62	196	0.100	<1	2.36	0.008	0.09	0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
102390	Soil	26	37	0.55	156	0.119	<1	1.70	0.011	0.08	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
102391	Soil	24	38	0.55	160	0.113	<1	1.82	0.010	0.08	0.1	0.02	4.6	0.1	<0.05	5	<0.5	<0.2
102392	Soil	34	80	1.08	221	0.158	<1	2.24	0.015	0.18	<0.1	0.01	4.8	0.2	0.06	7	1.2	<0.2
102393	Soil	3	7	1.90	310	0.258	<1	2.71	0.009	1.17	<0.1	<0.01	1.8	0.4	<0.05	5	<0.5	<0.2
102394	Soil	20	16	2.01	289	0.249	<1	3.56	0.010	1.90	0.1	0.01	5.7	0.8	<0.05	11	<0.5	<0.2
102395	Soil	9	27	0.66	136	0.110	<1	1.71	0.009	0.12	0.1	0.01	2.5	0.1	<0.05	5	<0.5	<0.2
102396	Soil	6	29	1.38	222	0.183	<1	2.90	0.009	0.73	0.1	0.01	2.8	0.4	<0.05	8	<0.5	<0.2
102397	Soil	6	25	1.93	184	0.206	<1	2.92	0.010	1.10	0.1	<0.01	1.2	0.4	<0.05	8	<0.5	<0.2
102398	Soil	7	16	1.08	170	0.148	<1	3.26	0.013	0.68	0.1	0.01	2.4	0.4	<0.05	8	<0.5	<0.2
102399	Soil	4	28	2.00	265	0.279	<1	3.75	0.010	1.21	<0.1	0.01	2.8	0.5	<0.05	10	0.6	<0.2
102400	Soil	15	17	1.46	256	0.220	<1	2.78	0.013	0.90	0.2	0.02	6.4	0.3	<0.05	10	<0.5	<0.2
102401	Soil	20	21	0.78	189	0.115	<1	1.95	0.010	0.29	0.1	0.02	3.6	0.2	<0.05	7	0.6	<0.2
102402	Soil	23	19	0.57	173	0.123	<1	1.67	0.012	0.26	<0.1	0.02	3.4	0.2	<0.05	5	<0.5	<0.2
102403	Soil	30	12	0.76	203	0.129	<1	2.28	0.015	0.58	<0.1	0.02	2.7	0.4	0.07	8	0.5	0.3
102404	Soil	22	8	1.35	379	0.145	1	2.46	0.019	0.32	<0.1	<0.01	16.4	0.2	<0.05	14	0.5	0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
102405	Soil	0.5	48.7	3.7	42	<0.1	16.9	10.9	279	2.88	5.3	0.5	2.3	3.2	28	<0.1	0.3	<0.1	70	0.57	0.057
102406	Soil	0.2	47.5	2.0	94	<0.1	13.0	18.3	458	5.25	3.8	0.8	<0.5	4.1	61	<0.1	0.3	<0.1	122	1.36	0.261
102407	Soil	0.8	26.7	10.2	91	<0.1	18.1	10.0	634	3.74	8.0	1.1	<0.5	12.2	27	0.1	0.5	0.1	65	0.31	0.073
102408	Soil	1.0	45.8	8.5	68	<0.1	23.9	15.8	506	4.57	9.4	0.7	1.6	4.8	26	<0.1	0.5	0.1	115	0.35	0.050
102409	Soil	0.2	31.8	2.0	68	<0.1	39.2	18.1	476	2.88	3.4	0.2	<0.5	0.4	141	<0.1	0.1	<0.1	78	0.71	0.061
102410	Soil	0.7	15.9	7.7	104	<0.1	9.9	8.5	766	4.17	5.1	2.2	<0.5	11.4	26	<0.1	0.4	0.2	41	0.29	0.025
102411	Soil	1.1	55.5	5.1	97	<0.1	18.2	28.3	636	4.45	3.9	1.0	0.6	4.2	17	0.1	0.4	<0.1	78	0.23	0.018
102412	Soil	0.4	42.5	11.7	121	<0.1	12.5	13.4	881	4.95	4.2	1.0	1.0	5.7	60	<0.1	0.4	<0.1	86	0.74	0.047
102413	Soil	0.8	21.6	10.6	71	<0.1	18.6	9.2	329	2.91	7.9	1.2	1.3	6.4	20	<0.1	0.4	0.1	54	0.22	0.023
102414	Soil	0.6	17.3	5.6	60	<0.1	10.7	5.4	284	2.31	5.3	0.6	<0.5	4.6	16	<0.1	0.2	<0.1	30	0.17	0.015
102415	Soil	0.5	35.4	9.0	110	<0.1	12.5	23.5	1044	5.65	5.9	1.1	<0.5	6.6	61	<0.1	0.1	<0.1	142	0.87	0.070
102416	Soil	0.4	8.7	36.8	97	<0.1	6.9	7.6	465	2.27	5.3	0.8	<0.5	2.8	15	<0.1	0.2	<0.1	32	0.20	0.024
102417	Soil	0.3	24.2	7.8	157	<0.1	12.2	16.6	641	5.50	6.4	2.9	<0.5	4.2	61	0.1	0.1	<0.1	113	0.92	0.048
102418	Soil	0.3	32.0	4.9	133	<0.1	12.0	12.5	715	5.84	3.5	1.7	<0.5	4.0	29	<0.1	0.1	<0.1	69	0.44	0.033
117731	Soil	0.7	23.1	9.3	54	<0.1	18.2	9.7	461	2.53	8.2	0.8	1.6	3.3	68	0.2	0.4	0.1	56	0.73	0.084
117732	Soil	0.3	66.8	62.6	70	<0.1	29.3	24.4	812	3.05	4.5	0.2	<0.5	1.0	34	0.1	0.2	0.2	70	0.74	0.076
117733	Soil	0.6	28.2	9.7	54	<0.1	16.8	9.3	422	2.27	8.4	0.6	6.3	3.5	33	0.1	0.4	<0.1	54	0.49	0.085
117734	Soil	0.2	33.9	14.4	86	<0.1	10.9	12.6	524	3.79	5.6	0.5	0.5	2.1	29	<0.1	0.3	<0.1	84	0.67	0.049
117735	Soil	0.7	44.8	12.0	101	<0.1	27.2	12.2	779	4.00	9.7	0.8	2.3	5.0	31	<0.1	0.6	0.2	73	0.50	0.056
117736	Soil	0.4	23.7	15.5	168	<0.1	21.0	12.7	914	5.19	8.0	1.3	0.6	14.1	46	0.2	0.3	0.1	107	0.93	0.234
117737	Soil	0.4	69.3	170.4	98	<0.1	6.7	5.5	353	2.86	5.3	0.8	0.6	6.4	15	0.1	0.2	0.3	31	0.31	0.045
117738	Soil	0.5	29.9	38.3	106	<0.1	11.5	6.4	662	3.78	6.6	1.2	0.6	6.3	16	<0.1	0.3	0.2	46	0.24	0.046
117739	Soil	0.4	19.0	7.7	72	<0.1	8.7	6.5	358	2.86	4.6	0.7	7.1	3.6	24	<0.1	0.3	<0.1	42	0.40	0.046
117740	Soil	0.5	18.8	8.3	71	<0.1	8.8	6.6	374	2.82	4.3	0.6	0.9	3.6	23	<0.1	0.3	<0.1	43	0.41	0.047
117741	Soil	0.6	31.8	6.8	54	<0.1	23.2	8.5	397	2.61	10.8	0.6	18.2	3.9	29	<0.1	0.4	<0.1	53	0.46	0.076
117742	Soil	0.3	37.4	5.6	98	<0.1	11.0	9.3	552	3.37	5.2	0.6	<0.5	1.8	29	<0.1	0.2	<0.1	47	0.49	0.082
117743	Soil	0.2	27.3	3.8	125	<0.1	6.1	11.5	503	3.41	3.2	0.6	<0.5	2.6	18	<0.1	0.1	<0.1	40	0.27	0.059
117744	Soil	0.2	30.4	2.6	98	<0.1	4.6	8.5	733	4.03	1.9	0.7	<0.5	2.7	36	<0.1	0.1	<0.1	42	0.31	0.061
117745	Soil	0.3	103.2	5.4	124	<0.1	5.0	10.8	1040	5.53	2.9	1.3	<0.5	5.1	23	<0.1	0.1	<0.1	28	0.40	0.081
117746	Soil	0.3	31.7	6.3	100	<0.1	12.2	8.6	624	3.79	3.4	0.8	<0.5	3.3	30	<0.1	0.2	<0.1	47	0.38	0.059

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
102405	Soil	14	28	0.69	86	0.085	<1	1.74	0.027	0.04	0.1	0.01	4.4	<0.1	0.05	6	<0.5	<0.2
102406	Soil	23	26	1.68	175	0.150	<1	2.96	0.030	0.10	0.1	<0.01	7.5	<0.1	0.05	11	<0.5	<0.2
102407	Soil	21	30	0.99	179	0.154	<1	2.75	0.010	0.35	<0.1	<0.01	4.1	0.2	<0.05	10	<0.5	<0.2
102408	Soil	9	41	1.24	171	0.129	<1	2.83	0.012	0.09	0.1	<0.01	6.4	<0.1	<0.05	10	<0.5	<0.2
102409	Soil	6	84	1.79	328	0.200	<1	2.78	0.015	0.45	<0.1	0.01	3.3	0.2	<0.05	7	<0.5	<0.2
102410	Soil	21	12	0.62	180	0.127	<1	2.43	0.008	0.33	<0.1	0.01	7.5	0.2	<0.05	12	<0.5	<0.2
102411	Soil	15	26	0.92	175	0.166	<1	2.28	0.013	0.44	<0.1	0.01	7.1	0.1	<0.05	8	<0.5	<0.2
102412	Soil	21	23	1.46	311	0.176	<1	2.93	0.016	0.42	<0.1	<0.01	9.8	0.2	<0.05	12	<0.5	<0.2
102413	Soil	17	29	0.54	204	0.095	<1	1.93	0.011	0.13	<0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
102414	Soil	7	17	0.38	126	0.106	<1	1.43	0.010	0.23	<0.1	<0.01	3.7	0.2	<0.05	6	<0.5	<0.2
102415	Soil	16	39	1.58	351	0.250	<1	3.56	0.019	0.89	<0.1	<0.01	7.7	0.3	<0.05	13	<0.5	<0.2
102416	Soil	20	15	0.35	58	0.007	<1	1.29	0.010	0.06	<0.1	<0.01	7.8	<0.1	<0.05	7	<0.5	<0.2
102417	Soil	26	33	1.10	295	0.211	<1	2.62	0.019	0.06	<0.1	<0.01	11.0	<0.1	<0.05	13	<0.5	<0.2
102418	Soil	23	21	0.87	237	0.099	<1	1.94	0.015	0.17	<0.1	<0.01	12.8	<0.1	<0.05	12	0.6	<0.2
117731	Soil	11	23	0.57	179	0.067	1	1.08	0.026	0.09	0.2	0.02	3.4	<0.1	0.07	4	<0.5	<0.2
117732	Soil	4	25	1.15	188	0.062	<1	1.26	0.023	0.08	<0.1	<0.01	8.4	<0.1	0.06	4	<0.5	<0.2
117733	Soil	11	21	0.52	176	0.058	1	1.02	0.025	0.10	0.2	0.03	3.1	<0.1	0.05	3	<0.5	<0.2
117734	Soil	5	12	0.93	338	0.131	<1	1.83	0.010	0.60	<0.1	0.01	3.2	0.2	<0.05	7	<0.5	<0.2
117735	Soil	17	29	0.88	412	0.132	<1	2.03	0.027	0.48	0.1	0.05	7.6	0.3	0.05	8	<0.5	<0.2
117736	Soil	54	15	0.97	470	0.033	<1	1.92	0.016	0.25	<0.1	0.02	9.0	<0.1	<0.05	13	<0.5	<0.2
117737	Soil	15	8	0.34	168	0.024	<1	1.04	0.010	0.13	<0.1	<0.01	4.8	<0.1	0.05	5	<0.5	<0.2
117738	Soil	34	17	0.57	170	0.097	<1	1.34	0.012	0.48	<0.1	<0.01	11.1	0.1	<0.05	8	<0.5	<0.2
117739	Soil	10	15	0.54	203	0.070	<1	1.55	0.010	0.33	<0.1	<0.01	4.9	0.1	<0.05	6	<0.5	<0.2
117740	Soil	10	15	0.55	202	0.071	<1	1.54	0.012	0.34	<0.1	<0.01	4.8	0.2	<0.05	6	<0.5	<0.2
117741	Soil	12	25	0.57	213	0.077	<1	1.12	0.030	0.11	0.2	0.04	3.5	<0.1	0.05	4	<0.5	<0.2
117742	Soil	7	9	0.84	210	0.153	<1	1.64	0.018	0.74	<0.1	<0.01	2.6	0.3	0.06	7	<0.5	<0.2
117743	Soil	6	8	0.95	159	0.158	<1	1.96	0.009	1.18	<0.1	<0.01	2.8	0.4	<0.05	7	<0.5	<0.2
117744	Soil	10	7	0.89	208	0.212	<1	1.79	0.015	1.16	<0.1	<0.01	4.7	0.4	<0.05	8	<0.5	<0.2
117745	Soil	30	7	0.91	229	0.144	<1	1.91	0.010	0.97	<0.1	0.02	8.8	0.3	<0.05	11	<0.5	<0.2
117746	Soil	8	33	0.73	200	0.192	<1	1.88	0.016	0.91	<0.1	<0.01	4.7	0.4	<0.05	9	<0.5	<0.2

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 Report Date: August 06, 2011

Page: 10 of 12 Part 1

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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	
117747	Soil	0.3	52.2	5.7	154	<0.1	16.7	15.4	721	4.41	3.5	0.7	<0.5	1.7	41	<0.1	0.2	<0.1	88	0.64	0.057
117748	Soil	0.3	19.1	4.5	120	<0.1	6.1	8.4	961	4.40	2.5	1.5	0.8	4.6	17	<0.1	0.2	<0.1	30	0.26	0.056
117749	Soil	0.5	11.8	6.0	100	<0.1	5.5	9.0	751	4.09	3.2	1.4	<0.5	7.6	16	<0.1	0.1	<0.1	30	0.19	0.040
117750	Soil	0.9	20.3	14.8	61	<0.1	9.0	3.8	157	2.22	4.9	0.7	<0.5	2.8	13	<0.1	0.3	<0.1	26	0.12	0.016
117751	Soil	0.4	13.3	18.0	71	<0.1	5.6	4.8	381	2.66	2.4	1.0	<0.5	5.5	12	<0.1	0.4	0.2	20	0.16	0.022
117752	Soil	0.6	23.8	9.1	72	<0.1	16.3	7.9	563	3.36	5.2	1.3	5.2	4.4	18	<0.1	0.3	0.1	45	0.20	0.016
117753	Soil	0.6	23.8	10.2	88	<0.1	13.3	7.7	369	3.59	6.1	1.3	3.6	5.4	21	<0.1	0.3	0.1	48	0.27	0.018
117754	Soil	0.4	15.1	6.1	54	<0.1	9.4	4.9	311	2.34	3.3	1.2	2.5	4.0	15	<0.1	0.2	<0.1	30	0.25	0.041
117755	Soil	0.5	20.5	6.9	50	<0.1	13.5	6.5	265	2.34	5.4	1.4	3.8	3.3	23	<0.1	0.3	0.1	43	0.34	0.046
117756	Soil	0.6	18.5	7.9	72	<0.1	8.6	8.0	489	3.39	4.2	1.1	1.5	3.4	19	<0.1	0.3	<0.1	45	0.26	0.036
117757	Soil	0.4	11.3	6.5	115	<0.1	5.3	7.8	863	5.21	1.8	1.4	1.6	5.3	20	<0.1	0.1	0.1	51	0.43	0.099
117758	Soil	1.7	28.1	9.7	79	<0.1	12.9	11.4	785	4.92	14.5	1.4	3.1	3.9	23	<0.1	0.4	<0.1	67	0.35	0.074
117759	Soil	0.5	18.6	8.8	48	<0.1	11.5	6.0	214	1.93	4.9	1.0	2.5	2.9	23	<0.1	0.3	0.1	40	0.37	0.048
117760	Soil	0.5	21.7	9.0	50	<0.1	15.0	7.0	239	2.15	6.0	1.4	3.8	3.1	27	<0.1	0.3	0.1	43	0.43	0.054
117761	Soil	0.6	35.1	10.5	56	0.2	18.6	7.1	274	2.98	6.1	1.9	3.2	3.1	31	0.2	0.3	0.1	48	0.44	0.054
117762	Soil	0.7	20.7	8.5	51	<0.1	15.2	6.9	312	2.43	7.6	1.0	2.0	3.1	24	<0.1	0.4	0.1	42	0.37	0.047
108810	Soil	0.2	45.4	4.5	97	<0.1	5.9	14.4	563	6.40	2.1	0.5	0.8	1.3	18	<0.1	0.4	<0.1	132	0.24	0.010
108811	Soil	0.5	13.6	7.8	89	<0.1	10.1	7.6	613	3.64	4.4	0.6	<0.5	4.0	8	<0.1	0.2	<0.1	43	0.11	0.019
108812	Soil	0.9	19.8	9.2	52	<0.1	22.7	8.0	252	3.21	11.2	0.5	1.2	3.5	20	<0.1	0.4	0.1	60	0.23	0.022
108813	Soil	0.9	35.5	9.3	69	<0.1	18.2	7.0	368	3.33	6.4	0.8	1.4	5.5	23	<0.1	0.5	0.1	57	0.22	0.017
108814	Soil	0.7	14.7	4.8	79	<0.1	8.3	7.7	776	3.81	4.0	0.5	<0.5	3.2	9	<0.1	0.2	<0.1	49	0.19	0.082
108815	Soil	0.5	18.3	7.2	89	<0.1	7.5	6.4	672	3.86	3.4	0.4	0.8	3.9	10	<0.1	0.1	<0.1	34	0.11	0.024
108816	Soil	0.2	40.8	2.1	51	<0.1	17.1	10.7	481	2.75	1.0	0.6	<0.5	2.7	22	<0.1	0.1	<0.1	48	0.39	0.030
108817	Soil	0.6	22.4	7.9	72	<0.1	15.5	8.9	459	3.50	6.7	0.4	0.8	2.8	10	<0.1	0.3	<0.1	56	0.11	0.018
108818	Soil	0.7	20.9	5.8	80	<0.1	15.1	8.6	623	4.21	5.4	0.9	1.2	7.4	12	<0.1	0.2	<0.1	48	0.15	0.017
108819	Soil	0.6	16.7	7.4	78	<0.1	11.8	6.7	413	3.51	5.3	0.5	5.9	4.5	11	<0.1	0.3	<0.1	41	0.12	0.024
108820	Soil	0.8	36.2	7.3	78	<0.1	22.3	8.7	542	4.38	5.6	0.7	1.9	6.2	10	<0.1	0.4	<0.1	53	0.08	0.014
108821	Soil	0.7	13.8	4.7	63	<0.1	9.6	8.4	559	4.20	3.3	0.5	<0.5	4.5	6	<0.1	0.2	<0.1	37	0.05	0.010
108822	Soil	0.5	14.7	4.6	72	<0.1	7.4	7.3	578	2.86	2.3	0.7	0.6	6.4	20	<0.1	0.1	<0.1	39	0.15	0.022
108823	Soil	0.9	12.2	9.6	38	<0.1	14.7	6.1	383	2.03	6.0	0.3	0.5	2.3	15	<0.1	0.3	<0.1	41	0.18	0.021

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
117747	Soil	11	25	1.29	290	0.125	<1	2.48	0.017	0.68	<0.1	<0.01	6.5	0.3	<0.05	10	<0.5	<0.2
117748	Soil	28	8	0.85	241	0.177	<1	2.03	0.011	1.08	<0.1	<0.01	10.8	0.4	<0.05	10	<0.5	<0.2
117749	Soil	28	10	0.67	213	0.177	<1	1.90	0.009	0.94	<0.1	<0.01	11.7	0.3	<0.05	10	<0.5	<0.2
117750	Soil	5	16	0.31	104	0.025	<1	1.37	0.008	0.19	<0.1	<0.01	3.8	0.1	<0.05	5	<0.5	<0.2
117751	Soil	19	8	0.48	144	0.080	<1	1.40	0.007	0.45	<0.1	<0.01	5.0	0.2	<0.05	6	<0.5	<0.2
117752	Soil	18	21	0.51	217	0.141	1	1.67	0.012	0.40	<0.1	<0.01	7.9	0.2	<0.05	7	<0.5	<0.2
117753	Soil	14	25	0.62	204	0.122	2	1.88	0.013	0.30	<0.1	0.02	6.7	0.2	<0.05	7	<0.5	<0.2
117754	Soil	16	15	0.41	137	0.090	2	1.05	0.013	0.23	<0.1	<0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
117755	Soil	14	22	0.53	222	0.080	1	1.35	0.016	0.09	0.1	0.01	4.5	<0.1	0.06	5	<0.5	<0.2
117756	Soil	14	16	0.59	180	0.111	2	1.28	0.013	0.38	<0.1	<0.01	7.0	0.1	<0.05	6	<0.5	<0.2
117757	Soil	30	7	0.95	240	0.165	1	1.98	0.010	0.99	<0.1	<0.01	11.7	0.3	<0.05	11	<0.5	<0.2
117758	Soil	16	19	0.70	221	0.096	<1	1.41	0.014	0.38	0.1	0.02	6.2	0.1	<0.05	6	<0.5	<0.2
117759	Soil	13	18	0.40	206	0.069	1	1.14	0.015	0.06	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
117760	Soil	13	21	0.47	232	0.066	2	1.25	0.016	0.06	0.1	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
117761	Soil	18	23	0.49	313	0.071	<1	1.58	0.016	0.08	<0.1	0.06	5.1	<0.1	<0.05	5	<0.5	<0.2
117762	Soil	12	20	0.45	199	0.077	1	1.17	0.016	0.12	0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
108810	Soil	8	7	1.32	210	0.130	2	2.34	0.008	0.93	<0.1	0.02	11.4	0.4	<0.05	8	<0.5	<0.2
108811	Soil	4	19	0.67	131	0.150	1	1.66	0.006	0.59	<0.1	<0.01	8.3	0.3	<0.05	8	<0.5	<0.2
108812	Soil	7	35	0.51	249	0.076	<1	1.90	0.009	0.09	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
108813	Soil	23	27	0.57	240	0.123	<1	1.67	0.012	0.30	<0.1	0.05	7.1	0.2	<0.05	7	<0.5	<0.2
108814	Soil	9	14	0.72	267	0.178	<1	1.68	0.008	0.76	<0.1	<0.01	9.4	0.3	<0.05	7	<0.5	<0.2
108815	Soil	5	13	0.78	223	0.210	<1	1.82	0.007	0.93	<0.1	<0.01	10.2	0.3	<0.05	8	<0.5	<0.2
108816	Soil	10	52	1.13	179	0.110	<1	1.53	0.017	0.44	<0.1	<0.01	6.6	0.2	<0.05	5	<0.5	<0.2
108817	Soil	5	21	0.75	163	0.157	<1	1.96	0.012	0.49	<0.1	<0.01	5.9	0.2	<0.05	7	<0.5	<0.2
108818	Soil	20	23	0.74	192	0.213	1	2.24	0.008	0.64	<0.1	0.02	9.8	0.3	<0.05	9	<0.5	<0.2
108819	Soil	7	17	0.66	233	0.180	2	1.74	0.008	0.64	<0.1	<0.01	7.6	0.3	<0.05	7	<0.5	<0.2
108820	Soil	10	24	0.73	239	0.220	<1	2.52	0.011	0.39	<0.1	0.02	9.5	0.3	<0.05	9	<0.5	<0.2
108821	Soil	6	10	0.80	189	0.217	<1	1.88	0.008	0.88	<0.1	<0.01	9.1	0.4	<0.05	8	<0.5	<0.2
108822	Soil	20	25	0.69	157	0.112	<1	1.62	0.007	0.47	<0.1	<0.01	6.8	0.3	<0.05	7	<0.5	<0.2
108823	Soil	7	23	0.36	253	0.047	<1	1.57	0.007	0.10	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	
108824	Soil		0.5	32.1	4.3	87	<0.1	12.0	7.7	428	3.91	6.2	0.9	<0.5	4.4	6	<0.1	0.2	<0.1	72	0.06	0.016
108825	Soil		0.4	7.0	8.0	75	<0.1	5.2	6.4	526	2.15	1.9	0.6	<0.5	3.8	25	<0.1	0.1	<0.1	40	0.25	0.078
108826	Soil		0.7	23.5	14.0	59	<0.1	14.2	6.1	275	2.79	6.5	0.6	2.4	4.4	21	<0.1	0.4	0.1	49	0.21	0.011
108827	Soil		0.9	38.0	18.2	65	<0.1	22.5	10.6	583	3.47	8.7	0.7	7.2	5.1	27	<0.1	0.6	0.2	60	0.39	0.039
108828	Soil		0.5	20.5	12.8	55	<0.1	13.0	5.8	300	3.05	5.9	0.6	1.3	3.7	18	<0.1	0.3	0.1	37	0.25	0.020
108829	Soil		0.4	9.7	5.1	95	<0.1	6.5	7.3	646	4.40	3.1	0.6	<0.5	4.1	10	<0.1	0.2	<0.1	26	0.12	0.045
108830	Soil		0.6	15.7	26.3	101	<0.1	9.7	8.1	707	4.46	4.5	0.6	<0.5	4.4	14	<0.1	0.2	0.1	28	0.19	0.058
108831	Soil		0.6	30.3	8.4	82	<0.1	6.9	5.8	418	3.37	3.9	0.8	<0.5	4.0	9	<0.1	0.2	<0.1	32	0.11	0.032
108832	Soil		0.7	30.5	8.5	58	<0.1	21.9	7.8	265	3.32	9.9	0.7	3.5	4.9	15	<0.1	0.5	<0.1	55	0.15	0.030
108833	Soil		0.6	15.0	19.1	63	<0.1	10.6	4.4	306	2.36	4.1	0.8	0.5	5.7	25	<0.1	0.2	0.2	45	0.26	0.052
108834	Soil		0.8	29.2	11.9	60	<0.1	20.8	9.6	465	2.92	9.9	0.7	3.4	4.6	34	<0.1	0.6	0.3	59	0.37	0.037
108835	Soil		0.2	21.2	2.9	109	<0.1	7.0	10.1	1097	4.59	2.8	0.9	0.7	3.9	15	<0.1	0.2	<0.1	46	0.38	0.105
108836	Soil		0.3	22.9	3.1	73	<0.1	9.8	9.4	606	3.07	3.5	0.8	<0.5	5.6	16	<0.1	0.2	<0.1	39	0.27	0.053
108837	Soil		0.4	18.3	6.7	103	<0.1	6.9	3.3	544	2.88	3.4	1.0	1.6	4.0	18	<0.1	0.3	<0.1	22	0.25	0.032
108838	Soil		0.6	40.3	41.3	100	<0.1	15.9	5.2	632	2.76	6.0	0.9	5.4	5.7	14	<0.1	0.5	0.4	36	0.17	0.020
108839	Soil		0.6	40.6	9.7	58	0.2	26.6	9.5	397	2.40	9.9	0.5	4.9	3.7	106	0.2	0.7	0.2	51	3.68	0.040
108840	Soil		0.6	43.2	10.2	57	0.2	27.4	9.5	402	2.39	10.0	0.8	7.3	3.9	120	0.2	0.8	0.2	50	4.07	0.040
108841	Soil		0.8	20.8	25.0	129	<0.1	10.6	8.4	499	3.56	10.5	1.5	1.3	4.7	22	<0.1	0.4	0.2	66	0.27	0.071
108842	Soil		0.4	22.3	16.8	109	<0.1	6.1	4.7	434	3.31	2.4	1.2	<0.5	6.9	22	<0.1	0.5	0.3	43	0.24	0.055
108843	Soil		0.2	17.0	33.3	61	<0.1	4.1	2.1	165	2.18	2.8	1.0	1.9	5.1	16	<0.1	0.3	0.5	15	0.20	0.049
108844	Soil		0.3	71.0	33.4	82	0.2	13.2	13.2	460	3.99	14.7	0.7	1.3	4.9	41	<0.1	0.2	0.2	106	0.45	0.050
108845	Soil		0.5	15.3	10.4	73	<0.1	4.7	9.9	1107	2.89	3.0	0.5	1.8	3.4	88	<0.1	0.3	<0.1	68	1.38	0.040
109601	Soil		1.3	34.1	16.1	125	0.1	38.6	18.3	433	4.48	5.0	1.6	2.0	13.3	13	0.4	0.3	0.4	78	0.09	0.046
109602	Soil		0.7	20.2	5.8	60	<0.1	30.1	13.1	312	3.23	4.0	1.5	<0.5	15.8	17	<0.1	0.3	0.2	45	0.14	0.029
109603	Soil		0.8	33.0	8.8	88	<0.1	44.5	18.5	510	4.67	4.6	1.1	<0.5	10.8	59	<0.1	0.2	0.6	59	0.14	0.017
109604	Soil		1.1	23.3	5.5	50	<0.1	55.6	25.2	379	4.02	2.4	0.4	<0.5	2.6	21	<0.1	0.2	0.2	75	0.76	0.259
109605	Soil		1.1	31.6	7.6	67	<0.1	32.2	15.3	564	5.67	3.0	1.3	0.9	21.7	5	<0.1	0.2	0.8	49	0.05	0.034
109606	Soil		1.0	23.4	9.2	52	0.2	25.2	11.7	349	3.74	8.7	1.3	1.8	9.7	25	0.1	0.5	0.2	58	0.18	0.042
109607	Soil		0.7	31.5	6.5	39	<0.1	35.8	15.4	312	4.04	6.0	1.3	0.6	10.1	21	<0.1	0.3	0.3	62	0.14	0.023
109608	Soil		1.9	29.2	13.7	110	0.2	21.7	13.1	717	2.48	2.0	0.3	<0.5	0.9	35	0.5	0.4	0.2	41	0.40	0.053

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Page: 11 of 12 Part 2

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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	
108824	Soil	9	39	0.71	173	0.157	<1	1.73	0.009	0.70	<0.1	<0.01	6.9	0.3	<0.05	7	<0.5	<0.2
108825	Soil	9	10	0.51	128	0.076	<1	1.12	0.011	0.36	<0.1	<0.01	3.8	0.2	<0.05	6	<0.5	<0.2
108826	Soil	16	25	0.46	172	0.100	<1	1.27	0.014	0.12	<0.1	0.02	6.0	<0.1	<0.05	5	<0.5	<0.2
108827	Soil	18	31	0.53	285	0.096	<1	1.71	0.021	0.12	0.1	0.05	6.8	<0.1	<0.05	6	<0.5	<0.2
108828	Soil	13	18	0.49	237	0.066	<1	1.54	0.016	0.20	<0.1	<0.01	6.1	0.1	<0.05	6	<0.5	<0.2
108829	Soil	18	9	0.80	188	0.227	1	1.86	0.007	1.03	<0.1	<0.01	11.4	0.4	<0.05	9	<0.5	<0.2
108830	Soil	12	14	0.79	284	0.223	<1	2.14	0.008	1.01	<0.1	<0.01	10.6	0.4	<0.05	8	<0.5	<0.2
108831	Soil	14	12	0.58	133	0.132	<1	1.60	0.006	0.68	<0.1	<0.01	8.4	0.3	<0.05	7	<0.5	<0.2
108832	Soil	11	32	0.60	158	0.113	<1	1.83	0.010	0.31	0.1	<0.01	6.0	0.2	<0.05	6	<0.5	<0.2
108833	Soil	22	14	0.47	139	0.046	<1	1.24	0.010	0.26	<0.1	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
108834	Soil	15	29	0.56	288	0.103	1	1.60	0.028	0.11	0.2	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2
108835	Soil	17	6	1.08	175	0.239	<1	2.04	0.012	1.38	<0.1	<0.01	5.8	0.3	<0.05	9	<0.5	<0.2
108836	Soil	19	6	0.83	107	0.174	1	1.55	0.013	0.70	<0.1	0.02	5.1	0.3	<0.05	7	0.7	<0.2
108837	Soil	16	8	0.56	146	0.099	<1	1.22	0.016	0.40	<0.1	<0.01	6.5	0.2	<0.05	6	<0.5	<0.2
108838	Soil	19	13	0.43	128	0.100	2	1.22	0.017	0.35	<0.1	0.03	9.2	0.2	<0.05	7	0.7	<0.2
108839	Soil	13	26	0.68	365	0.092	<1	1.37	0.028	0.07	0.2	0.05	3.9	<0.1	<0.05	5	<0.5	<0.2
108840	Soil	14	25	0.69	373	0.092	2	1.45	0.030	0.09	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
108841	Soil	21	16	0.43	181	0.074	1	1.64	0.015	0.40	<0.1	<0.01	11.5	0.2	<0.05	9	0.7	<0.2
108842	Soil	27	12	0.55	116	0.070	2	1.52	0.008	0.47	<0.1	0.01	9.7	0.2	<0.05	8	0.8	<0.2
108843	Soil	18	5	0.18	40	0.004	2	0.90	0.005	0.12	<0.1	0.01	4.4	<0.1	<0.05	3	0.8	<0.2
108844	Soil	18	32	1.15	182	0.135	1	1.77	0.024	0.38	<0.1	0.02	9.7	0.1	<0.05	8	<0.5	<0.2
108845	Soil	11	11	0.82	376	0.101	<1	1.56	0.009	0.56	<0.1	<0.01	4.4	0.1	<0.05	7	<0.5	<0.2
109601	Soil	22	61	1.37	216	0.239	1	3.26	0.016	0.90	0.1	0.01	3.9	0.4	<0.05	8	<0.5	<0.2
109602	Soil	26	33	0.82	220	0.217	1	2.31	0.010	0.66	<0.1	<0.01	3.8	0.5	<0.05	6	<0.5	<0.2
109603	Soil	14	52	1.21	237	0.327	1	3.42	0.012	1.11	<0.1	<0.01	4.9	0.7	<0.05	11	<0.5	<0.2
109604	Soil	13	58	1.31	299	0.217	<1	2.33	0.019	0.84	0.1	<0.01	1.7	0.5	<0.05	9	<0.5	<0.2
109605	Soil	11	43	1.51	155	0.350	<1	3.63	0.007	1.15	<0.1	0.02	3.4	0.7	<0.05	11	0.6	<0.2
109606	Soil	15	36	0.75	168	0.160	1	2.28	0.009	0.33	0.2	<0.01	2.6	0.3	<0.05	7	<0.5	<0.2
109607	Soil	14	50	1.19	189	0.279	1	3.00	0.011	0.92	<0.1	<0.01	4.2	0.5	<0.05	11	<0.5	<0.2
109608	Soil	5	43	0.45	164	0.055	2	1.09	0.012	0.08	<0.1	0.02	2.4	<0.1	<0.05	5	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: Rosebute  
 Report Date: August 06, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	0.1	2	0.01	0.001
109609	Soil	0.9	25.1	12.7	91	0.2	25.8	14.0	623	4.22	3.9	1.3	<0.5	9.6	44	0.2	0.4	0.2	73	0.41	0.051
109610	Soil	0.8	40.1	9.9	180	0.2	11.2	13.6	849	4.09	4.3	1.2	1.8	5.1	95	0.2	0.2	0.2	82	0.37	0.023
109611	Soil	1.0	60.1	7.7	65	0.1	19.3	12.3	386	3.28	6.8	0.7	2.0	5.8	31	<0.1	0.5	0.2	72	0.18	0.014
109612	Soil	1.1	69.7	8.2	92	0.1	16.6	14.4	674	4.64	7.4	0.7	<0.5	4.6	69	<0.1	0.3	0.6	107	0.18	0.029
109613	Soil	1.1	44.0	8.8	50	0.4	20.0	9.2	270	2.68	8.1	0.7	4.6	6.3	18	<0.1	0.7	0.2	60	0.13	0.013
109614	Soil	0.7	49.3	9.4	57	0.1	26.9	9.8	400	2.69	10.1	1.2	9.2	5.5	37	<0.1	0.8	0.2	57	0.33	0.040
109615	Soil	1.5	37.3	5.3	160	<0.1	10.4	11.4	666	3.37	3.4	1.1	3.8	8.2	63	<0.1	0.3	<0.1	78	0.48	0.020
109616	Soil	0.5	30.5	7.0	42	<0.1	14.8	6.5	284	2.24	5.3	1.1	1.7	6.4	23	<0.1	0.4	0.1	48	0.26	0.042
109617	Soil	0.6	23.3	9.4	60	<0.1	16.1	8.4	437	2.65	6.5	1.7	3.0	9.9	40	<0.1	0.5	0.2	54	0.38	0.020
109618	Soil	2.7	23.1	9.9	50	0.1	12.6	6.0	303	3.11	5.9	2.0	3.1	12.8	36	<0.1	0.5	0.4	56	0.12	0.019
109619	Soil	2.7	43.3	15.0	189	<0.1	19.6	5.7	276	2.74	3.0	1.3	2.2	9.2	33	0.2	0.2	0.1	56	0.22	0.032
109620	Soil	1.0	14.4	8.9	119	0.2	19.6	12.2	594	2.97	4.5	0.4	1.1	2.6	21	0.3	0.4	0.2	57	0.20	0.080
109621	Soil	1.0	12.4	11.0	62	<0.1	16.7	8.2	439	2.65	4.9	0.8	1.3	7.6	44	<0.1	0.4	0.1	50	0.43	0.042
109622	Soil	0.4	58.7	2.9	67	<0.1	14.7	16.3	450	3.50	4.1	0.3	1.2	3.1	66	<0.1	0.4	<0.1	79	0.93	0.181
109623	Soil	0.6	19.8	5.8	256	<0.1	7.2	8.8	1215	5.72	2.9	0.8	1.1	4.2	23	<0.1	0.2	<0.1	34	0.41	0.112
109624	Soil	0.1	20.1	8.2	94	<0.1	12.9	13.5	443	3.55	4.4	0.3	3.8	1.3	73	<0.1	0.2	<0.1	103	0.84	0.091
109625	Soil	0.5	26.7	47.4	165	<0.1	11.4	13.4	530	3.65	5.6	1.3	3.7	10.4	46	0.1	0.8	<0.1	56	0.37	0.052
109626	Soil	0.4	56.0	4.5	113	<0.1	12.0	12.3	976	4.80	3.3	1.1	6.0	5.5	43	<0.1	0.4	<0.1	81	0.61	0.067
109627	Soil	0.8	28.9	8.6	51	<0.1	19.3	9.5	208	2.57	6.4	0.5	2.6	3.2	26	<0.1	0.5	0.2	66	0.26	0.010
109628	Soil	1.6	37.2	10.1	69	<0.1	27.4	9.6	398	3.47	8.6	0.7	6.2	6.2	26	<0.1	0.6	0.2	67	0.27	0.016



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Project: Rosebute  
 Report Date: August 06, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000682.1

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	0.2
109609	Soil	12	35	1.48	226	0.244	<1	2.84	0.011	0.31	0.1	<0.01	4.2	0.2	<0.05	11	<0.5	<0.2
109610	Soil	8	21	1.43	212	0.232	<1	3.32	0.015	1.17	<0.1	0.02	1.9	0.4	<0.05	9	<0.5	<0.2
109611	Soil	13	30	0.92	167	0.158	15	2.10	0.015	0.43	0.1	0.01	2.8	0.2	<0.05	6	<0.5	<0.2
109612	Soil	7	30	1.57	237	0.216	<1	3.20	0.033	0.92	0.1	<0.01	3.3	0.4	<0.05	8	<0.5	<0.2
109613	Soil	12	32	0.57	131	0.110	1	1.96	0.016	0.09	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
109614	Soil	18	34	0.60	351	0.089	2	1.77	0.023	0.07	0.1	0.04	6.2	<0.1	<0.05	5	<0.5	<0.2
109615	Soil	23	19	1.35	215	0.206	<1	2.64	0.018	0.73	0.1	<0.01	6.3	0.4	<0.05	10	<0.5	<0.2
109616	Soil	19	22	0.64	182	0.101	2	1.49	0.015	0.15	0.1	0.02	4.1	0.1	<0.05	5	<0.5	<0.2
109617	Soil	26	26	0.65	224	0.140	1	1.96	0.018	0.19	<0.1	0.03	5.6	0.1	<0.05	6	<0.5	<0.2
109618	Soil	30	27	0.59	175	0.120	2	1.98	0.019	0.19	0.1	0.02	5.4	0.2	<0.05	7	0.5	0.3
109619	Soil	21	29	0.64	151	0.098	<1	1.71	0.009	0.31	<0.1	<0.01	2.8	0.3	<0.05	7	<0.5	<0.2
109620	Soil	8	30	0.58	225	0.097	2	1.91	0.012	0.24	<0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
109621	Soil	17	24	0.78	288	0.111	<1	2.30	0.020	0.14	0.2	0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
109622	Soil	8	24	1.30	122	0.120	<1	2.32	0.054	0.09	<0.1	<0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
109623	Soil	20	6	1.18	367	0.381	<1	2.96	0.014	1.24	<0.1	0.02	14.0	0.4	<0.05	14	0.6	<0.2
109624	Soil	4	18	1.01	299	0.239	<1	2.95	0.016	0.36	<0.1	<0.01	4.3	<0.1	<0.05	10	<0.5	<0.2
109625	Soil	22	16	0.77	134	0.172	<1	2.49	0.009	0.29	<0.1	0.04	2.6	0.1	<0.05	8	<0.5	<0.2
109626	Soil	23	15	0.88	212	0.148	<1	2.18	0.017	0.14	<0.1	0.01	11.4	<0.1	<0.05	10	<0.5	<0.2
109627	Soil	11	33	0.59	173	0.088	<1	1.94	0.012	0.04	<0.1	<0.01	3.3	0.1	<0.05	5	0.5	<0.2
109628	Soil	21	40	0.63	257	0.129	<1	2.09	0.015	0.13	0.1	0.05	7.7	<0.1	<0.05	7	<0.5	<0.2



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Project: Rosebute  
Report Date: August 06, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000682.1

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																					
101356	Soil	1.2	34.4	11.8	54	<0.1	27.7	10.7	399	2.75	9.6	1.2	2.4	8.6	28	0.1	0.6	0.2	65	0.34	0.031
REP 101356	QC	1.0	33.7	10.9	50	<0.1	26.1	10.7	400	2.81	8.6	1.3	2.3	8.2	27	<0.1	0.6	0.2	65	0.33	0.031
101379	Soil	0.7	16.7	8.5	48	<0.1	18.2	8.1	459	2.49	4.9	0.7	1.6	4.3	24	<0.1	0.3	0.1	54	0.31	0.027
REP 101379	QC	0.6	16.2	8.8	46	<0.1	18.7	8.5	467	2.52	4.7	0.7	2.9	4.0	23	<0.1	0.3	0.1	56	0.29	0.025
101389	Soil	0.8	14.4	8.0	78	<0.1	8.2	7.4	403	3.27	4.1	1.1	0.5	5.0	11	<0.1	0.3	<0.1	38	0.13	0.025
REP 101389	QC	0.8	15.0	9.7	86	<0.1	9.1	7.8	427	3.36	4.7	1.1	<0.5	5.0	12	<0.1	0.4	<0.1	39	0.15	0.026
104618	Soil	1.1	25.0	13.8	55	<0.1	23.1	9.9	235	2.68	9.5	2.0	2.3	11.6	15	0.2	0.5	0.3	58	0.15	0.017
REP 104618	QC	1.0	25.8	13.9	54	<0.1	24.1	9.9	231	2.70	9.5	2.1	2.1	11.8	15	0.1	0.4	0.3	57	0.15	0.017
104628	Soil	1.1	20.4	8.2	45	<0.1	17.0	6.1	194	1.95	5.5	2.8	1.9	9.8	18	<0.1	0.3	0.1	43	0.27	0.033
REP 104628	QC	0.8	19.8	8.1	48	<0.1	16.8	5.9	191	1.92	5.7	2.7	3.0	9.1	18	<0.1	0.5	0.1	42	0.26	0.034
111514	Soil	0.8	37.7	8.1	51	<0.1	24.3	9.0	268	3.33	8.9	0.9	4.9	4.8	23	<0.1	0.6	0.1	58	0.32	0.027
REP 111514	QC	0.8	38.2	7.8	53	<0.1	23.1	8.9	269	3.32	9.0	0.9	5.3	4.8	24	<0.1	0.5	0.1	60	0.34	0.026
111532	Soil	0.4	44.8	4.7	71	<0.1	21.3	16.2	579	4.09	7.6	0.6	3.8	3.6	21	<0.1	0.4	<0.1	107	0.43	0.031
REP 111532	QC	0.3	43.1	4.7	68	<0.1	19.8	15.7	573	3.91	7.6	0.6	1.7	3.7	21	<0.1	0.4	<0.1	108	0.43	0.029
111540	Soil	1.7	46.5	5.0	64	0.2	10.5	5.1	373	5.08	3.6	1.5	0.8	17.2	52	<0.1	0.2	2.6	48	0.07	0.048
REP 111540	QC	1.7	46.4	5.2	64	0.2	10.7	5.5	392	5.18	3.9	1.5	2.2	17.8	52	<0.1	0.2	2.8	52	0.07	0.048
111570	Soil	0.8	17.4	7.5	49	<0.1	8.0	7.1	418	2.38	2.6	1.7	<0.5	12.5	70	<0.1	0.2	<0.1	40	0.88	0.038
REP 111570	QC	0.8	17.8	8.0	51	<0.1	8.4	6.7	403	2.30	2.5	1.8	1.1	12.3	70	<0.1	0.2	<0.1	42	0.86	0.039
107599	Soil	1.3	36.9	10.1	94	<0.1	43.2	18.3	442	4.04	4.3	1.6	2.3	11.2	13	<0.1	0.2	0.2	58	0.17	0.042
REP 107599	QC	1.1	38.7	9.9	95	<0.1	43.9	17.9	443	4.12	4.6	1.5	2.0	11.4	13	<0.1	0.2	0.2	58	0.19	0.038
107613	Soil	0.8	13.3	10.6	31	<0.1	6.8	5.2	232	1.65	5.4	2.7	1.3	12.5	16	<0.1	0.4	<0.1	37	0.13	0.017
REP 107613	QC	0.7	13.5	10.1	31	<0.1	6.7	5.1	229	1.65	5.4	2.7	1.4	12.4	16	<0.1	0.3	0.1	36	0.12	0.017
102402	Soil	0.5	20.3	7.3	54	<0.1	12.9	7.5	359	2.23	3.2	1.1	1.6	6.9	55	<0.1	0.3	<0.1	46	0.51	0.032
REP 102402	QC	0.4	20.9	7.0	53	<0.1	13.0	7.7	354	2.18	3.0	1.1	3.3	7.1	53	<0.1	0.3	0.1	47	0.51	0.032
102411	Soil	1.1	55.5	5.1	97	<0.1	18.2	28.3	636	4.45	3.9	1.0	0.6	4.2	17	0.1	0.4	<0.1	78	0.23	0.018
REP 102411	QC	1.0	52.8	4.1	92	<0.1	17.6	27.1	599	4.22	4.2	1.0	<0.5	4.2	17	<0.1	0.3	<0.1	73	0.24	0.018
117743	Soil	0.2	27.3	3.8	125	<0.1	6.1	11.5	503	3.41	3.2	0.6	<0.5	2.6	18	<0.1	0.1	<0.1	40	0.27	0.059
REP 117743	QC	0.2	26.8	3.7	123	<0.1	6.0	11.4	500	3.40	3.0	0.7	<0.5	2.6	18	<0.1	0.1	<0.1	40	0.25	0.057

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 Val D'Or QC J9P 1S5 Canada

Project: Rosebute  
 Report Date: August 06, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000682.1

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																		
101356	Soil	21	42	0.47	329	0.086	<1	1.93	0.014	0.05	0.1	0.05	5.4	<0.1	<0.05	5	<0.5	<0.2
REP 101356	QC	21	38	0.45	298	0.085	2	1.80	0.014	0.05	0.1	0.05	4.6	<0.1	<0.05	5	<0.5	<0.2
101379	Soil	14	31	0.44	242	0.094	1	1.44	0.015	0.11	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 101379	QC	13	31	0.44	241	0.090	<1	1.49	0.013	0.10	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
101389	Soil	16	14	0.51	128	0.083	<1	1.52	0.007	0.35	<0.1	<0.01	8.2	0.1	<0.05	7	<0.5	<0.2
REP 101389	QC	18	16	0.54	142	0.092	<1	1.68	0.006	0.37	<0.1	0.01	8.9	0.2	<0.05	8	<0.5	<0.2
104618	Soil	14	33	0.51	174	0.068	<1	2.29	0.010	0.05	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
REP 104618	QC	14	33	0.51	181	0.068	<1	2.28	0.009	0.05	0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
104628	Soil	18	27	0.43	162	0.070	2	1.19	0.010	0.04	<0.1	0.03	2.7	<0.1	<0.05	4	1.1	<0.2
REP 104628	QC	18	26	0.41	160	0.069	<1	1.17	0.011	0.04	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
111514	Soil	18	33	0.59	261	0.100	1	1.53	0.015	0.06	0.2	0.03	7.2	<0.1	<0.05	5	<0.5	<0.2
REP 111514	QC	18	33	0.60	261	0.102	2	1.53	0.016	0.06	0.1	0.03	7.4	<0.1	<0.05	5	0.8	<0.2
111532	Soil	16	25	1.44	336	0.179	<1	2.27	0.019	0.83	0.1	0.05	7.7	0.3	<0.05	7	0.7	<0.2
REP 111532	QC	15	25	1.44	326	0.182	<1	2.25	0.018	0.81	0.1	0.05	7.5	0.3	<0.05	7	0.6	<0.2
111540	Soil	43	14	0.66	311	0.148	<1	2.47	0.047	0.75	0.1	0.01	3.4	0.6	0.59	6	1.1	0.7
REP 111540	QC	44	15	0.71	325	0.154	<1	2.54	0.051	0.70	0.1	0.02	3.2	0.6	0.62	7	1.6	0.5
111570	Soil	23	14	0.55	47	0.145	<1	2.37	0.010	0.19	<0.1	<0.01	3.6	<0.1	0.05	8	<0.5	<0.2
REP 111570	QC	23	14	0.54	50	0.138	<1	2.41	0.010	0.19	<0.1	<0.01	3.4	<0.1	<0.05	8	<0.5	<0.2
107599	Soil	31	44	0.98	268	0.195	<1	2.98	0.010	0.55	0.1	<0.01	4.5	0.5	0.06	8	<0.5	<0.2
REP 107599	QC	30	44	1.03	269	0.213	<1	3.20	0.010	0.60	0.1	0.02	4.8	0.5	0.08	9	<0.5	<0.2
107613	Soil	36	13	0.29	103	0.054	1	1.07	0.008	0.04	0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
REP 107613	QC	35	13	0.27	105	0.052	<1	1.05	0.007	0.04	0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
102402	Soil	23	19	0.57	173	0.123	<1	1.67	0.012	0.26	<0.1	0.02	3.4	0.2	<0.05	5	<0.5	<0.2
REP 102402	QC	22	19	0.56	166	0.124	<1	1.70	0.012	0.25	0.1	0.01	3.6	0.2	<0.05	5	<0.5	<0.2
102411	Soil	15	26	0.92	175	0.166	<1	2.28	0.013	0.44	<0.1	0.01	7.1	0.1	<0.05	8	<0.5	<0.2
REP 102411	QC	14	25	0.85	169	0.161	<1	2.18	0.013	0.41	<0.1	0.02	6.9	0.2	<0.05	8	<0.5	<0.2
117743	Soil	6	8	0.95	159	0.158	<1	1.96	0.009	1.18	<0.1	<0.01	2.8	0.4	<0.05	7	<0.5	<0.2
REP 117743	QC	6	8	0.97	157	0.155	<1	1.94	0.008	1.11	<0.1	<0.01	2.6	0.3	<0.05	7	<0.5	<0.2

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000682.1

		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
117761	Soil	0.6	35.1	10.5	56	0.2	18.6	7.1	274	2.98	6.1	1.9	3.2	3.1	31	0.2	0.3	0.1	48	0.44	0.054
REP 117761	QC	0.6	34.2	10.4	55	0.2	19.0	7.0	278	2.99	5.8	1.8	2.6	3.2	30	0.2	0.3	0.1	49	0.45	0.053
108831	Soil	0.6	30.3	8.4	82	<0.1	6.9	5.8	418	3.37	3.9	0.8	<0.5	4.0	9	<0.1	0.2	<0.1	32	0.11	0.032
REP 108831	QC	0.6	30.9	8.1	83	<0.1	7.3	6.1	426	3.50	3.8	0.8	<0.5	3.8	9	<0.1	0.2	<0.1	33	0.10	0.033
108838	Soil	0.6	40.3	41.3	100	<0.1	15.9	5.2	632	2.76	6.0	0.9	5.4	5.7	14	<0.1	0.5	0.4	36	0.17	0.020
REP 108838	QC	0.5	41.0	42.4	100	<0.1	15.2	5.0	666	2.77	6.3	1.0	8.3	5.9	14	<0.1	0.6	0.4	36	0.19	0.021
109615	Soil	1.5	37.3	5.3	160	<0.1	10.4	11.4	666	3.37	3.4	1.1	3.8	8.2	63	<0.1	0.3	<0.1	78	0.48	0.020
REP 109615	QC	1.6	39.1	5.3	165	<0.1	11.0	11.4	716	3.49	3.7	1.2	1.8	8.3	67	<0.1	0.3	<0.1	79	0.50	0.021
109627	Soil	0.8	28.9	8.6	51	<0.1	19.3	9.5	208	2.57	6.4	0.5	2.6	3.2	26	<0.1	0.5	0.2	66	0.26	0.010
REP 109627	QC	0.7	26.8	8.9	51	<0.1	18.5	9.8	218	2.61	6.1	0.5	5.0	3.4	26	<0.1	0.5	0.1	67	0.25	0.009
Reference Materials																					
STD DS8	Standard	15.3	118.2	117.9	333	1.9	43.0	8.2	646	2.60	28.3	2.6	116.1	6.7	66	2.2	5.6	6.3	45	0.71	0.083
STD DS8	Standard	14.4	117.1	118.7	329	1.8	41.0	8.1	637	2.63	27.6	2.7	116.1	6.9	66	2.4	5.1	6.3	45	0.76	0.078
STD DS8	Standard	12.2	105.7	135.8	298	1.8	35.7	7.1	608	2.39	25.8	3.3	110.3	7.9	80	2.2	6.3	7.5	40	0.67	0.075
STD DS8	Standard	13.0	102.0	130.4	303	1.7	36.2	7.2	601	2.41	25.9	3.1	105.1	7.6	80	2.2	6.2	7.6	40	0.69	0.074
STD DS8	Standard	12.8	112.4	125.4	316	1.8	38.3	7.6	607	2.45	25.9	2.7	111.0	6.6	62	2.5	5.5	6.5	42	0.69	0.077
STD DS8	Standard	13.2	110.8	122.2	313	1.8	37.5	7.5	612	2.46	26.3	2.7	107.0	6.6	63	2.3	5.6	6.5	42	0.68	0.076
STD DS8	Standard	11.7	94.8	115.4	281	1.6	32.9	6.4	538	2.17	23.6	2.5	104.7	6.2	52	1.9	4.4	5.3	36	0.61	0.071
STD DS8	Standard	11.8	98.8	116.8	285	1.7	35.1	6.7	566	2.30	23.7	2.6	101.4	6.3	53	2.1	4.5	5.4	37	0.62	0.072
STD DS8	Standard	13.6	114.3	132.4	321	1.7	40.8	7.9	627	2.53	27.4	2.7	102.9	6.6	60	2.2	4.9	5.8	45	0.71	0.086
STD DS8	Standard	13.1	108.7	125.7	315	1.7	35.5	7.2	590	2.36	25.4	2.7	98.3	6.6	63	2.2	5.2	5.6	41	0.69	0.082
STD DS8	Standard	13.2	106.9	124.8	315	1.8	36.6	7.2	611	2.90	26.4	2.7	110.4	6.9	58	2.3	5.0	5.4	41	0.68	0.078
STD DS8	Standard	12.3	103.5	121.2	306	1.8	35.6	7.0	600	2.82	26.2	2.8	110.5	6.7	56	2.2	4.9	5.3	40	0.68	0.079
STD DS8	Standard	13.4	113.7	125.2	326	1.9	37.8	7.7	621	2.56	28.7	2.7	115.3	6.7	55	2.7	4.9	5.6	43	0.68	0.084
STD DS8	Standard	13.3	105.6	127.3	314	1.9	37.0	7.2	591	2.41	27.6	2.8	113.0	6.7	55	2.2	4.5	5.5	41	0.66	0.080
STD DS8	Standard	12.1	116.1	124.7	319	1.8	41.2	7.8	596	2.40	26.2	2.7	112.9	6.7	64	2.4	5.3	6.7	41	0.68	0.082
STD DS8	Standard	12.5	115.2	128.8	309	1.9	40.0	8.1	610	2.55	27.1	2.7	120.7	6.8	65	2.2	5.5	6.5	43	0.66	0.085
STD DS8	Standard	13.6	108.2	113.8	287	1.6	37.7	7.2	580	2.38	24.0	2.5	104.1	6.7	62	2.3	5.0	5.7	42	0.68	0.067
STD DS8	Standard	13.3	117.8	128.9	299	1.6	37.8	7.7	672	2.47	23.0	2.6	116.7	6.9	64	2.1	5.0	6.1	44	0.68	0.069

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Project: Rosebute  
 Report Date: August 06, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000682.1

		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
117761	Soil	18	23	0.49	313	0.071	<1	1.58	0.016	0.08	<0.1	0.06	5.1	<0.1	<0.05	5	<0.5	<0.2
REP 117761	QC	18	23	0.48	316	0.073	2	1.56	0.015	0.08	0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
108831	Soil	14	12	0.58	133	0.132	<1	1.60	0.006	0.68	<0.1	<0.01	8.4	0.3	<0.05	7	<0.5	<0.2
REP 108831	QC	13	13	0.60	127	0.140	<1	1.63	0.006	0.71	<0.1	<0.01	9.0	0.2	<0.05	7	<0.5	<0.2
108838	Soil	19	13	0.43	128	0.100	2	1.22	0.017	0.35	<0.1	0.03	9.2	0.2	<0.05	7	0.7	<0.2
REP 108838	QC	19	13	0.45	131	0.107	1	1.29	0.013	0.37	<0.1	0.04	9.1	0.2	<0.05	7	1.1	<0.2
109615	Soil	23	19	1.35	215	0.206	<1	2.64	0.018	0.73	0.1	<0.01	6.3	0.4	<0.05	10	<0.5	<0.2
REP 109615	QC	25	19	1.41	225	0.210	<1	2.75	0.021	0.73	<0.1	0.02	6.7	0.4	<0.05	9	0.5	<0.2
109627	Soil	11	33	0.59	173	0.088	<1	1.94	0.012	0.04	<0.1	<0.01	3.3	0.1	<0.05	5	0.5	<0.2
REP 109627	QC	11	33	0.60	172	0.089	<1	1.95	0.013	0.04	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	128	0.65	285	0.128	3	0.93	0.094	0.42	3.0	0.18	2.3	5.5	0.13	5	5.6	5.3
STD DS8	Standard	16	126	0.62	286	0.128	3	0.97	0.090	0.43	2.9	0.18	2.4	5.5	0.15	5	4.7	4.6
STD DS8	Standard	14	111	0.61	284	0.117	2	0.93	0.108	0.45	3.0	0.20	2.4	5.4	0.14	5	5.6	5.2
STD DS8	Standard	15	110	0.60	286	0.123	3	0.92	0.112	0.43	3.0	0.20	2.6	5.3	0.14	5	4.5	4.7
STD DS8	Standard	14	117	0.61	273	0.109	3	0.89	0.082	0.40	3.1	0.21	2.1	5.6	0.20	5	5.6	5.3
STD DS8	Standard	14	116	0.61	271	0.114	2	0.90	0.086	0.41	3.0	0.20	2.2	5.4	0.18	5	5.3	5.0
STD DS8	Standard	13	101	0.56	249	0.098	3	0.79	0.072	0.37	2.7	0.18	1.9	5.0	0.16	4	5.4	4.9
STD DS8	Standard	13	105	0.57	251	0.102	3	0.81	0.074	0.37	2.7	0.21	2.0	4.9	0.15	4	5.2	5.0
STD DS8	Standard	13	126	0.61	264	0.117	1	0.94	0.084	0.41	2.9	0.17	2.4	5.4	0.25	5	5.5	4.7
STD DS8	Standard	15	116	0.61	269	0.114	<1	0.92	0.091	0.41	3.2	0.18	2.3	5.3	0.16	5	4.7	4.9
STD DS8	Standard	15	114	0.61	279	0.112	3	0.89	0.072	0.42	2.9	0.23	1.9	5.4	0.19	5	4.5	4.6
STD DS8	Standard	15	112	0.61	270	0.114	2	0.90	0.070	0.41	2.7	0.19	2.0	5.3	0.17	4	4.2	5.9
STD DS8	Standard	13	118	0.62	272	0.105	2	0.91	0.083	0.41	3.0	0.20	1.9	5.7	0.22	5	4.9	5.6
STD DS8	Standard	13	112	0.60	273	0.104	3	0.85	0.081	0.40	3.0	0.20	1.8	5.7	0.18	5	4.9	5.6
STD DS8	Standard	14	113	0.60	285	0.119	2	0.90	0.080	0.42	3.1	0.22	1.9	5.6	0.17	5	6.0	4.9
STD DS8	Standard	14	117	0.63	278	0.115	3	0.91	0.094	0.42	2.9	0.19	2.0	5.7	0.18	5	4.7	4.8
STD DS8	Standard	15	115	0.52	270	0.116	2	0.83	0.077	0.37	2.7	0.20	1.9	5.1	0.07	4	4.6	4.3
STD DS8	Standard	16	121	0.54	270	0.124	2	0.92	0.070	0.38	2.7	0.19	2.0	5.2	0.09	4	5.1	5.1





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**Project:** Rosebute

**Report Date:** August 06, 2011

**Page:** 3 of 3 **Part** 1

# QUALITY CONTROL REPORT

WHI11000682.1

		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	12.8	103.3	123.8	304	1.7	36.3	7.1	574	2.35	24.8	2.6	110.0	6.5	62	2.1	5.5	6.4	38	0.65	0.079
STD DS8	Standard	13.4	107.5	127.4	314	1.9	38.1	7.6	604	2.43	25.4	3.0	102.7	6.9	71	2.3	5.6	6.5	42	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	0.02	<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	0.02	<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:** Rosebute

**Report Date:** August 06, 2011

**Page:** 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000682.1

		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	14	108	0.59	270	0.108	2	0.89	0.086	0.41	3.0	0.21	2.1	5.2	0.13	5	5.4	5.1
STD DS8	Standard	15	114	0.62	273	0.118	2	0.91	0.087	0.42	3.2	0.21	2.1	5.4	0.18	5	4.6	4.6
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2