



**ASSESSMENT REPORT ON THE 2013 GEOCHEMICAL SAMPLING  
AND GEOLOGICAL MAPPING ON THE BEAR PROJECT**

LOCATED IN THE WHITEHORSE MINING DISTRICT

BEAR 1-96 (YE79501-YE79596)

NAD83 ZONE 7  
UTM COORDINATES 591200E, 6865350N  
NTS MAPSHEET 115G/14

OWNER  
TECK RESOURCES LIMITED  
Suite 3300, 550 Burrard Street  
Vancouver, B.C., V6C 0B3

REPORT BY  
ANDREA BERG, BSc. and ERIN LIEBRECHT, BSc.  
May 7, 2014

Work Period: July 16 – August 21, 2013

## Table of Contents

1.0	SUMMARY .....	4
2.0	LOCATION AND ACCESS .....	5
3.0	CLAIM STATUS.....	5
4.0	PROPERTY HISTORY.....	8
5.0	GEOLOGICAL SETTING .....	8
5.1	Regional Geology .....	8
5.2	Property Geology .....	9
6.0	DEPOSIT TYPES .....	13
7.0	MINERALIZATION .....	13
8.0	2012 EXPLORATION PROGRAM .....	15
8.1	Soil Geochemical Sampling .....	15
8.2	Geological Mapping and Rock Sampling .....	15
9.0	GEOCHEMICAL ANALYTICAL PROCEDURES.....	16
10.0	INTERPRETATION AND CONCLUSIONS.....	17
10.1	Soil Geochemical Sampling .....	17
10.2	Geologic Mapping and Sampling .....	17
11.0	RECOMMENDATIONS.....	18
12.0	REFERENCES .....	19

## List of Figures

Figure 1: Property Location Map .....	5
Figure 2: Claim Map .....	7
Figure 3: Regional Geology Map .....	10
Figure 4: Outcrop of Snowcap quartz biotite schist showing strong foliation oriented at 284/76 RHR (YTG_2013_ARB_0090).....	12
Figure 5: Relatively unaltered, ‘crowded’ feldspar porphyry with fine-grained, mafic groundmass and trace disseminated pyrite (YTG_2013_ARB_0127).....	12
Figure 6: Hornblende-phyrlic vesicular andesite (YTG_2013_ARB_0111).....	13
Figure 7: Subcrop grab sample of vuggy quartz vein with limonite boxwork; sample returned anomalous silver, lead and gold assay values (YTG_2013_ECL_0025)	
Figure 8: Soil Sample Location Map.....	In Pocket
Figure 9: Soil Geochemistry Maps.....	In Pocket
9a Soil Sample : Au	
9b Soil Sample : As	
9c Soil Sample : Cu	
Figure 10: Property Scale Geology.....	In Pocket
Figure 11: Rock Sample Location Map.....	In Pocket
Figure 12: Rock Geochemistry Maps .....	In Pocket
12a Rock Sample : Au	
12b Rock Sample : Ag	
12c Rock Sample : As	
12d Rock Sample : Pb	

### List of Tables

Table 1: Claim Summary.....	8
-----------------------------	---

### Appendices

- I – Statement of Qualifications
- II - Statement of Expenditures
- III – Geology Station Observations
- IV – Rock Physical Property Data
- V – Soil Geochemical Analytical Certificates
- VI – Rock Geochemical Analytical Certificates

## 1.0 SUMMARY

This report discusses geochemical sampling and geological mapping carried out on the Bear Project by Teck Resources Limited (Teck) during the 2013 exploration program. The program focused on exploration for gold mineralization associated with the Nisling Range Batholith following the results of reconnaissance sampling completed by Teck prior to staking in 2012. The aim of the program was to identifying targets for future testing by diamond drilling.

The 2013 program consisted of soil geochemical sampling and geological mapping completed between mid-July and late August. A total of 312 soil samples and 36 rock samples were collected for assay from the Bear claim group.

Soil geochemical sampling on the Bear claims supported and expanded upon elevated gold, copper and arsenic geochemistry that was revealed from Teck's work in 2012. Most significantly, an anomalous arsenic footprint spanning 3km x 1km has been identified. Coincident with the northeast extent of the arsenic footprint, an area of approximately 600 x 600m of anomalous gold in soil was found with six samples over 20ppb, two samples over 50ppb and two samples over 98ppb Au. Additional anomalous gold in soil values throughout the arsenic footprint included 72.1ppb and 168.8ppb. Subdued copper values were also coincident with both elevated arsenic and gold including 5 soils with over 80ppm Cu and up to 106.1ppm Cu. The majority of the geochemical footprint is overlain by quaternary deposits and vegetation; therefore, the bulk of mineralized source is presumed to be under cover.

Geological mapping found most of the property to be underlain by quartz-rich meta-clastic schist to slabby psammitic biotite muscovite quartz schist with lesser quartzite of the Snowcap Assemblage, and foliated granodiorite to diorite (orthogneiss) of the Simpson Range plutonic suite. Throughout the central area of the claims, the Snowcap and Simpson Range metamorphic rocks are intruded by feldspar porphyry dykes, which are generally 'plagioclase-crowded.' The feldspar porphyry dykes are locally magnetic with trace magnetite and hematite observed. The porphyry dykes appear to strike roughly NW-SE. Non-foliated hornblende biotite diorite was found locally on the property, which may be Cretaceous in age and belong to the Nisling Range Batholith. Also cropping out is hornblende-phyric rhyolite to andesite, interpreted to be from the Upper Cretaceous Donjek Volcanic suite.

Alteration and mineralization observed across the property was generally weak to absent; however, in the central area of the property an isolated float pile of feldspar porphyry showed intense chlorite replacement after hornblende, weak pervasive silicification and selective argillic alteration; this sample coincided with anomalous lead and silver assay values. The source of anomalous soil assay values is believed to be under cover. Three float grab samples in the south central area of the claim of vuggy quartz veins cutting schist showed elevated silver (up to 101 gpt) lead (up to 5416 ppm) and gold (up to 0.3 gpt).

## **2.0 LOCATION AND ACCESS**

The Bear Project is located in the southwestern portion of Yukon Territory, approximately 260 kilometres northwest of the city of Whitehorse, and 60 kilometres north of the community of Burwash Landing, a community situated along the southern shores of Kluane Lake. The Yukon/Alaska geographical border is located approximately 200 kilometres northwest of Burwash Landing along the Alaska Highway. The project lies to the north of the highway. All claims that make up the Bear project fall within the Whitehorse Mining District. Figure 1 shows the location of the Bear Project.

The Alaska Highway is well-travelled, with several communities located between Whitehorse and Burwash Landing. Burwash Landing has a maintained Yukon Government run public airport, as well as lodging accommodations, gas station, restaurants, gift shops, and a laundromat. The White River Lodge is located on the south side of the Alaska Highway at kilometre 1818, approximately 115 kilometers northwest of Burwash Landing. The White River Lodge served as the base for crews during the 2013 field season and has an owner-maintained airstrip which was used for helicopter staging and fueling.

The project is located within the Nisling Range with the Kluane Plateau ecoregion located in the adjacent valley to the north of the claim blocks. The Ruby Range ecoregion is located approximately 10 km to the south of the claim blocks. Most of the claims are at high elevations characterized by rolling alpine tundra with scattered rock outcrop. The northern perimeter of the claim blocks are located 7 kilometers due south of Grace Lake. The southern boundary of the claim locks is bordered by the Tincup Creek Valley to the southwest. The highest altitudes on the property are approximately 1400 meters, as broad ridge tops above tree line. At lower elevations on the ridges and in valleys, vegetation consists of stunted spruce, alder and moss.

Wildlife known to the project area include moose, thin horn sheep, mountain goats, woodland caribou, wolves, bears (grizzly and black), wolverines, raptors (golden eagles, peregrine falcons, osprey, bald eagles) and migratory birds.

## **3.0 CLAIM STATUS**

The Bear project is one claim grouping for assessment purposes. Figure 2 shows the layout of the Bear claims. The Bear claim group consists of 96 contiguous quartz mining claims in the Whitehorse Mining District of the Yukon Territory. The property is located on the NTS sheet 115G/14. All 96 claims are 100% owned and operated by Teck Resources Limited. The claims were staked in December of 2013 and based on the assessment work herein, the requested renewal dates are December 14 and 18, 2018. Table 1 shows a summary of the claims within the grouping and their respective renewal dates.



ALASKA

NORTHWEST TERRITORIES

YUKON

BRITISH COLUMBIA

Old Crow

Eagle Plains

Dawson City

Mayo

Pelly Crossing

Beaver Creek

Carmacks

Faro

Ross River

Burwash Landing

Klondike Highway

Robert Campbell Highway

Haines Junction

Whitehorse

Carcross

Watson Lake



Bear Project



Parks and Protected Areas



Primary Highway

200

Kilometers

Copyright:© 2013 Esri

Teck

Teck Resources Limited  
Suite 3300, 550 Burrard Street  
Vancouver, BC Canada

### Bear Project

Whitehorse Mining District / Yukon Territory

### Property Location Map

DATUM: NAD 83

PROJECTION: Yukon Albers

Figure

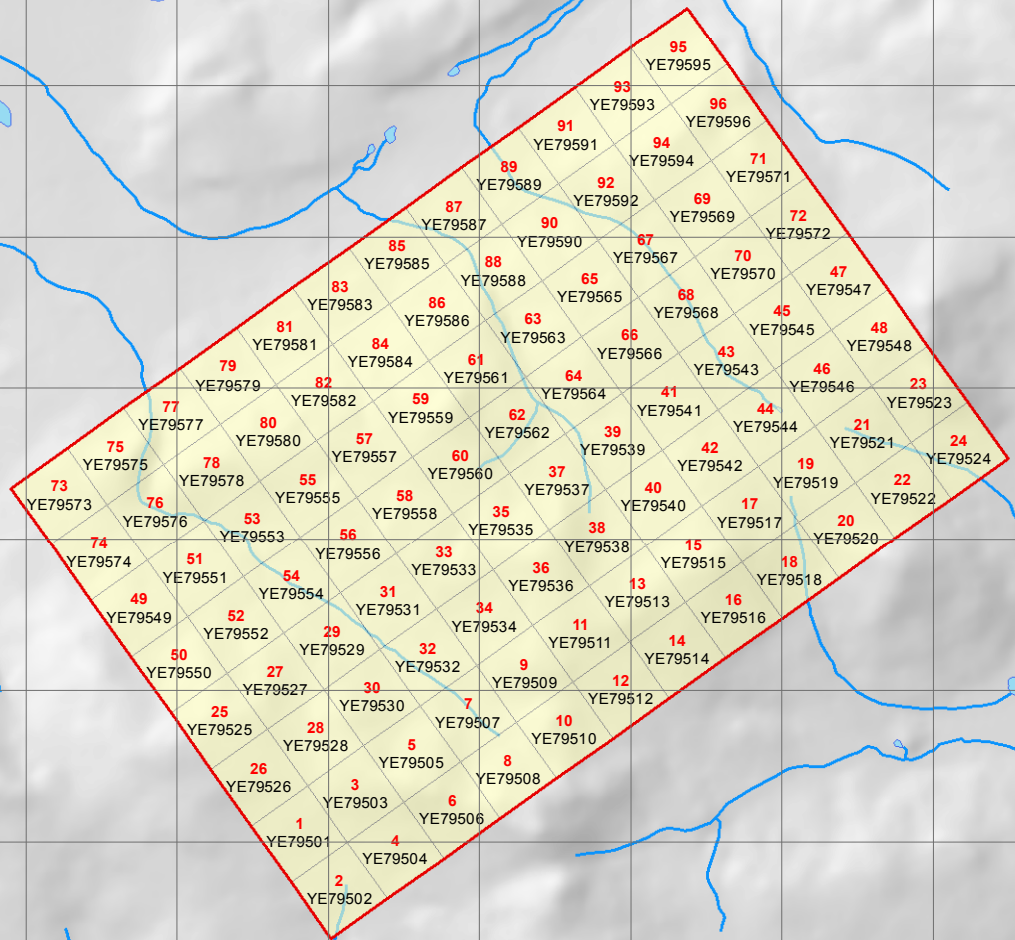
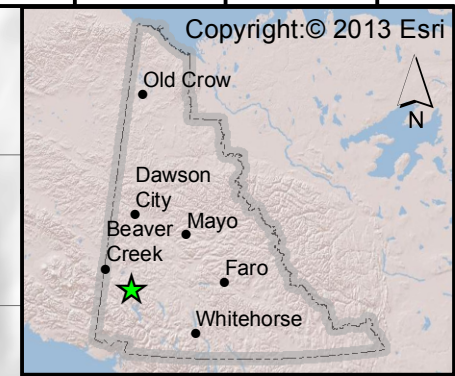
DATE: Dec. 2013

DRAWN BY: A.Hansen

1

586000 587000 588000 589000 590000 591000 592000 593000 594000 595000 596000 597000 598000

6861000  
6862000  
6863000  
6864000  
6865000  
6866000  
6867000  
6868000  
6869000



**Legend**

- Bear Claims Outline
- Bear Claims
- Rivers
- Lakes

1 km

Labels	
58	Claim #
YE79558	Grant #

<b>Teck</b>	Teck Resources Limited Suite 3300, 550 Burrard Street Vancouver, BC Canada	
<b>Bear Project</b>		
Whitehorse Mining District / Yukon Territory		
<b>Claim Map</b>		
1:50,000		
DATUM: NAD83	PROJECTION: UTM Zone 7N	Figure <b>2</b>
DATE: Dec. 2013	DRAWN BY: A. Hansen	

<b>Claim Name</b>	<b>Grant Number</b>	<b>Number of Claims</b>	<b>Expiry Date</b>	<b>Requested Renewal Date</b>
BEAR 1-36; 49-96	YE79501-YE79536; YE79549-YE79596	36	12/19/2013	12/19/2023
BEAR 37-48	YE79537-YE79548	12	12/14/2013	12/14/2023

**Table 1: Claim Summary**

## **4.0 PROPERTY HISTORY**

The Nisling Range has seen relatively little historic exploration work and no Yukon Minfile occurrences are located on the property. Some prospecting and exploration work has occurred in the area to the southwest of the claim blocks near Tincup Lake, although no significant findings were made. Teck Corporation completed a stream sediment sampling program in the Nisling Range in 1999 and Teck Resources Limited completed soil and stream geochemical sampling and prospecting in 2011 and 2012. Exploration by Teck in 2011 and 2012 outlined three principal areas with anomalous gold to the northwest of the Bear group which were termed Big Bend (Wolf 1), Hailstorm (Wolf 2), and Beach (Wolf 4). The Bear project was identified as a zone of interest in 2012 after reconnaissance soil and stream sediment sampling was conducted in the area highlighting anomalous gold, copper and arsenic values.

## **5.0 GEOLOGICAL SETTING**

### **5.1 Regional Geology**

Rocks of southwestern Yukon, north of the Denali Fault, are primarily assigned to 1) the Yukon Tanana terrane, 2) the White River assemblage and underlying Scottie Creek Formation, 3) the Harzburgite Peak - Eikland Mountain ophiolite complex, 4) the Doghead assemblage, 5) various Jurassic to Eocene aged intrusions, and 6) the Late Cretaceous Donjek volcanics. Descriptions of these units herein are largely summarized from publications by Murphy (2011) and Murphy et al. (2011).

Rocks of the Yukon Tanana Terrane (YTT) include the Snowcap assemblage, Simpson Range Suite and The Finlayson Assesmblage. The basal, pre-Upper Devonian, quartz-rich siliciclastic Snowcap assemblage are generally intruded by plutons of the Early Mississippian Simpson Range Plutonic Suite (orthogneiss) and overlain by unconformity-bounded Upper Devonian to Permian carbonaceous schist, quartzite, muscovite-quartz schist, marble and mafic schist of the Finlayson assemblage. The White River

assemblage is lithologically similar to rocks of the YTT, but also includes carbonaceous and siliciclastic rocks of the Permian to Upper Triassic Mirror Creek formation and a Mid-Triassic gabbroic unit. Previous interpretations have correlated the White River assemblage with the Yukon Tanana terrane, but a new interpretation by Murphy (2011) instead correlates the White River assemblage and underlying schists of the Scottie Creek Formation with rocks of the Selwyn Basin (Laurentia).

The Harzburgite Peak - Eikland Mountain (HPEM) ophiolite complex comprises harzburgite, peridotite, gabbro and diabase with lesser plagiogranite, chomitite, basalt and chert. Diabase and hornblende gabbro are dated as Early Permian, emplaced into older ultramafic rocks (Murphy et al., 2011). The HPEM ophiolite complex structurally overlies the Yukon Tanana terrane to the east and what is now interpreted as the Laurentian continental margin (i.e. Selwyn Basin rocks) to the west. It has been suggested that these rocks may be synonymous with oceanic rocks of the Slide Mountain terrane, which mark the contact between the Laurentian continental margin and Peri-Laurentian arc terranes along the length of the North American cordillera.

The Doghead assemblage comprises metamorphosed peridotite, harzburgite and gabbro thrust over rocks of the Yukon Tanana terrane (Murphy et al., 2011). Metagabbro and plagiogranite within the Doghead assemblage are Late Triassic in age, likely correlative with the Meade Glacier complex (near Skagway, Alaska) and the Chulitna terrane (south of the Denali fault, eastern Alaska). Together, these occurrences reflect an oceanic terrane fringing the North American craton during the Triassic.

The above sequences are intruded by a series of Jurassic to Eocene aged intrusions including the early Cretaceous Nisling Range batholith and Late Cretaceous Ruby Range batholith.

Much of the broader area is overlain by unmetamorphosed, predominantly mafic rocks, of the Late Cretaceous Donjek Volcanics. These rocks are now correlated with the more widely studied Carmacks volcanics elsewhere in the Yukon.

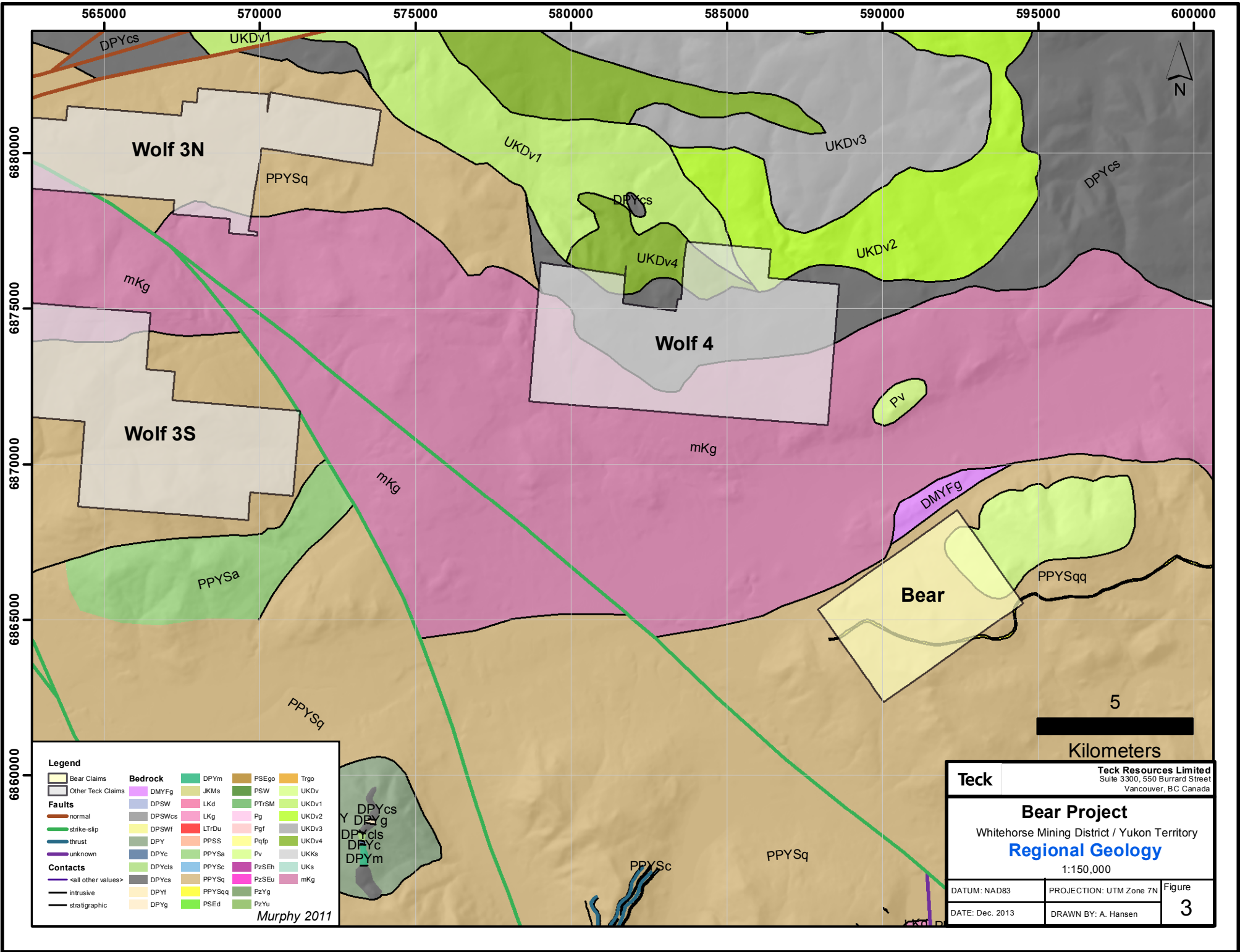
The regional geology is shown on Figure 3.

## **5.2 Property Geology**

The Bear property is predominantly underlain by upper Devonian, quartz rich meta-clastic schist to slabby, psammitic biotite muscovite quartz schist (average foliation 292/60) with lesser quartzite of the Snowcap Assemblage (Colpron et al., 2006). A weak to moderately foliated, coarse grained hornblende granodiorite to diorite (orthogneiss) can also be seen locally within the claim block that is interpreted to belong to the Simpson Range Plutonic Suite. On the eastern extent of 2013 mapping, non-foliated hornblende biotite diorite was observed, which may be Cretaceous in age and belong to the Nisling Range Batholith. Throughout the central area of the claims, the Snowcap metamorphic rocks are intruded by feldspar porphyry dykes, which are generally 'plagioclase-crowded.' The feldspar porphyry dykes are locally magnetic with trace magnetite and hematite observed. The porphyry dykes appear to strike roughly NW-SE. Also cropping out on the property is hornblende-phyric rhyolite to andesite with

a fine-grained groundmass that is locally vesicular. These rocks are interpreted to be of the Late Cretaceous Donjek Volcanic Suite. Well rounded glacial erratics of coarse-grained granodiorite belonging to the Nisling Range batholith are also observed throughout the property.

Hydrothermal alteration is minimal throughout the property, but where present, the common alteration minerals are chlorite and epidote, which replace mafic and felsic sites within porphyry dykes. Metamorphic Snowcap and Simpson Range metamorphic rocks remain relatively fresh and are cut by very rare, vuggy quartz veins. In the central area of the property, an isolated float pile of feldspar porphyry exhibited intense chlorite replacement of hornblende, weak pervasive silicification and selective argillic alteration; this sample coincided with anomalous lead and silver assay values.



**Legend**

Bear Claims	<b>Bedrock</b>	DPYm	PSEgo	Trgo
Other Teck Claims	DMFYg	JKMs	PSW	UKDv
<b>Faults</b>	DPSW	LKd	PTrSM	UKDv1
normal	DPSWcs	LKg	Pg	UKDv2
strike-slip	DPSWf	LTrDu	Pgf	UKDv3
thrust	DPY	PPSS	Pqfp	UKDv4
unknown	DPYc	PPYSa	Pv	UKKs
<b>Contacts</b>	DPYcls	PPYSc	PzSEh	UKs
<all other values>	DPYcs	PPYSq	PzSEu	mKg
intrusive	DPYf	PPYSqq	PzYg	
stratigraphic	DPYg	PSEd	PzYu	

Murphy 2011

<b>Teck</b>	Teck Resources Limited Suite 3300, 550 Burrard Street Vancouver, BC Canada	
	<b>Bear Project</b> Whitehorse Mining District / Yukon Territory <b>Regional Geology</b> 1:150,000	
DATUM: NAD83	PROJECTION: UTM Zone 7N	Figure
DATE: Dec. 2013	DRAWN BY: A. Hansen	<b>3</b>



*Figure 4: Outcrop of Snowcap quartz biotite schist showing strong foliation oriented at 284/76 RHR (YTG\_2013\_ARB\_090)*



*Figure 5: Relatively unaltered, 'crowded' feldspar porphyry with fine-grained, mafic groundmass and trace disseminated pyrite (YTG\_2013\_ARB\_0127).*



*Figure 6: Hornblende-phyric vesicular andesite (YTG\_2013\_ARB\_0111)*

## **6.0 DEPOSIT TYPES**

The Nisling Range batholith has experienced relatively little historic exploration, and does not host any documented Minfile occurrences. Portions of the pluton with a low magnetic response, and adjacent areas of country-rock may be considered prospective for reduced intrusion related gold (RIRG) mineralization analogous to the Fort Knox and Pogo deposits in Alaska. More oxidized and therefore magnetic portions of the batholith may be prospective for porphyry and related mineralization styles.

Portions of the Yukon Tanana terrane stratigraphy are prospective for volcanogenic massive sulphide (VMS) mineralization as documented from the Finlayson Lake district (north of the Tintina Fault), and the recently discovered Touleary VMS occurrence south of Dawson City.

## **7.0 MINERALIZATION**

Reconnaissance work done by Teck Resources Limited in 2012 (prior to staking) outlined an area of anomalous gold, copper and arsenic values in soil geochemistry along with high gold values in steam sediment samples. Teck mapping in 2013 did not identify a definitive source of mineralization for

anomalous stream and soil samples, however minimal subcrop and float of quartz veining and/or quartz flooding within the Snowcap metamorphic rock returned anomalous silver, lead and gold. One float grab sample and one subcrop grab sample of vuggy quartz veins (Figure 7) cutting schist in the south central area of the claim returned elevated silver (up to 101 gpt), lead (up to 0.5%) and gold (up to 0.3 gpt) assay values. In addition, rare feldspar porphyritic dykes are weakly mineralized with up to 4% pyrite. One isolated float sample of crowded feldspar porphyry, taken proximal to anomalous quartz veining in schist, with vugs up to 2cm filled by euhedral quartz as well as 4% disseminated pyrite, returned values of 1.26ppm Ag and 44.4ppm lead. This sample showed strong alteration with intense chlorite after hornblende, weak, pervasive silicification and selective clay alteration. The majority of the anomalous geochemical footprint is overlain by quaternary deposits and vegetation; therefore, the source of mineralization is presumed to be under cover.



*Figure 7: Subcrop grab sample of vuggy quartz vein with limonite boxwork; sample returned anomalous silver, lead and gold assay values (YTG\_2013\_ECL\_0025).*

## **8.0 2013 EXPLORATION PROGRAM**

The 2013 exploration program on the Bear claim group consisted of soil sampling and geological mapping. A sampling and mapping crew ranging from two to six persons worked several field rotations on the property throughout the field season, starting on July 16, 2013 and completing the program on August 21, 2013. Work was completed in conjunction with work carried out on Teck's nearby Wolf Project.

### **8.1 Soil Geochemical Sampling**

The 2013 soil sampling program for the Bear claims consisted of conventional B-horizon soil sampling. The samples were collected from a grid which was designed with 200-metre grid line spacing and 100-metre station spacing. The grid lines were oriented with an azimuth of 325 degrees. For soils collected, approximately 1000 grams of soil was taken and placed in a Hubco sample bag along with a lab-issued sample tag and secured with a zip tie or the Hubco bag strings. Sample numbers were also written on the outside of each sample bag.

Each sample site was located using a hand-held Garmin GPS and detailed notes describing the material and various physiographic constraints were recorded using a Trimble JunoT41/5 handheld computing device. No flagging, stakes, or metal tags were left at sample locations, and each hole was reclaimed by replacing the soil mound back into the hole after the sample was taken. All samples were delivered by expeditor to the Acme Analytical (Acme) prep laboratory in Whitehorse, Yukon for preparation and subsequently shipped to Acme Analytical Laboratories in Vancouver for analysis. Soil sample locations and associated geochemistry are shown on Figures 8 and 9. Laboratory analytical certificates are located in Appendix V.

### **8.2 Geological Mapping and Rock Sampling**

Geological mapping was completed in selected areas across the Bear claims, with focus on ridge tops with exposed rock and zones of anomalous gold-in-soil from reconnaissance in 2012. Due to the limited volume of outcrop on the property, large blocky talus interpreted to be proximally sourced was used when required to infer geological contacts between map units. A field map showing outcrop/subcrop/float exposure, lithology and alteration was completed for the Bear claims at a scale of 1:10,000. Geological mapping on the Bear claims is shown on Figure 10. One- to three-kilogram rock samples were collected as outcrop, subcrop or float composites or grabs and placed in heavy plastic sample bags with a lab-issued sample tag. Sample bags were secured with a zip tie and the sample number was written on the outside of the bag. Magnetic susceptibility readings were taken in field for rock samples collected and rock specimens at representative sites were collected for physical property analysis by Teck's geophysical department in Vancouver B.C. Physical property data analysis results are located in Appendix IV. Rock samples were delivered by expeditor to the Acme prep lab in Whitehorse

for preparation and subsequently shipped by Acme to their laboratory in Vancouver for analysis. Rock sample locations and geochemistry are shown on Figures 11 and 12. Laboratory analytical certificates are located in Appendices VI.

## **9.0 GEOCHEMICAL ANALYTICAL PROCEDURES**

All samples were sent to Acme Analytical Laboratories (Acme) in Whitehorse and Vancouver for processing and analysis. Acme is an ISO 9002 accredited facility and services numerous exploration programs in Yukon. A total of 312 soil samples and 36 rock samples were collected from the Bear claims during the 2013 exploration program.

The preparation procedure for soil samples involves oven-drying the sample material at 60 degrees Celsius and then screening to -180 microns (-80 mesh ASTM). Samples are handled, dried and screened in an area dedicated for specific media to avoid contamination from other types of samples. A 30g sample of the -80 mesh material was then digested in aqua regia solution and diluted with distilled water. This solution was then analyzed for 53 elements by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) according to the Acme 1F06 analytical procedure.

Rock samples were prepared by first drying the sample, then crushing 1 kilogram of rock to 80% passing 10 mesh, splitting 250 grams and pulverizing to 85% passing 200 mesh. A 30 gram sample of the 200 mesh material was then digested in aqua-regia solution and diluted with distilled water. This solution was then analyzed for 53 elements by ICP-MS according to the Acme 1F06 analytical procedure, as well as for gold by Fire Assay fusion with Inductively Coupled Plasma Emission finish according to the Acme G601 procedure.

## 10.0 INTERPRETATION AND CONCLUSIONS

The following summarizes the results of the 2013 soil geochemical and geological mapping program on the Bear claims.

### 10.1 Soil Geochemical Sampling Results

Soil geochemical sampling on the Bear claims supported and expanded upon elevated gold, copper and arsenic geochemistry that was revealed from Teck's reconnaissance work in 2012 prior to staking. Most prominently, an anomalous arsenic footprint spanning 3km x 1km has been identified. Coincident with the northeast extent of the arsenic footprint, an area of approximately 600x600m of anomalous gold in soil was found with six samples over 20ppb, two samples over 50ppb and two samples over 98ppb Au. Additional anomalous gold in soil values throughout the arsenic footprint included 72.1ppb and 168.8ppb. Subdued copper values were also coincident with the elevated gold and arsenic values including 5 soils with over 80ppm copper and up to 106.1ppm Cu.

### 10.2 Geologic Mapping and Sampling Results

The geological mapping program was focused in the southeastern extent of the claim group which is underlain by predominantly Yukon Tanana Terrane rocks belonging to the Snowcap Assemblage and Simpson Range Plutonic Suite. Throughout the central area of the claims, the Snowcap and Simpson Range metamorphic rocks are intruded by feldspar porphyry dykes, which are generally 'plagioclase-crowded.' The feldspar porphyry dykes are locally magnetic with trace magnetite and hematite observed. The porphyry dykes appear to strike roughly NW-SE. Also cropping out on the property are non-foliated hornblende biotite granodiorite rocks which could potentially belong to the Mid-Cretaceous Nisling Range suite of intrusive rocks, and hornblende-phyric rhyolite to andesite of the Late Cretaceous Donjek Volcanic Suite.

Two samples of vuggy quartz vein in the south central area of the claim (Figure 7) showed elevated silver (up to 101 gpt) and lead (up to 0.5%) with one of the samples also showing returning anomalous gold (0.3gpt Au) and arsenic (1867.8ppm). Soils in the vicinity of these samples also resulted in elevated silver, gold and arsenic.

Within the south-central area of the property, small outcrops and float piles of feldspar porphyry were encountered; however, only up to 4% disseminated pyrite mineralization was observed. One isolated float sample of crowded feldspar porphyry, taken proximal to anomalous quartz vein, with 4% disseminated pyrite, returned 1.26ppm Ag and 44.4ppm lead. This sample showed strong alteration with intense chlorite after hornblende, weak pervasive silicification and selective clay alteration.

The majority of the geochemical footprint is overlain by quaternary deposits and vegetation; therefore, the bulk of mineralized source is presumed to be under cover.

## **11.0 RECOMMENDATIONS**

The 2013 exploration program on the Bear project identified and expanded anomalous gold and associated elements in soil and outlined areas for future exploration. Due to limited outcrop over the area of anomalous arsenic, gold, and copper on the Bear claims, trenching is recommended to further investigate the source of anomalous geochemistry. In addition, expanding the soil grid and geological map to the unexplored northeast end of the property is recommended.

## 12.0 REFERENCES

Murphy, D., 2011. New mineral exploration opportunities highlighted by new geoscience data, Stevenson Ridge and northern Kluane Lake areas, southwestern Yukon. Cordilleran Roundup poster.

Murphy, D., Escayola, M., van Staal, C., McLelland, B., Moretensen, J., Friedman, R., 2011. Ophiolitic complexes of western Yukon: age, geochemical character, geological setting, terrane correlation and metallogeny. Yukon Geoscience Forum poster.

Colpron, M. (compiler), 2006. Tectonic assemblage map of Yukon-Tanana and related terranes in Yukon and northern British Columbia (1:1 000 000 scale). Yukon Geological Survey, Open File 2006-1.

Berg, A., Farmer, R., 2011. Assessment report on the 2011 Geochemical Sampling and Prospecting on the Wolf Property, WOLF 1-378, WOLF 387-414, WOLF 427-446, WOLF 451-460, WOLF 461-506, WOLF 509-708, WOLF 709-1062, Whitehorse Mining District, Yukon Territory, Teck Resources Limited.

APPENDIX I

STATEMENT OF QUALIFICATIONS

## Statement of Qualifications

I, Andrea Berg, BSc., certify that:

1. I am a Project Geologist currently employed by Teck Resources Limited, Suite 3300, 550 Burrard Street, Vancouver, British Columbia, V6C 0B3 (business phone 604-699-4402).
2. I graduated from the University of Alberta in Edmonton, Alberta, Canada with a Bachelor of Science Degree in Geology in 2008 and have been practicing my profession in Canada since that time.
3. I supervised the 2013 field exploration program on the Bear claims, and I was on the property for extended periods during the 2013 field exploration program.
4. I am responsible for the preparation of this report, and that data contained in this report, and interpretations drawn from it, are true and accurate to the best of my knowledge.



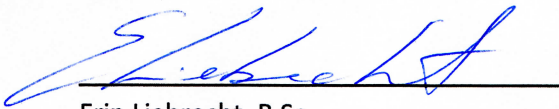
Andrea Berg, B.Sc.

Dated May 7, 2014  
at Vancouver, British Columbia

## Statement of Qualifications

I, Erin Liebrecht, BSc., certify that:

1. I am a Geologist employed on a contract basis by Teck Resources Limited, Suite 3300, 550 Burrard Street, Vancouver, British Columbia, V6C 0B3 (business phone 604-699-4400).
2. I graduated from the University of Calgary in Calgary, Alberta, Canada with a Bachelor of Science Degree in Geology in 2009 and have been practicing my profession in Canada since that time.
3. I participated in the 2013 field exploration program on the Bear Project, and I was on the property for extended periods during the 2013 field exploration program.
4. I contributed to the preparation of this report, and that data contained in this report, and interpretations drawn from it, are true and accurate to the best of my knowledge.



Erin Liebrecht, B.Sc.

Dated March 12, 2014  
at Whitehorse, Yukon Territory

APPENDIX II

STATEMENT OF EXPENDITURES

## Bear: Statement of Expenditures

Exploration Work type	Comment	Days			Totals
<b>Personnel</b>					
		<b>Days</b>	<b>Rate</b>	<b>Subtotal</b>	
Geologist 1		14	\$537.09	\$7,519.24	
Geologist 2		9	\$527.79	\$4,750.14	
Geologist 3		4	\$465.58	\$1,862.32	
Field Assistant 1		6	\$276.82	\$1,660.95	
Field Assistant 2		8	\$238.67	\$1,909.40	
Field Assistant 3		2	\$347.33	\$694.65	
GIS Support		2	\$463.61	\$927.21	
QA/QC Support		1	\$491.43	\$491.43	
Cook 1		5	\$576.15	\$2,880.75	
Cook 2		2	\$438.46	\$876.92	
Cook Helper		2	\$421.65	\$843.30	
				\$24,416.31	<b>\$24,416.31</b>
<b>Geochemical Sampling</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Soil samples	312 soil samples (assay costs)	312	\$32.68	\$10,196.16	
Rock samples	36 rock samples (assay costs)	36	\$38.32	\$1,379.60	
				\$11,575.76	<b>\$11,575.76</b>
<b>Transportation</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Commercial airline flights		0.12	\$12,900.89	\$1,536.55	
Helicopter	25 flight hours	25.0	\$1,653.75	\$41,343.75	
Fuel	Invoiced			\$6,184.75	
Expediting Services	Invoiced	0.12	\$16,635.00	\$1,981.30	
				\$51,046.36	<b>\$51,046.36</b>
<b>First Aid Services</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
On-site medic, First Aid supplies	Invoiced	0.12	\$51,112.79	\$6,087.76	
				\$6,087.76	<b>\$6,087.76</b>
<b>Accommodation &amp; Food</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Hotel, cabin and tent rentals		0.12	\$87,258.43	\$10,392.86	
Groceries, meals		0.12	\$21,009.86	\$2,502.37	
				\$12,895.22	<b>\$12,895.22</b>
<b>Maps &amp; Prints</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Detailed Property Imagery				\$775.75	
				\$775.75	<b>\$775.75</b>
<b>Equipment and Supplies</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Fuel tanker rental	On-site fuel tanker for jet fuel	0.12	\$20,500.00	\$2,441.64	
Mobile Treatment Centre rental	First aid mobile vehicle	0.12	\$3,800.00	\$452.60	
Field Gear	Safety and first aid gear, sampling and prospecting gear and supplies.	0.12	\$40,211.20	\$4,789.33	
Telecommunications	Radios, satellite phones	0.12	\$18,372.89	\$2,188.29	
Rental Vehicles	Crew trucks, rental cars	0.12	\$6,216.41	\$740.40	
				\$10,612.26	<b>\$10,612.26</b>
<b>TOTAL Expenditures</b>					<b>\$117,409.41</b>

\*Note: Some rates have been calculated as a percentage of the overall 2013 exploration costs, which were shared between the Wolf and Bear Projects (12% applied to the Bear claims)

APPENDIX III

GEOLOGY STATION ROCK DESCRIPTIONS

**Bear: Geology Station Rock Descriptions**

Station ID	Sample ID	Sample Type	Location Type	LAT_WGS84	LONG_WGS84	Rock Description	Rock Type
YTG_2013_AAS_0002	2324503	Float Grab	Float	61.916018	-139.277241	porphyritic, diorite 2mm wide plag phenos	Diorite
YTG_2013_AAS_0003	2324504	Outcrop Grab	Outcrop	61.916181	-139.276359	scattered quartz veins in bt schist	Schist
YTG_2013_AAS_0004	2324505	Outcrop Composite	Outcrop	61.916182	-139.276351	mafic schist roughly west/sw trend orientation on schist foliation	Schist
YTG_2013_ARB_0007	2324605	Float Grab	Float	61.90609248	-139.2409003	yellow green clay	Quartzite
YTG_2013_ARB_0008	-	-	Float	61.90754587	-139.2390129	Med-grained black and white ('salt and pepper') hornblende-biotite diorite; equigranular, massive, fresh, no sulphides observed, weakly magnetic; phys prop sample taken.	Diorite
YTG_2013_ARB_0009	-	-	Float	61.90840139	-139.2385068	Med-grained black and white ('salt and pepper') hornblende-biotite diorite; equigranular, massive, fresh, no sulphides observed, weakly magnetic; phys prop sample taken.	Diorite
YTG_2013_ARB_0010	-	-	Float	61.9086708	-139.2385103	Med-grained hornblende-biotite diorite; equigranular, massive, weak locally sheeted at 1/3cm chl-qtz stringers <1mm, no sulphides observed, weakly magnetic; phys prop sample taken.	Diorite
YTG_2013_ARB_0011	2324606	Float Grab	Float	61.90502148	-139.2412024	Mg, massive, equigranular diorite with trace fine disseminated, moderately rusty pyrite; non-magnetic	Diorite
YTG_2013_ARB_0012	-	-	Float	61.90720968	-139.2372997	Dark green plag-hbl-phyric diabase dyke; phenos up to 15% plag, 5% hbl, f.g. groundmass	Diabase
YTG_2013_ARB_0013	-	-	Float	61.90708285	-139.2372118	NR_Diorite; m.g., equigranular, massive, non-magnetic, fresh, no sulphides observed	Diorite
YTG_2013_ARB_0014	-	-	Float	61.90663954	-139.2369517	Snowcap muscovite-quartzite; v. weakly foliated, fresh; in 'contact' with diorite float.	Quartzite
YTG_2013_ARB_0015	-	-	Float	61.90668587	-139.2370633	NR_Diorite; m.g., equigranular, massive, non-magnetic, fresh, no sulphides observed	Diorite
YTG_2013_ARB_0016	-	-	Float	61.90637832	-139.2361862	Snowcap qtz-musc schist; weakly foliated, grey in colour, milky white quartz veins noted in float up to 10cm.	Schist
YTG_2013_ARB_0017	-	-	Float	61.90611037	-139.2362968	Plag-hbl phyric diabase	Diabase
YTG_2013_ARB_0018	-	-	Float	61.90586628	-139.2382718	Weakly foliated quartzite, tight folds, milky white qtz vein; granitic rocks also noted in float (m.g., equigranular, massive). Photo 215, 216	Quartzite
YTG_2013_ARB_0019	-	-	Float	61.90574797	-139.2388498	Weakly foliated meta-igneous (?) as ARB-006; qtz-plag-musc-biot-hbl; moderate to intensely weathered (rust orange); in 'contact' with quartzite lower on slope; photo 218	Schist
YTG_2013_ARB_0020	2324607	Subcrop Composite	Subcrop	61.90509447	-139.239706	Massive, m.g. equigranular hbl-biot diorite; fresh with 0.5% rusty, disseminated pyrite; in contact with meta-igneous/or intensely weathered granitoid	Diorite
YTG_2013_ARB_0021	2324608	Subcrop Composite	Subcrop	61.90502631	-139.2412124	M.g. diorite, intense rust-orange weathering; ridge-top 'knoll' with lots of exposure leads to int. weathering, gives impression of foliation; 1% diss. Rusty pyrite.	Diorite
YTG_2013_ARB_0022	-	-	Float	61.90542146	-139.2435139	Weakly porphyritic diorite with biotite and plag phenos up to 2mm in f.g. med-grey groundmass; 0.5% py as blebs and disseminated	Diorite
YTG_2013_ARB_0023	2324609	Float Grab	Float	61.90562848	-139.2442968	near high au soil from 2012; mg.g massive light grey diorite, equigranular; weak chlorite after hbl; 3% disseminated and blebby pyrite, up to 1mm cubes	Diorite
YTG_2013_ARB_0024	2324612	Subcrop Composite	Subcrop	61.90553015	-139.2454271	(mafic) dk grey, feldspar porphyry with up to 20% euhedral plag phenos up to 5mm; up to 7% hbl phenos, weak alteration to chlorite; 1% diss py in f.g. grey groundmass	Porphyry
YTG_2013_ARB_0025	-	-	Float	61.90473422	-139.2459521	Massive, dominantly equigranular (few phenocrystic plag or hornblende), m.g. 'micro-granodiorite'; fresh; no sulphides observed	Granodiorite
YTG_2013_ARB_0026	-	-	Outcrop	61.90444129	-139.245512	NR_Diorite; fresh; trace disseminated pyrite	Diorite
YTG_2013_ARB_0027	-	-	Float	61.90410202	-139.246369	Weakly foliated qtz-biotite schist; fresh; trace disseminated pyrite	Schist
YTG_2013_ARB_0028	-	-	Outcrop	61.90325396	-139.2488734	Moderately foliated qtz muscovite schist (felsic); foliation 305/48	Schist
YTG_2013_ARB_0029	-	-	Outcrop	61.90244593	-139.2495858	Snowcap schist; foliation 306/49; photo	Schist
YTG_2013_ARB_0030	2324613	Float Composite	Float	61.90286132	-139.2497611	M.g. massive, equigranular diorite to granodiorite; grey-green colour, grain boundaries difficult to distinguish; weak qtz flooding; weak chlorite after mafics; fels-intrusive dyke, approx. 4metres wide, oriented at approx. 126deg; 5% fine disseminated pyrite; moderately magnetic	Diorite
YTG_2013_ARB_0031	-	-	Float	61.90267026	-139.2488687	M.g. massive, equigranular diorite to granodiorite; grey-green colour, grain boundaries difficult to distinguish; weak qtz flooding; weak chlorite after mafics; fels-intrusive dyke, approx. 4metres wide, oriented at approx. 126deg; 5% fine disseminated pyrite; moderately magnetic	Diorite
YTG_2013_ARB_0032	-	-	Outcrop	61.90220245	-139.254454	Snowcap schist; tight folds; photos	Schist
YTG_2013_ARB_0033	-	-	Float	61.90079918	-139.2592166	Snowcap plag-musc-qtz schist	Schist
YTG_2013_ARB_0034	-	-	Outcrop	61.89909569	-139.2608362	Snowcap quartzite; foliation 298/64	Quartzite
YTG_2013_ARB_0035	-	-	Outcrop	61.89911339	-139.2608161	Med grey-green phaneritic plag-phyric porphyry dyke; tr diss py	Porphyry
YTG_2013_ARB_0036	-	-	Outcrop	61.89903898	-139.2606015	Snowcap quartzite with foliation- parallel milky white qtz veins foliation at 289/46 (photo 334)	Quartzite
YTG_2013_ARB_0037	-	-	Outcrop	61.89894998	-139.2600369	as above, snowcap quartzite	Quartzite
YTG_2013_ARB_0038	2324552	Outcrop Composite	Outcrop	61.899036	-139.259969	p-hbl porphyry. Med green phaneritic plag phenos porphyry dyke. Tr diss py	Porphyry
YTG_2013_ARB_0039	-	-	Outcrop	591488.04	6864116.15	Snowcap schist (musc schist) Foliation med-strong @290/48)	Schist
YTG_2013_ARB_0040	-	-	Outcrop	591452.69	6864158.10	Small plag-hbl porphyry outcrop weak chl alt. mafics/hbl trace diss. Pyrite	Porphyry
YTG_2013_ARB_0041	-	-	Outcrop	591468.77	6864252.70	Snowcap qtz- musc schist (foliation at 292/56) photo 335, 336	Schist
YTG_2013_ARB_0042	-	-	Outcrop	591371.73	6864343.70	Snowcap quartzite	Quartzite
YTG_2013_ARB_0043	-	-	Outcrop	591442.14	6864588.59	Moderately foliated qtz-musc-biotite schist (Snowcap)	Schist
YTG_2013_ARB_0044	-	-	Outcrop	591481.52	6864689.04	Med green plag-hbl phyric andesite. No sulphides observed. Mod chl after hbl. Hematite after magnetite. Tr magn obsv, mod-strong mag response * phys property sample.	Andesite

**Bear: Geology Station Rock Descriptions**

YTG_2013_ARB_0045	2324553	Float Grab	Float	61.905033	-139.259005	Very few small float rocks. Consisting of diorite? Mg mixed with quartzite. Mod - intense alteration. Possible porphyry? Replacement epi/chl texture destroying qtz flooding locally. Up to 4% py. Non magnetic	Diorite
YTG_2013_ARB_0046	2324554	Float Grab	Float	61.905491	-139.259464	Light green rusty bleached hornblende phytic andesite. Int. chl after hbl. Weak slective clay (pale/yellow) Weak sil. Weak argillic alt. Rusty cavities up to 2cm with vuggy qtz. 4% diss. Py fine cubic. *handsamples. Photo 337	Andesite
YTG_2013_ARB_0047	-	-	Outcrop	591336.75	6864913.88	Qtz-bt schist (Snowcap)	Schist
YTG_2013_ARB_0053	2324556	Float Grab	Float	590723.50	6865786.90	m.g. massive equigranular S+P diorite, moderate weathered float rocks (orange) Tr. Py. Wk. chl after mafics. Phys. Property samples.	Diorite
YTG_2013_ARB_0054	2324557	Subcrop Composite	Subcrop	61.914491	-139.274695	Plag-hbl-phyric (bi-modal) diorite? To porphyry. Med-green/grey matrix. Some zones crowded phenos. Subhedral with fuzzy grain boundaries. Up to 4mm 2-3 mm avg. No sulphides obs. Phys. Propety sample. ~10mx10m area	Porphyry
YTG_2013_ARB_0055	-	-	Subcrop	590493.49	6866000.35	Qtz-musc schist to Qtz-bt schist. Common thick felsic qtz rich bands. *Physical property sample.	Schist
YTG_2013_ARB_0056	-	-	Outcrop	590553.48	6866087.07	Strongly foliated meta-igneous rock. Protolith= diorite/granodiorite. Foliation(161/35) Simpson Orthogneiss	Orthogneiss
YTG_2013_ARB_0057	2324558	Outcrop Grab	Outcrop	61.916608	-139.275751	Light green plag-bt porphyry in small outcrop 3mx3m. Weakly foliated. Aphanitic groundmass plag phenos up to 2mm stained orange from weathering. Foliation (?) 150/54 Simpson Suite? Mod chl after mafics. No sulphides observed.	Porphyry
YTG_2013_ARB_0058	2324559	Float Grab	Float	61.91423	-139.27846	Qtz-musc schist (Snowcap) small float pile on gentle slope (near soil anomaly) & Sampled corwded feldspar porphyry (plag-bt phenos) similar to ARB054 Tr. Py. Wk chl after bt and hbl.	Schist
YTG_2013_ARB_0059	2324560	Float Composite	Float	61.913689	-139.277432	Med grey green feldspar-hbl porphyry. Fuzzy plag grain boundaries. F.g. matrix Very hard (moderately silicified) Weak chl after mafics. No sulphides observed.	Porphyry
YTG_2013_ARB_0060	-	-	Float	590110.15	6865762.58	Low ridge with mixed rounded glacial lithologies. Angular musc schist. Schist is assumed to be local.	Schist
YTG_2013_ARB_0061	2324561	Float Grab	Float	61.913613	-139.288328	Green plag-bt-hbl porphyry with few sub-mm qtz eyes. 'Ghost' plag. Most replacement chl possible weak preferential orientation of mfaics (?) Tr. Py	Porphyry
YTG_2013_ARB_0062	-	-	Outcrop	589858.77	6865758.36	Qtz-musc schist with wide qtz bands up to 20cm Foliation 298/57 Locally tightly folded.	Schist
YTG_2013_ARB_0063	2324563	Outcrop Grab	Outcrop	61.913915	-139.290082	Weakly foliated crystalline (igneous) rock, diorite to (Tonaltite?) fresh black bt. Tr. Py and musc.	Diorite
YTG_2013_ARB_0064	-	-	Float	589826.00	6865790.00	Schist (qtz-musc)	Schist
YTG_2013_ARB_0066	-	-	Outcrop	589747.00	6865679.00	Snowcap Schist Foliation(290/64)	Schist
YTG_2013_ARB_0067	-	-	Outcrop	589728.00	6865734.00	Snowcap schist Foliation 298/45	Schist
YTG_2013_ARB_0068	-	-	Contact	589727.00	6865733.00	Contact between Snowcap schist and silicified diorite	Schist/Diorite
YTG_2013_ARB_0069	2324564	Outcrop Composite	Outcrop	61.913555	-139.2916	Silicified diorite (mod Sil) Weak preferential orientation of mafics? Tr. Diss py. Foliation Simpson orthogneiss.	Diorite
YTG_2013_ARB_0070	-	-	Outcrop	589051.97	6863700.51	Crystalline white to grey weakly foliated marble. Outcrop is well rounded due to weathering of carb. Foliation (076/75)?	Marble
YTG_2013_ARB_0071	-	-	Outcrop	589071.73	6863676.10	Strongly foliated qtz-bt schist (Snowcap) (278/80)	Schist
YTG_2013_ARB_0072	-	-	Float	588924.27	6863696.90	Biotite rich fine grained diorite, fresh. Float rocks. Weak preferential orientation of micas, surrounding ridge top rock is Snowcap schist.(Simpson Orthogneiss)	Diorite
YTG_2013_ARB_0073	-	-	Float	589144.95	6863910.75	As ARB074	Porphyry
YTG_2013_ARB_0074	2324565	Float Composite	Float	589144.95	6863910.75	Light green/grey igneous rock, feldspar porphyry? Mod. Weathered giving zones of orange stain (pervasive) and making feldspar orange. Plag up to 2mm, 3mm avg. No sulphides observed. Rock cleaves preferentially. (Foliated?) Green colour pervasive chlorite (?)	Porphyry
YTG_2013_ARB_0075	-	-	Outcrop	589128.92	6864154.18	Foliation 284/78 Snowcap schist (dominantly qtz-bt) Strong foliation	Schist
YTG_2013_ARB_0076	-	-	Subcrop	589487.74	6863837.05	Snowcap qtz-bt schist	Schist
YTG_2013_ARB_0077	-	-	Float	589837.58	6863827.98	Snowcap qtz-bt schist (strongly foliated) metased.	Schist
YTG_2013_ARB_0078	-	-	Float	589972.33	6863832.33	Float pile with up to 4 different rocks types. A)Dominant rock type. Snowcap Metased (qtz-mica schist) B) Orthogneiss (?) Moderately foliated igneous rock -->granodiorite B+W (Simpson) C) very weakly foliated biotite diorite(fresh) (Simpson) D) Very weakly foliated (?) felsic P-phyric porphyry (?) to diorite. Bleached weathered.	Orthogneiss
YTG_2013_ARB_0079	-	-	Float	590106.29	6863844.95	Slabby' micaceous quartzite (Psammite?) Snowcap	Quartzite
YTG_2013_ARB_0080	2324566	Float Grab	Float	590175.66	6863683.68	Light green-grey plag-phyric porphyry? Rocks appear to cleave preferentially Foliation? Grain boundaries fuzzy, matrix is fine grained ot aphanitic. Tr. PY, rock has bleached appearance, white to orange on weathered surface. Surrounding float and subcrop is schist (Snowcap)	Porphyry
YTG_2013_ARB_0081	-	-	Subcrop	590108.94	6863542.32	Snowcap qtz-musc schist. Ridge top varies from micaceous schist to slabby psammite/quartzite?	Schist
YTG_2013_ARB_0082	-	-	Outcrop	590152.43	6863482.92	Snowcap schist (qtz-bt schist) foliation 276/80 'strong'	Schist
YTG_2013_ARB_0083	-	-	Outcrop	590273.52	6863460.49	Snowcap schist (qtz-bt schist to micaceous quartzite) strong foliation 315/48	Schist
YTG_2013_ARB_0084	2324567	Float Grab	Float	590715.00	6863380.26	Float rocks (within Snowcap schist on ridge) consisting of brecciated quartzite (?) Clast are med grey, qtz rich, angular (clast supported) cut by vuggy stockwork qtz and qtz-cal veins. Rusty fractures and cavities (limonite), but no fresh sulphides observed.	Quartzite
YTG_2013_ARB_0085	2324568	Subcrop Grab	Subcrop	591015.99	6863305.49	Qtz-bt schist (Snowcap) with 1% pyrite diss. In mafic bt rich laminations	Schist

**Bear: Geology Station Rock Descriptions**

YTG 2013 ARB 0086	2324569	Float Grab	Float	61.891495	-139.266668	Coarse grained equigranular granite (one boulder on schist ridge, glacial?) Moderate to strong weathering orange colour. Some qtz grains look round (eyes?) dominately interlocking.	Granite
YTG 2013 ARB 0087	-	-	Subcrop	591288.00	6863190.00	Snowcap (qtz-bt schist)	Schist
YTG 2013 ARB 0088	-	-	Float	591455.39	6863424.95	Snowcap (qtz-bt schist)	Schist
YTG 2013 ARB 0089	-	-	Outcrop	591454.98	6863592.06	Snowcap (qtz-bt schist)	Schist
YTG 2013 ARB 0090	-	-	Outcrop	591415.82	6863646.11	Snowcap (qtz-bt schist) 284/76 foliation strong	Schist
YTG 2013 ARB 0091	-	-	Float	591418.97	6863706.56	Massive marble float rock. Coarse crystalline orange weathered surface, white to grey fresh.	Marble
YTG 2013 ARB 0092	-	-	Subcrop	591390.32	6863868.53	Snowcap (qtz-bt schist)	Schist
YTG 2013 ARB 0093	2324572	Float Grab	Float	61.896469	-139.260926	Brecciated schist float rock (as ARB 084) Vuggy qtz stockwork. Limonite fractures, no sulphides observed. One boulder observed, nearby schist. Angular clasts, clast supported.	Schist
YTG 2013 ARB 0094	2324573	Outcrop Grab	Outcrop	61.905985	-139.269737	Hornblende-plag med. Grey andesite, large euhedral hornblende crystals up to 20mm, 4mm average. Euhedral plag up to 2mm. Fresh rusty cavities. Weak chl after hbl. Radiating Hornblende phenos	Andesite
YTG 2013 ARB 0095	-	-	Float	590869.00	6864952.00	Float. Snowcap Schist	Schist
YTG 2013 ARB 0103	2324574	Float Grab	Float	61.905827	-139.258564	-	Schist
YTG 2013 ARB 0104	-	-	-	591195.38	6864998.47	-	Schist
YTG 2013 ARB 0105	-	-	-	591078.06	6864915.19	-	Schist
YTG 2013 ARB 0106	-	-	-	590910.53	6864916.27	-	Schist
YTG 2013 ARB 0107	-	-	Float	590815.36	6864977.78	Snowcap (qtz-bt schist)	Schist
YTG 2013 ARB 0108	2324575	Float Grab	Float	61.906247	-139.271599	Med. Grey/green hornblende-plag phyruc andesite. Chl after hbl, 'ghost' plag phenos. Hbl phenos up to 20% 5mm long crystals euhedral. Felsic inclusions (qtz-feldspar) ranging in size from 3mm to 7mm - lens shaped	Andesite
YTG 2013 ARB 0109	-	-	Outcrop	590648.11	6864809.54	Weakly foliated igneous rock (orthogneiss) Simpson Suite. Protolith med. Grained granite (?) Rich in micas (musc). No sulphides observed.	Orthogneiss
YTG 2013 ARB 0110	-	-	Outcrop	590620.46	6864935.82	Snowcap (qtz-bt schist) Foliation @ 302/44	Schist
YTG 2013 ARB 0111	2324576	Outcrop Grab	Outcrop	61.906702	-139.276073	Hornblende phyruc Andesite (same as ARB108) Weak chl after hbl. No sulphides observed. Rounded cavities (vesicles?) up to 5% 10 mm. Possible volcanic porphyry. Magnetic.	Andesite
YTG 2013 ARB 0112	-	-	Outcrop	589712.08	6865776.66	Fine grained mica schist. (Igneous protolith-> microgranite?) Simpson/orthogneiss? Moderately foliated	Orthogneiss
YTG 2013 ARB 0113	-	-	Outcrop	589660.88	6865779.32	Strongly foliated amphibolitic-gneiss (Snowcap) Bands of med. Grained crystalline amphibolite within qtz-mica schist.	Gneiss
YTG 2013 ARB 0114	-	-	Outcrop	589605.03	6865762.83	Weakly foliated S+P diorite ('orthogneiss' -> Simpson) No sulphides observed	Orthogneiss
YTG 2013 ARB 0115	-	-	Outcrop	589549.50	6865708.34	Snowcap (qtz-musc schist)	Schist
YTG 2013 ARB 0116	-	-	Outcrop	589450.09	6865731.01	Snowcap (qtz-musc schist) Foliation 292/64	Schist
YTG 2013 ARB 0117	-	-	Outcrop	589493.53	6865767.10	Snowcap (qtz-bt schist)	Schist
YTG 2013 ARB 0118	-	-	Outcrop	589442.39	6865852.45	Snowcap (qtz-bt->qtz-musc schist) Ridge also has various rounded glacial erratics	Schist
YTG 2013 ARB 0119	-	-	Outcrop	589371.57	6865746.15	Calcareous qtz-musc schist, cross-cut (across foliation) by stockwork white carbonate veinlets <1mm wide	Schist
YTG 2013 ARB 0120	-	-	Outcrop	589353.35	6865646.89	Snowcap (qtz-musc schist) Foliation 278/68 strong foliation	Schist
YTG 2013 ARB 0121	-	-	Outcrop	589295.14	6865613.90	Snowcap (qtz-bt -> qtz-musc schist) Strong foliation	Schist
YTG 2013 ARB 0122	-	-	Outcrop	588999.32	6865510.71	Snowcap (qtz-musc schist)	Schist
YTG 2013 ARB 0123	-	-	Outcrop	588675.30	6865482.04	Snowcap (qtz-bt schist -> qtz-musc schist) strong foliation 268/68	Schist
YTG 2013 ARB 0124	-	-	Outcrop	588646.96	6865523.49	Snowcap (qtz-bt schist)	Schist
YTG 2013 ARB 0125	-	-	Outcrop	590722.28	6865986.25	Simpson orthogneiss. Weakly foliated microgranite (?)	Orthogneiss
YTG 2013 ARB 0126	-	-	Float	590804.77	6866032.16	Qtz-musc-bt orthogneiss, moderately foliated (Simpson)	Orthogneiss
YTG 2013 ARB 0127	2324577	Subcrop Grab	Subcrop	61.916696	-139.272404	'Crowded' Feldspar porphyry, plag+bt. Relatively fresh with fine grained grey matrix. Euhedral plag up to 3mm, 2mm avg. Euhedral bt up to 2mm Tr. Diss. Py	Porphyry
YTG 2013 ARB 0128	-	-	Outcrop	590695.34	6866202.53	Simpson Orthogneiss, weakly foliated 'microgranite'	Orthogneiss
YTG 2013 ECL 0025	2324614	Subcrop Grab	Subcrop	61.908014	-139.258687	vuggy qtz vein with rusty boxwork, moderate green/yellowish selective cly alteration, no visible sulphides, mod lim after pyr?, see photo	Quartz Vein
YTG 2013 ECL 0026	-	-	Subcrop	590779.7583	6865321.553	green crowded plg-hbl porphyry, nil alteration, pitted weathering surface	Porphyry
YTG 2013 ECL 0027	-	-	Float	590833	6865458	banded mafic qtz-bio schist	Schist
YTG 2013 ECL 0028	-	-	Float	590853.0991	6865526.104	large sub rounded boulder, hbl-bio granodiorite, nil alteration (see photo)	Granodiorite
YTG 2013 ECL 0030	2324615	Float Grab	Float	61.91364	-139.271783	mixed float pile of plg-hbl porphyry and mafic banded quartzite schist, quartz banding of variable thickness (pitch and swell), rusty weathering, 3% diss pyr in both rock types, seem to be at or near contact, schist sample	Porphyry
YTG 2013 ECL 0031	-	-	Float	590723	6865789	medium grained hbl-bio diorite float pile, no visible sulphides, nil alteration	Diorite
YTG 2013 ECL 0032	-	-	Outcrop	590683	6865870	Simpson Range plutonic suite? qtz-bio schist with abundant plg porphyroblasts, thick qtz bands up to 2cm (photo), weathering pinkish-red	Orthogneiss
YTG 2013 ECL 0033	-	-	Float	590629	6865852	float pile of plg-hbl porphyry only a few rocks, nil alteration	Porphyry
YTG 2013 ECL 0034	-	-	Float	590665	6865875	photo of coarse grained felsic granodiorite, well rounded, only one rock within surrounding schist	Granodiorite

APPENDIX IV

ROCK PHYSICAL PROPERTY DATA

**Bear: Rock Physical Property Data**

Geology Station	Easting (UTM NAD 83 Zone 7)	Northing (UTM NAD83 Zone 7)	MagSus_ Average	MagSus_ StDev	Specific Gravity (g/cm3)	Rho (Ohm*m)	M	Au_ppm	Au_1F04 ACME_ppb	Ag_ppm	Pb_ppm	Lithology
YTG_2013_ARB_008	592507.00	6865135.00	16.204	1.341614699	1.090	3721.362	4.485	-	-	-	-	diorite
YTG_2013_ARB_009	592531.00	6865231.00	7.1296	0.601040598	1.092	4976.673	7.713	-	-	-	-	diorite
YTG_2013_ARB_023	592235.26	6864913.94	0.1282	0.018633304	1.170	1871.371	3.223	-	-	-	-	diorite
YTG_2013_ARB_030	591956.54	6864598.01	2.4328	0.141124767	1.062	4682.556	22.917	-	-	-	-	diorite
YTG_2013_ARB_044	591481.52	6864689.04	15.33	1.795624311	1.133	4926.781	6.049	-	-	-	-	porphyry
YTG_2013_ARB_046a	591438.97	6864877.24	0.0962	0.026677706	1.384	3634.164	6.776	0.008	4.7	1.264	44.42	porphyry
YTG_2013_ARB_046b	591438.97	6864877.24	0.1862	0.216799908	-6.085	5265.454	12.677	-	-	-	-	porphyry
YTG_2013_ARB_046c	591438.97	6864877.24	0.1268	0.040653413	1.472	1650.528	9.244	-	-	-	-	porphyry
YTG_2013_ARB_048a	579642.00	6874877.00	20.662	7.25270777	1.541	615.758	17.454	-	-	-	-	granodiorite
YTG_2013_ARB_048b	579642.00	6874877.00	2.396	0.983223525	1.696	7208.909	5.744	-	-	-	-	granodiorite
YTG_2013_ARB_049b	579882.00	6874782.00	8.1902	3.098719122	1.609	8761.697	7.221	-	-	-	-	porphyry
YTG_2013_ARB_049c	579882.00	6874782.00	2.6208	0.374380421	1.167	5659.508	4.817	-	-	-	-	porphyry
YTG_2013_ARB_051a	581106.00	6875104.00	0.0976	0.005504544	1.060	18898.79	4.631	-	-	-	-	diorite
YTG_2013_ARB_051b	581106.00	6875104.00	0.148	0.020037465	1.157	348.222	38.044	-	-	-	-	diorite
YTG_2013_ARB_051c	581106.00	6875104.00	0.102	0.029883106	1.414	7784.912	2.627	-	-	-	-	diorite
YTG_2013_ARB_052	581073.00	6875234.00	0.2064	0.032592944	1.188	41261.81	11.189	-	-	-	-	diorite
YTG_2013_ARB_053	590723.50	6865786.90	0.3664	0.018729656	1.054	5073.442	8.702	0.005	0.2	0.077	4.87	diorite
YTG_2013_ARB_054	590612.33	6865858.19	5.4832	1.03764864	1.233	3783.238	5.816	0.005	0.3	0.04	13.41	diorite
YTG_2013_ARB_055	590493.49	6866000.35	0.1074	0.02429609	1.292	4443.278	5.355	-	-	-	-	schist
YTG_2013_ARB_059	590470.97	6865765.05	10.4902	1.278174558	1.139	11542.69	6.675	0.005	0.2	0.035	3.93	porphyry
YTG_2013_ARB_061	589899.01	6865741.49	0.4738	0.081355393	1.207	1306.659	5.147	0.005	0.2	0.048	6.19	porphyry
YTG_2013_ARB_063a	589806.02	6865772.66	0.8784	0.216937318	1.328	3293	7.593	0.005	0.2	0.016	9.05	diorite
YTG_2013_ARB_063b	589806.02	6865772.66	0.1526	0.028165582	1.226	1948.183	8.431	-	-	-	-	diorite
YTG_2013_ARB_072	588924.27	6863696.90	0.0686	0.024460172	1.554	4685.419	9.703	-	-	-	-	diorite
YTG_2013_ARB_074	589144.95	6863910.75	0.0902	0.040714862	1.823	3588.652	4.023	0.005	0.2	0.021	12.96	porphyry
YTG_2013_ARB_078a	589972.33	6863832.33	0.0826	0.025185313	1.439	3313.176	4.006	-	-	-	-	schist
YTG_2013_ARB_078b	589972.33	6863832.33	0.1794	0.015026643	1.091	4565.536	5.434	-	-	-	-	schist
YTG_2013_ARB_078c	589972.33	6863832.33	0.2044	0.015339492	1.081	7500.243	9.862	-	-	-	-	schist
YTG_2013_ARB_079	590106.29	6863844.95	0.03598	0.02623551	3.692	8473.004	6.793	-	-	-	-	quartzite
YTG_2013_ARB_080	590175.66	6863683.68	0.085	0.016309506	1.237	2874.676	7.319	0.005	0.2	0.027	17.72	porphyry
YTG_2013_ARB_084	590715.00	6863380.26	0.023	0.015604487	3.110	3936.92	10.538	0.005	1.1	0.261	1.26	breccia
YTG_2013_ARB_085	591015.99	6863305.49	0.0326	0.025812788	4.803	15763.26	32.866	0.005	1.4	0.856	6.83	schist
YTG_2013_ARB_086	591102.24	6863308.33	0.051	0.013247641	1.351	5078.816	6.589	0.005	0.2	0.022	6.03	granite
YTG_2013_ARB_094	590897.94	6864917.76	29.024	1.017167636	1.036	3041.572	6.495	0.005	0.2	0.043	2.35	porphyry
YTG_2013_ARB_096	581094.00	6875212.00	0.1638	0.01884675	1.130	6537.689	5.4	-	-	-	-	diorite
YTG_2013_ARB_097a	581011.00	6875194.00	0.0932	0.024651572	1.360	3117.057	6.544	-	-	-	-	diorite
YTG_2013_ARB_097b	581011.00	6875194.00	0.0906	0.027473624	1.435	10093.91	4.587	-	-	-	-	diorite
YTG_2013_ARB_098	581097.00	6875209.00	0.2024	0.019449936	1.106	1860.876	4.177	-	-	-	-	diorite
YTG_2013_ARB_099	581099.00	6875205.00	0.145	0.013435029	1.102	11684.79	3.827	-	-	-	-	diorite
YTG_2013_ARB_100	581090.00	6875225.00	0.2056	0.007893035	1.040	5362.727	7.154	-	-	-	-	diorite
YTG_2013_ARB_101	543695.00	6880771.00	1.332	0.138351003	1.116	14491.73	7.286	-	-	-	-	granodiorite
YTG_2013_ARB_102	543711.00	6880630.00	0.1792	0.013863621	1.084	5228.167	9.651	-	-	-	-	porphyry
YTG_2013_ARB_103	591485.26	6864915.85	0.0804	0.021466253	1.364	4656.566	12.104	0.039	15.7	4.351	78.38	schist
YTG_2013_ARB_111	590563.04	6864988.74	14.158	0.445668038	1.033	3008.762	12.548	0.005	0.2	0.036	3.52	porphyry
YTG_2013_ARB_113	589660.88	6865779.32	0.2024	0.015026643	1.080	9314.93	9.052	-	-	-	-	gniss
YTG_2013_ARB_124	588646.96	6865523.49	0.3426	0.047363488	1.160	5749.793	8.097	-	-	-	-	schist
YTG_2013_ARB_125	590722.28	6865986.25	17.432	0.963908709	1.059	12812.9	9.76	-	-	-	-	gniss
YTG_2013_ECL_004	580586.00	6873899.09	0.1512	0.00920326	1.065	4614.319	4.928	-	-	-	-	quartzite
YTG_2013_ECL_015	580667.00	6873890.00	0.137	0.039673669	1.408	1026.24	3.282	-	-	-	-	quartzite

APPENDIX V

SOIL GEOCHEMICAL ANALYTICAL CERTIFICATES



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** **Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Submitted By: Karen Weir and Rupa Mukherjee  
Receiving Lab: Canada-Whitehorse  
Received: July 19, 2013  
Report Date: August 07, 2013  
Page: 1 of 6

## CERTIFICATE OF ANALYSIS

WHI13000168.1

### CLIENT JOB INFORMATION

Project: 210800  
Shipment ID: YTG\_WLF\_2013\_001  
P.O. Number  
Number of Samples: 150

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

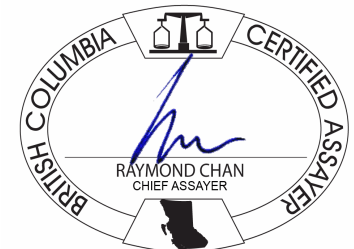
Invoice To: Teck Resources Limited  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	150	Dry at 60C			WHI
SS80	142	Dry at 60C sieve 100g to -80 mesh		Completed	WHI
RJSV	142	Saving all or part of Soil Reject			WHI
1F06	150	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
2A05	147	Loss on Ignition at 1000 C		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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 2 of 6

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	Analyte	Unit	MDL	SS80	SS80	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30		
				-80 Wt	+80 Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
				g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
1731001	Soil			95.00	630.0	1.94	55.96	15.37	65.1	364	18.5	9.6	521	2.09	80.0	1.3	19.5	1.1	44.9	0.53	1.26	0.25	52
1731002	Soil			203.0	937.0	1.72	45.45	17.75	77.7	289	24.1	10.6	435	2.49	95.0	1.2	22.7	3.1	37.0	0.34	2.25	0.28	66
1731003	Soil			101.0	504.0	0.61	23.70	3.64	28.0	68	7.0	4.1	157	1.02	4.1	0.3	1.3	0.1	19.4	0.13	0.28	0.08	21
1731004	Soil			97.00	748.0	1.43	56.02	17.09	140.1	702	26.8	12.3	563	2.77	10.7	0.9	5.8	1.0	31.5	1.58	0.90	0.25	63
1731005	Soil			87.00	514.0	2.71	36.10	11.18	88.3	136	27.5	16.3	929	3.43	11.0	0.7	2.2	0.4	31.5	0.38	0.99	0.22	79
1731006	Soil			87.00	590.0	1.39	42.23	22.52	70.4	481	23.3	10.4	318	2.83	10.0	1.0	3.7	1.0	33.0	0.30	0.99	0.18	63
1731007	Soil			76.00	883.0	5.18	83.27	17.27	127.5	299	38.8	28.2	335	3.19	33.7	2.1	9.0	0.7	31.7	0.63	1.13	0.67	46
1731008	Soil			146.0	576.0	1.41	35.50	6.12	36.3	130	15.2	10.8	339	1.82	41.3	1.0	3.5	0.5	46.7	0.13	2.33	0.14	33
1731009	Soil			49.00	507.0	0.51	16.91	2.18	12.1	94	4.3	3.1	41	0.72	5.5	0.8	4.7	0.1	14.3	0.48	0.20	0.04	16
1731010 Stream-12	Soil Pulp					9.09	68.23	12.03	86.9	371	42.0	14.9	557	3.65	11.5	1.9	34.9	3.3	107.1	0.55	0.82	0.23	74
1731011	Soil			111.0	398.0	1.66	20.04	10.34	41.4	276	16.7	5.7	190	1.69	6.6	0.5	1.8	0.9	54.3	0.27	0.51	0.13	38
1731012	Soil			119.0	414.0	1.44	40.17	11.35	42.3	273	17.1	8.9	303	2.14	7.6	0.9	26.9	1.3	15.4	0.36	0.51	0.14	47
1731013	Soil			122.0	412.0	0.60	18.09	3.96	29.2	129	7.6	4.1	212	0.86	2.3	0.4	1.0	0.1	23.3	0.22	0.21	0.07	18
1731014	Soil			83.00	463.0	0.46	13.51	3.73	17.9	53	4.8	2.3	92	0.64	1.8	0.3	0.5	<0.1	13.7	0.11	0.17	0.05	13
1731015	Soil			33.00	401.0	1.74	25.10	11.58	41.0	282	12.1	6.0	168	1.76	11.7	0.7	1.8	0.3	20.3	0.61	2.97	0.14	40
1731016	Soil			87.00	461.0	0.96	22.43	8.67	36.9	141	10.7	6.5	279	1.38	4.3	0.6	1.7	0.2	30.6	0.27	0.36	0.10	28
1731017	Soil			43.00	568.0	0.76	27.56	7.65	44.2	101	11.9	6.1	162	1.41	4.8	0.4	0.6	0.2	21.9	0.14	0.38	0.09	29
1731018	Soil			42.00	369.0	1.56	21.33	11.86	45.6	111	14.2	5.9	179	1.90	5.4	0.5	2.0	0.2	22.8	0.24	0.60	0.14	44
1731019	Soil			109.0	377.0	1.36	26.98	10.66	50.3	244	12.1	5.6	188	1.57	8.7	0.6	3.3	0.4	23.5	0.34	0.45	0.16	36
1731020	Soil			309.0	429.0	1.75	24.70	19.32	112.3	175	16.2	8.4	335	1.95	26.8	0.7	14.7	1.3	27.2	1.06	1.03	0.30	49
1731021	Soil			27.00	231.0	1.41	109.0	9.99	28.5	293	9.0	3.7	97	0.89	6.2	4.8	4.8	1.0	28.3	0.34	0.38	0.13	13
1731022	Soil			55.00	185.0	2.29	38.18	14.23	35.5	176	8.8	2.8	70	0.81	5.0	1.5	4.1	0.6	35.5	0.24	0.46	0.09	12
1731023	Soil			148.0	434.0	1.17	39.69	4.36	18.7	210	6.6	2.8	62	0.87	15.1	1.4	3.9	0.4	20.6	0.09	0.59	0.12	17
1731024	Soil			69.00	357.0	0.78	37.34	5.48	17.1	158	6.3	3.6	109	0.86	5.5	1.1	1.7	0.2	18.8	0.18	0.43	0.10	13
1731025	Soil			61.00	376.0	1.37	70.02	4.53	19.7	222	6.0	2.7	62	0.87	6.3	0.6	5.5	0.1	22.6	0.14	0.33	0.12	15
1731026	Soil			134.0	399.0	0.77	7.93	4.59	11.1	71	2.2	1.4	46	0.53	5.3	0.2	0.7	0.1	8.0	0.06	0.12	0.05	12
1731027	Soil			103.0	899.0	2.86	29.31	14.42	53.3	187	13.9	7.6	697	1.69	9.8	0.7	7.7	0.5	22.8	0.39	0.51	0.18	41
1731028	Soil			97.00	542.0	0.25	11.59	2.58	10.4	55	2.0	1.8	35	0.49	0.9	0.2	0.6	0.1	9.7	0.08	0.07	0.03	11
1731029	Soil			188.0	376.0	1.10	26.71	10.78	71.5	326	19.0	9.0	493	2.07	28.7	1.0	7.2	0.7	40.0	0.37	0.76	0.27	48
1731030	Soil Pulp					1.12	22.22	1.18	20.9	863	6.9	4.3	100	1.41	1.1	0.2	120.4	0.4	15.1	0.03	1.13	1.83	25

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.

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1731001	Soil	0.76	0.102	20.2	24.5	0.54	132.4	0.026	2	1.80	0.022	0.05	0.1	4.1	0.10	0.08	60	0.3	0.06	5.6	4.34
1731002	Soil	0.60	0.082	14.9	31.2	0.71	132.2	0.036	1	2.05	0.016	0.05	0.1	5.8	0.09	0.04	42	0.2	0.06	6.2	6.25
1731003	Soil	0.19	0.040	3.7	9.0	0.15	53.8	0.030	1	0.85	0.032	0.04	<0.1	0.7	0.04	0.04	40	0.2	<0.02	3.3	0.44
1731004	Soil	0.38	0.074	10.6	32.0	0.54	117.1	0.063	1	1.70	0.017	0.06	0.1	2.9	0.07	0.05	63	0.3	0.04	6.0	2.24
1731005	Soil	0.32	0.067	9.3	31.0	0.47	120.2	0.066	1	1.53	0.014	0.05	0.1	2.3	0.11	0.08	51	0.3	0.05	7.6	1.34
1731006	Soil	0.42	0.071	16.2	35.4	0.53	127.3	0.061	2	1.72	0.022	0.04	0.1	4.1	0.14	0.06	66	0.3	0.04	6.2	2.34
1731007	Soil	0.36	0.137	9.8	35.3	0.46	87.8	0.049	2	1.72	0.023	0.06	0.1	2.2	0.10	0.11	120	1.5	0.20	5.7	1.61
1731008	Soil	0.51	0.068	10.7	15.2	0.35	113.8	0.032	1	1.24	0.038	0.06	<0.1	2.3	0.09	0.06	44	0.4	0.04	3.7	1.95
1731009	Soil	0.14	0.037	2.8	6.2	0.08	19.8	0.025	<1	0.50	0.030	0.02	<0.1	0.7	0.03	0.04	33	0.3	<0.02	1.9	0.30
1731010	Stream-12	3.19	0.095	12.5	51.4	1.23	193.1	0.145	4	1.78	0.080	0.21	0.9	5.5	0.12	0.11	53	0.6	0.03	5.9	0.97
1731011	Soil	0.78	0.046	5.6	18.6	0.37	75.7	0.048	1	1.22	0.029	0.04	0.1	2.0	0.09	0.06	54	0.3	0.06	5.0	1.16
1731012	Soil	0.13	0.043	8.6	21.7	0.32	86.2	0.054	<1	1.55	0.025	0.04	0.1	2.2	0.07	0.03	39	0.2	0.06	5.6	1.05
1731013	Soil	0.32	0.054	3.5	8.7	0.14	62.9	0.027	1	0.60	0.037	0.04	<0.1	0.7	0.04	0.05	67	0.2	<0.02	2.7	0.58
1731014	Soil	0.17	0.045	2.5	6.8	0.10	37.4	0.023	<1	0.56	0.037	0.04	<0.1	0.6	0.02	0.04	71	0.2	<0.02	2.5	0.39
1731015	Soil	0.24	0.070	6.9	16.3	0.23	55.4	0.046	2	0.85	0.021	0.06	0.1	1.7	0.07	0.06	156	0.4	0.04	4.3	1.97
1731016	Soil	0.41	0.077	6.5	13.9	0.22	67.6	0.035	2	0.93	0.035	0.05	<0.1	1.1	0.06	0.08	168	0.3	0.03	3.6	0.64
1731017	Soil	0.25	0.060	4.8	12.7	0.24	57.2	0.046	1	1.02	0.035	0.04	<0.1	1.1	0.04	0.06	49	0.2	<0.02	4.0	0.55
1731018	Soil	0.26	0.073	6.4	18.7	0.25	60.7	0.047	2	0.79	0.022	0.05	0.1	1.4	0.07	0.09	89	0.3	0.04	4.7	0.85
1731019	Soil	0.27	0.060	6.5	19.2	0.30	68.9	0.048	1	0.95	0.029	0.04	0.1	1.8	0.07	0.05	40	0.2	<0.02	4.5	1.17
1731020	Soil	0.37	0.065	8.4	24.3	0.45	103.1	0.057	1	1.26	0.027	0.04	0.1	3.2	0.08	0.04	31	0.2	0.06	5.0	2.72
1731021	Soil	0.43	0.086	10.7	12.0	0.18	62.4	0.024	2	0.81	0.031	0.04	<0.1	1.7	0.06	0.12	70	0.4	0.04	2.5	0.91
1731022	Soil	0.57	0.094	6.9	11.3	0.13	65.6	0.023	2	0.51	0.015	0.03	<0.1	1.7	0.05	0.15	115	0.4	<0.02	1.6	0.86
1731023	Soil	0.24	0.045	5.7	10.0	0.16	46.1	0.018	<1	0.60	0.032	0.04	<0.1	1.2	0.06	0.06	46	0.3	0.03	2.4	1.55
1731024	Soil	0.23	0.064	5.5	9.2	0.13	48.5	0.019	1	0.51	0.033	0.04	<0.1	1.0	0.05	0.08	52	0.4	0.02	1.9	0.83
1731025	Soil	0.27	0.053	4.4	10.9	0.17	37.9	0.021	2	0.49	0.030	0.03	<0.1	0.9	0.07	0.07	36	0.3	0.03	2.4	1.14
1731026	Soil	0.07	0.023	1.5	5.0	0.06	20.6	0.022	<1	0.36	0.035	0.03	<0.1	0.4	0.02	0.02	53	0.2	<0.02	2.1	0.55
1731027	Soil	0.31	0.085	7.4	19.7	0.31	76.7	0.041	1	1.11	0.027	0.04	0.1	1.9	0.07	0.05	168	0.4	0.05	4.5	2.42
1731028	Soil	0.10	0.033	2.2	3.8	0.05	25.4	0.024	<1	0.60	0.042	0.03	<0.1	0.5	<0.02	0.03	20	0.1	<0.02	1.9	0.17
1731029	Soil	0.57	0.067	8.5	26.0	0.44	153.0	0.054	1	1.69	0.028	0.07	<0.1	3.3	0.09	0.05	39	0.3	0.05	5.7	2.06
1731030	Soil Pulp	0.31	0.030	3.0	6.4	0.09	12.8	0.199	<1	0.25	0.068	0.05	0.2	0.6	0.09	<0.02	<5	<0.1	<0.02	1.4	2.24

# CERTIFICATE OF ANALYSIS

WHI13000168.1

	Method Analyte Unit MDL	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1
1731001	Soil	<0.1	0.04	0.91	8.0	1.0	<0.05	1.8	14.01	41.5	0.06	<1	0.8	11.3	<10	<2	28.9
1731002	Soil	<0.1	<0.02	0.75	7.4	1.8	<0.05	1.2	8.66	32.4	0.07	<1	0.6	15.3	<10	<2	14.5
1731003	Soil	<0.1	<0.02	0.42	3.5	0.7	<0.05	1.2	1.74	8.6	<0.02	<1	0.2	3.9	<10	<2	16.4
1731004	Soil	<0.1	0.03	0.91	8.0	1.8	<0.05	1.6	6.07	25.2	0.03	<1	0.5	12.4	<10	<2	18.1
1731005	Soil	<0.1	<0.02	1.03	10.5	1.1	<0.05	1.5	4.38	20.7	0.03	<1	0.3	10.7	<10	<2	22.8
1731006	Soil	<0.1	0.05	0.99	6.1	1.6	<0.05	2.1	11.16	33.2	0.03	<1	0.7	9.9	<10	<2	21.7
1731007	Soil	<0.1	0.02	1.26	7.0	2.5	<0.05	1.6	5.24	23.6	0.03	<1	0.5	10.0	<10	<2	28.1
1731008	Soil	<0.1	<0.02	0.55	7.2	1.3	<0.05	1.0	7.12	25.1	<0.02	<1	0.4	7.2	<10	<2	15.9
1731009	Soil	<0.1	<0.02	0.34	1.6	0.6	<0.05	0.5	1.47	5.8	<0.02	<1	0.1	1.5	<10	<2	18.0
1731010 Stream-12	Soil Pulp	<0.1	0.05	0.79	10.7	2.1	<0.05	1.8	9.87	26.8	0.06	2	0.4	13.6	<10	2	7.0
1731011	Soil	<0.1	0.03	1.09	7.6	7.9	<0.05	1.8	2.50	12.7	0.03	<1	0.3	8.2	<10	<2	23.2
1731012	Soil	<0.1	0.04	1.05	5.4	5.6	<0.05	1.8	3.76	19.9	<0.02	<1	0.3	10.1	<10	<2	16.1
1731013	Soil	<0.1	<0.02	0.38	4.6	2.2	<0.05	0.6	2.18	7.9	<0.02	<1	0.1	2.6	<10	<2	19.0
1731014	Soil	<0.1	<0.02	0.34	2.5	2.6	<0.05	0.6	1.35	5.5	<0.02	<1	0.1	1.9	<10	<2	17.3
1731015	Soil	<0.1	<0.02	0.58	7.1	10.5	<0.05	0.8	2.92	15.7	0.02	<1	0.3	4.3	<10	<2	26.0
1731016	Soil	<0.1	0.02	0.65	4.5	6.4	<0.05	1.4	3.22	14.0	<0.02	<1	0.3	4.5	<10	<2	24.3
1731017	Soil	<0.1	0.03	0.64	4.2	6.4	<0.05	1.8	2.69	11.6	<0.02	<1	0.3	5.6	<10	<2	20.8
1731018	Soil	<0.1	0.03	0.74	6.4	9.2	<0.05	1.8	2.96	13.2	0.03	<1	0.2	3.9	<10	<2	I.S.
1731019	Soil	<0.1	0.03	0.83	6.2	7.5	<0.05	1.7	2.90	13.7	0.03	<1	0.2	6.5	<10	<2	19.0
1731020	Soil	<0.1	0.03	0.72	7.3	1.8	<0.05	1.7	4.51	18.1	0.03	<1	0.3	9.3	<10	<2	13.1
1731021	Soil	<0.1	<0.02	0.46	4.0	5.0	<0.05	0.8	7.18	22.9	0.03	<1	0.3	2.9	<10	<2	41.6
1731022	Soil	<0.1	<0.02	0.38	3.1	15.2	<0.05	0.4	4.74	14.7	0.02	<1	<0.1	1.2	<10	<2	63.8
1731023	Soil	<0.1	<0.02	0.43	4.2	1.6	<0.05	0.4	3.08	13.3	<0.02	<1	0.2	3.2	<10	<2	I.S.
1731024	Soil	<0.1	<0.02	0.36	3.5	3.0	<0.05	0.7	3.21	12.5	<0.02	<1	0.1	2.1	<10	<2	28.6
1731025	Soil	<0.1	<0.02	0.45	4.4	2.9	<0.05	0.7	2.08	8.9	<0.02	<1	0.1	2.4	<10	<2	25.0
1731026	Soil	<0.1	<0.02	0.30	1.6	2.9	<0.05	0.4	0.64	3.1	<0.02	<1	<0.1	0.9	<10	<2	11.3
1731027	Soil	<0.1	<0.02	0.63	6.2	10.6	<0.05	1.0	4.04	16.9	0.02	<1	0.3	7.3	<10	<2	18.8
1731028	Soil	<0.1	<0.02	0.30	1.4	1.6	<0.05	0.6	1.09	5.2	<0.02	<1	0.1	0.9	<10	<2	11.8
1731029	Soil	<0.1	0.03	0.93	9.3	1.7	<0.05	1.9	5.88	19.1	0.03	<1	0.4	11.3	<10	<2	18.1
1731030	Soil Pulp	<0.1	0.31	0.22	10.6	0.2	<0.05	13.4	7.28	7.8	<0.02	<1	0.1	5.8	<10	<2	0.3



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client:** Teck Resources Limited  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

**Project:** 210800  
**Report Date:** August 07, 2013

**Page:** 3 of 6

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	SS80	SS80	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	-80 Wt	+80 Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
1731031	Soil	140.0	568.0	1.15	14.35	10.71	29.9	112	8.4	4.3	134	1.63	11.0	0.3	2.8	0.9	9.4	0.22	0.47	0.13	40
1731032	Soil	200.0	616.0	1.37	33.70	12.42	58.5	236	17.1	7.8	258	1.96	24.4	0.7	5.2	1.2	21.3	0.36	0.61	0.28	47
1731033	Soil	82.00	345.0	0.95	30.87	18.89	92.4	365	18.2	8.7	448	2.22	68.7	1.2	28.9	1.2	45.8	0.96	1.35	0.49	47
1731034	Soil	141.0	299.0	0.72	388.2	36.90	269.1	1344	22.1	7.3	295	2.05	63.8	9.1	35.1	5.6	83.0	3.00	1.70	0.92	46
1731035	Soil	168.0	564.0	1.15	22.46	8.99	47.1	165	17.2	8.1	282	2.06	10.7	1.1	5.0	1.7	52.8	0.16	0.46	0.22	51
1731036	Soil	113.0	400.0	1.50	30.00	8.49	55.9	226	18.9	9.5	433	2.09	16.2	0.9	4.0	0.9	33.7	0.38	0.58	0.19	48
1731037	Soil	125.0	656.0	1.41	24.01	11.56	62.1	208	23.4	10.5	394	3.01	31.1	0.5	4.4	1.4	25.5	0.15	0.95	0.24	65
1731038	Soil	254.0	515.0	2.45	22.97	9.55	54.8	108	18.4	7.6	235	3.12	10.8	0.5	6.8	1.6	21.5	0.11	0.82	0.21	74
1731039	Soil	121.0	593.0	1.31	26.19	12.47	48.3	132	23.2	9.4	392	2.42	9.1	0.6	3.6	0.9	23.7	0.32	0.72	0.17	52
1731040	Soil	400.0	464.0	0.81	27.56	8.77	66.9	184	15.9	7.7	322	2.14	25.0	0.7	7.2	1.6	22.0	0.30	3.00	0.35	52
1731041	Soil	110.0	476.0	1.86	16.40	9.15	41.3	171	10.7	7.2	278	2.62	13.1	0.4	3.8	1.1	14.1	0.38	0.75	0.20	63
1731042	Soil	118.0	529.0	0.59	13.57	4.98	25.5	141	6.3	3.6	103	1.02	9.9	0.3	3.4	0.6	11.6	0.33	0.52	0.15	25
1731043	Soil	109.0	493.0	0.78	18.13	5.15	20.6	216	7.5	3.1	86	1.31	6.0	0.4	2.0	0.3	13.4	0.26	0.35	0.12	31
1731044	Soil	81.00	428.0	0.95	23.66	12.20	79.8	387	16.9	8.7	470	2.05	43.7	0.7	10.5	0.6	40.7	0.60	1.03	0.34	44
1731045	Soil	208.0	534.0	1.01	21.63	8.84	42.4	107	13.4	7.4	341	1.84	11.8	0.5	2.5	0.8	20.6	0.29	0.75	0.16	42
1731046	Soil	162.0	572.0	0.20	7.02	2.29	7.7	31	2.3	2.4	77	0.47	1.7	0.2	1.4	0.3	10.1	0.05	0.10	0.04	10
1731047	Soil	120.0	536.0	0.47	12.75	4.17	25.1	154	6.7	3.5	123	0.96	4.7	0.4	1.8	0.3	16.1	0.58	0.22	0.07	22
1731048	Soil	212.0	406.0	0.99	24.87	8.97	51.1	192	17.0	7.2	249	1.89	15.5	0.6	5.2	0.6	29.9	0.42	0.56	0.15	44
1731049	Soil	72.00	462.0	0.86	25.64	9.70	73.7	202	18.5	9.3	523	1.94	17.0	1.0	5.1	0.6	45.8	0.67	0.58	0.17	41
1731050 Stream-12	Soil Pulp			8.76	65.15	11.15	83.7	333	40.0	14.1	523	3.56	11.1	1.8	33.3	3.2	101.0	0.55	0.92	0.22	69
1731051	Soil	126.0	631.0	1.26	16.49	7.51	38.3	125	14.3	8.4	304	2.18	8.2	0.8	3.7	2.0	14.8	0.23	0.50	0.14	46
1731052	Soil	260.0	606.0	1.17	25.14	8.19	40.0	113	16.4	8.1	366	1.89	7.2	0.8	2.4	0.8	33.0	0.16	0.40	0.15	46
1731053	Soil	270.0	432.0	0.70	16.31	4.17	24.7	57	10.5	4.3	104	1.27	10.3	0.5	2.1	0.8	16.4	0.08	0.27	0.10	31
1731054	Soil	360.0	327.0	1.61	52.44	10.26	76.4	118	26.0	15.1	750	3.22	11.7	0.7	2.4	1.5	23.3	0.36	0.73	0.18	73
1731055	Soil	162.0	604.0	0.99	23.15	8.34	50.5	99	19.1	9.9	409	2.14	9.3	0.7	3.2	1.4	26.1	0.26	0.47	0.18	51
1731056	Soil	115.0	530.0	0.83	11.79	5.29	23.7	64	7.0	4.5	122	1.10	4.9	0.3	1.4	0.6	13.1	0.13	0.27	0.10	26
1731057	Soil	74.00	575.0	1.23	13.24	8.29	33.6	94	11.6	7.4	284	1.82	7.8	0.4	1.8	1.1	17.8	0.26	0.39	0.15	46
1731058	Soil	95.00	502.0	0.75	18.10	6.02	35.6	108	13.6	5.0	162	1.54	6.0	0.5	1.4	1.0	21.1	0.24	0.36	0.14	35
1731059	Soil	233.0	631.0	0.56	13.65	2.72	15.6	114	7.1	4.7	311	0.91	4.0	0.9	2.1	0.3	20.1	0.06	0.23	0.07	20
1731060	Soil	44.00	723.0	2.33	27.77	10.30	54.5	98	19.9	9.5	258	3.20	13.2	0.5	5.5	1.8	19.8	0.13	1.04	0.22	82



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 3 of 6

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1731031	Soil	0.08	0.031	4.7	14.7	0.19	37.6	0.058	1	1.03	0.024	0.04	0.1	1.4	0.06	<0.02	30	0.2	0.04	5.2	0.93
1731032	Soil	0.21	0.040	9.9	23.2	0.34	114.7	0.061	1	1.44	0.029	0.04	0.1	2.5	0.08	0.02	27	0.2	0.04	5.7	1.88
1731033	Soil	0.70	0.058	11.5	26.6	0.46	190.0	0.046	2	1.90	0.025	0.07	0.1	4.3	0.13	0.04	56	0.2	0.11	5.5	3.44
1731034	Soil	1.40	0.083	55.0	24.7	0.48	147.9	0.024	3	2.18	0.031	0.09	<0.1	12.0	0.18	0.05	84	0.2	0.27	4.3	31.37
1731035	Soil	0.56	0.034	9.5	25.1	0.50	202.8	0.068	3	1.71	0.030	0.06	0.1	3.4	0.09	0.03	28	0.2	0.05	5.8	1.44
1731036	Soil	0.46	0.058	11.3	24.4	0.43	165.1	0.052	2	1.70	0.025	0.07	0.1	3.5	0.09	0.05	38	0.2	0.02	5.3	2.19
1731037	Soil	0.31	0.041	10.1	31.9	0.58	165.0	0.076	2	1.85	0.016	0.07	0.1	3.1	0.10	0.03	25	0.3	0.06	6.7	3.18
1731038	Soil	0.19	0.026	9.0	29.2	0.45	150.4	0.079	2	1.57	0.016	0.04	0.1	2.8	0.12	<0.02	25	0.2	0.06	8.2	1.52
1731039	Soil	0.28	0.061	11.6	25.1	0.44	183.7	0.061	2	1.55	0.021	0.06	0.1	2.7	0.09	0.05	40	0.3	0.04	5.0	1.44
1731040	Soil	0.28	0.060	9.8	25.8	0.47	92.8	0.077	1	1.47	0.023	0.05	0.1	2.9	0.07	0.02	19	0.2	0.10	4.8	2.02
1731041	Soil	0.12	0.038	6.4	20.3	0.24	59.2	0.079	1	1.18	0.020	0.04	0.1	1.8	0.08	0.02	31	0.2	0.06	7.3	1.47
1731042	Soil	0.09	0.024	4.1	10.3	0.16	41.1	0.038	1	0.83	0.032	0.04	<0.1	1.2	0.04	<0.02	23	0.2	0.04	3.0	1.11
1731043	Soil	0.12	0.034	4.7	12.8	0.15	55.8	0.041	<1	0.83	0.024	0.04	<0.1	1.2	0.06	0.03	26	0.2	0.02	3.7	0.70
1731044	Soil	0.46	0.077	10.2	25.2	0.45	201.6	0.049	2	1.74	0.027	0.06	<0.1	3.2	0.10	0.06	39	0.2	0.05	5.5	3.10
1731045	Soil	0.19	0.052	6.2	19.4	0.30	91.0	0.055	1	1.45	0.031	0.04	<0.1	2.1	0.08	0.03	24	0.2	0.07	4.7	1.21
1731046	Soil	0.07	0.022	2.1	4.3	0.06	28.0	0.022	<1	0.60	0.038	0.03	<0.1	0.5	<0.02	<0.02	16	<0.1	<0.02	1.8	0.22
1731047	Soil	0.14	0.025	4.8	9.5	0.16	52.2	0.038	1	0.73	0.034	0.04	<0.1	1.1	0.04	<0.02	16	0.1	<0.02	3.0	0.65
1731048	Soil	0.43	0.051	8.3	22.5	0.37	139.2	0.056	1	1.47	0.028	0.06	<0.1	2.6	0.08	0.03	30	0.2	0.03	5.1	1.71
1731049	Soil	0.59	0.076	13.7	24.1	0.42	236.2	0.050	2	1.75	0.028	0.07	<0.1	3.7	0.10	0.06	37	0.2	0.04	4.9	1.63
1731050 Stream-12	Soil Pulp	3.02	0.087	12.5	48.6	1.12	185.4	0.145	4	1.68	0.078	0.20	0.9	5.2	0.12	0.10	51	0.5	0.05	5.6	0.97
1731051	Soil	0.14	0.033	8.3	22.4	0.32	93.0	0.076	2	1.74	0.029	0.06	0.1	2.9	0.07	<0.02	25	0.3	0.04	5.5	1.30
1731052	Soil	0.44	0.050	9.6	23.2	0.37	153.2	0.063	2	1.52	0.031	0.06	<0.1	2.9	0.08	0.04	29	0.2	0.03	5.1	1.05
1731053	Soil	0.15	0.026	5.9	15.8	0.25	88.2	0.050	1	1.10	0.031	0.04	<0.1	1.9	0.06	<0.02	19	0.1	0.03	4.1	0.81
1731054	Soil	0.25	0.046	10.5	34.1	0.50	141.3	0.087	2	2.07	0.025	0.06	<0.1	3.4	0.11	<0.02	21	0.2	0.03	7.6	1.72
1731055	Soil	0.32	0.046	9.7	24.4	0.43	144.5	0.068	2	1.62	0.028	0.07	0.1	3.3	0.08	0.03	23	<0.1	0.03	5.1	1.68
1731056	Soil	0.10	0.028	4.0	11.1	0.15	47.7	0.039	<1	0.84	0.029	0.04	<0.1	1.2	0.05	0.02	23	0.1	0.03	3.7	0.74
1731057	Soil	0.19	0.028	6.1	19.5	0.29	86.1	0.066	1	1.08	0.027	0.05	0.1	2.0	0.08	<0.02	32	<0.1	<0.02	5.4	1.15
1731058	Soil	0.25	0.034	6.8	17.6	0.31	100.3	0.060	1	1.13	0.029	0.05	<0.1	2.0	0.07	0.02	25	0.1	0.04	4.5	1.21
1731059	Soil	0.23	0.048	5.8	11.8	0.18	98.6	0.030	1	0.72	0.039	0.04	<0.1	1.7	0.04	0.04	20	0.2	<0.02	2.4	0.58
1731060	Soil	0.19	0.024	9.6	28.0	0.37	112.3	0.094	1	1.85	0.019	0.04	<0.1	2.8	0.13	<0.02	22	0.2	0.05	9.1	1.55

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 3 of 6

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1731031	Soil	<0.1	0.04	0.91	5.7	7.4	<0.05	2.1	1.74	10.3	0.02	<1	0.2	6.7	<10	<2	12.9
1731032	Soil	<0.1	0.04	1.15	8.5	4.1	<0.05	2.2	4.49	22.1	0.02	<1	0.4	10.1	<10	<2	12.4
1731033	Soil	<0.1	0.04	0.99	8.9	2.9	<0.05	2.0	8.92	25.4	0.04	<1	0.4	12.3	<10	<2	23.6
1731034	Soil	<0.1	0.06	0.90	8.1	1.6	<0.05	4.4	99.86	68.1	0.07	<1	1.7	22.5	<10	<2	23.9
1731035	Soil	<0.1	0.04	1.06	7.6	1.1	<0.05	2.3	5.66	20.4	0.02	<1	0.5	11.4	<10	<2	15.1
1731036	Soil	<0.1	0.02	0.91	8.4	3.6	<0.05	1.3	7.30	25.0	0.02	<1	0.5	10.7	<10	<2	20.0
1731037	Soil	<0.1	0.02	1.04	14.0	4.6	<0.05	1.5	5.29	22.4	0.04	<1	0.6	13.8	<10	<2	14.8
1731038	Soil	<0.1	0.03	1.04	9.7	1.8	<0.05	2.3	3.31	19.6	0.03	<1	0.3	13.9	<10	<2	10.3
1731039	Soil	<0.1	0.03	0.98	9.3	7.6	<0.05	1.4	6.53	30.0	0.03	<1	0.5	8.8	<10	<2	20.1
1731040	Soil	<0.1	0.03	0.70	6.6	1.3	<0.05	1.5	4.95	21.4	0.03	<1	0.4	9.7	<10	<2	9.6
1731041	Soil	<0.1	0.04	1.07	7.3	1.6	<0.05	2.4	2.23	13.6	0.03	<1	0.3	11.0	<10	<2	14.5
1731042	Soil	<0.1	<0.02	0.46	4.1	0.7	<0.05	1.0	1.85	9.2	<0.02	<1	0.2	4.6	<10	<2	10.8
1731043	Soil	<0.1	<0.02	0.66	3.8	1.1	<0.05	0.9	1.71	9.9	<0.02	<1	0.1	4.4	<10	<2	16.2
1731044	Soil	<0.1	<0.02	0.84	10.0	1.4	<0.05	1.3	6.82	21.4	0.02	<1	0.4	10.8	<10	<2	20.6
1731045	Soil	<0.1	<0.02	0.67	6.5	0.8	<0.05	0.9	2.80	14.8	<0.02	<1	0.3	8.7	<10	<2	11.9
1731046	Soil	<0.1	<0.02	0.28	1.8	1.0	<0.05	0.5	0.99	4.8	<0.02	<1	<0.1	1.6	<10	<2	8.5
1731047	Soil	<0.1	<0.02	0.45	5.1	1.8	<0.05	0.7	2.43	10.2	<0.02	<1	0.2	3.8	<10	<2	11.3
1731048	Soil	<0.1	<0.02	0.81	8.0	1.6	<0.05	1.0	5.17	18.1	<0.02	<1	0.4	9.9	<10	<2	15.3
1731049	Soil	<0.1	0.03	0.81	10.5	3.1	<0.05	1.6	11.12	29.8	0.03	<1	0.5	10.2	<10	<2	23.6
1731050 Stream-12	Soil Pulp	<0.1	0.04	0.53	10.0	1.9	<0.05	1.6	9.53	25.9	0.07	1	0.3	12.7	<10	<2	6.6
1731051	Soil	<0.1	0.05	0.96	8.2	2.7	<0.05	3.3	4.04	18.8	0.03	<1	0.5	9.4	<10	<2	11.8
1731052	Soil	<0.1	<0.02	0.83	8.4	2.7	<0.05	1.4	5.27	20.6	0.03	<1	0.4	9.5	<10	<2	15.8
1731053	Soil	<0.1	<0.02	0.65	6.1	0.5	<0.05	1.2	2.56	12.4	<0.02	<1	0.3	7.0	<10	<2	10.1
1731054	Soil	<0.1	0.02	0.92	11.4	1.7	<0.05	1.5	4.88	24.7	0.04	<1	0.7	13.4	<10	<2	10.6
1731055	Soil	<0.1	0.02	0.78	8.8	0.9	<0.05	1.2	5.23	23.4	0.02	<1	0.3	11.5	<10	<2	12.0
1731056	Soil	<0.1	<0.02	0.60	4.8	1.2	<0.05	1.0	1.63	9.1	<0.02	<1	0.1	5.1	<10	<2	13.6
1731057	Soil	<0.1	0.03	0.91	7.8	3.6	<0.05	1.8	2.02	12.8	<0.02	<1	0.1	8.5	<10	<2	12.0
1731058	Soil	<0.1	0.03	0.81	8.1	1.8	<0.05	1.7	3.22	15.3	<0.02	<1	0.2	8.2	<10	<2	12.6
1731059	Soil	<0.1	<0.02	0.42	4.4	0.8	<0.05	0.7	3.82	12.1	<0.02	<1	0.3	3.2	<10	<2	14.3
1731060	Soil	<0.1	0.07	1.16	8.2	1.5	<0.05	4.2	3.37	20.5	0.02	<1	0.4	13.0	<10	<2	10.8

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.

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	Analyte	SS80	SS80	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		-80 Wt	+80 Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit	MDL	g	g	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	
1731061	Soil	68.00	581.0	1.23	39.11	8.76	56.6	281	19.2	6.1	311	1.85	7.2	0.9	2.6	0.8	26.3	0.49	0.46	0.12	39
1731062	Soil	264.0	463.0	1.23	24.11	7.70	43.4	94	20.5	12.4	467	2.63	26.3	0.6	5.3	2.4	22.8	0.12	0.84	0.28	62
1731063	Soil	259.0	859.0	0.26	9.38	1.20	13.6	60	3.5	2.7	158	0.81	1.4	0.2	0.5	0.2	13.9	0.05	0.12	0.03	27
1731064	Soil	279.0	149.0	0.44	18.62	3.25	32.7	125	7.9	4.0	129	1.47	9.7	3.0	1.6	0.4	25.6	0.09	0.33	0.09	41
1731065	Soil	130.0	560.0	0.60	26.48	6.42	39.5	302	10.0	4.7	332	1.33	9.4	0.6	2.5	0.3	25.1	0.28	0.78	0.26	27
1731066	Soil	311.0	660.0	2.51	41.29	211.9	104.2	2573	12.1	11.3	550	3.10	550.3	1.3	51.0	1.4	24.0	1.32	18.05	5.09	64
1731067	Soil	542.0	985.0	0.45	19.59	7.46	41.1	82	15.2	6.8	242	1.81	6.2	0.6	1.9	2.7	23.4	0.14	0.64	0.26	45
1731068	Soil	197.0	623.0	0.64	17.27	2.44	17.6	287	4.8	5.9	744	0.93	8.1	0.5	3.2	0.2	18.7	0.16	0.38	0.13	20
1731069	Soil	164.0	461.0	0.58	24.33	5.78	45.6	309	11.3	3.6	188	1.13	11.6	0.7	4.6	0.3	39.5	0.38	0.57	0.25	20
1731070	Soil Pulp			1.03	19.97	0.88	20.1	782	6.2	3.9	105	1.50	1.4	0.2	110.3	0.3	15.3	0.04	1.21	1.59	27
1731071	Soil	371.0	506.0	0.28	11.79	1.22	10.1	97	2.7	1.4	46	0.55	2.4	0.6	0.3	0.2	21.9	0.05	0.17	0.09	16
1731072	Soil	134.0	843.0	0.65	10.52	1.42	11.2	151	2.9	4.9	319	0.40	3.8	0.4	0.6	0.1	20.6	0.27	0.18	0.06	7
1731073	Soil	170.0	379.0	1.53	74.30	17.79	140.0	1059	17.3	5.7	154	2.03	81.7	5.2	15.0	0.5	54.9	0.61	2.15	1.14	37
1731074	Soil	280.0	536.0	0.80	21.02	6.82	45.3	264	10.0	5.4	262	1.64	17.6	0.6	4.2	0.4	28.2	0.18	0.46	0.22	38
1731075	Soil	202.0	649.0	1.17	25.24	5.69	35.6	106	13.7	6.6	305	2.56	19.0	0.8	4.1	1.2	30.4	0.17	0.65	0.18	53
1731076	Soil	246.0	706.0	0.43	8.71	2.23	15.7	58	4.2	2.3	96	0.77	1.8	0.2	<0.2	<0.1	17.0	0.04	0.13	0.06	19
1731077	Soil	347.0	432.0	0.71	17.12	3.61	27.4	188	7.3	4.5	257	1.31	3.9	0.5	1.1	0.2	24.0	0.15	0.24	0.10	31
1731078	Soil	200.0	468.0	1.58	30.72	6.77	38.1	180	17.5	10.3	377	2.45	9.3	1.0	1.5	0.5	29.6	0.07	0.46	0.17	51
1731079	Soil	124.0	810.0	0.87	15.90	6.06	18.9	73	6.8	3.8	161	0.89	2.4	0.6	0.5	0.2	22.5	0.11	0.21	0.06	20
1731080	Soil	242.0	785.0	1.11	23.87	7.05	48.5	66	16.3	8.0	352	2.23	8.6	0.6	2.0	1.6	22.3	0.21	0.46	0.18	55
1731081	Soil	234.0	658.0	0.73	20.08	8.18	22.4	71	10.0	4.9	223	1.35	4.9	0.9	0.5	0.6	19.1	0.09	0.32	0.10	32
1731082	Soil	221.0	309.0	0.56	22.97	6.14	20.0	84	9.3	3.0	92	1.02	4.1	1.1	2.0	0.5	21.7	0.08	0.36	0.09	20
1731083	Soil	90.00	713.0	0.79	24.75	3.23	24.0	101	9.4	5.7	572	1.17	3.6	1.1	1.5	0.3	31.4	0.14	0.33	0.07	25
1731084	Soil	69.00	346.0	0.80	34.77	4.25	37.6	147	14.9	6.1	383	1.41	3.9	1.3	1.7	0.7	41.8	0.13	0.48	0.11	26
1731085	Soil	287.0	1007	0.56	26.08	5.55	49.7	150	22.0	7.6	245	2.33	5.1	0.9	5.5	2.4	33.2	0.13	0.41	0.14	54
1731086	Soil	209.0	460.0	0.80	38.84	8.03	59.5	153	33.0	11.5	421	2.98	8.0	1.2	1.6	4.1	34.9	0.17	0.51	0.17	72
1731087	Soil	501.0	577.0	0.70	19.18	4.81	29.5	72	9.2	4.6	163	1.45	5.8	0.4	<0.2	0.7	24.1	0.08	0.26	0.10	36
1731088	Soil	237.0	1087	0.67	28.57	6.85	47.7	63	23.0	10.8	389	2.26	5.2	0.7	7.0	2.0	29.6	0.11	0.46	0.15	54
1731089	Soil	331.0	476.0	0.88	29.46	6.60	33.0	173	17.8	8.3	281	2.22	8.8	1.1	2.1	1.0	27.2	0.07	0.51	0.14	49
1731090 Stream-12	Soil Pulp			9.03	66.75	11.29	89.7	343	41.7	14.2	514	3.72	12.2	1.8	26.7	3.2	115.9	0.66	0.90	0.21	75

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1731061	Soil	0.29	0.133	14.5	20.0	0.20	187.8	0.060	2	1.36	0.026	0.04	<0.1	2.9	0.07	0.05	32	0.3	0.03	4.2	1.06
1731062	Soil	0.31	0.057	11.0	30.3	0.51	137.0	0.093	2	1.68	0.021	0.05	<0.1	3.6	0.09	<0.02	25	0.2	0.03	5.8	1.78
1731063	Soil	0.17	0.045	2.5	6.2	0.08	41.4	0.043	<1	0.35	0.044	0.03	<0.1	0.7	0.02	0.02	15	<0.1	<0.02	1.9	0.18
1731064	Soil	0.39	0.069	6.7	13.7	0.19	104.0	0.049	1	1.00	0.037	0.04	<0.1	1.8	0.05	0.05	31	0.3	<0.02	3.3	0.66
1731065	Soil	0.31	0.076	7.0	16.2	0.23	179.9	0.022	1	1.12	0.032	0.04	0.1	2.0	0.06	0.05	50	0.2	<0.02	3.2	0.76
1731066	Soil	0.15	0.047	9.2	21.5	0.25	233.0	0.040	2	1.39	0.012	0.07	0.3	2.3	0.16	0.03	107	0.3	<0.02	6.5	1.51
1731067	Soil	0.32	0.061	12.3	27.5	0.49	221.3	0.076	1	1.35	0.023	0.06	<0.1	3.8	0.07	<0.02	17	0.2	<0.02	4.3	1.59
1731068	Soil	0.20	0.055	4.4	6.3	0.09	134.5	0.024	1	0.66	0.035	0.03	<0.1	1.2	0.04	0.04	42	0.2	<0.02	2.3	0.48
1731069	Soil	0.53	0.071	11.0	14.3	0.24	227.1	0.021	2	1.38	0.034	0.06	<0.1	1.9	0.06	0.07	51	0.3	<0.02	3.6	1.79
1731070	Soil Pulp	0.31	0.031	2.6	5.8	0.09	13.6	0.201	<1	0.29	0.077	0.05	0.2	0.6	0.09	<0.02	<5	<0.1	<0.02	1.6	2.21
1731071	Soil	0.25	0.036	3.2	3.6	0.07	44.6	0.027	1	0.52	0.063	0.05	<0.1	0.7	0.02	0.03	21	0.2	<0.02	1.8	0.15
1731072	Soil	0.21	0.037	2.6	3.3	0.07	73.0	0.013	1	0.41	0.056	0.04	<0.1	0.6	0.03	0.02	16	0.1	<0.02	1.2	0.22
1731073	Soil	0.70	0.091	14.5	22.9	0.37	294.5	0.028	2	1.67	0.027	0.05	<0.1	3.6	0.10	0.10	71	1.1	0.05	4.7	4.22
1731074	Soil	0.33	0.062	7.1	15.1	0.25	137.4	0.038	1	1.26	0.035	0.05	<0.1	2.3	0.06	0.05	33	<0.1	<0.02	4.0	1.34
1731075	Soil	0.37	0.067	10.9	20.1	0.38	168.8	0.047	4	1.41	0.029	0.06	0.1	3.6	0.09	0.05	43	0.3	<0.02	4.2	1.10
1731076	Soil	0.15	0.031	2.7	6.4	0.09	48.6	0.025	2	0.53	0.042	0.04	<0.1	0.6	<0.02	0.02	11	<0.1	<0.02	2.3	0.30
1731077	Soil	0.25	0.058	5.2	10.6	0.17	77.5	0.034	<1	0.80	0.040	0.05	<0.1	1.4	0.04	0.05	35	0.2	<0.02	3.7	0.59
1731078	Soil	0.31	0.095	9.1	24.8	0.38	147.1	0.043	2	1.81	0.025	0.06	<0.1	3.0	0.09	0.07	27	0.2	0.03	5.3	1.10
1731079	Soil	0.25	0.055	4.8	10.3	0.16	73.3	0.030	2	0.70	0.041	0.04	<0.1	1.0	0.03	0.04	23	0.2	<0.02	2.7	0.46
1731080	Soil	0.24	0.035	7.2	22.0	0.38	117.4	0.067	2	1.43	0.026	0.06	0.1	2.4	0.06	<0.02	11	<0.1	<0.02	5.7	1.33
1731081	Soil	0.24	0.044	6.8	13.5	0.22	83.3	0.039	<1	0.98	0.033	0.05	<0.1	1.5	0.05	0.03	21	0.3	0.03	3.3	0.97
1731082	Soil	0.27	0.043	8.2	12.6	0.21	102.3	0.029	3	1.13	0.037	0.05	<0.1	1.9	0.06	0.04	31	0.1	<0.02	3.1	1.09
1731083	Soil	0.37	0.075	8.9	11.4	0.19	113.9	0.030	2	0.84	0.041	0.05	<0.1	1.8	0.05	0.07	28	0.2	0.05	3.2	0.52
1731084	Soil	0.46	0.072	12.5	17.3	0.26	166.7	0.034	3	1.31	0.032	0.06	<0.1	3.1	0.06	0.08	45	0.3	0.04	3.6	0.72
1731085	Soil	0.58	0.066	9.2	31.0	0.56	181.2	0.081	2	1.59	0.028	0.09	0.2	4.0	0.08	0.04	23	<0.1	<0.02	4.7	1.07
1731086	Soil	0.65	0.074	14.9	43.0	0.80	238.3	0.114	2	1.91	0.026	0.12	0.1	5.9	0.12	<0.02	25	0.2	0.05	6.1	1.83
1731087	Soil	0.27	0.031	5.2	14.7	0.25	88.1	0.057	3	1.01	0.039	0.05	0.1	1.6	0.06	0.02	8	<0.1	<0.02	4.1	0.98
1731088	Soil	0.43	0.065	10.2	30.2	0.60	168.4	0.084	1	1.85	0.023	0.06	0.1	3.8	0.07	0.02	23	0.1	0.03	5.8	1.18
1731089	Soil	0.32	0.077	10.1	25.2	0.33	185.2	0.047	2	1.77	0.028	0.05	<0.1	3.7	0.08	0.05	41	0.2	0.02	5.1	1.06
1731090 Stream-12	Soil Pulp	3.20	0.092	11.4	51.0	1.22	192.0	0.132	5	1.81	0.088	0.23	0.8	5.4	0.10	0.11	48	0.7	<0.02	5.8	0.91



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 4 of 6

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1
1731061	Soil	<0.1	0.03	0.81	7.1	5.5	<0.05	2.2	8.67	30.9	0.03	<1	0.5	4.6	<10	<2	23.0
1731062	Soil	<0.1	0.03	0.80	7.5	1.6	<0.05	2.3	6.26	25.1	0.03	<1	0.5	12.0	<10	<2	9.7
1731063	Soil	<0.1	<0.02	0.18	1.5	0.3	<0.05	0.5	1.57	5.4	<0.02	<1	<0.1	1.3	<10	<2	8.0
1731064	Soil	<0.1	<0.02	0.47	4.5	0.6	<0.05	1.1	4.82	13.5	<0.02	<1	0.3	4.8	<10	<2	13.5
1731065	Soil	<0.1	0.02	0.38	4.8	1.0	<0.05	0.7	5.37	12.9	<0.02	<1	0.3	4.5	<10	<2	14.3
1731066	Soil	<0.1	<0.02	0.80	9.3	2.1	<0.05	1.0	3.15	18.9	0.05	<1	0.5	8.2	<10	<2	13.4
1731067	Soil	<0.1	0.04	0.54	5.8	1.4	<0.05	2.9	6.85	26.3	<0.02	<1	0.3	9.5	<10	<2	4.8
1731068	Soil	<0.1	<0.02	0.22	2.6	0.4	<0.05	0.7	3.66	8.5	<0.02	<1	0.1	1.9	<10	<2	12.8
1731069	Soil	0.1	<0.02	0.56	7.3	0.7	<0.05	1.5	8.96	18.0	<0.02	<1	0.3	6.6	<10	<2	21.6
1731070	Soil Pulp	<0.1	0.32	0.18	9.9	0.2	<0.05	13.7	6.48	6.2	<0.02	<1	0.1	6.7	<10	<2	0.4
1731071	Soil	<0.1	<0.02	0.22	1.6	0.3	<0.05	1.0	2.27	5.7	<0.02	<1	<0.1	2.4	<10	<2	9.1
1731072	Soil	<0.1	<0.02	0.18	2.1	0.3	<0.05	0.6	2.06	4.7	<0.02	<1	<0.1	1.1	<10	<2	8.9
1731073	Soil	<0.1	0.03	0.68	8.3	0.9	<0.05	2.0	12.84	21.3	0.02	<1	0.4	11.6	<10	<2	22.2
1731074	Soil	<0.1	<0.02	0.54	7.3	0.4	<0.05	1.2	4.16	13.2	0.03	<1	<0.1	6.1	<10	<2	14.8
1731075	Soil	<0.1	<0.02	0.62	7.1	1.7	<0.05	1.6	6.87	20.6	<0.02	<1	0.3	7.2	<10	<2	16.0
1731076	Soil	<0.1	<0.02	0.21	3.2	0.8	<0.05	0.6	1.46	5.2	<0.02	<1	<0.1	1.9	<10	<2	9.7
1731077	Soil	<0.1	<0.02	0.47	5.5	0.9	<0.05	1.3	3.30	9.7	<0.02	<1	0.3	4.0	<10	<2	15.5
1731078	Soil	<0.1	<0.02	0.65	9.7	0.7	<0.05	1.2	4.85	18.3	<0.02	<1	0.4	7.4	<10	<2	18.4
1731079	Soil	<0.1	<0.02	0.44	4.5	5.5	<0.05	0.9	2.89	8.9	<0.02	<1	<0.1	3.5	<10	<2	13.9
1731080	Soil	<0.1	0.04	0.89	9.9	1.1	<0.05	2.3	3.29	15.1	0.02	<1	<0.1	9.2	<10	<2	9.2
1731081	Soil	<0.1	<0.02	0.55	5.1	6.9	<0.05	1.1	4.07	12.9	<0.02	<1	0.2	5.2	<10	<2	12.5
1731082	Soil	<0.1	0.03	0.60	5.7	0.7	<0.05	1.0	4.55	14.7	<0.02	<1	<0.1	5.3	<10	<2	18.3
1731083	Soil	<0.1	<0.02	0.47	4.0	0.4	<0.05	1.2	6.91	16.4	<0.02	<1	0.6	2.9	<10	<2	19.9
1731084	Soil	<0.1	<0.02	0.69	6.2	0.8	<0.05	2.1	10.00	21.5	<0.02	<1	0.2	5.1	<10	<2	23.7
1731085	Soil	0.1	0.07	1.08	11.2	0.6	<0.05	3.4	5.29	18.3	0.02	<1	0.2	10.2	<10	<2	12.5
1731086	Soil	<0.1	0.07	1.12	15.4	1.1	<0.05	3.4	9.51	27.5	0.02	<1	0.6	15.4	<10	<2	8.4
1731087	Soil	<0.1	<0.02	0.65	9.0	0.7	<0.05	1.1	2.61	9.9	0.02	<1	<0.1	6.1	<10	<2	10.5
1731088	Soil	0.1	0.04	0.79	9.2	1.3	<0.05	2.1	5.39	19.2	<0.02	<1	0.2	11.6	<10	<2	8.5
1731089	Soil	<0.1	0.02	0.63	6.7	0.9	<0.05	1.8	6.33	21.0	0.02	<1	0.6	7.5	<10	<2	13.9
1731090 Stream-12	Soil Pulp	0.1	0.07	0.73	9.6	2.1	<0.05	2.0	9.59	22.5	0.04	5	0.2	14.3	<10	<2	6.9

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.

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	Analyte	Unit	MDL	SS80	SS80	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30		
				-80 Wt	+80 Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
				g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
1731091	Soil			369.0	570.0	0.16	9.74	0.95	6.0	65	2.6	1.1	47	0.40	0.7	0.2	1.0	<0.1	12.2	0.02	0.08	0.02	8
1731092	Soil			410.0	535.0	0.19	8.23	0.69	4.8	40	1.6	1.3	83	0.37	1.2	0.1	<0.2	0.1	10.7	<0.01	0.07	<0.02	8
1731093	Soil			195.0	565.0	2.85	28.85	2.39	17.3	115	8.2	20.9	2769	1.94	4.5	0.9	0.6	0.2	33.2	0.11	0.31	0.07	31
1731094	Soil			161.0	464.0	1.64	27.27	6.17	74.8	223	28.6	14.1	318	2.31	8.8	0.8	2.4	1.0	29.8	0.25	0.38	0.12	60
1731095	Soil			84.00	461.0	1.08	18.84	5.20	35.7	134	16.2	9.1	213	1.63	9.8	0.5	2.4	1.0	18.9	0.29	0.37	0.09	41
1731096	Soil			216.0	595.0	0.48	14.15	2.68	22.5	60	8.5	3.8	121	0.99	6.1	0.3	1.4	0.4	12.8	0.07	0.19	0.04	31
1731097	Soil			219.0	586.0	1.98	34.74	10.31	57.4	428	28.7	11.8	362	2.28	104.1	1.1	15.0	1.0	32.0	0.23	0.88	0.33	59
1731098	Soil			156.0	506.0	1.88	35.81	7.66	57.0	279	24.4	11.4	517	2.25	51.7	1.3	8.8	1.1	30.6	0.25	0.90	0.24	56
1731099	Soil			347.0	750.0	0.84	34.12	5.38	37.7	97	20.0	8.1	230	1.85	48.9	0.5	10.2	1.7	23.2	0.14	0.52	0.14	47
1731100	Soil			165.0	944.0	1.24	43.07	8.09	62.9	108	24.4	13.8	451	3.21	37.3	0.9	11.2	2.2	38.9	0.14	0.65	0.21	88
1731101	Soil			293.0	520.0	0.90	23.02	6.48	45.5	245	12.7	8.6	697	1.45	10.0	1.1	3.6	0.5	39.4	0.25	0.46	0.29	29
1731102	Soil			215.0	614.0	0.75	25.22	8.14	63.0	251	15.0	8.8	644	1.72	10.3	1.0	4.8	0.9	42.7	0.31	0.51	0.34	37
1731103	Soil			161.0	524.0	1.00	25.82	6.87	58.2	125	12.7	7.1	328	1.60	7.9	1.0	3.6	1.0	34.6	0.30	0.40	0.20	36
1731104	Soil			174.0	448.0	0.96	25.12	8.21	55.8	200	13.2	8.5	429	1.78	11.9	0.9	11.8	1.2	33.0	0.26	0.43	0.25	46
1731105	Soil			209.0	474.0	0.75	23.31	15.13	73.8	180	12.9	7.1	375	1.50	12.2	0.8	6.7	1.0	29.7	0.54	0.48	0.36	35
1731106	Soil			91.00	279.0	0.88	20.45	7.06	44.2	118	12.3	7.7	302	1.75	6.7	0.7	4.0	1.0	32.6	0.20	0.44	0.20	45
1731107	Soil			58.00	543.0	0.60	16.41	2.61	23.2	43	5.1	3.3	70	1.37	2.4	0.3	3.8	0.3	18.6	0.03	0.25	0.06	37
1731108	Soil			193.0	278.0	0.86	15.98	5.40	25.7	75	7.5	3.4	91	1.12	5.2	0.4	2.7	0.4	16.2	0.11	0.31	0.12	27
1731109	Soil			227.0	441.0	0.82	22.92	6.84	34.7	156	10.2	4.2	99	1.46	5.8	0.7	8.6	0.9	22.6	0.09	0.39	0.18	36
1731110 Stream-12	Soil Pulp					10.00	74.61	12.94	94.8	380	45.6	16.7	613	4.04	12.1	2.2	31.5	4.0	120.0	0.64	0.88	0.23	83
1731111	Soil			189.0	546.0	0.58	15.93	4.77	28.7	108	6.5	4.4	207	1.30	3.6	0.5	3.5	0.5	21.4	0.16	0.28	0.11	33
1731112	Soil			467.0	531.0	0.77	24.73	7.86	40.6	102	12.4	6.4	341	1.55	6.3	0.9	3.8	1.0	22.2	0.14	0.33	0.21	36
1731113	Soil			166.0	229.0	0.96	22.39	13.42	58.2	170	14.4	9.1	585	1.62	8.1	0.9	3.1	1.1	29.7	0.40	0.41	0.30	37
1731114	Soil			256.0	857.0	0.77	18.84	8.24	57.4	71	15.3	8.0	345	2.33	9.0	0.6	6.0	2.1	28.5	0.18	0.46	0.27	62
1731115	Soil			102.0	745.0	0.78	14.67	2.77	19.0	159	5.0	6.7	407	1.28	2.0	0.4	1.4	0.2	20.7	0.07	0.18	0.07	32
1731116	Soil			329.0	1251	0.57	28.98	10.26	49.4	101	15.8	8.4	289	2.25	13.1	0.7	3.1	2.7	27.5	0.21	0.50	0.25	53
1731117	Soil			222.0	757.0	0.22	7.24	0.88	9.1	44	2.3	2.0	89	0.56	0.4	0.2	0.8	0.1	12.9	0.03	0.06	0.02	15
1731118	Soil			139.0	595.0	1.54	19.24	6.82	38.6	73	8.9	4.6	238	1.31	4.9	0.3	2.9	0.5	17.2	0.18	0.36	0.12	37
1731119	Soil			182.0	609.0	0.47	18.39	2.66	27.5	139	5.8	4.3	424	1.21	4.8	0.4	1.9	0.3	32.6	0.25	0.23	0.06	23
1731120	Soil			193.0	502.0	0.56	16.32	3.19	28.1	81	6.2	3.2	176	0.89	3.2	0.4	1.5	0.2	29.0	0.11	0.23	0.06	20

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1731091	Soil	0.11	0.030	2.4	3.4	0.06	39.9	0.013	1	0.43	0.043	0.03	<0.1	0.5	<0.02	0.02	8	<0.1	<0.02	1.3	0.17
1731092	Soil	0.10	0.029	1.9	2.7	0.05	27.2	0.013	<1	0.30	0.040	0.03	<0.1	0.5	<0.02	<0.02	12	<0.1	0.02	1.0	0.13
1731093	Soil	0.33	0.098	7.4	9.9	0.14	118.1	0.020	2	1.11	0.039	0.03	<0.1	1.2	0.07	0.09	30	0.3	0.02	3.6	0.37
1731094	Soil	0.35	0.078	9.0	34.2	0.57	132.5	0.099	1	1.57	0.020	0.06	0.1	2.8	0.08	0.05	41	0.6	0.03	5.9	1.25
1731095	Soil	0.15	0.032	6.3	17.0	0.28	77.5	0.062	2	1.12	0.029	0.05	0.1	1.8	0.06	0.02	31	0.1	0.05	4.6	0.87
1731096	Soil	0.12	0.038	3.5	9.8	0.13	41.1	0.045	1	0.76	0.044	0.05	<0.1	0.9	0.03	<0.02	16	<0.1	<0.02	2.7	0.46
1731097	Soil	0.30	0.073	9.5	38.5	0.49	118.2	0.107	2	1.27	0.023	0.05	0.1	2.9	0.13	0.05	45	1.1	0.02	5.9	1.67
1731098	Soil	0.35	0.084	10.5	29.1	0.44	110.5	0.087	3	1.19	0.024	0.04	0.2	2.7	0.12	0.06	53	0.8	<0.02	5.1	1.60
1731099	Soil	0.25	0.048	8.8	28.3	0.44	108.6	0.099	2	1.04	0.027	0.04	0.1	2.2	0.07	<0.02	17	0.2	0.02	4.2	0.95
1731100	Soil	0.43	0.077	12.4	32.5	0.68	122.8	0.148	2	1.44	0.024	0.06	0.2	3.3	0.08	0.03	25	0.2	0.03	6.2	1.65
1731101	Soil	0.48	0.066	7.8	20.9	0.30	146.9	0.040	2	1.21	0.032	0.04	<0.1	2.2	0.08	0.05	43	0.2	0.05	4.2	1.02
1731102	Soil	0.54	0.069	8.5	25.9	0.37	179.4	0.054	2	1.50	0.029	0.05	<0.1	2.8	0.09	0.05	40	0.2	0.03	4.9	1.28
1731103	Soil	0.35	0.050	7.8	19.6	0.31	114.5	0.066	2	1.20	0.030	0.04	<0.1	2.3	0.08	0.03	31	0.2	0.02	4.5	1.07
1731104	Soil	0.33	0.055	8.3	20.2	0.37	101.8	0.068	2	1.20	0.030	0.05	0.1	2.4	0.08	0.03	29	0.2	0.03	4.4	1.42
1731105	Soil	0.31	0.049	8.4	19.8	0.35	104.6	0.051	1	1.16	0.031	0.05	<0.1	2.2	0.08	0.03	32	0.2	0.03	4.5	1.42
1731106	Soil	0.35	0.059	8.2	19.9	0.34	82.4	0.073	2	0.98	0.025	0.04	<0.1	2.0	0.07	0.04	41	0.2	0.03	4.3	1.18
1731107	Soil	0.14	0.037	4.3	9.2	0.08	41.6	0.063	<1	0.70	0.023	0.02	<0.1	0.8	0.04	0.03	27	0.1	<0.02	3.5	0.42
1731108	Soil	0.13	0.032	4.9	12.9	0.19	47.3	0.041	1	0.71	0.029	0.03	<0.1	1.1	0.05	0.03	23	0.2	<0.02	3.4	0.73
1731109	Soil	0.22	0.051	8.0	17.1	0.28	76.6	0.064	1	0.94	0.029	0.04	0.1	1.9	0.08	0.03	52	0.2	0.06	4.1	1.02
1731110 Stream-12	Soil Pulp	3.55	0.094	15.7	59.5	1.33	210.6	0.193	4	1.69	0.079	0.20	0.9	6.2	0.12	0.11	52	0.6	0.03	6.6	1.05
1731111	Soil	0.21	0.047	5.3	11.1	0.18	64.2	0.052	1	0.67	0.032	0.03	<0.1	1.3	0.05	0.03	25	0.2	0.03	3.0	0.55
1731112	Soil	0.24	0.050	8.4	17.9	0.32	106.9	0.059	1	1.18	0.032	0.04	0.1	2.1	0.08	0.02	20	0.2	0.02	4.1	1.17
1731113	Soil	0.33	0.048	9.5	21.0	0.36	127.5	0.063	1	1.31	0.033	0.05	<0.1	2.5	0.11	0.03	33	0.1	0.04	4.6	1.66
1731114	Soil	0.37	0.055	8.5	26.1	0.50	86.8	0.106	2	1.22	0.028	0.05	0.1	2.6	0.06	<0.02	22	<0.1	0.03	4.9	0.93
1731115	Soil	0.22	0.070	4.2	9.4	0.13	48.8	0.046	<1	0.42	0.039	0.03	<0.1	1.0	0.04	0.04	22	0.2	<0.02	2.4	0.35
1731116	Soil	0.34	0.055	10.6	28.3	0.47	123.2	0.104	2	1.38	0.030	0.06	0.1	4.5	0.07	<0.02	24	0.2	0.03	4.5	1.09
1731117	Soil	0.12	0.032	2.1	4.5	0.06	26.8	0.027	<1	0.28	0.041	0.03	<0.1	0.5	<0.02	<0.02	9	<0.1	<0.02	1.2	0.16
1731118	Soil	0.16	0.030	5.0	16.7	0.17	56.8	0.057	1	0.71	0.039	0.04	<0.1	1.2	0.06	<0.02	18	<0.1	0.03	4.1	0.85
1731119	Soil	0.54	0.062	4.6	10.5	0.15	75.3	0.037	2	0.66	0.044	0.04	<0.1	1.4	0.05	0.06	36	0.3	<0.02	2.3	0.53
1731120	Soil	0.35	0.045	4.5	10.6	0.15	72.8	0.031	1	0.72	0.040	0.04	<0.1	1.1	0.04	0.04	21	0.2	<0.02	2.7	0.67



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 5 of 6

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1
1731091	Soil	<0.1	<0.02	0.16	1.9	0.1	<0.05	0.3	1.35	4.9	<0.02	<1	<0.1	0.8	<10	<2	8.9
1731092	Soil	<0.1	<0.02	0.07	1.5	<0.1	<0.05	0.2	1.10	4.4	<0.02	<1	<0.1	0.7	<10	<2	6.2
1731093	Soil	<0.1	<0.02	0.35	3.0	0.2	<0.05	1.0	4.60	16.7	<0.02	<1	0.3	2.4	<10	<2	22.2
1731094	Soil	<0.1	0.05	1.74	9.3	0.5	<0.05	2.1	4.04	17.7	<0.02	<1	<0.1	11.5	<10	<2	18.0
1731095	Soil	<0.1	0.05	0.95	7.4	0.5	<0.05	2.2	2.86	13.1	<0.02	<1	<0.1	9.1	<10	<2	13.5
1731096	Soil	<0.1	<0.02	0.50	3.0	1.0	<0.05	1.0	1.58	6.9	<0.02	<1	0.3	2.8	<10	<2	8.2
1731097	Soil	<0.1	0.04	1.60	10.3	1.0	<0.05	2.4	4.19	20.0	0.03	<1	0.3	11.4	<10	<2	17.1
1731098	Soil	<0.1	0.04	1.17	8.3	0.5	<0.05	2.0	4.95	22.2	0.03	<1	0.2	9.4	<10	<2	20.3
1731099	Soil	<0.1	0.04	0.79	6.7	0.7	<0.05	1.9	3.82	19.8	<0.02	<1	0.2	9.5	<10	<2	6.6
1731100	Soil	<0.1	0.05	1.20	8.5	1.5	<0.05	2.7	5.37	29.0	<0.02	<1	0.3	14.4	<10	<2	10.4
1731101	Soil	<0.1	0.03	0.67	7.6	0.5	<0.05	1.8	5.27	15.5	<0.02	<1	0.4	6.2	<10	<2	16.7
1731102	Soil	<0.1	0.04	0.75	9.2	0.7	<0.05	1.9	4.94	17.5	<0.02	<1	0.5	8.5	<10	<2	15.8
1731103	Soil	<0.1	0.02	0.88	7.6	0.9	<0.05	2.0	3.82	16.8	<0.02	<1	0.2	7.6	<10	<2	14.7
1731104	Soil	<0.1	0.03	0.78	7.4	0.6	<0.05	1.7	4.04	17.6	0.03	<1	0.3	7.1	<10	<2	13.8
1731105	Soil	<0.1	0.03	0.80	7.0	0.7	<0.05	1.3	3.73	18.7	<0.02	<1	0.3	7.2	<10	<2	14.4
1731106	Soil	<0.1	0.04	0.91	6.2	0.8	<0.05	1.8	3.56	17.8	<0.02	<1	0.2	6.6	<10	<2	19.2
1731107	Soil	<0.1	0.03	0.58	3.2	0.7	<0.05	1.2	1.51	8.9	<0.02	<1	0.1	1.9	<10	<2	14.3
1731108	Soil	<0.1	<0.02	0.60	4.6	0.8	<0.05	0.9	1.82	10.3	<0.02	<1	0.2	3.9	<10	<2	14.8
1731109	Soil	<0.1	0.03	0.80	5.0	0.5	<0.05	1.5	3.57	17.1	<0.02	<1	0.2	6.0	<10	<2	15.0
1731110 Stream-12	Soil Pulp	<0.1	0.07	0.85	11.2	2.2	<0.05	2.3	11.46	32.4	0.07	<1	0.3	14.2	<10	<2	6.7
1731111	Soil	<0.1	<0.02	0.47	3.8	0.6	<0.05	1.1	2.59	11.4	<0.02	<1	0.3	3.3	<10	<2	13.2
1731112	Soil	<0.1	0.03	0.71	6.5	0.4	<0.05	1.6	4.08	17.5	<0.02	<1	0.3	7.0	<10	<2	10.9
1731113	Soil	<0.1	0.03	0.80	8.0	0.8	<0.05	1.4	4.49	21.3	0.02	<1	0.4	8.6	<10	<2	14.7
1731114	Soil	<0.1	0.05	0.80	6.9	1.5	<0.05	2.3	3.76	19.0	0.02	<1	0.2	9.3	<10	<2	7.4
1731115	Soil	<0.1	<0.02	0.32	3.0	1.3	<0.05	0.9	2.12	9.1	<0.02	<1	0.1	1.5	<10	<2	12.5
1731116	Soil	<0.1	0.07	0.74	7.5	1.2	<0.05	3.9	6.56	23.3	0.03	<1	0.3	9.0	<10	<2	7.5
1731117	Soil	<0.1	<0.02	0.12	2.1	0.2	<0.05	0.2	1.05	4.6	<0.02	<1	<0.1	0.8	<10	<2	8.5
1731118	Soil	<0.1	<0.02	0.60	7.6	1.9	<0.05	0.9	1.75	10.6	<0.02	<1	0.2	4.5	<10	<2	10.1
1731119	Soil	<0.1	0.02	0.26	3.4	0.4	<0.05	0.6	2.83	10.3	<0.02	<1	0.1	2.1	<10	<2	17.8
1731120	Soil	<0.1	<0.02	0.42	4.2	0.5	<0.05	0.9	2.83	9.2	<0.02	<1	0.1	2.6	<10	<2	15.2

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 6 of 6

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	SS80	SS80	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	-80 Wt	+80 Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	
1731121	Soil	300.0	603.0	0.25	8.52	1.24	9.5	28	2.8	1.4	55	0.57	1.6	0.3	1.6	<0.1	17.0	0.03	0.09	0.03	14
1731122	Soil	93.00	857.0	0.83	12.58	5.51	35.7	61	10.0	5.2	211	1.38	4.3	0.4	1.4	0.9	21.4	0.12	0.27	0.08	35
1731123	Soil	186.0	600.0	0.44	34.79	4.34	33.2	76	13.1	6.5	251	1.58	6.0	1.7	3.5	0.9	31.6	0.19	0.42	0.09	43
1731124	Soil	102.0	552.0	0.68	12.84	1.38	22.6	102	4.2	8.8	1594	1.55	1.6	0.3	0.4	0.3	19.7	0.09	0.16	0.03	40
1731125	Soil	247.0	453.0	0.67	16.09	1.68	9.8	71	4.1	2.7	298	0.57	1.6	0.5	0.5	0.1	23.5	0.04	0.18	0.04	10
1731126	Soil	156.0	716.0	0.35	12.89	2.02	14.2	43	3.9	2.2	74	0.76	1.9	0.2	0.5	0.3	12.2	0.05	0.18	0.05	19
1731127	Soil	158.0	717.0	0.21	6.92	0.55	5.9	52	1.9	1.5	159	0.50	1.1	0.1	<0.2	<0.1	11.9	0.02	0.07	0.04	11
1731128	Soil	169.0	1140	0.42	31.79	6.48	52.2	76	26.7	12.4	451	2.90	7.5	0.9	6.9	3.4	32.7	0.19	0.56	0.13	64
1731129	Soil	227.0	561.0	0.50	25.42	1.50	17.0	45	6.6	2.8	301	0.81	1.2	0.3	0.3	<0.1	19.6	0.05	0.14	0.03	19
1731130	Soil Pulp			1.13	21.13	0.80	19.4	826	6.3	4.1	90	1.27	1.6	0.2	119.1	0.4	13.1	0.02	1.09	1.78	22
1731131	Soil	61.00	442.0	1.73	60.26	6.46	62.8	180	15.4	10.9	1388	5.36	118.9	1.1	3.9	0.7	47.9	0.84	0.75	0.21	59
1731132	Soil	259.0	728.0	1.08	33.19	1.64	15.2	97	5.9	5.0	544	1.36	8.5	0.6	1.0	0.1	24.3	0.33	0.29	0.05	17
1731133	Soil	165.0	351.0	1.01	33.23	11.43	86.2	380	20.9	10.1	296	2.24	33.1	4.0	10.8	1.5	49.8	0.71	1.39	0.70	42
1731134	Soil	128.0	436.0	1.08	30.31	3.72	17.0	84	8.4	4.4	371	2.10	10.0	0.5	1.8	0.2	29.2	0.16	0.30	0.09	42
1731135	Soil	134.0	677.0	0.49	19.24	2.21	20.3	66	5.8	3.7	275	1.20	2.2	0.4	0.8	0.2	23.3	0.08	0.18	0.05	33
1731136	Soil	163.0	772.0	0.96	24.10	3.64	21.4	65	6.8	3.0	146	0.96	5.4	0.6	4.1	0.3	22.6	0.12	0.33	0.08	22
1731137	Soil	324.0	1402	0.81	43.45	10.72	53.8	127	26.8	11.8	313	2.80	41.2	1.0	9.4	2.6	33.5	0.11	0.85	0.16	69
1731138	Soil	435.0	1137	0.91	32.21	6.88	62.6	119	25.9	11.7	400	2.87	40.7	0.7	47.3	2.3	43.4	0.20	0.73	0.15	80
1731139	Soil	258.0	636.0	0.96	32.59	7.54	43.4	146	16.2	9.1	371	2.12	47.9	0.9	6.7	1.3	32.5	0.14	0.55	0.17	53
1731140	Soil	127.0	664.0	2.09	33.41	4.88	32.9	342	10.4	12.2	2781	1.80	35.4	1.0	6.3	0.7	23.7	0.42	0.58	0.14	41
1731141	Soil	151.0	364.0	0.79	27.03	3.76	22.6	123	7.8	4.3	538	1.18	13.3	0.5	2.6	0.2	24.4	0.05	0.27	0.09	19
1731142	Soil	298.0	496.0	0.53	23.62	2.67	19.7	103	6.4	4.6	434	1.05	17.2	0.4	2.4	0.4	18.9	0.05	0.24	0.06	21
1731143	Soil	203.0	594.0	1.04	24.14	3.08	26.8	203	6.8	6.9	453	1.80	7.8	0.9	3.7	0.6	21.5	0.06	0.29	0.10	42
1731144	Soil	213.0	712.0	0.73	22.44	2.31	24.5	84	6.6	4.6	450	1.09	29.1	0.4	1.9	0.4	20.5	0.10	0.25	0.16	25
1731145	Soil	67.00	822.0	0.86	35.09	1.85	36.8	58	8.2	6.4	350	1.95	3.5	0.8	1.1	0.3	24.5	0.09	0.21	0.05	63
1731146	Soil	250.0	1115	1.09	30.44	7.05	60.1	89	26.9	12.9	783	2.48	12.9	0.7	3.4	1.9	32.0	0.09	0.46	0.18	56
1731147	Soil	222.0	618.0	0.77	33.38	3.98	27.1	90	11.9	5.7	166	2.03	12.8	1.4	4.2	1.0	16.1	0.15	0.45	0.10	31
1731148	Soil	399.0	969.0	0.54	31.54	5.67	49.3	62	20.5	8.7	160	2.37	9.6	0.7	3.7	2.6	23.1	0.16	0.39	0.11	51
1731149	Soil	261.0	1621	0.89	40.71	8.10	71.9	99	41.4	13.2	291	2.81	7.6	0.8	9.4	4.4	31.0	0.21	0.61	0.24	69
1731150 Stream-12	Soil Pulp			9.30	71.04	11.73	89.9	362	43.5	16.5	538	3.67	12.2	1.8	36.3	3.1	108.7	0.66	0.88	0.25	73

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client:** Teck Resources Limited  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

**Project:** 210800  
**Report Date:** August 07, 2013

**Page:** 6 of 6

**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI13000168.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1731121	Soil	0.16	0.028	2.1	5.6	0.07	42.0	0.023	<1	0.38	0.041	0.03	<0.1	0.5	0.02	0.03	14	<0.1	<0.02	1.8	0.26
1731122	Soil	0.25	0.043	4.5	17.3	0.24	85.2	0.053	<1	0.81	0.035	0.04	<0.1	1.7	0.04	0.02	15	<0.1	<0.02	3.4	0.95
1731123	Soil	0.44	0.073	7.4	18.4	0.28	138.1	0.075	1	0.99	0.038	0.04	<0.1	2.4	0.06	0.06	33	0.3	<0.02	4.0	0.54
1731124	Soil	0.25	0.077	3.8	7.2	0.09	88.1	0.065	<1	0.42	0.036	0.02	<0.1	0.7	0.04	0.03	15	0.2	<0.02	2.9	0.14
1731125	Soil	0.26	0.046	4.8	6.4	0.09	107.5	0.018	<1	0.51	0.044	0.03	<0.1	0.8	0.03	0.05	28	0.2	<0.02	1.9	0.29
1731126	Soil	0.12	0.030	2.9	7.7	0.11	51.6	0.032	<1	0.49	0.035	0.04	<0.1	0.8	0.03	<0.02	9	0.1	<0.02	2.0	0.57
1731127	Soil	0.11	0.029	2.0	3.7	0.05	33.0	0.019	<1	0.25	0.042	0.03	<0.1	0.5	<0.02	<0.02	9	0.1	<0.02	1.1	0.13
1731128	Soil	0.52	0.065	14.5	43.5	0.58	191.4	0.120	2	1.91	0.029	0.07	<0.1	6.4	0.10	<0.02	32	0.2	<0.02	5.6	0.86
1731129	Soil	0.23	0.053	3.4	7.1	0.10	75.0	0.030	<1	0.65	0.037	0.03	<0.1	0.5	0.03	0.06	23	0.2	<0.02	2.0	0.22
1731130	Soil Pulp	0.29	0.028	2.9	5.5	0.08	11.5	0.179	<1	0.21	0.063	0.05	0.2	0.5	0.09	<0.02	<5	<0.1	<0.02	1.2	2.20
1731131	Soil	0.68	0.094	11.7	20.2	0.24	272.6	0.034	1	1.64	0.021	0.03	0.1	2.5	0.09	0.15	72	0.6	0.06	3.6	0.78
1731132	Soil	0.32	0.054	5.2	6.2	0.08	89.1	0.024	<1	0.71	0.032	0.03	<0.1	0.8	0.03	0.04	23	0.2	<0.02	2.0	0.25
1731133	Soil	0.91	0.081	13.3	29.5	0.46	298.7	0.058	2	1.60	0.028	0.06	0.1	4.6	0.09	0.07	41	1.4	0.04	4.4	3.00
1731134	Soil	0.32	0.086	6.9	11.2	0.17	102.3	0.028	<1	0.93	0.032	0.03	0.1	1.3	0.06	0.08	32	0.2	0.02	3.4	0.40
1731135	Soil	0.30	0.074	4.9	9.1	0.14	67.0	0.047	<1	0.59	0.036	0.03	<0.1	0.9	0.04	0.05	29	0.2	<0.02	2.5	0.32
1731136	Soil	0.25	0.057	5.5	11.6	0.16	61.9	0.036	<1	0.67	0.025	0.03	<0.1	1.1	0.05	0.05	28	0.1	0.03	3.0	0.62
1731137	Soil	0.40	0.066	13.1	39.3	0.92	176.4	0.095	1	2.36	0.011	0.08	0.1	5.1	0.11	0.02	21	0.2	<0.02	6.4	1.92
1731138	Soil	0.51	0.092	13.4	39.8	0.84	123.8	0.140	1	1.69	0.016	0.08	0.2	3.9	0.08	0.02	23	0.2	<0.02	5.6	1.77
1731139	Soil	0.43	0.056	11.8	28.1	0.49	101.8	0.078	1	1.23	0.020	0.04	0.2	2.9	0.09	0.05	33	0.3	0.02	4.8	1.18
1731140	Soil	0.29	0.087	8.2	21.8	0.30	113.8	0.053	1	1.03	0.024	0.04	0.1	2.7	0.15	0.08	65	0.4	<0.02	3.6	1.21
1731141	Soil	0.29	0.071	4.6	11.9	0.16	94.0	0.028	<1	0.62	0.031	0.03	<0.1	1.3	0.05	0.07	29	0.3	0.03	2.4	0.38
1731142	Soil	0.22	0.064	4.7	12.8	0.22	74.8	0.045	<1	0.65	0.033	0.03	<0.1	1.4	0.05	0.05	24	0.2	<0.02	2.5	0.40
1731143	Soil	0.25	0.084	6.2	17.4	0.21	73.3	0.055	<1	0.80	0.025	0.03	<0.1	2.0	0.09	0.06	38	0.3	<0.02	3.3	0.68
1731144	Soil	0.22	0.052	3.7	10.0	0.18	78.4	0.043	<1	0.77	0.031	0.03	<0.1	1.0	0.04	0.04	21	0.2	<0.02	2.4	0.39
1731145	Soil	0.34	0.091	5.3	9.6	0.12	78.6	0.096	<1	0.65	0.029	0.03	<0.1	0.9	0.03	0.06	19	0.2	<0.02	3.7	0.24
1731146	Soil	0.46	0.083	8.8	35.1	0.59	162.7	0.101	1	1.74	0.018	0.09	0.1	3.3	0.11	0.03	23	0.3	0.03	5.5	1.09
1731147	Soil	0.22	0.052	9.0	18.2	0.24	88.0	0.047	<1	0.92	0.027	0.05	<0.1	2.6	0.06	0.03	30	0.5	0.02	2.9	0.54
1731148	Soil	0.33	0.065	11.2	34.5	0.49	109.8	0.096	1	1.37	0.025	0.06	0.1	4.5	0.07	<0.02	23	0.3	<0.02	4.3	0.65
1731149	Soil	0.52	0.092	16.5	53.7	0.96	194.7	0.146	<1	1.98	0.020	0.15	0.1	5.2	0.19	<0.02	33	0.4	0.05	6.0	1.46
1731150 Stream-12	Soil Pulp	3.17	0.097	10.9	53.1	1.22	193.8	0.137	3	1.76	0.073	0.21	1.0	5.2	0.10	0.10	60	0.6	0.07	5.6	0.93

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 6 of 6

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000168.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1
1731121	Soil	<0.1	<0.02	0.21	2.2	0.1	<0.05	0.3	1.20	4.2	<0.02	<1	<0.1	0.9	<10	<2	11.2
1731122	Soil	<0.1	<0.02	0.44	5.2	2.3	<0.05	0.9	2.41	10.1	<0.02	<1	0.2	4.5	<10	<2	9.4
1731123	Soil	<0.1	0.04	0.64	4.0	0.5	<0.05	2.6	4.43	15.2	<0.02	<1	0.1	5.8	<10	<2	15.5
1731124	Soil	<0.1	<0.02	0.21	1.1	0.6	<0.05	0.9	2.18	8.7	<0.02	<1	0.2	1.1	<10	<2	10.0
1731125	Soil	<0.1	<0.02	0.27	2.3	0.3	<0.05	0.5	4.58	8.0	<0.02	<1	0.3	1.1	<10	<2	15.7
1731126	Soil	<0.1	<0.02	0.30	2.8	0.2	<0.05	0.3	1.28	6.3	<0.02	<1	<0.1	2.0	<10	<2	7.7
1731127	Soil	<0.1	<0.02	0.10	1.5	0.2	<0.05	0.1	1.13	3.9	<0.02	<1	<0.1	0.6	<10	<2	6.6
1731128	Soil	<0.1	0.11	0.69	9.1	0.7	<0.05	6.4	9.89	31.5	0.02	<1	0.4	13.1	<10	<2	6.9
1731129	Soil	<0.1	<0.02	0.33	1.7	0.6	<0.05	1.0	2.25	6.4	<0.02	<1	0.1	1.7	<10	<2	18.6
1731130	Soil Pulp	<0.1	0.30	0.28	9.7	0.2	<0.05	12.3	6.86	7.3	<0.02	<1	0.1	5.4	<10	<2	1.0
1731131	Soil	<0.1	0.03	0.81	4.1	1.0	<0.05	2.0	9.47	25.4	<0.02	1	0.5	6.3	<10	<2	35.1
1731132	Soil	<0.1	<0.02	0.28	1.6	0.3	<0.05	0.4	3.96	9.8	<0.02	<1	0.2	1.5	<10	<2	16.3
1731133	Soil	<0.1	0.04	0.81	10.8	1.0	<0.05	2.3	10.93	26.7	0.04	3	0.4	13.7	<10	<2	17.5
1731134	Soil	<0.1	<0.02	0.54	3.0	2.2	<0.05	1.1	4.36	13.8	<0.02	<1	0.3	2.8	<10	<2	22.0
1731135	Soil	<0.1	<0.02	0.29	2.5	0.6	<0.05	0.9	2.80	10.7	<0.02	<1	0.1	2.0	<10	<2	I.S.
1731136	Soil	<0.1	<0.02	0.61	4.3	0.7	<0.05	1.1	2.99	11.2	<0.02	<1	0.2	3.1	<10	<2	18.2
1731137	Soil	<0.1	0.03	0.76	11.3	1.0	<0.05	1.4	6.21	31.7	0.03	<1	0.5	15.6	<10	<2	9.4
1731138	Soil	<0.1	0.04	1.19	9.7	0.7	<0.05	2.1	6.53	32.7	0.02	<1	0.4	14.7	<10	<2	8.2
1731139	Soil	<0.1	0.03	1.04	6.7	0.6	<0.05	1.5	6.83	23.1	<0.02	<1	0.3	9.9	<10	<2	16.8
1731140	Soil	<0.1	<0.02	0.52	4.3	0.6	<0.05	0.9	4.94	22.3	<0.02	<1	0.2	5.7	<10	<2	19.5
1731141	Soil	<0.1	<0.02	0.36	2.3	0.5	<0.05	0.9	3.25	8.4	<0.02	<1	0.2	2.3	<10	<2	18.3
1731142	Soil	<0.1	<0.02	0.84	2.2	0.5	<0.05	0.9	2.83	9.7	<0.02	<1	0.1	3.2	<10	<2	14.7
1731143	Soil	<0.1	<0.02	0.45	3.0	0.5	<0.05	0.9	3.44	15.1	<0.02	<1	0.2	3.6	<10	<2	16.9
1731144	Soil	<0.1	<0.02	0.44	3.1	0.5	<0.05	0.9	2.22	7.8	<0.02	<1	0.2	3.5	<10	<2	12.7
1731145	Soil	<0.1	0.03	0.39	1.8	0.5	<0.05	2.0	2.95	11.3	<0.02	<1	0.2	1.9	<10	<2	16.1
1731146	Soil	<0.1	0.02	1.00	11.4	1.2	<0.05	1.8	4.38	19.4	<0.02	<1	0.3	14.8	<10	<2	10.7
1731147	Soil	<0.1	0.02	0.69	5.5	0.7	<0.05	1.4	5.80	19.4	<0.02	<1	0.4	6.0	<10	<2	11.9
1731148	Soil	<0.1	0.07	0.83	7.6	0.9	<0.05	4.3	7.18	24.5	<0.02	<1	0.3	10.8	<10	<2	7.0
1731149	Soil	<0.1	0.18	0.83	24.6	2.0	<0.05	7.3	8.25	29.2	0.03	<1	0.4	18.9	<10	<2	5.3
1731150 Stream-12	Soil Pulp	<0.1	0.05	0.71	9.9	2.2	<0.05	1.9	9.19	20.4	0.06	5	0.3	13.0	<10	<2	7.0

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.

# QUALITY CONTROL REPORT

WHI13000168.1

Method	SS80	SS80	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	-80 Wt	+80 Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
Pulp Duplicates																					
1731011	Soil	111.0	398.0	1.66	20.04	10.34	41.4	276	16.7	5.7	190	1.69	6.6	0.5	1.8	0.9	54.3	0.27	0.51	0.13	38
REP 1731011	QC																				
1731014	Soil	83.00	463.0	0.46	13.51	3.73	17.9	53	4.8	2.3	92	0.64	1.8	0.3	0.5	<0.1	13.7	0.11	0.17	0.05	13
REP 1731014	QC			0.45	13.27	3.66	18.4	51	4.7	2.3	91	0.66	2.0	0.3	0.4	<0.1	13.9	0.12	0.17	0.04	13
1731023	Soil	148.0	434.0	1.17	39.69	4.36	18.7	210	6.6	2.8	62	0.87	15.1	1.4	3.9	0.4	20.6	0.09	0.59	0.12	17
REP 1731023	QC			1.25	39.64	4.03	19.3	198	6.5	2.7	61	0.88	15.0	1.4	3.0	0.4	20.1	0.09	0.60	0.12	17
1731046	Soil	162.0	572.0	0.20	7.02	2.29	7.7	31	2.3	2.4	77	0.47	1.7	0.2	1.4	0.3	10.1	0.05	0.10	0.04	10
REP 1731046	QC			0.21	7.30	2.24	7.1	31	2.5	2.3	77	0.47	1.6	0.2	1.4	0.3	9.8	0.05	0.10	0.04	10
1731049	Soil	72.00	462.0	0.86	25.64	9.70	73.7	202	18.5	9.3	523	1.94	17.0	1.0	5.1	0.6	45.8	0.67	0.58	0.17	41
REP 1731049	QC																				
1731055	Soil	162.0	604.0	0.99	23.15	8.34	50.5	99	19.1	9.9	409	2.14	9.3	0.7	3.2	1.4	26.1	0.26	0.47	0.18	51
REP 1731055	QC			1.03	22.87	8.39	53.1	98	18.5	9.8	417	2.18	9.8	0.7	2.0	1.4	26.6	0.28	0.48	0.19	51
1731078	Soil	200.0	468.0	1.58	30.72	6.77	38.1	180	17.5	10.3	377	2.45	9.3	1.0	1.5	0.5	29.6	0.07	0.46	0.17	51
REP 1731078	QC			1.48	28.98	6.53	37.2	187	16.3	10.3	378	2.45	8.8	0.9	2.5	0.5	27.8	0.06	0.41	0.16	51
1731087	Soil	501.0	577.0	0.70	19.18	4.81	29.5	72	9.2	4.6	163	1.45	5.8	0.4	<0.2	0.7	24.1	0.08	0.26	0.10	36
REP 1731087	QC			0.66	20.23	4.66	31.7	64	10.0	4.6	168	1.43	4.9	0.4	3.9	0.7	23.7	0.10	0.30	0.10	36
1731110 Stream-12	Soil Pulp			10.00	74.61	12.94	94.8	380	45.6	16.7	613	4.04	12.1	2.2	31.5	4.0	120.0	0.64	0.88	0.23	83
REP 1731110 Stream-12	QC			10.03	72.30	12.82	93.4	378	44.6	17.3	604	4.00	12.0	2.2	36.9	3.9	119.3	0.59	0.91	0.24	82
1731119	Soil	182.0	609.0	0.47	18.39	2.66	27.5	139	5.8	4.3	424	1.21	4.8	0.4	1.9	0.3	32.6	0.25	0.23	0.06	23
REP 1731119	QC			0.46	18.65	2.56	27.0	140	5.9	3.9	421	1.18	5.2	0.4	1.7	0.3	32.0	0.24	0.23	0.05	23
1731135	Soil	134.0	677.0	0.49	19.24	2.21	20.3	66	5.8	3.7	275	1.20	2.2	0.4	0.8	0.2	23.3	0.08	0.18	0.05	33
REP 1731135	QC			0.39	16.78	1.72	17.9	57	5.0	3.2	237	1.00	1.7	0.3	0.8	0.2	20.4	0.08	0.16	0.05	28
1731144	Soil	213.0	712.0	0.73	22.44	2.31	24.5	84	6.6	4.6	450	1.09	29.1	0.4	1.9	0.4	20.5	0.10	0.25	0.16	25
REP 1731144	QC																				
1731150 Stream-12	Soil Pulp			9.30	71.04	11.73	89.9	362	43.5	16.5	538	3.67	12.2	1.8	36.3	3.1	108.7	0.66	0.88	0.25	73
REP 1731150 Stream-12	QC			9.30	72.01	11.88	94.7	367	41.5	16.0	562	3.71	12.3	1.8	33.8	3.2	110.7	0.67	0.90	0.25	74
Reference Materials																					
STD DOLOMITE-2	Standard																				

# QUALITY CONTROL REPORT

WHI13000168.1

Method		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
Pulp Duplicates																					
1731011	Soil	0.78	0.046	5.6	18.6	0.37	75.7	0.048	1	1.22	0.029	0.04	0.1	2.0	0.09	0.06	54	0.3	0.06	5.0	1.16
REP 1731011	QC																				
1731014	Soil	0.17	0.045	2.5	6.8	0.10	37.4	0.023	<1	0.56	0.037	0.04	<0.1	0.6	0.02	0.04	71	0.2	<0.02	2.5	0.39
REP 1731014	QC	0.16	0.045	2.5	7.8	0.09	37.1	0.026	<1	0.56	0.036	0.04	<0.1	0.6	0.02	0.05	64	0.2	<0.02	2.6	0.39
1731023	Soil	0.24	0.045	5.7	10.0	0.16	46.1	0.018	<1	0.60	0.032	0.04	<0.1	1.2	0.06	0.06	46	0.3	0.03	2.4	1.55
REP 1731023	QC	0.24	0.045	5.8	9.8	0.16	45.8	0.017	<1	0.59	0.031	0.04	<0.1	1.1	0.06	0.06	45	0.3	0.03	2.4	1.49
1731046	Soil	0.07	0.022	2.1	4.3	0.06	28.0	0.022	<1	0.60	0.038	0.03	<0.1	0.5	<0.02	<0.02	16	<0.1	<0.02	1.8	0.22
REP 1731046	QC	0.08	0.022	2.1	4.4	0.06	27.0	0.021	<1	0.59	0.036	0.03	<0.1	0.5	<0.02	<0.02	19	<0.1	<0.02	1.9	0.22
1731049	Soil	0.59	0.076	13.7	24.1	0.42	236.2	0.050	2	1.75	0.028	0.07	<0.1	3.7	0.10	0.06	37	0.2	0.04	4.9	1.63
REP 1731049	QC																				
1731055	Soil	0.32	0.046	9.7	24.4	0.43	144.5	0.068	2	1.62	0.028	0.07	0.1	3.3	0.08	0.03	23	<0.1	0.03	5.1	1.68
REP 1731055	QC	0.32	0.047	9.9	25.4	0.45	140.4	0.072	2	1.61	0.028	0.07	0.1	3.3	0.08	0.03	24	<0.1	0.04	5.3	1.68
1731078	Soil	0.31	0.095	9.1	24.8	0.38	147.1	0.043	2	1.81	0.025	0.06	<0.1	3.0	0.09	0.07	27	0.2	0.03	5.3	1.10
REP 1731078	QC	0.30	0.095	8.4	25.7	0.38	138.6	0.044	2	1.79	0.025	0.06	<0.1	3.0	0.08	0.07	46	0.2	<0.02	5.1	1.06
1731087	Soil	0.27	0.031	5.2	14.7	0.25	88.1	0.057	3	1.01	0.039	0.05	0.1	1.6	0.06	0.02	8	<0.1	<0.02	4.1	0.98
REP 1731087	QC	0.27	0.032	5.5	13.9	0.25	94.4	0.058	3	1.01	0.038	0.05	0.1	1.9	0.05	0.02	29	<0.1	0.02	4.1	1.02
1731110 Stream-12	Soil Pulp	3.55	0.094	15.7	59.5	1.33	210.6	0.193	4	1.69	0.079	0.20	0.9	6.2	0.12	0.11	52	0.6	0.03	6.6	1.05
REP 1731110 Stream-12	QC	3.49	0.092	15.1	57.1	1.29	207.9	0.184	4	1.65	0.070	0.19	0.9	6.3	0.13	0.11	60	0.6	0.02	6.4	1.05
1731119	Soil	0.54	0.062	4.6	10.5	0.15	75.3	0.037	2	0.66	0.044	0.04	<0.1	1.4	0.05	0.06	36	0.3	<0.02	2.3	0.53
REP 1731119	QC	0.54	0.060	4.5	10.0	0.14	72.0	0.035	3	0.64	0.041	0.04	<0.1	1.3	0.05	0.06	34	0.3	0.02	2.2	0.51
1731135	Soil	0.30	0.074	4.9	9.1	0.14	67.0	0.047	<1	0.59	0.036	0.03	<0.1	0.9	0.04	0.05	29	0.2	<0.02	2.5	0.32
REP 1731135	QC	0.25	0.066	4.2	8.4	0.12	57.2	0.042	<1	0.50	0.031	0.03	<0.1	0.8	0.04	0.05	20	0.2	<0.02	2.1	0.29
1731144	Soil	0.22	0.052	3.7	10.0	0.18	78.4	0.043	<1	0.77	0.031	0.03	<0.1	1.0	0.04	0.04	21	0.2	<0.02	2.4	0.39
REP 1731144	QC																				
1731150 Stream-12	Soil Pulp	3.17	0.097	10.9	53.1	1.22	193.8	0.137	3	1.76	0.073	0.21	1.0	5.2	0.10	0.10	60	0.6	0.07	5.6	0.93
REP 1731150 Stream-12	QC	3.20	0.095	11.1	51.8	1.21	191.8	0.141	4	1.78	0.075	0.21	0.9	5.5	0.10	0.11	62	0.8	0.08	5.6	0.92
Reference Materials																					
STD DOLOMITE-2	Standard																				

# QUALITY CONTROL REPORT

WHI13000168.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
Pulp Duplicates																	
1731011	Soil	<0.1	0.03	1.09	7.6	7.9	<0.05	1.8	2.50	12.7	0.03	<1	0.3	8.2	<10	<2	23.2
REP 1731011	QC																23.0
1731014	Soil	<0.1	<0.02	0.34	2.5	2.6	<0.05	0.6	1.35	5.5	<0.02	<1	0.1	1.9	<10	<2	17.3
REP 1731014	QC	<0.1	<0.02	0.35	2.7	2.7	<0.05	0.3	1.34	5.3	<0.02	<1	0.1	1.8	<10	<2	
1731023	Soil	<0.1	<0.02	0.43	4.2	1.6	<0.05	0.4	3.08	13.3	<0.02	<1	0.2	3.2	<10	<2	I.S.
REP 1731023	QC	<0.1	<0.02	0.43	4.1	1.2	<0.05	0.5	3.06	13.2	<0.02	<1	0.1	3.0	<10	<2	
1731046	Soil	<0.1	<0.02	0.28	1.8	1.0	<0.05	0.5	0.99	4.8	<0.02	<1	<0.1	1.6	<10	<2	8.5
REP 1731046	QC	<0.1	<0.02	0.29	1.7	1.0	<0.05	0.5	1.02	4.8	<0.02	<1	<0.1	1.6	<10	<2	
1731049	Soil	<0.1	0.03	0.81	10.5	3.1	<0.05	1.6	11.12	29.8	0.03	<1	0.5	10.2	<10	<2	23.6
REP 1731049	QC																23.3
1731055	Soil	<0.1	0.02	0.78	8.8	0.9	<0.05	1.2	5.23	23.4	0.02	<1	0.3	11.5	<10	<2	12.0
REP 1731055	QC	<0.1	<0.02	0.86	9.0	0.9	<0.05	1.3	5.51	23.6	0.02	<1	0.4	11.6	<10	<2	
1731078	Soil	<0.1	<0.02	0.65	9.7	0.7	<0.05	1.2	4.85	18.3	<0.02	<1	0.4	7.4	<10	<2	18.4
REP 1731078	QC	<0.1	<0.02	0.68	8.5	0.8	<0.05	1.2	4.78	17.4	<0.02	<1	0.3	8.1	<10	<2	
1731087	Soil	<0.1	<0.02	0.65	9.0	0.7	<0.05	1.1	2.61	9.9	0.02	<1	<0.1	6.1	<10	<2	10.5
REP 1731087	QC	0.1	<0.02	0.73	9.6	0.8	<0.05	1.2	2.77	10.2	<0.02	2	0.4	7.6	<10	<2	11.0
1731110 Stream-12	Soil Pulp	<0.1	0.07	0.85	11.2	2.2	<0.05	2.3	11.46	32.4	0.07	<1	0.3	14.2	<10	<2	6.7
REP 1731110 Stream-12	QC	<0.1	0.06	0.77	11.5	2.2	<0.05	2.0	11.02	31.3	0.06	2	0.5	13.7	<10	<2	
1731119	Soil	<0.1	0.02	0.26	3.4	0.4	<0.05	0.6	2.83	10.3	<0.02	<1	0.1	2.1	<10	<2	17.8
REP 1731119	QC	<0.1	<0.02	0.31	3.4	0.5	<0.05	0.8	2.74	10.0	<0.02	<1	0.3	2.1	<10	<2	
1731135	Soil	<0.1	<0.02	0.29	2.5	0.6	<0.05	0.9	2.80	10.7	<0.02	<1	0.1	2.0	<10	<2	I.S.
REP 1731135	QC	<0.1	<0.02	0.23	2.2	0.5	<0.05	0.3	2.48	8.9	<0.02	<1	0.1	1.5	<10	<2	
1731144	Soil	<0.1	<0.02	0.44	3.1	0.5	<0.05	0.9	2.22	7.8	<0.02	<1	0.2	3.5	<10	<2	12.7
REP 1731144	QC																12.5
1731150 Stream-12	Soil Pulp	<0.1	0.05	0.71	9.9	2.2	<0.05	1.9	9.19	20.4	0.06	5	0.3	13.0	<10	<2	7.0
REP 1731150 Stream-12	QC	0.1	0.05	0.78	9.8	2.1	<0.05	2.0	9.12	21.8	0.06	4	0.3	13.7	<10	<2	
Reference Materials																	
STD DOLOMITE-2	Standard																46.0



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 07, 2013

Page: 2 of 2

Part: 1 of 3

# QUALITY CONTROL REPORT

WHI13000168.1

		SS80	SS80	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30		
		-80 Wt	+80 Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
		g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
STD DOLOMITE-2	Standard																					
STD DOLOMITE-2	Standard																					
STD DOLOMITE-2	Standard																					
STD DS9	Standard			13.23	111.5	125.2	317.2	1881	42.0	7.6	590	2.38	25.1	2.8	113.2	6.2	69.8	2.36	5.56	6.53	40	
STD DS9	Standard			13.69	108.4	127.9	316.6	1845	40.4	8.1	589	2.40	25.2	2.9	119.7	7.0	81.1	2.32	5.80	6.68	41	
STD DS9	Standard			12.67	108.4	125.4	307.9	1808	40.6	7.2	578	2.39	26.4	2.7	127.4	6.2	75.4	2.24	5.68	6.50	40	
STD DS9	Standard			12.27	109.7	129.4	310.7	1879	40.2	7.5	572	2.32	24.1	2.7	123.9	6.4	67.6	2.29	5.53	6.78	38	
STD DS9	Standard			12.71	110.1	128.9	315.6	1805	40.4	7.7	566	2.25	24.6	2.7	127.8	6.2	65.8	2.26	5.91	6.69	37	
STD DS9	Standard			13.63	112.0	133.9	325.1	1879	41.5	7.6	580	2.36	25.0	2.8	117.2	6.5	66.5	2.31	5.72	6.76	39	
STD DS9 Expected				12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	
STD DOLOMITE-2 Expected																						
BLK	Blank			<0.01	<0.01	<0.01	<0.1	10	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
BLK	Blank			<0.01	<0.01	<0.01	<0.1	8	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	

## QUALITY CONTROL REPORT

WHI13000168.1

		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30		
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
		0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
STD DOLOMITE-2	Standard																					
STD DOLOMITE-2	Standard																					
STD DOLOMITE-2	Standard																					
STD DS9	Standard	0.73	0.083	13.5	118.0	0.63	300.5	0.115	3	0.98	0.084	0.40	3.1	2.4	5.14	0.17	199	5.5	4.71	4.3	2.37	
STD DS9	Standard	0.80	0.081	17.5	119.7	0.63	304.9	0.130	3	1.02	0.088	0.38	3.0	2.8	5.20	0.16	204	5.5	5.30	5.0	2.41	
STD DS9	Standard	0.77	0.084	13.7	118.9	0.63	298.3	0.111	5	1.08	0.126	0.46	2.9	2.5	5.22	0.17	191	6.0	5.54	4.7	2.37	
STD DS9	Standard	0.72	0.086	13.5	113.9	0.61	282.5	0.109	2	0.95	0.087	0.41	3.2	2.2	5.40	0.17	217	5.5	5.37	4.6	2.43	
STD DS9	Standard	0.68	0.086	13.5	112.5	0.58	276.8	0.110	2	0.87	0.082	0.38	3.2	2.2	5.26	0.16	209	5.3	5.42	4.7	2.42	
STD DS9	Standard	0.72	0.088	14.3	117.1	0.62	292.5	0.117	3	0.96	0.092	0.41	3.1	2.3	5.48	0.17	203	5.5	5.39	4.7	2.51	
STD DS9 Expected		0.7201	0.0819	13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	
STD DOLOMITE-2 Expected																						
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.01	<0.001	<0.5	1.0	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.01	<0.001	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.01	<0.001	<0.5	0.8	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	

## QUALITY CONTROL REPORT

WHI13000168.1

		1F30 Ge ppm 0.1	1F30 Hf ppm 0.02	1F30 Nb ppm 0.02	1F30 Rb ppm 0.1	1F30 Sn ppm 0.1	1F30 Ta ppm 0.05	1F30 Zr ppm 0.1	1F30 Y ppm 0.01	1F30 Ce ppm 0.1	1F30 In ppm 0.02	1F30 Re ppb 1	1F30 Be ppm 0.1	1F30 Li ppm 0.1	1F30 Pd ppb 10	1F30 Pt ppb 2	LOI %
STD DOLOMITE-2	Standard																46.3
STD DOLOMITE-2	Standard																46.0
STD DOLOMITE-2	Standard																46.0
STD DS9	Standard	<0.1	0.08	1.40	33.1	6.6	<0.05	2.0	5.79	25.5	2.28	69	5.8	26.4	124	339	
STD DS9	Standard	<0.1	0.09	1.73	34.9	6.7	<0.05	1.9	7.39	34.9	2.23	58	5.9	26.3	133	352	
STD DS9	Standard	0.1	0.10	1.37	31.9	6.7	<0.05	2.0	6.37	26.2	2.07	68	6.0	25.2	112	358	
STD DS9	Standard	0.2	0.08	1.53	35.7	6.2	<0.05	1.7	6.19	27.8	2.27	62	5.8	26.4	124	370	
STD DS9	Standard	0.1	0.06	1.82	34.9	6.1	<0.05	1.5	6.08	27.2	2.24	56	5.6	25.9	129	351	
STD DS9	Standard	0.1	0.08	1.72	35.0	6.3	<0.05	1.7	6.41	28.9	2.32	60	6.1	26.3	129	362	
STD DS9 Expected		0.1	0.08	1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350	
STD DOLOMITE-2 Expected																	45.9
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	2	<0.1	<0.1	<10	<2	
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Submitted By: Karen Weir and Rupa Mukherjee  
Receiving Lab: Canada-Whitehorse  
Received: July 26, 2013  
Report Date: August 12, 2013  
Page: 1 of 4

## CERTIFICATE OF ANALYSIS

WHI13000202.1

### CLIENT JOB INFORMATION

Project: 210800  
Shipment ID: YTG\_WLF\_2013\_003  
P.O. Number  
Number of Samples: 68

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

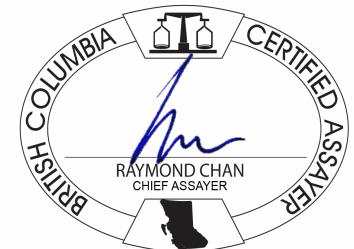
Invoice To: Teck Resources Limited  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	68	Dry at 60C			WHI
SS80	65	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	65	Saving all or part of Soil Reject			WHI
1F06	68	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
2A05	68	Loss on Ignition at 1000 C		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.

# CERTIFICATE OF ANALYSIS

WHI13000202.1

Method	Analyte	Unit	MDL	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1731151	Soil			0.96	60.33	8.06	94.0	84	41.2	15.9	307	3.66	12.6	1.1	7.0	4.3	32.6	0.28	0.86	0.31	75	0.49	0.108
1731152	Soil			0.63	28.31	5.82	64.3	74	26.7	10.0	425	2.36	6.6	0.4	2.8	1.7	30.0	0.15	0.40	0.17	53	0.43	0.075
1731153	Soil			0.42	26.15	7.60	62.9	59	25.8	10.2	215	2.54	8.2	0.5	3.7	3.5	34.5	0.12	0.59	0.18	58	0.53	0.086
1731154	Soil			0.63	31.20	7.37	74.5	71	30.9	11.2	335	2.60	9.2	0.6	19.6	2.6	32.6	0.11	0.46	0.17	56	0.48	0.076
1731155	Soil			1.84	29.75	7.29	83.1	150	30.1	21.3	478	4.54	27.4	1.2	3.4	4.6	36.4	0.12	0.65	0.19	72	0.58	0.098
1731156	Soil			0.84	36.66	8.38	68.6	104	33.2	10.2	226	2.83	9.4	1.2	4.8	4.2	36.6	0.16	0.68	0.18	64	0.58	0.079
1731157	Soil			1.63	33.57	3.87	103.9	198	25.9	21.6	2260	2.69	7.0	1.3	3.7	0.8	58.8	0.35	0.42	0.09	62	0.80	0.102
1731158	Soil			0.46	31.67	3.50	41.2	92	15.9	5.5	287	1.31	6.4	1.0	1.3	0.5	33.4	0.12	0.31	0.08	29	0.46	0.063
1731159	Soil			0.34	18.21	2.32	23.7	52	7.8	3.8	204	0.98	2.2	0.3	1.6	0.3	22.9	0.05	0.15	0.05	24	0.27	0.051
1731160	Soil			0.91	30.78	6.50	54.8	48	25.0	8.0	273	2.17	8.2	0.5	6.9	1.6	25.4	0.12	0.50	0.14	47	0.31	0.073
1731161	Soil			1.18	38.01	7.45	82.0	165	37.5	11.4	294	2.60	9.2	0.9	20.6	2.6	34.0	0.21	0.94	0.14	60	0.42	0.083
1731162	Soil			1.20	35.58	9.16	86.2	140	40.5	12.4	283	3.15	10.7	1.1	3.8	4.4	36.0	0.24	1.20	0.16	71	0.44	0.083
1731163	Soil			1.01	30.85	10.67	76.7	240	24.9	21.3	3365	2.91	17.2	0.8	8.9	2.9	28.7	0.38	1.35	0.24	47	0.29	0.074
1731164	Soil			0.79	24.16	6.43	35.4	187	13.2	6.8	309	1.58	55.4	0.5	9.6	0.4	25.8	0.13	2.06	0.39	34	0.23	0.054
1731165	Soil			1.67	54.11	14.56	68.5	466	27.0	12.9	457	3.09	230.5	1.0	54.9	1.6	39.9	0.40	10.82	0.83	59	0.36	0.076
1731166	Soil			0.51	15.96	3.27	27.9	99	9.6	10.1	264	2.27	20.9	0.7	4.9	1.2	16.4	0.08	4.04	0.12	48	0.16	0.060
1731167	Soil			0.78	33.47	7.85	75.8	109	39.3	14.7	568	3.10	21.6	0.8	5.2	3.0	32.7	0.16	2.33	0.22	67	0.44	0.097
1731168	Soil			0.41	34.43	8.74	67.0	106	31.6	9.9	291	2.82	29.5	1.1	7.9	3.9	30.6	0.28	2.22	0.26	55	0.40	0.060
1731169	Soil			0.93	23.90	8.19	58.0	186	19.7	14.4	1015	2.27	14.5	0.8	3.0	1.8	28.3	0.16	1.00	0.12	47	0.44	0.071
1731170	Soil Pulp			1.03	20.20	1.06	19.8	776	6.9	4.5	113	1.40	1.2	0.2	111.5	0.4	15.5	0.03	1.23	1.58	25	0.30	0.026
1731171	Soil			1.16	21.01	5.50	53.5	97	22.3	14.6	707	2.31	8.3	0.5	3.3	1.4	31.2	0.16	0.45	0.21	55	0.45	0.065
1731172	Soil			0.87	36.30	7.19	68.9	259	36.7	15.9	879	2.72	9.9	0.9	1069	2.8	47.2	0.24	0.65	0.14	54	0.75	0.070
1731173	Soil			0.98	24.74	6.69	60.2	60	25.6	11.6	464	2.40	8.9	0.6	1.9	1.9	31.1	0.15	0.52	0.13	50	0.40	0.061
1731174	Soil			0.86	22.97	5.81	24.9	108	12.1	9.6	535	1.15	10.3	0.7	5.9	0.4	27.8	0.17	0.81	0.14	26	0.30	0.047
1731175	Soil			1.84	46.76	10.80	51.3	334	35.3	15.8	312	4.25	29.2	0.7	6.3	3.0	21.1	0.16	1.21	1.06	77	0.19	0.036
1731176	Soil			1.87	49.85	12.94	49.8	478	29.8	14.2	375	2.74	137.4	1.5	52.0	1.5	31.1	0.32	5.48	1.23	51	0.24	0.076
1731177	Soil			1.66	39.34	9.73	53.1	216	22.4	10.1	269	3.41	26.3	0.8	3.6	1.9	18.8	0.23	4.41	0.28	66	0.13	0.051
1731178	Soil			1.81	46.07	11.18	75.1	219	34.7	18.0	511	3.25	65.7	1.0	18.8	2.1	34.2	0.32	7.26	0.20	60	0.29	0.079
1731179	Soil			0.97	54.77	14.67	69.9	260	34.2	11.1	288	3.06	71.9	1.1	22.2	3.9	40.1	0.35	5.31	0.44	70	0.47	0.075
1731180	Soil			1.66	21.70	7.99	40.6	70	16.3	6.8	257	2.31	11.3	0.7	17.8	1.8	16.4	0.11	1.93	0.20	52	0.13	0.044



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client:** Teck Resources Limited  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

**Project:** 210800  
**Report Date:** August 12, 2013

**Page:** 2 of 4

**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI13000202.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1731151	Soil	19.4	64.1	1.01	183.7	0.139	2	2.16	0.019	0.16	0.1	6.9	0.19	<0.02	22	0.6	<0.02	7.0	1.56	<0.1	0.12
1731152	Soil	8.0	35.5	0.64	150.7	0.093	1	1.51	0.025	0.09	0.1	3.4	0.09	0.02	8	<0.1	<0.02	4.8	0.92	<0.1	0.04
1731153	Soil	12.1	42.3	0.75	144.7	0.127	2	1.71	0.027	0.12	0.2	4.3	0.13	<0.02	12	0.5	<0.02	5.4	1.13	<0.1	0.13
1731154	Soil	12.3	43.2	0.79	160.6	0.112	2	1.63	0.024	0.11	0.1	3.5	0.13	0.03	13	<0.1	<0.02	5.7	1.26	<0.1	0.04
1731155	Soil	17.3	46.7	0.83	162.9	0.129	2	1.73	0.025	0.12	0.1	4.8	0.13	0.03	12	0.6	<0.02	5.8	1.32	0.1	0.04
1731156	Soil	16.1	53.4	0.86	166.3	0.134	1	1.91	0.022	0.13	0.1	6.0	0.15	0.04	17	0.4	<0.02	6.2	1.37	<0.1	0.10
1731157	Soil	7.1	19.8	0.41	217.8	0.087	2	1.02	0.029	0.05	<0.1	2.6	0.08	0.08	21	0.8	<0.02	4.2	0.59	<0.1	0.04
1731158	Soil	5.9	16.5	0.28	111.0	0.043	2	0.89	0.032	0.04	<0.1	1.8	0.05	0.06	6	0.7	<0.02	3.0	0.47	<0.1	0.04
1731159	Soil	3.9	9.3	0.17	72.4	0.041	1	0.64	0.034	0.04	<0.1	1.0	0.05	0.04	14	0.2	<0.02	2.4	0.40	<0.1	<0.02
1731160	Soil	9.2	31.6	0.59	109.2	0.092	2	1.50	0.022	0.09	0.1	2.7	0.11	0.02	17	0.3	<0.02	5.4	1.28	<0.1	0.02
1731161	Soil	12.2	47.2	0.79	235.7	0.102	<1	1.85	0.021	0.11	<0.1	4.5	0.13	0.02	22	0.5	<0.02	5.5	1.71	<0.1	0.03
1731162	Soil	14.8	52.0	0.95	233.5	0.128	<1	2.03	0.017	0.13	0.1	5.1	0.14	<0.02	12	0.5	<0.02	6.6	2.17	0.1	0.07
1731163	Soil	14.4	37.5	0.61	196.7	0.107	<1	1.83	0.020	0.14	0.1	4.2	0.19	0.04	15	0.5	<0.02	5.9	2.31	<0.1	<0.02
1731164	Soil	6.0	16.3	0.29	106.8	0.047	<1	0.91	0.025	0.05	<0.1	1.9	0.06	0.04	16	0.3	<0.02	3.4	0.78	<0.1	<0.02
1731165	Soil	11.9	39.2	0.60	194.0	0.076	1	1.80	0.018	0.10	0.1	4.1	0.12	0.06	33	0.8	0.06	6.1	2.04	<0.1	<0.02
1731166	Soil	5.3	14.1	0.22	47.6	0.072	<1	0.63	0.030	0.05	<0.1	1.9	0.05	0.03	15	0.5	<0.02	3.1	0.55	<0.1	<0.02
1731167	Soil	12.4	54.4	0.95	182.8	0.133	1	2.02	0.022	0.14	0.1	5.0	0.15	0.04	16	0.6	<0.02	6.7	1.62	<0.1	0.05
1731168	Soil	13.2	49.7	0.74	175.3	0.114	1	1.82	0.021	0.12	<0.1	6.0	0.14	0.07	28	0.6	<0.02	5.6	1.28	0.1	0.08
1731169	Soil	8.8	32.2	0.48	132.7	0.071	1	1.17	0.027	0.08	0.1	3.0	0.08	0.05	21	0.5	0.03	4.5	0.93	<0.1	0.02
1731170	Soil Pulp	2.8	5.6	0.09	13.7	0.216	1	0.28	0.064	0.05	0.2	0.6	0.09	<0.02	<5	<0.1	<0.02	1.3	2.28	<0.1	0.29
1731171	Soil	8.3	36.3	0.59	113.1	0.093	<1	1.22	0.029	0.08	0.2	3.0	0.09	0.04	15	0.4	<0.02	4.8	1.19	<0.1	0.03
1731172	Soil	13.7	42.9	0.71	237.5	0.098	1	1.52	0.027	0.10	0.1	4.5	0.13	0.04	19	0.6	<0.02	5.2	1.23	<0.1	0.03
1731173	Soil	9.5	38.5	0.65	140.0	0.099	2	1.41	0.025	0.08	<0.1	2.9	0.10	0.03	23	0.3	<0.02	5.3	1.22	<0.1	0.03
1731174	Soil	7.0	14.7	0.23	84.2	0.037	<1	0.72	0.025	0.05	<0.1	1.7	0.06	0.04	30	0.2	<0.02	3.1	1.32	<0.1	<0.02
1731175	Soil	9.8	47.3	0.63	79.4	0.104	<1	2.72	0.012	0.05	0.1	4.4	0.08	0.02	36	0.4	<0.02	7.0	1.95	<0.1	0.10
1731176	Soil	13.3	34.2	0.47	182.5	0.051	1	1.64	0.018	0.08	<0.1	3.9	0.17	0.06	92	0.9	0.09	5.7	3.74	<0.1	<0.02
1731177	Soil	10.5	32.0	0.47	94.0	0.076	<1	1.75	0.016	0.06	0.1	3.1	0.08	0.06	37	0.5	0.04	6.6	1.45	<0.1	0.03
1731178	Soil	13.2	38.5	0.62	167.2	0.094	1	1.81	0.016	0.09	0.1	4.3	0.11	0.04	27	0.7	0.03	6.2	3.50	<0.1	0.03
1731179	Soil	14.9	50.2	0.82	277.1	0.146	2	1.91	0.021	0.08	0.1	7.5	0.09	<0.02	26	0.2	0.03	5.6	1.39	<0.1	0.07
1731180	Soil	9.4	23.5	0.38	62.5	0.082	1	1.03	0.016	0.10	0.1	2.1	0.09	0.02	13	0.4	<0.02	5.4	1.32	<0.1	<0.02

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 12, 2013

Page: 2 of 4

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000202.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1
1731151	Soil	1.19	28.0	0.8	<0.05	6.2	11.34	37.3	0.05	<1	0.7	19.6	<10	3	8.2
1731152	Soil	0.82	12.1	0.9	<0.05	2.4	4.44	16.9	0.02	<1	0.3	13.1	<10	<2	9.1
1731153	Soil	1.00	16.0	0.6	<0.05	6.3	6.32	24.1	0.03	<1	0.3	14.8	<10	<2	6.4
1731154	Soil	1.76	17.5	1.1	<0.05	2.4	5.84	24.6	0.02	<1	0.2	20.0	<10	4	10.0
1731155	Soil	1.72	18.2	0.6	<0.05	3.2	6.77	35.5	0.02	<1	0.3	18.8	<10	4	11.4
1731156	Soil	1.54	19.9	1.0	<0.05	4.2	7.74	29.8	<0.02	<1	0.5	21.2	<10	<2	11.0
1731157	Soil	0.67	5.6	0.2	<0.05	2.6	5.55	16.2	<0.02	<1	0.3	7.1	<10	<2	24.3
1731158	Soil	0.68	4.2	0.6	<0.05	2.0	3.96	12.1	<0.02	<1	0.2	5.9	<10	<2	18.3
1731159	Soil	0.41	3.2	<0.1	<0.05	1.2	2.23	7.8	<0.02	<1	0.2	3.3	<10	<2	13.4
1731160	Soil	1.01	13.5	0.7	<0.05	1.7	3.93	18.9	<0.02	<1	0.3	14.9	<10	<2	10.7
1731161	Soil	1.00	14.3	0.6	<0.05	2.0	6.92	24.6	<0.02	<1	0.3	18.0	<10	2	9.3
1731162	Soil	0.87	17.5	0.7	<0.05	2.8	6.74	30.2	0.03	<1	0.3	20.6	<10	4	6.5
1731163	Soil	1.11	23.8	0.5	<0.05	1.4	5.90	34.0	<0.02	<1	0.6	17.5	<10	5	12.2
1731164	Soil	0.52	7.3	1.1	<0.05	0.9	3.07	12.1	<0.02	<1	0.2	5.6	<10	2	14.3
1731165	Soil	0.93	14.8	0.7	<0.05	1.5	5.13	24.8	<0.02	<1	0.3	13.9	<10	<2	14.1
1731166	Soil	0.54	5.8	0.1	<0.05	1.1	2.69	11.7	<0.02	<1	0.2	3.7	<10	<2	11.4
1731167	Soil	1.44	21.2	0.4	<0.05	2.5	6.43	24.5	<0.02	<1	0.4	19.3	<10	<2	11.4
1731168	Soil	1.76	18.3	0.7	<0.05	4.1	7.99	26.9	0.04	<1	0.3	15.7	<10	2	16.6
1731169	Soil	1.02	11.5	0.3	<0.05	1.7	5.06	17.0	<0.02	<1	0.3	9.9	<10	4	16.0
1731170	Soil Pulp	0.18	9.7	<0.1	<0.05	13.4	6.73	7.0	<0.02	<1	0.3	5.5	<10	3	0.7
1731171	Soil	1.46	13.1	0.5	<0.05	1.6	3.52	17.2	0.02	<1	0.2	12.0	<10	2	16.0
1731172	Soil	1.68	17.0	0.5	<0.05	2.5	8.68	28.3	0.03	<1	0.3	15.2	<10	5	17.5
1731173	Soil	1.55	13.0	0.6	<0.05	1.7	4.25	18.9	<0.02	<1	0.1	13.7	<10	<2	15.2
1731174	Soil	0.55	6.8	0.1	<0.05	0.8	3.91	14.4	<0.02	<1	0.2	5.9	<10	<2	18.1
1731175	Soil	1.56	9.0	0.9	<0.05	4.8	4.34	22.0	0.03	<1	0.8	20.1	<10	2	13.0
1731176	Soil	1.40	17.0	0.4	<0.05	1.3	5.57	27.3	0.02	<1	0.2	12.5	<10	<2	22.6
1731177	Soil	1.24	9.8	1.1	<0.05	2.4	4.00	22.6	0.02	<1	0.4	13.2	<10	<2	15.0
1731178	Soil	1.25	12.7	0.7	<0.05	1.7	6.19	26.8	<0.02	<1	0.3	19.2	<10	3	14.0
1731179	Soil	0.62	11.2	0.5	<0.05	4.4	10.69	29.6	0.03	<1	0.2	17.0	<10	<2	5.9
1731180	Soil	1.11	12.1	0.9	<0.05	1.6	2.65	19.3	<0.02	<1	0.4	7.6	<10	<2	12.5

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 12, 2013

Page: 3 of 4

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000202.1

Method Analyte	Unit	MDL	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1731181	Soil		1.09	27.83	8.85	49.0	121	17.0	10.7	380	2.24	50.3	0.6	14.4	2.1	26.1	0.21	3.55	0.19	52	0.29	0.075
1731182	Soil		1.86	52.45	16.80	76.3	229	28.5	15.3	355	3.46	102.7	1.2	24.1	4.7	34.8	0.38	6.37	0.36	70	0.40	0.078
1731183	Soil		1.11	30.83	11.48	55.5	235	23.6	9.9	283	3.17	153.1	0.6	35.6	2.3	22.4	0.22	3.55	0.40	59	0.26	0.051
1731184	Soil		1.77	23.42	10.67	58.1	185	22.7	13.3	515	3.72	49.7	0.5	7.1	1.9	20.1	0.48	1.79	0.31	72	0.19	0.034
1731185	Soil		1.52	23.72	9.14	46.4	195	20.5	9.3	246	4.64	36.6	0.5	2.3	2.2	16.2	0.22	1.42	0.48	91	0.15	0.025
1731186	Soil		1.39	20.52	6.37	43.9	56	9.4	4.8	207	1.92	10.6	0.4	2.3	0.3	14.1	0.14	0.56	0.17	42	0.13	0.039
1731187	Soil		0.12	7.82	1.47	7.7	46	1.7	1.2	14	0.51	1.0	0.2	<0.2	<0.1	8.4	0.05	0.04	0.06	9	0.04	0.022
1731188	Soil		0.91	26.65	5.98	28.0	499	10.9	19.7	468	2.96	69.9	0.7	23.3	0.9	13.7	0.10	1.57	0.94	40	0.13	0.048
1731189	Soil		0.93	25.57	11.23	46.6	222	16.6	8.4	236	1.89	16.7	0.6	6.4	0.8	20.4	0.15	0.58	0.50	41	0.22	0.049
1731190 Stream-12	Soil Pulp		8.91	67.26	11.27	89.7	351	42.9	14.6	508	3.81	12.0	1.7	34.9	3.0	105.3	0.54	0.83	0.22	72	3.29	0.097
1731191	Soil		0.68	24.88	5.47	58.7	140	24.7	9.6	201	2.52	10.5	0.7	6.4	1.6	22.4	0.12	0.49	0.21	50	0.29	0.059
1731192	Soil		0.75	23.34	5.63	60.3	182	23.1	9.1	237	2.63	16.1	0.7	4.2	2.4	23.0	0.14	1.14	0.18	44	0.29	0.060
1731193	Soil		1.24	27.64	7.75	75.8	173	27.4	11.2	251	3.12	25.1	0.8	2.0	2.7	30.9	0.33	1.11	0.24	60	0.41	0.077
1731194	Soil		1.03	20.85	5.48	59.5	159	17.0	8.8	397	2.27	14.1	0.6	2.6	1.5	26.1	0.15	0.74	0.20	48	0.36	0.082
1731195	Soil		0.83	24.32	6.74	55.4	163	23.1	15.5	442	3.79	47.7	0.7	3.1	2.5	23.9	0.22	1.32	0.36	59	0.34	0.058
1731196	Soil		0.71	41.87	5.61	38.8	203	18.1	9.0	300	1.67	22.0	1.0	2.9	0.9	29.8	0.20	0.52	0.28	37	0.53	0.046
1731197	Soil		0.88	19.73	4.81	37.7	142	13.6	11.7	735	1.69	13.6	0.4	2.9	0.5	22.8	0.17	0.44	0.25	37	0.28	0.058
1731198	Soil		0.50	26.04	6.70	67.1	134	28.2	10.0	426	2.43	10.4	0.7	4.0	2.4	28.7	0.18	0.58	0.28	49	0.43	0.064
1731199	Soil		1.82	28.86	11.20	44.0	67	24.8	11.3	280	3.94	22.0	0.6	5.9	3.3	18.7	0.18	1.08	0.39	89	0.24	0.046
1731200	Soil		1.51	29.11	4.85	44.7	121	18.0	12.6	683	2.23	11.9	0.7	2.1	0.9	31.1	0.20	0.56	0.16	41	0.48	0.078
1731201	Soil		0.49	18.42	3.40	36.4	87	11.2	5.3	254	1.42	3.9	0.7	<0.2	0.7	20.8	0.15	0.23	0.08	30	0.25	0.054
1731202	Soil		0.72	23.46	3.56	47.0	94	13.7	9.5	490	1.67	5.4	0.6	1.0	0.8	23.6	0.20	0.30	0.10	35	0.28	0.061
1731203	Soil		0.63	25.02	6.95	67.8	115	23.2	9.2	207	2.45	8.7	1.0	2.8	1.7	25.1	0.18	0.39	0.23	55	0.33	0.067
1731204	Soil		0.62	25.63	4.62	41.7	111	12.4	6.2	211	1.43	4.7	0.7	0.7	0.5	22.9	0.20	0.34	0.14	25	0.25	0.062
1731205	Soil		0.88	40.28	8.66	70.5	161	34.5	11.7	247	2.94	16.0	1.0	5.1	2.9	25.2	0.11	0.83	0.27	62	0.33	0.073
1731206	Soil		1.10	27.88	7.57	51.4	162	21.5	11.8	366	2.73	30.3	0.8	7.0	1.7	25.1	0.10	1.10	0.50	50	0.32	0.068
1731207	Soil		1.10	28.54	6.11	25.0	207	11.0	9.7	363	1.42	34.4	0.4	6.1	0.4	16.2	0.16	0.89	0.67	34	0.16	0.053
1731208	Soil		1.51	50.32	7.97	53.6	387	27.2	11.3	261	2.65	41.0	1.0	9.1	1.3	30.9	0.19	1.24	2.32	55	0.33	0.072
1731209	Soil		0.57	26.16	3.39	20.0	455	8.5	4.6	195	1.07	48.0	0.7	7.1	0.3	19.5	0.20	0.83	0.31	22	0.19	0.050
1731210	Soil Pulp		1.05	21.60	0.87	20.6	811	7.0	4.3	101	1.49	1.4	0.2	109.5	0.4	14.9	0.01	1.12	1.65	26	0.31	0.028

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 12, 2013

Page: 3 of 4

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000202.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
1731181	Soil	8.9	27.0	0.44	117.2	0.092	<1	1.28	0.023	0.05	<0.1	3.2	0.06	0.02	16	0.4	0.02	4.5	1.11	<0.1	0.03
1731182	Soil	15.9	46.6	0.71	200.2	0.127	2	2.24	0.018	0.08	0.2	6.7	0.13	<0.02	38	0.7	<0.02	6.8	1.82	<0.1	0.06
1731183	Soil	11.7	32.0	0.61	130.4	0.073	2	1.90	0.008	0.09	0.1	4.0	0.11	0.03	26	0.4	0.03	5.8	1.79	<0.1	0.04
1731184	Soil	8.9	29.0	0.46	123.2	0.070	3	1.97	0.006	0.06	0.1	3.2	0.09	0.02	28	<0.1	<0.02	7.5	1.32	<0.1	0.04
1731185	Soil	7.4	34.5	0.60	87.6	0.125	1	2.09	0.005	0.09	0.1	3.4	0.10	0.02	16	0.2	0.03	9.1	1.47	<0.1	0.07
1731186	Soil	4.3	12.8	0.18	53.7	0.045	<1	0.74	0.018	0.03	0.1	1.1	0.04	0.03	13	<0.1	<0.02	4.4	0.72	0.1	<0.02
1731187	Soil	1.1	2.9	0.02	20.7	0.023	1	0.43	0.027	0.03	<0.1	0.5	<0.02	0.03	21	<0.1	<0.02	1.9	0.06	<0.1	<0.02
1731188	Soil	6.2	15.5	0.24	70.3	0.051	1	0.99	0.022	0.05	0.1	2.1	0.08	0.05	37	0.8	0.13	3.6	0.82	<0.1	<0.02
1731189	Soil	7.3	28.3	0.44	99.2	0.061	<1	1.25	0.019	0.06	<0.1	2.3	0.10	0.04	25	0.3	<0.02	5.3	1.32	<0.1	<0.02
1731190 Stream-12	Soil Pulp	11.4	49.7	1.26	198.1	0.137	4	1.90	0.089	0.22	0.8	5.9	0.10	0.10	43	0.6	<0.02	5.8	0.93	0.2	0.04
1731191	Soil	8.4	36.3	0.69	111.6	0.090	<1	1.52	0.022	0.10	0.1	3.2	0.13	0.04	26	0.2	0.02	5.6	1.39	<0.1	0.03
1731192	Soil	10.0	32.8	0.61	150.5	0.079	<1	1.71	0.015	0.08	0.1	3.6	0.10	0.03	38	0.3	0.03	4.7	1.09	0.2	0.05
1731193	Soil	12.0	35.2	0.68	245.6	0.080	<1	1.72	0.017	0.09	<0.1	3.9	0.12	0.03	35	0.4	0.03	5.7	1.30	0.1	0.03
1731194	Soil	8.8	28.8	0.48	140.4	0.068	<1	1.18	0.024	0.07	0.1	2.6	0.08	0.04	24	0.4	0.03	4.4	1.05	<0.1	0.03
1731195	Soil	10.2	32.5	0.50	128.4	0.076	<1	1.48	0.021	0.11	0.1	3.8	0.10	0.04	34	0.2	0.03	4.5	1.02	<0.1	0.06
1731196	Soil	9.4	21.1	0.33	120.1	0.055	<1	1.09	0.030	0.08	<0.1	2.6	0.08	0.03	34	0.2	0.04	3.9	1.04	<0.1	<0.02
1731197	Soil	4.9	18.6	0.28	88.2	0.055	<1	0.90	0.029	0.06	<0.1	1.7	0.08	0.04	30	<0.1	<0.02	4.1	0.87	<0.1	<0.02
1731198	Soil	9.9	40.9	0.75	149.4	0.091	<1	1.78	0.019	0.10	0.1	4.1	0.13	0.05	43	0.4	0.03	5.7	1.43	<0.1	0.03
1731199	Soil	10.3	38.5	0.59	109.2	0.108	<1	2.03	0.007	0.08	<0.1	3.2	0.10	<0.02	24	0.3	<0.02	8.5	1.39	<0.1	0.04
1731200	Soil	7.6	24.1	0.38	123.7	0.050	<1	1.04	0.023	0.06	<0.1	2.4	0.08	0.06	46	0.3	<0.02	3.9	0.84	<0.1	<0.02
1731201	Soil	6.1	16.2	0.26	81.5	0.055	<1	0.73	0.030	0.04	<0.1	1.7	0.06	0.04	20	0.4	<0.02	3.0	0.72	<0.1	<0.02
1731202	Soil	7.2	21.3	0.32	100.2	0.059	3	0.88	0.030	0.05	<0.1	1.9	0.07	0.05	22	0.3	<0.02	3.3	0.81	<0.1	<0.02
1731203	Soil	9.8	36.9	0.62	114.5	0.088	<1	1.53	0.019	0.06	<0.1	3.5	0.11	0.05	33	0.3	0.02	5.8	1.36	<0.1	0.03
1731204	Soil	6.8	21.2	0.32	84.9	0.042	<1	1.09	0.022	0.04	<0.1	2.0	0.08	0.05	43	0.3	0.03	3.9	1.12	<0.1	<0.02
1731205	Soil	10.2	44.2	0.83	121.3	0.094	<1	2.04	0.012	0.09	0.1	4.0	0.16	0.04	48	0.5	<0.02	6.4	1.53	<0.1	0.05
1731206	Soil	8.9	31.0	0.60	101.6	0.088	<1	1.77	0.017	0.07	0.1	3.3	0.12	0.04	42	0.2	<0.02	5.3	1.34	<0.1	0.03
1731207	Soil	5.1	15.1	0.22	60.8	0.046	<1	0.81	0.025	0.05	<0.1	1.7	0.08	0.03	23	0.1	<0.02	3.7	0.98	<0.1	<0.02
1731208	Soil	10.7	33.5	0.55	134.0	0.071	<1	1.91	0.016	0.10	0.1	3.8	0.12	0.05	53	0.3	0.05	5.9	1.65	<0.1	0.03
1731209	Soil	5.7	11.2	0.15	63.3	0.032	<1	0.66	0.030	0.04	<0.1	1.4	0.05	0.05	22	0.4	<0.02	2.6	0.56	<0.1	<0.02
1731210	Soil Pulp	2.6	6.1	0.08	13.8	0.209	<1	0.26	0.070	0.05	0.2	0.5	0.08	<0.02	<5	0.2	<0.02	1.3	2.19	<0.1	0.33

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 12, 2013

Page: 3 of 4

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000202.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731181	Soil	0.71	8.1	1.0	<0.05	1.9	4.20	18.7	<0.02	<1	0.3	9.2	<10	<2	9.0
1731182	Soil	1.07	13.3	0.9	<0.05	4.4	8.24	34.2	0.03	1	0.3	17.2	<10	<2	9.0
1731183	Soil	1.14	12.5	0.7	<0.05	1.8	4.01	22.0	0.02	<1	0.4	14.7	<10	<2	11.5
1731184	Soil	1.25	10.1	1.4	<0.05	1.9	3.30	20.2	<0.02	<1	0.5	17.2	<10	<2	12.5
1731185	Soil	1.68	10.8	0.8	<0.05	3.9	2.91	14.5	0.03	<1	0.4	19.4	<10	<2	11.8
1731186	Soil	0.56	5.5	0.8	<0.05	0.9	1.85	8.6	<0.02	<1	0.2	5.9	<10	<2	14.1
1731187	Soil	0.37	0.8	0.2	<0.05	0.5	0.53	2.1	<0.02	<1	<0.1	0.2	<10	<2	14.6
1731188	Soil	0.63	7.3	0.5	<0.05	0.9	3.01	13.6	<0.02	<1	0.3	6.0	<10	<2	18.4
1731189	Soil	0.92	12.3	0.6	<0.05	1.0	2.78	13.8	<0.02	<1	0.2	9.7	<10	<2	17.5
1731190 Stream-12	Soil Pulp	0.67	10.2	2.0	<0.05	1.8	9.29	21.6	0.05	<1	0.1	13.6	15	<2	6.5
1731191	Soil	1.33	16.6	0.8	<0.05	1.5	3.64	16.5	<0.02	<1	0.2	15.1	<10	<2	15.2
1731192	Soil	1.08	13.1	0.6	<0.05	2.0	4.71	18.7	<0.02	<1	0.1	14.1	<10	<2	11.5
1731193	Soil	1.49	13.7	0.6	<0.05	2.3	5.45	23.5	<0.02	<1	0.2	16.1	<10	<2	15.0
1731194	Soil	1.15	10.0	1.0	<0.05	1.6	3.63	16.3	<0.02	<1	0.2	10.9	<10	<2	17.7
1731195	Soil	1.22	13.2	0.5	<0.05	2.9	6.04	19.6	0.02	<1	0.2	12.3	<10	<2	13.2
1731196	Soil	0.70	8.9	0.5	<0.05	1.2	7.00	15.7	<0.02	<1	0.4	8.3	<10	<2	13.7
1731197	Soil	0.63	8.7	0.6	<0.05	0.9	2.52	9.7	<0.02	<1	<0.1	6.5	<10	<2	15.3
1731198	Soil	1.39	16.7	0.9	<0.05	2.1	4.98	18.5	0.02	<1	0.3	16.4	<10	<2	15.9
1731199	Soil	1.76	11.4	2.1	<0.05	3.3	4.01	22.2	0.02	<1	0.4	16.0	<10	<2	12.6
1731200	Soil	0.95	9.6	1.0	<0.05	1.3	4.51	14.6	<0.02	<1	0.2	9.3	<10	<2	22.9
1731201	Soil	0.79	7.2	2.0	<0.05	1.2	3.40	11.2	<0.02	<1	0.2	5.7	<10	<2	16.5
1731202	Soil	0.79	8.3	0.7	<0.05	1.3	4.20	14.2	<0.02	1	0.2	7.3	<10	<2	17.1
1731203	Soil	1.46	12.6	0.9	<0.05	1.8	5.14	18.8	0.02	<1	<0.1	13.9	<10	<2	20.7
1731204	Soil	0.79	7.7	1.6	<0.05	1.1	3.21	14.3	<0.02	<1	0.3	9.6	<10	<2	23.2
1731205	Soil	1.58	16.2	1.2	<0.05	2.6	4.72	21.4	0.02	<1	0.3	21.9	<10	<2	15.0
1731206	Soil	1.09	10.6	0.7	<0.05	2.2	4.18	17.1	<0.02	<1	0.4	13.1	<10	<2	16.0
1731207	Soil	0.59	7.5	0.5	<0.05	0.8	2.49	10.7	<0.02	<1	0.2	6.2	<10	<2	15.7
1731208	Soil	1.27	13.4	1.1	<0.05	2.1	5.41	21.0	<0.02	<1	0.7	14.1	<10	<2	23.0
1731209	Soil	0.41	4.9	0.5	<0.05	0.9	3.10	11.0	<0.02	<1	0.4	3.6	<10	<2	16.5
1731210	Soil Pulp	0.23	10.2	0.2	<0.05	13.2	6.72	6.1	<0.02	<1	0.1	5.7	<10	2	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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 12, 2013

Page: 4 of 4

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000202.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1731211	Soil	1.37	27.20	8.11	35.4	192	15.2	18.7	1525	3.51	168.3	0.6	13.2	1.4	25.7	0.43	4.16	0.37	36	0.27	0.064
1731212	Soil	1.25	33.48	10.14	45.9	128	17.3	11.2	249	2.77	110.3	0.8	14.6	2.4	21.7	0.22	3.38	0.24	49	0.22	0.052
1731213	Soil	1.25	32.54	6.87	54.4	111	26.4	12.4	200	3.34	32.0	0.8	5.1	4.3	24.5	0.22	2.65	0.18	57	0.35	0.067
1731214	Soil	1.17	28.42	3.90	23.8	93	9.7	4.6	161	1.12	6.4	0.5	2.0	0.2	19.6	0.16	0.54	0.11	25	0.17	0.049
1731215	Soil	1.12	27.36	7.11	39.3	97	16.9	8.1	353	1.91	22.3	0.6	5.9	1.1	22.0	0.32	2.77	0.24	42	0.18	0.062
1731216	Soil	2.24	35.35	11.22	57.4	296	25.5	10.7	459	3.14	13.2	0.6	3.6	2.1	21.2	0.49	1.14	0.24	74	0.18	0.029
1731217	Soil	2.47	34.24	8.07	107.2	349	25.8	8.3	175	2.72	8.0	1.4	4.4	2.4	25.9	0.79	0.54	0.18	72	0.31	0.083
1731218	Soil	2.28	32.11	7.83	100.9	334	24.7	8.3	178	2.63	7.1	1.3	20.2	2.3	24.9	0.71	0.54	0.16	69	0.31	0.085



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 12, 2013

Page: 4 of 4

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000202.1

	Method	1F30																			
		Analyte																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
1731211	Soil	8.4	21.4	0.27	126.9	0.038	<1	1.11	0.023	0.05	<0.1	2.7	0.07	0.05	31	0.8	0.06	3.4	0.90	<0.1	<0.02
1731212	Soil	9.8	30.6	0.41	114.0	0.063	<1	1.59	0.019	0.06	<0.1	4.2	0.11	0.02	35	0.5	0.05	4.8	1.10	<0.1	0.02
1731213	Soil	14.7	38.4	0.67	136.7	0.096	<1	1.81	0.016	0.10	0.1	4.4	0.11	<0.02	17	0.3	<0.02	5.4	1.26	0.1	0.06
1731214	Soil	5.2	11.0	0.13	69.4	0.028	<1	0.74	0.022	0.04	<0.1	0.9	0.05	0.03	21	0.3	0.02	2.8	0.73	<0.1	<0.02
1731215	Soil	8.0	24.4	0.37	112.7	0.077	2	1.08	0.024	0.10	0.1	2.3	0.08	0.03	27	0.2	0.07	4.3	1.39	<0.1	0.02
1731216	Soil	10.2	33.0	0.46	122.3	0.096	2	1.53	0.013	0.07	<0.1	3.0	0.09	<0.02	30	0.2	0.05	7.2	1.71	<0.1	0.03
1731217	Soil	12.1	41.1	0.59	202.3	0.111	<1	1.76	0.014	0.06	0.1	4.1	0.12	0.03	50	2.0	0.07	5.7	1.25	<0.1	0.04
1731218	Soil	11.4	38.2	0.57	193.2	0.101	1	1.67	0.012	0.05	0.2	4.0	0.11	0.03	50	1.6	0.05	5.6	1.18	<0.1	0.04



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 12, 2013

Page: 4 of 4

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000202.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731211	Soil	0.65	7.2	1.5	<0.05	1.5	5.34	15.6	<0.02	<1	0.2	6.7	<10	<2	15.1
1731212	Soil	0.83	9.7	0.8	<0.05	1.7	5.11	21.1	<0.02	<1	0.3	11.4	<10	<2	12.2
1731213	Soil	0.91	11.0	0.7	<0.05	4.1	7.92	29.5	0.03	<1	0.5	13.2	<10	<2	7.2
1731214	Soil	0.37	5.7	0.8	<0.05	0.6	2.82	9.8	<0.02	<1	<0.1	4.2	<10	<2	16.7
1731215	Soil	0.91	9.8	2.1	<0.05	1.3	3.41	16.0	0.02	<1	0.4	7.8	<10	<2	10.3
1731216	Soil	1.08	11.3	2.1	<0.05	2.1	3.87	20.9	0.02	<1	0.6	12.5	<10	<2	9.9
1731217	Soil	1.43	8.7	1.2	<0.05	2.8	6.24	23.7	0.03	2	0.2	13.8	<10	<2	12.0
1731218	Soil	1.23	8.2	1.4	<0.05	2.5	5.99	22.1	<0.02	3	0.3	13.2	<10	<2	11.5

# QUALITY CONTROL REPORT

WHI13000202.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1731159	Soil	0.34	18.21	2.32	23.7	52	7.8	3.8	204	0.98	2.2	0.3	1.6	0.3	22.9	0.05	0.15	0.05	24	0.27	0.051
REP 1731159	QC	0.27	18.66	2.26	21.2	55	7.2	3.3	204	0.93	2.1	0.3	1.2	0.3	22.5	0.06	0.17	0.02	24	0.27	0.049
1731177	Soil	1.66	39.34	9.73	53.1	216	22.4	10.1	269	3.41	26.3	0.8	3.6	1.9	18.8	0.23	4.41	0.28	66	0.13	0.051
REP 1731177	QC	1.70	40.29	9.78	50.2	200	23.0	10.1	278	3.39	27.1	0.9	3.5	1.9	18.6	0.24	4.65	0.30	66	0.13	0.052
1731183	Soil	1.11	30.83	11.48	55.5	235	23.6	9.9	283	3.17	153.1	0.6	35.6	2.3	22.4	0.22	3.55	0.40	59	0.26	0.051
REP 1731183	QC																				
1731191	Soil	0.68	24.88	5.47	58.7	140	24.7	9.6	201	2.52	10.5	0.7	6.4	1.6	22.4	0.12	0.49	0.21	50	0.29	0.059
REP 1731191	QC	0.73	25.34	5.45	58.5	152	23.9	9.7	202	2.54	11.5	0.7	10.9	1.6	23.2	0.12	0.47	0.21	51	0.31	0.064
1731205	Soil	0.88	40.28	8.66	70.5	161	34.5	11.7	247	2.94	16.0	1.0	5.1	2.9	25.2	0.11	0.83	0.27	62	0.33	0.073
REP 1731205	QC																				
1731209	Soil	0.57	26.16	3.39	20.0	455	8.5	4.6	195	1.07	48.0	0.7	7.1	0.3	19.5	0.20	0.83	0.31	22	0.19	0.050
REP 1731209	QC	0.62	23.64	3.38	19.4	407	8.4	4.1	188	1.08	45.0	0.6	4.8	0.2	18.8	0.13	0.75	0.30	22	0.16	0.047
1731216	Soil	2.24	35.35	11.22	57.4	296	25.5	10.7	459	3.14	13.2	0.6	3.6	2.1	21.2	0.49	1.14	0.24	74	0.18	0.029
REP 1731216	QC	2.40	37.20	11.84	59.2	325	27.1	11.8	473	3.28	14.3	0.7	44.9	2.1	21.9	0.48	1.30	0.23	76	0.20	0.031
Reference Materials																					
STD DOLOMITE-2	Standard																				
STD DOLOMITE-2	Standard																				
STD DS9	Standard	12.77	110.2	142.1	323.8	1853	42.6	8.2	609	2.37	26.7	3.2	122.1	7.2	75.1	2.46	6.42	6.83	39	0.71	0.086
STD DS9	Standard	12.63	103.0	114.0	299.9	1770	37.9	7.2	524	2.37	24.0	2.4	105.0	5.8	66.8	2.21	5.27	6.03	38	0.75	0.078
STD DS9	Standard	13.71	111.9	130.1	323.7	1972	42.4	7.6	598	2.39	26.8	3.0	116.8	7.0	80.4	2.45	6.14	7.19	39	0.76	0.086
STD DOLOMITE-2 Expected																					
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	0.03	<0.01	<0.1	6	0.2	<0.1	1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.5	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	6	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

# QUALITY CONTROL REPORT

WHI13000202.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1731159	Soil	3.9	9.3	0.17	72.4	0.041	1	0.64	0.034	0.04	<0.1	1.0	0.05	0.04	14	0.2	<0.02	2.4	0.40	<0.1	<0.02
REP 1731159	QC	3.7	9.4	0.16	69.2	0.042	1	0.61	0.034	0.04	<0.1	1.1	0.04	0.04	<5	<0.1	<0.02	2.1	0.39	<0.1	<0.02
1731177	Soil	10.5	32.0	0.47	94.0	0.076	<1	1.75	0.016	0.06	0.1	3.1	0.08	0.06	37	0.5	0.04	6.6	1.45	<0.1	0.03
REP 1731177	QC	10.6	31.8	0.47	93.8	0.078	<1	1.75	0.016	0.06	0.1	3.1	0.09	0.06	39	0.3	<0.02	6.3	1.47	<0.1	0.04
1731183	Soil	11.7	32.0	0.61	130.4	0.073	2	1.90	0.008	0.09	0.1	4.0	0.11	0.03	26	0.4	0.03	5.8	1.79	<0.1	0.04
REP 1731183	QC																				
1731191	Soil	8.4	36.3	0.69	111.6	0.090	<1	1.52	0.022	0.10	0.1	3.2	0.13	0.04	26	0.2	0.02	5.6	1.39	<0.1	0.03
REP 1731191	QC	8.5	36.1	0.69	111.3	0.093	<1	1.54	0.023	0.10	<0.1	3.4	0.13	0.04	28	0.3	<0.02	5.4	1.40	<0.1	0.03
1731205	Soil	10.2	44.2	0.83	121.3	0.094	<1	2.04	0.012	0.09	0.1	4.0	0.16	0.04	48	0.5	<0.02	6.4	1.53	<0.1	0.05
REP 1731205	QC																				
1731209	Soil	5.7	11.2	0.15	63.3	0.032	<1	0.66	0.030	0.04	<0.1	1.4	0.05	0.05	22	0.4	<0.02	2.6	0.56	<0.1	<0.02
REP 1731209	QC	5.1	10.5	0.13	59.3	0.034	<1	0.66	0.030	0.05	<0.1	1.3	0.04	0.05	11	<0.1	<0.02	2.1	0.57	<0.1	<0.02
1731216	Soil	10.2	33.0	0.46	122.3	0.096	2	1.53	0.013	0.07	<0.1	3.0	0.09	<0.02	30	0.2	0.05	7.2	1.71	<0.1	0.03
REP 1731216	QC	11.5	35.0	0.45	128.5	0.116	1	1.55	0.013	0.07	0.1	3.3	0.10	<0.02	34	0.2	0.10	8.0	1.94	<0.1	0.05
Reference Materials																					
STD DOLOMITE-2	Standard																				
STD DOLOMITE-2	Standard																				
STD DS9	Standard	13.8	123.6	0.62	307.8	0.122	2	0.93	0.085	0.40	3.2	2.7	5.57	0.16	222	5.5	5.49	4.8	2.49	0.2	0.06
STD DS9	Standard	12.6	110.5	0.63	275.6	0.103	1	1.00	0.100	0.43	2.8	2.4	4.98	0.16	201	5.1	4.92	4.6	2.27	0.2	0.05
STD DS9	Standard	14.9	120.4	0.63	314.0	0.125	2	0.97	0.087	0.41	3.3	2.6	5.49	0.16	215	5.3	5.13	4.7	2.50	0.1	0.09
STD DOLOMITE-2 Expected																					
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

## QUALITY CONTROL REPORT

WHI13000202.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
Pulp Duplicates															
1731159	Soil	0.41	3.2	<0.1	<0.05	1.2	2.23	7.8	<0.02	<1	0.2	3.3	<10	<2	13.4
REP 1731159	QC	0.35	3.4	<0.1	<0.05	1.0	2.13	7.1	<0.02	<1	<0.1	3.1	<10	7	
1731177	Soil	1.24	9.8	1.1	<0.05	2.4	4.00	22.6	0.02	<1	0.4	13.2	<10	<2	15.0
REP 1731177	QC	1.22	9.8	0.6	<0.05	2.4	3.92	23.0	0.02	<1	0.6	13.2	<10	3	
1731183	Soil	1.14	12.5	0.7	<0.05	1.8	4.01	22.0	0.02	<1	0.4	14.7	<10	<2	11.5
REP 1731183	QC														11.7
1731191	Soil	1.33	16.6	0.8	<0.05	1.5	3.64	16.5	<0.02	<1	0.2	15.1	<10	<2	15.2
REP 1731191	QC	1.45	18.0	0.7	<0.05	1.5	3.61	17.2	<0.02	<1	0.2	15.3	<10	<2	
1731205	Soil	1.58	16.2	1.2	<0.05	2.6	4.72	21.4	0.02	<1	0.3	21.9	<10	<2	15.0
REP 1731205	QC														15.1
1731209	Soil	0.41	4.9	0.5	<0.05	0.9	3.10	11.0	<0.02	<1	0.4	3.6	<10	<2	16.5
REP 1731209	QC	0.34	5.6	0.4	<0.05	0.5	2.95	10.0	<0.02	<1	<0.1	3.2	<10	<2	
1731216	Soil	1.08	11.3	2.1	<0.05	2.1	3.87	20.9	0.02	<1	0.6	12.5	<10	<2	9.9
REP 1731216	QC	1.28	12.1	2.0	<0.05	2.4	4.14	22.5	<0.02	5	0.4	13.3	<10	<2	
Reference Materials															
STD DOLOMITE-2	Standard														46.0
STD DOLOMITE-2	Standard														45.9
STD DS9	Standard	1.42	35.1	6.1	<0.05	2.0	6.27	26.2	2.40	62	5.9	25.6	110	368	
STD DS9	Standard	1.38	33.3	6.2	<0.05	1.7	5.80	22.6	2.14	60	4.6	24.3	104	319	
STD DS9	Standard	1.60	36.0	7.4	<0.05	2.1	6.55	27.8	2.39	59	5.8	25.7	130	354	
STD DOLOMITE-2 Expected															45.9
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Teck Resources Limited
Suite 3300, 550 Burrard St.
Vancouver BC V6C 0B3 CANADA

Submitted By: Michael Buchanan and Rupa Mukherjee
Receiving Lab: Canada-Whitehorse
Received: August 23, 2013
Report Date: September 04, 2013
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI13000327.1

CLIENT JOB INFORMATION

Project: 210800
Shipment ID: YTG\_WLF\_2013\_016
P.O. Number
Number of Samples: 131

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: Teck Resources Limited
Suite 3300, 550 Burrard St.
Vancouver BC V6C 0B3
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include procedures like 'Dry at 60C', 'SS80', 'RJSV', '1F06', and '2A05'.

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 2 of 6 Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method Analyte	Unit	MDL	1F30 Mo	1F30 Cu	1F30 Pb	1F30 Zn	1F30 Ag	1F30 Ni	1F30 Co	1F30 Mn	1F30 Fe	1F30 As	1F30 U	1F30 Au	1F30 Th	1F30 Sr	1F30 Cd	1F30 Sb	1F30 Bi	1F30 V	1F30 Ca	1F30 P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1731219	Soil		1.22	30.38	11.05	78.5	315	27.2	9.1	460	2.87	26.8	0.9	7.5	0.8	36.5	0.38	0.65	0.30	63	0.47	0.077
1731220	Soil		0.97	21.17	6.98	51.2	209	18.9	7.3	410	2.27	21.7	0.8	6.7	0.9	33.9	0.16	0.70	0.25	50	0.47	0.058
1731221	Soil		0.97	22.78	8.19	53.7	130	15.2	6.9	343	1.84	8.0	0.6	3.1	0.8	26.0	0.38	0.33	0.18	42	0.44	0.036
1731222	Soil		1.10	26.12	8.16	46.0	142	18.3	7.8	399	2.02	8.5	1.0	5.9	0.7	31.8	0.25	0.39	0.19	45	0.55	0.053
1731223	Soil		1.14	34.12	5.33	44.5	158	21.7	7.7	304	2.29	8.4	0.7	2.5	0.9	32.9	0.49	0.47	0.16	53	0.47	0.039
1731224	Soil		1.10	18.97	5.80	36.4	52	15.8	7.2	343	1.95	6.8	0.6	2.8	1.1	18.0	0.24	0.30	0.18	45	0.22	0.036
1731225	Soil		0.78	29.48	8.30	78.3	115	37.4	16.2	336	3.36	8.2	0.8	5.5	4.5	31.9	0.11	0.38	0.17	71	0.68	0.073
1731226	Soil		0.54	25.12	7.43	94.4	137	37.7	14.9	535	3.03	8.7	0.7	2.8	3.6	45.9	0.19	0.39	0.15	67	0.90	0.069
1731227	Soil		1.88	36.84	8.34	86.1	246	49.6	22.0	659	4.44	18.3	1.1	6.2	4.8	30.1	0.24	0.42	0.19	79	0.67	0.074
1731228	Soil		0.92	31.51	8.99	68.8	101	50.9	17.1	543	3.80	11.6	0.7	3.7	3.9	20.9	0.19	0.47	0.14	71	0.45	0.083
1731229	Soil		0.38	28.36	6.87	79.0	100	39.9	11.3	379	2.72	5.9	0.6	4.6	3.2	25.9	0.12	0.64	0.14	61	0.47	0.070
1731230	Rock Pulp		1.10	17.40	0.78	19.7	843	6.8	3.8	96	1.64	0.7	0.2	114.6	0.3	14.8	0.01	1.10	1.73	29	0.36	0.027
1731231	Soil		0.62	68.00	6.97	82.9	167	50.7	13.8	342	3.26	9.8	1.6	98.7	3.4	34.2	0.29	0.66	0.15	77	0.66	0.086
1731232	Soil		0.59	42.22	7.10	79.0	126	49.9	15.9	341	3.20	9.4	1.0	3.6	3.5	29.9	0.22	0.56	0.15	75	0.70	0.075
1731233	Soil		1.04	23.30	9.06	83.3	142	34.0	14.0	443	3.48	16.4	0.9	6.7	3.3	28.9	0.16	0.93	0.24	71	0.56	0.083
1731234	Soil		2.81	56.36	7.48	122.3	463	40.6	13.5	327	4.41	5.4	2.4	16.2	3.5	32.0	0.37	0.36	0.16	115	0.50	0.135
1731235	Soil		4.64	106.1	10.20	115.8	387	82.9	18.1	576	4.33	16.1	2.1	4.9	4.2	26.7	0.39	1.23	0.61	59	0.30	0.131
1731236	Soil		1.40	43.25	11.55	89.6	283	42.3	18.1	673	3.93	67.5	1.2	34.1	5.4	34.2	0.28	9.18	0.58	69	0.49	0.075
1731237	Soil		2.07	55.04	20.41	70.6	315	30.4	11.3	261	2.96	167.0	1.4	24.4	3.0	31.2	0.33	4.66	0.51	62	0.35	0.083
1731238	Soil		1.12	30.03	5.65	76.9	66	35.4	15.4	899	3.15	12.9	0.5	2.6	2.2	29.3	0.15	0.50	0.11	71	0.59	0.086
1731239	Soil		0.83	31.69	10.14	110.1	240	36.6	10.9	296	3.42	17.3	0.9	4.5	3.7	26.5	0.29	0.72	0.26	75	0.46	0.086
1731240	Soil		0.48	23.74	4.37	54.9	75	24.2	7.5	282	1.76	6.5	0.7	3.3	1.2	30.1	0.11	0.50	0.11	38	0.60	0.061
1731241	Soil		0.47	33.96	5.13	65.6	175	27.5	7.9	285	1.98	8.2	1.1	6.4	2.1	35.3	0.17	0.62	0.22	44	0.67	0.070
1731242	Soil		0.59	22.31	4.34	63.2	177	22.6	9.7	476	2.47	12.5	0.9	19.8	2.7	27.8	0.11	0.46	0.19	63	0.60	0.086
1731243	Soil		0.61	34.68	8.22	81.6	149	40.0	14.9	375	3.15	13.8	1.2	10.5	4.4	32.5	0.11	0.57	0.29	70	0.66	0.076
1731244	Soil		0.52	40.11	8.30	84.6	137	39.6	13.1	383	2.94	10.7	1.2	6.5	4.7	32.0	0.17	0.63	0.36	70	0.69	0.071
1731245	Soil		0.30	26.81	5.37	61.5	93	28.5	9.1	250	2.02	6.2	0.8	2.9	2.4	33.7	0.11	0.38	0.19	49	0.70	0.069
1731246	Soil		0.50	32.70	5.82	69.2	115	30.5	9.3	252	2.11	7.0	0.7	7.0	1.9	35.2	0.15	0.37	0.20	51	0.75	0.065
1731247	Soil		0.77	30.52	5.33	62.7	96	29.2	11.0	493	2.44	10.7	0.7	3.4	1.9	35.9	0.09	0.39	0.19	53	0.73	0.061
1731248	Soil		0.53	29.58	5.70	60.6	126	30.6	10.3	467	2.39	7.2	0.6	4.1	2.0	33.7	0.12	0.36	0.16	53	0.86	0.068

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 2 of 6

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
1731219	Soil	10.0	33.9	0.60	320.3	0.057	3	2.39	0.022	0.08	0.1	4.1	0.13	0.04	36	0.3	0.04	7.9	2.84	<0.1	0.06
1731220	Soil	10.3	25.9	0.49	313.4	0.055	3	1.86	0.027	0.07	0.1	3.2	0.10	0.04	27	0.2	0.04	5.9	3.40	<0.1	0.06
1731221	Soil	5.4	18.2	0.33	169.3	0.053	3	1.32	0.035	0.05	<0.1	2.1	0.07	0.03	20	0.2	<0.02	5.2	1.20	<0.1	0.06
1731222	Soil	9.1	22.5	0.34	235.4	0.056	3	1.63	0.032	0.06	<0.1	2.8	0.07	0.05	35	0.3	0.04	5.2	1.41	<0.1	0.05
1731223	Soil	11.1	23.9	0.45	240.9	0.067	3	1.48	0.030	0.06	0.1	3.0	0.07	0.04	20	0.2	0.03	6.0	1.21	<0.1	0.05
1731224	Soil	6.7	22.0	0.35	127.3	0.065	3	1.50	0.031	0.06	<0.1	2.6	0.08	0.02	37	0.2	0.02	5.9	1.49	<0.1	0.05
1731225	Soil	15.2	58.0	1.04	185.9	0.152	2	2.11	0.027	0.17	0.1	5.9	0.22	0.02	13	0.3	0.03	7.4	1.88	<0.1	0.07
1731226	Soil	13.0	50.5	0.97	220.4	0.129	3	1.93	0.031	0.17	0.1	5.7	0.17	0.04	20	0.3	0.04	6.9	1.55	<0.1	0.07
1731227	Soil	15.7	60.4	1.14	212.9	0.149	2	2.33	0.027	0.16	0.1	6.3	0.20	0.03	17	0.5	0.04	7.7	1.86	<0.1	0.06
1731228	Soil	12.2	61.4	1.09	180.8	0.166	2	2.78	0.021	0.19	0.1	5.6	0.18	<0.02	16	0.3	0.05	7.6	1.85	<0.1	0.10
1731229	Soil	11.2	52.8	0.99	162.3	0.150	2	2.22	0.024	0.15	0.1	5.1	0.16	<0.02	34	0.2	0.03	7.1	1.46	<0.1	0.07
1731230	Rock Pulp	2.5	6.9	0.09	15.8	0.216	2	0.37	0.081	0.06	0.2	0.8	0.10	<0.02	<5	<0.1	<0.02	1.6	2.41	<0.1	0.45
1731231	Soil	22.1	56.0	1.11	208.3	0.145	3	2.32	0.032	0.17	<0.1	8.4	0.22	0.03	71	0.6	0.03	7.5	1.66	<0.1	0.08
1731232	Soil	14.4	58.6	1.08	186.9	0.159	2	2.14	0.034	0.15	<0.1	7.4	0.20	0.02	25	0.4	<0.02	6.8	1.47	0.1	0.12
1731233	Soil	12.9	52.0	0.85	194.5	0.125	2	2.08	0.025	0.12	0.1	5.6	0.16	0.02	33	0.4	0.06	6.8	1.33	<0.1	0.09
1731234	Soil	16.2	59.9	1.23	424.5	0.203	2	2.76	0.018	0.18	0.1	6.2	0.22	0.02	38	1.4	0.08	10.0	2.46	0.1	0.08
1731235	Soil	14.9	25.2	0.47	227.2	0.049	2	1.52	0.013	0.10	0.2	4.2	0.09	0.05	9	2.4	0.17	4.9	2.51	0.1	0.04
1731236	Soil	17.4	45.0	0.84	295.7	0.102	4	2.29	0.031	0.13	0.1	6.8	0.17	0.03	31	0.8	0.15	7.0	4.18	<0.1	0.08
1731237	Soil	13.5	37.1	0.67	171.0	0.091	2	1.93	0.028	0.10	0.1	5.1	0.13	0.03	32	1.1	0.06	6.1	1.72	<0.1	0.06
1731238	Soil	10.1	45.2	0.85	175.5	0.103	2	1.80	0.028	0.11	0.1	4.1	0.13	0.02	15	0.2	0.03	6.1	1.25	<0.1	0.05
1731239	Soil	12.6	50.7	0.95	232.9	0.143	2	2.38	0.022	0.13	0.1	5.6	0.19	0.02	29	0.4	0.04	7.6	1.95	<0.1	0.07
1731240	Soil	7.8	30.0	0.55	149.8	0.077	2	1.48	0.044	0.11	<0.1	3.5	0.13	0.05	22	0.3	0.03	4.4	0.97	<0.1	0.05
1731241	Soil	11.8	33.4	0.60	171.5	0.083	2	1.55	0.036	0.13	<0.1	3.9	0.13	0.06	31	0.4	<0.02	5.4	1.27	<0.1	0.05
1731242	Soil	12.5	29.8	0.53	147.0	0.101	1	1.29	0.028	0.11	0.1	3.3	0.12	0.04	19	0.3	0.03	5.2	1.06	<0.1	0.06
1731243	Soil	15.2	52.0	0.98	203.5	0.139	2	2.13	0.029	0.21	<0.1	6.0	0.20	0.03	24	0.4	0.03	7.1	1.74	<0.1	0.09
1731244	Soil	17.3	53.6	0.98	206.4	0.128	2	2.19	0.029	0.21	0.1	6.8	0.20	0.03	18	0.3	0.03	7.2	1.77	<0.1	0.08
1731245	Soil	11.9	37.3	0.67	162.7	0.089	2	1.53	0.035	0.13	0.1	4.1	0.13	0.04	25	0.2	<0.02	5.4	1.09	<0.1	0.07
1731246	Soil	10.6	38.8	0.68	161.0	0.083	2	1.56	0.037	0.13	0.1	3.8	0.15	0.05	25	0.3	0.02	5.3	1.19	<0.1	0.07
1731247	Soil	10.6	38.6	0.70	162.6	0.086	2	1.55	0.036	0.12	<0.1	4.0	0.13	0.04	22	0.3	0.02	5.3	1.14	<0.1	0.07
1731248	Soil	11.3	38.0	0.75	164.5	0.091	2	1.56	0.036	0.13	<0.1	4.3	0.15	0.04	23	0.3	0.03	5.3	1.18	<0.1	0.08

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 2 of 6

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731219	Soil	1.16	11.2	1.8	<0.05	2.8	6.94	19.4	0.04	<1	0.7	11.4	<10	<2	17.6
1731220	Soil	1.00	9.6	1.5	<0.05	2.9	7.90	19.6	0.03	<1	0.6	9.7	<10	<2	16.0
1731221	Soil	1.10	6.8	0.9	<0.05	2.9	3.54	11.5	0.02	<1	0.3	8.0	<10	<2	13.8
1731222	Soil	1.08	7.2	1.2	<0.05	3.1	7.17	17.6	<0.02	<1	0.4	7.4	<10	<2	18.3
1731223	Soil	1.33	8.1	0.9	<0.05	2.9	6.83	22.1	<0.02	<1	0.5	8.6	<10	<2	17.2
1731224	Soil	1.07	7.3	0.9	<0.05	2.8	3.33	14.0	<0.02	<1	0.3	8.5	<10	<2	12.5
1731225	Soil	2.07	20.5	0.6	<0.05	2.9	6.64	32.0	0.02	<1	0.5	19.9	<10	<2	9.5
1731226	Soil	2.34	20.7	1.1	<0.05	3.8	7.22	26.8	<0.02	<1	0.4	18.5	<10	<2	14.5
1731227	Soil	1.98	20.3	0.8	<0.05	3.3	8.23	32.8	0.03	<1	0.6	24.2	<10	<2	10.0
1731228	Soil	1.88	19.2	1.8	<0.05	5.4	6.11	27.7	0.03	<1	0.6	20.1	<10	<2	8.5
1731229	Soil	1.28	19.6	0.8	<0.05	3.7	5.83	22.3	<0.02	<1	0.4	19.0	<10	<2	7.0
1731230	Rock Pulp	0.24	9.9	0.2	<0.05	17.9	6.70	5.9	<0.02	<1	0.1	5.4	21	<2	0.7
1731231	Soil	1.77	25.2	1.2	<0.05	5.6	19.58	40.8	0.02	<1	0.6	20.1	<10	<2	10.3
1731232	Soil	1.63	18.8	0.8	<0.05	6.3	10.21	30.5	0.02	<1	0.4	17.0	14	<2	8.6
1731233	Soil	1.59	14.8	1.7	<0.05	4.9	6.90	26.5	0.02	<1	0.4	15.6	<10	<2	9.4
1731234	Soil	1.98	16.7	0.9	<0.05	4.3	8.29	30.9	0.03	<1	0.7	22.0	10	<2	8.6
1731235	Soil	0.50	10.1	1.9	<0.05	1.8	10.49	29.6	0.04	<1	0.7	14.0	<10	<2	6.5
1731236	Soil	1.05	14.2	0.9	<0.05	4.9	9.67	35.6	0.04	<1	0.7	16.9	<10	<2	7.9
1731237	Soil	1.36	10.2	0.8	<0.05	3.2	7.70	25.9	0.03	<1	0.5	13.5	<10	<2	7.8
1731238	Soil	1.04	14.2	0.7	<0.05	2.6	5.98	23.6	0.02	<1	0.4	18.8	<10	<2	6.9
1731239	Soil	1.66	18.9	1.0	<0.05	3.2	6.52	24.4	0.03	<1	0.5	20.3	<10	<2	9.5
1731240	Soil	1.23	12.9	0.5	<0.05	3.4	4.84	15.2	<0.02	<1	0.3	11.2	<10	<2	12.5
1731241	Soil	1.71	17.5	0.7	<0.05	3.3	7.15	23.0	<0.02	<1	0.4	13.0	<10	<2	15.3
1731242	Soil	1.27	13.4	0.7	<0.05	2.6	5.94	24.8	<0.02	<1	0.2	9.9	<10	<2	10.0
1731243	Soil	2.07	23.5	1.0	<0.05	4.3	7.56	30.5	0.03	<1	0.5	19.1	<10	<2	9.1
1731244	Soil	1.99	23.8	1.0	<0.05	4.3	8.45	35.3	0.03	<1	0.4	18.3	<10	<2	10.4
1731245	Soil	1.53	15.2	0.8	<0.05	3.8	6.57	23.5	<0.02	<1	0.3	12.6	<10	<2	13.1
1731246	Soil	1.72	17.2	1.2	<0.05	3.4	6.15	21.2	<0.02	<1	0.3	12.4	<10	<2	16.1
1731247	Soil	1.70	16.7	1.4	<0.05	3.2	5.86	20.7	<0.02	<1	0.3	12.9	<10	<2	15.9
1731248	Soil	1.63	15.2	1.3	<0.05	3.8	6.55	22.2	0.02	<1	0.3	12.1	<10	<2	15.6

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.

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1731249	Soil	0.62	32.14	7.10	64.2	126	30.1	9.8	383	2.39	7.9	0.7	2.4	2.0	34.9	0.14	0.35	0.16	56	0.73	0.074
1731250	Rock Pulp	18.83	71.72	212.0	100.0	1271	88.6	35.8	106	0.88	18.4	0.2	167.4	0.1	4.3	0.13	2.04	6.76	<2	0.15	0.011
1731251	Soil	0.42	54.99	9.44	85.7	138	50.4	17.4	255	3.03	10.6	1.1	5.5	5.4	35.4	0.22	0.71	0.31	72	0.59	0.080
1731252	Soil	0.58	36.29	7.65	64.7	139	33.5	12.5	237	2.54	13.3	1.0	7.0	4.1	36.9	0.16	0.62	0.33	55	0.69	0.076
1731253	Soil	0.39	43.10	8.22	73.0	151	40.4	18.2	274	2.84	10.9	0.9	4.3	4.2	32.3	0.25	0.64	0.28	68	0.57	0.075
1731254	Soil	0.58	37.85	8.98	76.1	125	38.9	13.7	349	2.71	10.4	0.9	4.3	3.6	26.7	0.13	0.52	0.22	66	0.44	0.074
1731255	Soil	0.99	34.07	8.00	82.7	128	31.2	12.3	415	2.86	16.0	1.0	5.1	2.4	37.7	0.14	0.52	0.19	64	0.53	0.094
1731256	Soil	0.54	37.43	7.69	67.6	133	28.7	10.1	245	2.62	19.1	0.6	12.4	5.1	37.8	0.17	0.58	0.33	65	0.55	0.088
1731257	Soil	0.67	25.90	7.46	64.3	79	26.9	11.2	373	2.78	24.7	0.7	5.2	4.0	34.0	0.12	0.76	0.23	72	0.49	0.073
1731258	Soil	0.43	25.47	2.52	22.2	131	7.2	3.1	87	1.25	42.9	0.5	4.9	0.5	23.5	0.06	0.44	0.17	36	0.24	0.059
1731259	Soil	1.06	18.74	7.81	33.6	137	10.8	6.7	211	1.49	5.7	0.3	1.1	0.7	18.7	0.16	0.27	0.10	38	0.17	0.028
1731260	Soil	1.69	31.82	6.66	40.8	212	14.1	5.1	168	1.62	8.6	0.8	1.8	0.4	25.9	0.34	0.35	0.13	41	0.22	0.052
1731261	Soil	1.37	18.12	8.31	51.6	268	10.1	5.4	239	1.96	9.7	0.5	2.4	0.4	16.0	0.43	0.42	0.14	50	0.11	0.037
1731262	Soil	1.96	35.54	10.23	59.7	441	16.9	7.8	247	2.93	13.4	0.6	3.9	1.1	18.6	0.61	0.62	0.23	76	0.15	0.039
1731263	Soil	0.97	42.93	13.12	73.6	248	35.0	18.7	472	3.22	8.9	1.9	6.8	3.7	57.2	0.19	0.43	0.16	72	0.42	0.083
1731264	Soil	1.95	24.43	11.72	62.5	156	22.8	9.7	347	3.73	11.3	0.6	2.8	1.0	24.0	0.16	0.54	0.18	86	0.21	0.050
1731265	Soil	1.29	63.26	12.27	90.9	556	39.8	19.7	439	3.76	14.6	1.9	10.7	4.5	65.3	0.24	0.63	0.30	93	0.59	0.101
1731266	Soil	1.15	28.77	18.19	41.9	161	16.0	8.8	318	1.86	6.0	0.5	7.2	0.6	31.0	0.14	0.46	0.08	49	0.32	0.083
1731267	Soil	0.98	31.37	8.75	54.0	265	18.8	10.9	487	1.96	9.0	0.7	3.4	1.1	36.2	0.22	0.50	0.12	49	0.31	0.069
1731268	Soil	1.05	36.42	10.33	75.6	273	25.4	11.0	299	2.74	19.7	0.9	4.8	2.1	25.1	0.26	0.91	0.20	74	0.29	0.080
1731269	Soil	0.29	9.53	1.94	9.9	96	2.8	1.8	97	0.77	3.0	0.3	1.9	0.2	13.8	0.06	0.14	0.04	17	0.14	0.045
1731270	Rock Pulp	1.12	20.94	0.87	19.8	795	6.4	4.2	107	1.49	1.4	0.2	111.6	0.4	16.2	0.02	1.08	1.62	27	0.33	0.028
1731271	Soil	0.79	33.40	7.99	75.2	151	31.2	13.0	432	2.99	43.5	0.9	8.4	3.2	38.0	0.14	0.42	0.24	86	0.44	0.077
1731272	Soil	0.98	31.72	8.57	71.4	179	29.3	9.7	248	2.98	133.3	0.8	9.1	2.5	36.2	0.21	1.12	0.16	81	0.41	0.079
1731273	Soil	1.15	43.21	9.27	55.6	266	27.3	16.7	485	3.22	127.9	1.6	9.3	2.9	30.9	0.12	1.08	0.17	77	0.39	0.086
1731274	Soil	1.32	37.77	8.86	91.3	182	41.9	11.8	409	2.73	235.6	0.9	11.3	2.4	55.4	0.51	1.19	0.22	70	0.43	0.093
1731275	Soil	2.78	39.12	21.68	92.3	443	30.0	10.6	284	3.14	21.3	1.3	12.0	1.3	33.7	0.36	4.47	0.19	79	0.32	0.095
1731276	Soil	0.91	42.69	9.78	68.7	156	41.9	14.6	441	3.31	10.9	0.7	6.7	2.2	33.6	0.12	0.61	0.11	72	0.33	0.074
1731277	Soil	1.97	34.35	11.11	65.2	327	29.6	13.1	584	3.15	14.2	0.7	3.7	0.8	21.8	0.37	0.65	0.17	81	0.22	0.055
1731278	Soil	0.61	12.55	4.24	19.2	88	6.3	3.1	61	1.07	2.4	0.3	2.1	0.1	14.7	0.21	0.23	0.06	29	0.14	0.048

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1731249	Soil	11.1	40.1	0.72	147.0	0.093	2	1.63	0.036	0.12	<0.1	4.2	0.14	0.04	24	0.2	<0.02	5.5	1.13	<0.1	0.06
1731250	Rock Pulp	<0.5	44.4	0.01	2.9	0.003	1	0.12	0.015	0.05	0.4	0.3	0.18	0.03	1837	<0.1	<0.02	0.3	1.71	<0.1	0.02
1731251	Soil	19.3	60.4	1.07	211.1	0.143	2	2.05	0.028	0.19	0.1	6.7	0.23	<0.02	25	0.4	0.06	6.9	1.81	0.1	0.13
1731252	Soil	14.8	42.1	0.76	182.7	0.111	1	1.76	0.026	0.17	0.1	4.6	0.16	0.04	13	0.4	0.03	5.8	1.46	0.1	0.07
1731253	Soil	17.0	52.6	0.95	199.3	0.120	2	2.13	0.022	0.15	0.2	6.2	0.16	0.02	31	0.4	<0.02	6.3	1.44	<0.1	0.11
1731254	Soil	14.5	49.5	0.89	190.3	0.122	1	2.13	0.017	0.14	<0.1	5.2	0.15	<0.02	13	0.3	0.04	6.3	1.45	0.1	0.06
1731255	Soil	11.4	45.4	0.76	214.9	0.110	2	2.08	0.018	0.10	0.1	4.8	0.13	0.03	26	0.3	0.03	6.6	1.22	<0.1	0.07
1731256	Soil	17.4	44.9	0.80	172.4	0.138	1	1.73	0.026	0.23	0.1	5.2	0.17	<0.02	7	0.2	0.04	5.6	1.54	0.1	0.14
1731257	Soil	12.7	44.2	0.85	178.3	0.149	2	2.10	0.021	0.11	0.2	4.8	0.13	<0.02	8	0.3	0.04	6.4	1.28	<0.1	0.09
1731258	Soil	4.9	11.1	0.16	68.2	0.061	<1	0.86	0.037	0.04	<0.1	1.5	0.04	0.04	19	0.5	<0.02	3.0	0.47	<0.1	0.04
1731259	Soil	5.3	15.1	0.23	71.6	0.059	<1	1.07	0.027	0.05	<0.1	1.6	0.04	<0.02	<5	0.2	<0.02	4.0	0.76	<0.1	0.05
1731260	Soil	6.6	20.0	0.31	85.3	0.052	<1	1.21	0.026	0.06	0.1	1.9	0.07	0.05	26	0.4	0.03	4.8	0.99	<0.1	0.03
1731261	Soil	5.4	17.0	0.21	62.7	0.058	<1	1.03	0.019	0.03	<0.1	1.5	0.06	0.03	16	0.2	<0.02	5.2	0.95	<0.1	<0.02
1731262	Soil	7.5	24.4	0.30	86.2	0.089	1	1.36	0.015	0.04	<0.1	2.4	0.08	0.02	26	0.3	0.06	7.4	1.20	<0.1	0.08
1731263	Soil	19.4	45.1	0.90	188.3	0.107	2	2.77	0.017	0.07	0.2	6.5	0.09	<0.02	36	0.5	0.06	7.3	1.45	<0.1	0.09
1731264	Soil	8.8	35.8	0.56	79.5	0.109	2	2.01	0.009	0.05	<0.1	3.0	0.07	0.04	42	0.4	0.06	8.8	1.31	<0.1	0.04
1731265	Soil	16.4	57.9	1.12	116.9	0.177	2	2.51	0.018	0.11	0.2	6.0	0.10	0.02	27	0.6	0.10	7.6	2.63	<0.1	0.10
1731266	Soil	7.1	23.7	0.35	76.8	0.070	1	1.06	0.024	0.04	0.1	1.9	0.05	0.06	29	0.2	0.04	3.9	0.79	<0.1	0.05
1731267	Soil	8.8	26.3	0.48	106.2	0.078	1	1.43	0.027	0.07	0.1	2.7	0.07	0.05	20	0.3	0.06	4.9	1.12	0.1	0.04
1731268	Soil	10.7	38.3	0.69	99.8	0.125	1	1.92	0.019	0.08	0.2	4.0	0.07	0.03	40	0.5	0.05	6.1	1.31	<0.1	0.07
1731269	Soil	3.4	4.8	0.06	32.8	0.029	<1	0.36	0.047	0.03	<0.1	1.0	0.04	0.03	11	0.3	<0.02	1.5	0.15	<0.1	<0.02
1731270	Rock Pulp	2.7	6.7	0.08	15.2	0.212	<1	0.32	0.081	0.05	0.1	0.6	0.08	<0.02	<5	<0.1	<0.02	1.6	2.32	<0.1	0.35
1731271	Soil	10.3	41.1	1.03	192.9	0.175	2	2.36	0.016	0.11	0.1	4.2	0.11	<0.02	17	0.2	0.07	6.7	1.79	<0.1	0.08
1731272	Soil	10.8	40.7	0.85	152.3	0.142	1	2.10	0.016	0.10	0.2	4.2	0.11	0.03	22	0.5	0.03	6.1	1.50	0.1	0.05
1731273	Soil	13.4	43.5	0.86	149.2	0.143	1	2.38	0.014	0.07	0.2	5.1	0.13	0.04	39	0.5	<0.02	6.7	1.28	<0.1	0.08
1731274	Soil	11.6	39.1	0.71	161.5	0.111	<1	1.57	0.021	0.09	0.2	3.5	0.07	0.04	14	0.9	0.03	5.1	1.19	<0.1	0.06
1731275	Soil	10.1	41.1	0.63	127.9	0.092	2	1.83	0.015	0.06	0.2	3.4	0.10	0.08	43	1.2	0.03	6.6	1.44	0.1	0.05
1731276	Soil	10.5	50.5	0.78	111.0	0.139	2	2.35	0.015	0.08	0.1	4.2	0.10	0.03	23	0.5	0.03	6.2	1.48	0.1	0.08
1731277	Soil	8.9	37.6	0.59	89.5	0.103	1	1.70	0.013	0.07	<0.1	2.8	0.08	0.05	52	0.3	0.05	7.0	1.32	<0.1	0.04
1731278	Soil	3.2	8.9	0.10	37.5	0.037	<1	0.57	0.026	0.03	<0.1	0.8	0.03	0.05	32	0.2	<0.02	2.6	0.41	<0.1	<0.02



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 3 of 6

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731249	Soil	1.59	14.9	2.9	<0.05	3.4	6.92	21.9	<0.02	<1	0.3	13.6	<10	<2	13.7
1731250	Rock Pulp	0.07	18.1	0.2	<0.05	0.7	0.31	0.6	<0.02	<1	0.2	1.7	<10	<2	1.1
1731251	Soil	1.85	30.3	1.8	<0.05	6.1	11.21	40.7	0.03	<1	0.5	20.7	<10	<2	8.1
1731252	Soil	1.85	23.2	1.7	<0.05	4.0	7.93	28.9	0.02	<1	0.4	19.6	<10	3	12.6
1731253	Soil	1.47	20.2	1.3	<0.05	5.6	10.56	34.2	0.02	3	0.4	18.3	<10	<2	9.2
1731254	Soil	1.09	19.3	3.3	<0.05	3.6	7.01	29.7	<0.02	3	0.5	19.3	<10	<2	6.9
1731255	Soil	1.27	16.6	2.1	<0.05	3.3	5.87	22.4	<0.02	1	0.4	18.5	<10	<2	10.9
1731256	Soil	0.73	26.4	2.4	<0.05	7.3	7.53	31.3	<0.02	<1	0.3	16.6	<10	2	4.4
1731257	Soil	0.93	14.0	1.4	<0.05	4.9	6.17	25.6	0.03	<1	0.4	18.2	<10	2	5.9
1731258	Soil	0.56	4.8	0.6	<0.05	3.0	2.93	9.9	<0.02	<1	0.1	3.2	<10	<2	12.8
1731259	Soil	0.83	7.4	6.0	<0.05	1.7	2.15	10.3	<0.02	<1	0.2	7.3	<10	<2	10.6
1731260	Soil	0.91	10.6	2.4	<0.05	1.9	3.15	13.7	<0.02	<1	0.2	7.8	<10	<2	16.9
1731261	Soil	0.77	8.3	5.2	<0.05	1.6	1.93	10.7	<0.02	<1	0.2	6.2	<10	2	14.6
1731262	Soil	1.35	10.0	1.4	<0.05	3.4	2.83	15.2	<0.02	<1	0.5	8.6	<10	<2	13.7
1731263	Soil	1.09	10.0	5.3	<0.05	3.3	11.71	37.7	<0.02	<1	0.6	20.1	<10	<2	9.9
1731264	Soil	1.45	7.7	4.5	<0.05	2.7	3.70	17.5	<0.02	<1	0.4	18.0	<10	<2	15.2
1731265	Soil	1.27	14.1	1.7	<0.05	5.0	10.66	34.0	0.03	<1	0.4	21.5	<10	<2	8.0
1731266	Soil	0.71	5.7	22.6	<0.05	2.2	3.05	14.5	<0.02	<1	0.4	6.4	<10	<2	19.3
1731267	Soil	0.89	8.7	3.4	<0.05	2.1	4.17	17.9	<0.02	<1	0.3	10.1	<10	<2	15.2
1731268	Soil	1.07	9.5	2.4	<0.05	3.2	5.24	20.9	0.02	4	0.4	13.6	<10	<2	9.9
1731269	Soil	0.26	1.6	1.6	<0.05	0.9	2.06	6.8	<0.02	1	<0.1	0.9	<10	<2	9.8
1731270	Rock Pulp	0.15	10.4	0.2	<0.05	16.2	6.45	6.7	<0.02	<1	0.2	6.0	<10	<2	0.6
1731271	Soil	1.13	14.1	2.6	<0.05	3.2	4.91	21.7	<0.02	<1	0.4	20.7	<10	<2	7.8
1731272	Soil	1.24	13.5	1.7	<0.05	3.6	5.67	21.4	<0.02	<1	0.4	16.8	<10	<2	10.5
1731273	Soil	1.50	9.6	2.2	<0.05	4.2	6.38	28.7	<0.02	1	0.4	16.1	<10	<2	15.0
1731274	Soil	0.98	10.3	2.5	<0.05	2.7	6.25	23.6	<0.02	<1	0.3	15.3	<10	<2	7.2
1731275	Soil	1.37	8.5	3.8	<0.05	3.1	4.96	19.4	0.02	<1	0.4	14.9	<10	<2	20.3
1731276	Soil	1.38	10.9	2.0	<0.05	3.5	5.14	22.3	0.02	<1	0.5	16.7	<10	<2	8.9
1731277	Soil	1.32	11.3	3.8	<0.05	2.2	3.68	19.7	<0.02	<1	0.4	14.3	<10	<2	15.3
1731278	Soil	0.44	3.4	3.1	<0.05	1.3	1.44	6.7	<0.02	<1	0.2	1.8	<10	<2	23.0

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 4 of 6 Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1731279	Soil	0.58	23.21	3.33	18.4	204	8.3	3.7	96	1.00	4.3	0.4	0.4	0.1	15.6	0.23	0.28	0.06	24	0.12	0.033
1731280	Soil	1.47	31.11	7.96	37.3	219	14.7	5.7	172	1.58	8.1	0.7	3.8	0.5	23.0	0.22	0.56	0.17	39	0.18	0.045
1731281	Soil	1.26	23.13	8.27	34.8	146	14.3	6.0	198	2.16	8.0	0.4	1.7	1.2	14.0	0.13	0.50	0.12	56	0.11	0.033
1731282	Soil	1.63	21.44	9.29	47.9	144	23.8	10.8	288	3.37	11.4	0.6	1.9	1.9	17.4	0.28	0.56	0.14	65	0.17	0.052
1731283	Soil	1.30	23.68	5.52	29.6	102	12.1	5.7	195	1.47	4.9	0.3	1.5	0.4	14.5	0.15	0.30	0.12	43	0.12	0.033
1731284	Soil	2.17	49.57	11.47	94.5	166	49.4	22.4	562	3.87	30.3	0.8	8.5	1.8	34.0	0.33	0.52	0.23	90	0.29	0.070
1731285	Soil	2.32	36.73	9.94	61.8	98	43.7	11.7	363	3.65	67.5	0.8	8.1	2.2	21.9	0.26	2.22	0.22	90	0.28	0.043
1731286	Soil	2.45	59.05	9.73	136.2	301	73.0	15.9	518	3.57	96.2	1.8	11.3	2.4	31.9	0.60	1.77	0.26	119	0.46	0.116
1731287	Soil	1.68	41.97	7.96	96.4	183	45.8	15.7	472	3.09	116.8	0.8	22.4	2.1	32.0	0.33	1.61	0.22	83	0.43	0.088
1731288	Soil	2.22	68.94	11.79	62.2	200	30.8	11.9	1095	3.57	433.8	1.6	6.6	1.5	32.1	0.29	1.69	0.33	93	0.46	0.098
1731289	Soil	1.11	40.19	5.31	47.9	104	17.4	8.2	424	2.20	23.3	0.7	5.2	1.0	30.5	0.14	0.46	0.12	64	0.30	0.060
1731290	Rock Pulp	16.51	71.75	216.7	97.1	1093	89.8	34.9	112	0.84	16.3	0.2	158.5	0.1	3.7	0.13	1.82	6.08	2	0.12	0.009
1731291	Soil	0.89	28.58	3.97	47.3	90	23.3	9.3	462	2.16	8.2	0.6	9.8	1.9	23.7	0.07	0.28	0.11	59	0.29	0.058
1731292	Soil	1.06	101.4	25.83	58.2	2595	30.8	14.3	707	5.16	7794	1.0	168.8	4.8	71.4	0.46	12.48	2.44	62	0.81	0.144
1731293	Soil	0.59	55.66	8.65	66.0	157	33.0	12.0	228	2.96	118.3	1.4	9.3	3.2	50.5	0.16	0.99	0.24	85	0.63	0.095
1731294	Soil	1.06	46.44	16.27	66.2	420	32.1	15.5	651	3.86	1960	1.4	47.2	2.8	37.6	0.27	1.64	1.29	86	0.58	0.073
1731295	Soil	1.32	31.77	6.39	67.5	117	30.4	15.2	291	4.13	88.1	1.2	7.7	2.8	26.1	0.13	0.95	0.19	98	0.39	0.079
1731296	Soil	0.90	25.44	7.48	68.4	160	32.4	13.7	378	3.33	20.7	1.2	3.3	3.1	27.2	0.11	0.86	0.16	90	0.41	0.053
1731297	Soil	0.92	46.26	8.68	50.5	132	19.6	9.8	397	2.78	496.4	1.2	13.6	3.6	57.3	0.14	1.63	1.73	55	0.49	0.062
1731298	Soil	0.88	27.52	5.87	64.1	104	23.7	11.7	443	2.74	142.5	1.1	10.2	2.7	40.6	0.13	2.30	0.57	69	0.59	0.082
1731299	Soil	0.50	21.05	3.42	38.9	85	9.7	4.4	344	1.32	24.0	0.9	1.9	0.4	29.6	0.16	0.38	0.11	37	0.45	0.058
1731300	Soil	0.66	27.27	3.98	55.5	159	16.8	5.8	279	1.70	61.2	2.5	5.0	0.7	50.8	0.18	0.60	0.15	43	0.72	0.059
1731301	Soil	1.34	26.77	4.63	60.9	293	20.7	5.9	262	1.75	8.2	0.9	2.8	0.6	26.3	0.33	0.37	0.17	44	0.32	0.055
1731302	Soil	1.43	28.31	7.06	66.1	225	21.2	6.7	330	1.86	7.8	0.9	1.9	0.6	27.0	0.27	0.36	0.17	46	0.32	0.055
1731303	Soil	1.83	43.24	6.59	80.8	391	31.3	8.1	352	2.44	15.8	1.8	5.5	0.9	32.7	0.23	0.44	0.28	56	0.35	0.072
1731304	Soil	1.65	29.91	4.45	37.4	215	15.1	5.0	245	1.65	7.9	1.0	2.4	0.5	22.1	0.18	0.39	0.15	45	0.24	0.048
1731305	Soil	3.19	22.38	7.65	51.6	186	20.5	7.9	301	3.68	12.3	0.6	3.7	1.7	20.9	0.20	0.61	0.17	92	0.24	0.041
1731306	Soil	2.44	40.12	7.98	55.8	158	20.3	8.5	422	3.22	7.7	0.6	3.4	0.2	19.0	0.19	0.63	0.19	92	0.17	0.067
1731307	Soil	0.54	15.34	2.39	30.8	212	6.1	5.6	115	2.81	1.6	0.4	2.2	0.3	11.8	0.13	0.12	0.03	86	0.16	0.065
1731308	Soil	0.28	11.90	5.66	56.2	43	8.7	8.0	164	3.54	0.7	0.3	0.8	0.4	16.6	0.13	0.08	0.04	134	0.25	0.084

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.

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1731279	Soil	4.2	9.4	0.14	45.8	0.036	<1	0.85	0.034	0.05	<0.1	0.8	0.03	0.03	30	<0.1	<0.02	2.8	0.45	<0.1	0.02
1731280	Soil	6.2	18.4	0.28	80.4	0.056	<1	1.21	0.029	0.05	<0.1	1.7	0.07	0.03	17	0.4	0.08	4.9	1.02	<0.1	0.04
1731281	Soil	6.4	20.3	0.26	51.0	0.076	1	1.43	0.020	0.04	0.1	2.0	0.06	0.02	47	0.1	<0.02	6.1	0.94	<0.1	0.05
1731282	Soil	7.7	36.5	0.43	58.3	0.093	2	2.70	0.011	0.05	0.1	3.5	0.08	0.03	53	0.3	0.06	6.8	1.24	<0.1	0.09
1731283	Soil	4.0	12.9	0.18	52.3	0.054	2	0.93	0.024	0.05	0.1	1.2	0.06	0.02	15	0.2	<0.02	4.1	0.76	<0.1	0.04
1731284	Soil	9.4	44.4	0.66	128.1	0.146	3	2.69	0.021	0.09	0.2	4.0	0.11	0.06	51	1.3	0.13	8.6	1.82	<0.1	0.09
1731285	Soil	10.0	34.2	0.50	101.7	0.099	2	1.79	0.012	0.05	0.2	3.8	0.10	0.03	20	0.7	0.05	7.0	1.67	<0.1	0.07
1731286	Soil	12.9	49.2	0.81	182.3	0.136	2	1.98	0.025	0.12	0.3	5.4	0.12	0.09	40	1.8	0.07	6.7	1.60	<0.1	0.07
1731287	Soil	10.0	52.7	0.80	189.5	0.133	2	1.69	0.016	0.11	0.3	3.8	0.10	0.03	23	1.1	0.08	6.1	1.61	<0.1	0.05
1731288	Soil	11.4	48.3	0.60	157.5	0.095	2	1.57	0.019	0.06	0.2	5.0	0.12	0.11	56	1.9	0.12	6.9	1.62	<0.1	0.05
1731289	Soil	8.4	22.8	0.42	112.7	0.079	2	1.41	0.024	0.06	0.1	2.4	0.07	0.03	15	0.4	0.02	5.4	1.09	<0.1	0.05
1731290	Rock Pulp	<0.5	37.3	<0.01	2.8	0.003	<1	0.10	0.015	0.04	0.3	0.3	0.16	0.03	1771	0.1	<0.02	0.3	1.55	<0.1	<0.02
1731291	Soil	8.1	29.2	0.70	116.0	0.117	2	1.65	0.029	0.09	0.1	2.9	0.10	<0.02	43	0.2	<0.02	5.2	1.34	<0.1	0.06
1731292	Soil	65.1	32.1	0.99	220.2	0.058	3	1.86	0.024	0.17	0.2	9.8	0.14	<0.02	25	1.4	0.07	5.7	3.69	0.2	0.11
1731293	Soil	24.9	44.2	0.98	149.5	0.135	2	2.21	0.037	0.08	0.3	6.8	0.09	<0.02	40	0.4	0.02	7.2	1.29	<0.1	0.16
1731294	Soil	16.1	38.3	1.07	221.4	0.105	2	2.37	0.023	0.10	0.2	9.1	0.11	<0.02	65	0.5	0.03	6.5	3.34	<0.1	0.06
1731295	Soil	14.7	48.7	1.06	172.0	0.101	4	2.54	0.018	0.07	0.1	9.0	0.15	0.03	54	0.5	0.03	7.5	2.36	<0.1	0.09
1731296	Soil	10.5	51.7	1.12	171.8	0.155	2	2.29	0.022	0.09	<0.1	7.8	0.11	0.02	25	0.2	<0.02	6.8	2.67	<0.1	0.07
1731297	Soil	11.8	30.7	0.85	173.5	0.111	<1	1.69	0.026	0.12	<0.1	5.9	0.13	<0.02	13	0.3	0.06	5.0	2.62	<0.1	0.07
1731298	Soil	16.3	35.7	0.85	235.3	0.110	2	1.85	0.020	0.10	0.2	5.3	0.16	0.02	38	0.2	<0.02	6.0	3.06	<0.1	0.05
1731299	Soil	4.5	14.6	0.25	111.7	0.055	<1	0.94	0.044	0.05	<0.1	1.5	0.06	0.07	18	0.4	<0.02	3.4	0.52	<0.1	0.04
1731300	Soil	7.1	19.2	0.37	168.0	0.068	2	1.31	0.034	0.08	<0.1	2.7	0.07	0.07	34	0.4	<0.02	4.1	0.87	<0.1	0.06
1731301	Soil	7.5	19.3	0.32	124.6	0.058	<1	1.30	0.031	0.08	0.1	2.2	0.09	0.05	35	0.5	0.05	5.4	1.03	<0.1	0.04
1731302	Soil	7.9	21.6	0.35	117.4	0.063	<1	1.36	0.030	0.08	0.1	2.3	0.09	0.05	30	0.5	0.04	5.2	1.02	<0.1	0.04
1731303	Soil	11.0	27.4	0.49	187.3	0.061	<1	2.00	0.028	0.08	0.1	3.5	0.11	0.06	45	0.7	0.10	6.0	1.34	<0.1	0.05
1731304	Soil	6.0	16.6	0.25	82.6	0.049	<1	1.13	0.028	0.05	<0.1	1.9	0.06	0.05	22	0.8	0.07	4.6	0.96	<0.1	0.04
1731305	Soil	7.4	32.4	0.52	77.1	0.102	1	1.74	0.011	0.08	<0.1	3.2	0.10	0.03	17	0.6	0.06	8.4	1.05	<0.1	0.07
1731306	Soil	7.3	25.6	0.37	87.8	0.060	1	1.44	0.013	0.05	<0.1	1.6	0.10	0.07	31	0.4	0.05	6.9	1.07	<0.1	0.03
1731307	Soil	2.8	7.2	0.07	25.5	0.100	<1	0.43	0.063	0.05	<0.1	0.8	0.05	0.03	19	1.0	<0.02	3.8	0.16	<0.1	0.04
1731308	Soil	3.9	12.1	0.16	35.7	0.195	<1	0.49	0.033	0.03	<0.1	1.0	0.02	0.04	12	0.4	<0.02	6.1	0.35	<0.1	0.04



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 4 of 6

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731279	Soil	0.48	4.5	1.3	<0.05	1.3	1.78	8.6	<0.02	<1	0.2	3.8	<10	<2	14.4
1731280	Soil	0.79	8.7	4.0	<0.05	1.7	3.01	13.0	<0.02	<1	0.1	8.2	<10	<2	15.0
1731281	Soil	1.58	6.3	5.0	<0.05	2.9	2.11	14.0	<0.02	<1	0.2	11.7	<10	<2	15.2
1731282	Soil	1.85	7.9	2.8	<0.05	4.7	3.33	16.4	0.03	<1	0.4	23.9	10	<2	23.4
1731283	Soil	0.89	6.2	2.6	<0.05	1.8	1.91	8.7	0.02	<1	0.2	5.3	<10	<2	12.8
1731284	Soil	2.63	10.0	5.8	<0.05	5.1	4.71	21.2	0.03	<1	0.9	16.6	<10	<2	18.0
1731285	Soil	1.43	6.2	1.9	<0.05	3.7	4.53	21.9	0.02	<1	0.4	14.0	<10	<2	11.8
1731286	Soil	1.20	10.3	2.0	<0.05	2.9	7.52	26.1	0.03	1	0.6	13.0	<10	<2	9.0
1731287	Soil	1.31	10.2	1.5	<0.05	2.1	5.16	20.5	0.03	1	0.5	13.0	<10	<2	8.3
1731288	Soil	1.68	11.3	3.9	<0.05	2.7	7.77	22.1	0.02	2	0.4	8.4	<10	<2	27.0
1731289	Soil	1.05	9.1	1.9	<0.05	2.6	3.78	17.7	<0.02	<1	0.3	8.6	<10	<2	16.4
1731290	Rock Pulp	0.05	15.6	0.2	<0.05	0.7	0.23	0.5	<0.02	<1	0.1	1.6	<10	<2	0.4
1731291	Soil	0.97	10.8	1.5	<0.05	2.9	3.30	16.4	<0.02	<1	0.2	11.1	<10	<2	9.1
1731292	Soil	0.68	14.3	3.0	<0.05	8.0	18.93	147.9	0.04	<1	1.0	13.8	<10	<2	7.6
1731293	Soil	2.51	8.6	1.0	<0.05	8.7	11.41	68.0	0.03	<1	0.7	17.4	<10	<2	8.3
1731294	Soil	0.82	10.5	2.1	<0.05	3.1	13.52	32.2	0.03	<1	0.5	16.1	<10	<2	8.3
1731295	Soil	1.36	12.0	0.7	<0.05	4.8	9.51	32.5	0.03	<1	0.5	17.5	<10	<2	11.9
1731296	Soil	0.94	13.0	4.9	<0.05	4.0	5.32	21.9	0.03	<1	0.5	21.9	<10	<2	9.1
1731297	Soil	0.63	13.5	1.6	<0.05	3.8	7.68	24.9	0.02	<1	0.5	10.7	<10	<2	6.7
1731298	Soil	1.76	11.0	0.9	<0.05	2.8	6.24	36.4	0.02	<1	0.5	13.8	<10	<2	10.1
1731299	Soil	0.65	4.9	1.5	<0.05	2.3	2.84	9.6	<0.02	<1	0.1	4.5	<10	<2	16.7
1731300	Soil	0.99	8.3	1.8	<0.05	3.7	5.51	13.8	<0.02	1	0.3	7.1	<10	<2	23.8
1731301	Soil	1.09	10.2	0.4	<0.05	2.4	6.11	15.7	<0.02	<1	0.3	8.0	<10	<2	16.9
1731302	Soil	1.10	10.4	3.9	<0.05	2.4	6.20	16.0	<0.02	<1	0.4	9.2	<10	<2	16.2
1731303	Soil	1.50	11.7	0.6	<0.05	3.3	9.70	20.9	0.02	<1	0.5	12.7	<10	<2	21.2
1731304	Soil	0.87	7.4	0.7	<0.05	2.3	3.84	12.1	<0.02	<1	0.4	5.9	<10	<2	16.6
1731305	Soil	1.50	11.3	0.7	<0.05	4.0	3.54	16.5	0.03	<1	0.3	12.7	<10	<2	12.3
1731306	Soil	0.88	7.4	1.8	<0.05	1.3	3.20	15.4	0.02	<1	0.3	7.5	<10	<2	20.1
1731307	Soil	0.34	1.6	2.8	<0.05	2.0	2.14	6.6	<0.02	<1	0.1	0.6	<10	<2	I.S.
1731308	Soil	0.43	4.0	6.8	<0.05	2.2	2.44	8.8	<0.02	<1	<0.1	1.7	<10	<2	I.S.

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.

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1731309	Soil	0.43	12.70	1.34	16.4	72	3.9	4.7	237	1.58	3.1	0.2	0.6	0.3	11.2	0.04	0.10	0.02	38	0.15	0.046
1731310	Rock Pulp	16.58	70.16	194.5	99.4	1133	87.6	33.8	111	0.83	14.8	0.2	153.1	0.1	4.0	0.14	1.68	6.00	<2	0.12	0.010
1731311	Soil	0.53	11.89	2.64	15.0	103	4.1	10.0	441	1.33	4.7	0.2	1.0	0.2	10.9	0.07	0.11	0.06	35	0.14	0.048
1731312	Soil	1.10	26.05	7.67	54.7	191	19.4	6.9	168	2.39	22.8	0.8	4.5	1.3	15.5	0.13	0.44	0.19	60	0.20	0.056
1731313	Soil	1.81	21.95	13.55	32.9	594	9.5	8.2	379	1.23	5.6	0.8	3.0	0.2	17.9	0.18	0.37	0.12	35	0.17	0.063
1731314	Soil	2.42	26.56	4.49	46.5	413	12.5	9.4	373	1.52	6.7	0.9	3.5	0.3	16.3	0.25	0.38	0.11	38	0.15	0.058
1731315	Soil	1.22	52.22	12.24	111.5	614	25.4	8.4	377	1.84	32.2	2.1	7.5	0.6	45.2	0.63	0.54	0.26	44	0.91	0.090
1731316	Soil	0.92	25.84	8.79	77.1	166	29.4	11.8	322	3.07	7.0	0.8	6.6	3.2	22.9	0.16	0.33	0.24	64	0.38	0.075
1731317	Soil	3.51	85.09	9.76	170.9	398	39.0	13.8	302	3.86	52.9	1.6	10.1	3.9	30.8	1.14	0.98	0.34	75	0.28	0.087
1731318	Soil	0.86	22.89	9.18	61.2	81	32.4	12.5	342	3.34	9.9	0.8	4.6	3.0	16.9	0.09	0.34	0.17	66	0.24	0.044
1731319	Soil	0.92	18.55	18.26	40.8	97	10.1	6.0	157	1.79	6.1	0.4	0.6	0.8	15.9	0.19	0.31	0.20	50	0.18	0.046
1731320	Soil	0.65	15.89	5.04	15.3	94	5.7	2.8	113	0.80	2.2	0.4	1.7	0.2	12.7	0.04	0.11	0.10	16	0.16	0.036
1731321	Soil	1.13	22.76	8.41	36.4	107	14.0	8.6	289	1.83	4.7	0.6	1.8	0.6	20.8	0.09	0.25	0.12	43	0.24	0.049
1731322	Soil	0.78	22.85	4.73	25.6	91	10.6	3.9	114	1.31	3.1	0.5	1.5	0.3	18.9	0.06	0.21	0.09	30	0.22	0.039
1731323	Soil	1.11	21.16	9.77	45.8	46	18.3	7.9	187	2.99	8.3	0.5	3.9	1.9	22.5	0.21	0.31	0.11	62	0.25	0.030
1731324	Soil	0.79	20.14	5.74	40.4	100	11.6	6.3	217	1.64	3.9	0.6	1.3	0.8	21.6	0.09	0.20	0.09	39	0.28	0.043
1731325	Soil	1.36	31.50	7.47	46.7	199	14.4	9.2	443	1.92	6.8	0.9	1.8	0.6	30.3	0.12	0.30	0.15	42	0.42	0.073
1731326	Soil	0.88	15.24	5.99	25.2	101	5.8	4.0	149	1.22	3.9	0.4	4.7	0.5	12.5	0.14	0.29	0.09	35	0.13	0.027
1731327	Soil	1.71	19.53	14.58	40.8	147	13.5	7.5	451	2.43	8.4	0.4	2.7	1.0	14.4	0.21	0.39	0.14	63	0.15	0.032
1731328	Soil	2.54	38.99	14.45	71.7	171	27.9	11.8	364	3.50	9.0	0.9	2.8	1.1	19.6	0.34	0.69	0.19	90	0.18	0.047
1731329	Soil	1.88	27.72	8.62	57.3	58	16.4	8.1	517	2.47	9.7	0.5	3.5	1.0	16.2	0.11	0.63	0.12	66	0.16	0.028
1731330	Rock Pulp	1.17	21.61	0.90	20.7	808	7.6	4.4	87	1.52	1.5	0.2	112.6	0.3	12.9	0.04	0.97	1.44	27	0.33	0.026
1731331	Soil	1.02	32.17	12.10	80.8	161	38.9	11.9	319	3.56	6.7	0.9	3.0	3.9	21.4	0.10	0.32	0.19	71	0.31	0.063
1731332	Soil	1.47	21.59	6.55	33.6	86	11.3	5.4	247	1.72	8.8	0.5	1.5	0.2	19.3	0.08	0.33	0.11	39	0.21	0.067
1731333	Soil	3.44	99.22	10.47	117.8	811	36.6	10.2	192	3.55	10.5	2.6	5.9	4.0	25.9	0.75	0.93	0.19	84	0.29	0.092
1731334	Soil	1.95	30.32	10.30	66.1	212	28.9	11.3	336	4.26	9.9	0.8	2.1	2.5	21.4	0.27	0.63	0.12	78	0.22	0.046
1731335	Soil	2.43	43.81	10.85	131.3	291	39.6	14.2	509	3.82	33.3	0.9	15.6	2.2	23.3	0.84	1.70	0.23	89	0.29	0.077
1731336	Soil	1.88	54.21	9.93	67.1	831	21.0	11.7	676	3.56	8.1	2.0	4.8	0.6	27.2	0.39	0.47	0.12	85	0.37	0.111
1731337	Soil	1.96	23.99	12.46	43.1	89	16.4	7.0	184	2.93	9.1	0.6	2.1	2.4	15.6	0.12	0.58	0.23	92	0.17	0.028
1731338	Soil	1.15	19.12	5.75	20.8	76	7.1	2.8	63	1.37	4.9	0.4	2.7	0.2	10.7	0.06	0.34	0.08	34	0.10	0.035



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 5 of 6

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1731309	Soil	2.6	5.3	0.07	25.0	0.049	<1	0.41	0.047	0.04	<0.1	0.7	0.03	<0.02	9	0.3	<0.02	2.2	0.18	<0.1	<0.02
1731310	Rock Pulp	<0.5	38.0	<0.01	2.6	0.003	<1	0.10	0.015	0.04	0.3	0.3	0.15	0.03	1720	<0.1	<0.02	0.3	1.47	<0.1	<0.02
1731311	Soil	2.7	4.8	0.07	33.1	0.040	<1	0.40	0.043	0.03	<0.1	0.7	0.04	0.02	26	0.4	0.02	2.1	0.15	<0.1	<0.02
1731312	Soil	6.9	28.0	0.38	91.5	0.080	<1	1.49	0.028	0.06	0.1	3.5	0.11	0.03	40	0.8	0.03	5.3	1.10	<0.1	0.04
1731313	Soil	4.9	14.8	0.20	78.2	0.034	<1	0.86	0.030	0.05	<0.1	1.3	0.09	0.07	44	0.5	0.04	3.6	0.99	<0.1	0.02
1731314	Soil	5.5	14.9	0.22	74.4	0.039	<1	1.01	0.029	0.05	<0.1	1.5	0.09	0.05	30	0.6	0.03	4.4	1.25	<0.1	0.03
1731315	Soil	10.7	22.9	0.36	134.9	0.051	2	1.54	0.029	0.09	<0.1	2.5	0.09	0.10	52	1.3	0.06	4.2	1.02	<0.1	0.03
1731316	Soil	11.9	46.8	0.84	136.1	0.138	<1	2.15	0.012	0.13	0.1	4.6	0.17	0.05	19	0.4	0.04	7.5	1.74	<0.1	0.05
1731317	Soil	11.9	40.1	0.81	135.8	0.113	2	1.89	0.021	0.22	0.2	3.9	0.18	0.16	24	2.0	0.10	6.0	3.29	<0.1	0.05
1731318	Soil	11.3	42.1	0.84	78.1	0.127	2	2.39	0.011	0.13	0.2	4.7	0.13	0.04	27	0.4	<0.02	6.4	1.38	<0.1	0.05
1731319	Soil	5.1	15.3	0.23	57.8	0.082	<1	0.89	0.022	0.06	<0.1	1.2	0.06	0.03	33	<0.1	<0.02	4.5	0.86	<0.1	0.04
1731320	Soil	3.6	7.7	0.13	44.4	0.029	<1	0.74	0.035	0.04	<0.1	0.6	0.04	0.04	11	<0.1	<0.02	2.6	0.43	<0.1	<0.02
1731321	Soil	6.7	20.4	0.32	83.9	0.072	<1	1.22	0.029	0.07	<0.1	1.8	0.09	0.04	21	0.2	<0.02	4.8	0.91	<0.1	0.02
1731322	Soil	5.5	13.4	0.22	72.0	0.049	<1	0.96	0.033	0.06	<0.1	1.2	0.07	0.04	18	0.2	<0.02	4.0	0.69	<0.1	<0.02
1731323	Soil	7.6	28.5	0.44	109.1	0.104	2	1.85	0.016	0.07	0.1	2.6	0.07	<0.02	11	<0.1	<0.02	6.0	0.99	<0.1	0.04
1731324	Soil	7.5	15.1	0.27	75.8	0.064	1	1.07	0.031	0.07	<0.1	1.9	0.07	0.04	13	0.3	0.03	4.4	0.78	<0.1	0.02
1731325	Soil	12.2	19.5	0.36	125.0	0.058	2	1.46	0.025	0.06	0.1	2.0	0.09	0.07	18	0.3	<0.02	4.8	0.94	<0.1	0.02
1731326	Soil	4.4	10.6	0.14	50.1	0.053	<1	0.70	0.029	0.04	<0.1	1.0	0.04	<0.02	9	0.1	<0.02	3.5	0.61	<0.1	<0.02
1731327	Soil	6.8	20.2	0.27	75.6	0.086	<1	1.23	0.019	0.07	<0.1	1.8	0.08	0.03	18	0.2	0.03	6.3	1.09	<0.1	0.02
1731328	Soil	9.5	36.6	0.56	72.8	0.103	2	1.76	0.018	0.11	<0.1	2.8	0.12	0.05	35	0.5	0.07	9.2	1.67	<0.1	0.03
1731329	Soil	5.9	19.5	0.27	76.0	0.073	1	1.10	0.021	0.04	0.1	1.7	0.07	0.02	15	0.5	<0.02	5.0	1.00	<0.1	<0.02
1731330	Rock Pulp	2.5	6.2	0.09	13.4	0.205	1	0.28	0.072	0.05	0.2	0.4	0.09	<0.02	<5	<0.1	<0.02	1.5	2.32	<0.1	0.27
1731331	Soil	13.5	47.9	0.94	133.9	0.145	1	2.59	0.012	0.21	<0.1	4.6	0.21	0.02	24	0.3	0.02	7.5	1.82	<0.1	0.03
1731332	Soil	5.0	15.5	0.26	62.9	0.037	1	0.96	0.029	0.04	<0.1	1.2	0.07	0.06	29	0.3	<0.02	3.7	0.83	<0.1	<0.02
1731333	Soil	15.2	46.5	0.85	174.5	0.123	2	2.61	0.012	0.11	0.1	7.1	0.17	0.03	82	2.4	0.10	7.6	2.82	<0.1	0.05
1731334	Soil	10.1	44.0	0.81	148.6	0.089	2	2.32	0.013	0.11	0.2	3.9	0.09	0.13	25	0.6	0.04	7.1	1.88	<0.1	<0.02
1731335	Soil	9.9	38.1	0.70	143.5	0.116	1	1.90	0.012	0.10	0.1	3.8	0.09	0.05	38	0.6	0.04	7.5	1.55	<0.1	0.04
1731336	Soil	12.1	29.5	0.41	122.0	0.068	2	1.82	0.021	0.06	<0.1	3.0	0.08	0.11	58	1.0	0.05	5.8	1.10	<0.1	0.02
1731337	Soil	11.2	24.5	0.35	72.4	0.103	2	1.38	0.009	0.07	<0.1	2.4	0.10	<0.02	9	0.2	0.03	7.6	1.20	<0.1	0.03
1731338	Soil	4.4	12.0	0.14	38.9	0.040	<1	0.74	0.021	0.03	<0.1	1.0	0.07	0.03	9	<0.1	0.02	3.6	0.71	<0.1	<0.02

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.

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1731309	Soil	0.25	1.7	1.1	<0.05	0.9	1.54	5.9	<0.02	<1	<0.1	1.1	<10	<2	7.8
1731310	Rock Pulp	0.04	16.1	0.2	<0.05	0.7	0.25	0.5	<0.02	<1	0.1	1.7	<10	<2	0.8
1731311	Soil	0.23	1.5	3.1	<0.05	0.6	1.74	6.1	<0.02	<1	<0.1	0.7	<10	<2	9.0
1731312	Soil	0.95	7.1	1.1	<0.05	2.2	3.90	14.7	<0.02	<1	0.3	7.7	<10	<2	11.7
1731313	Soil	0.62	6.1	17.0	<0.05	1.5	2.56	10.5	0.02	<1	0.2	3.4	<10	<2	24.2
1731314	Soil	0.66	6.6	0.7	<0.05	1.6	3.16	12.1	<0.02	<1	0.2	4.2	<10	<2	19.1
1731315	Soil	1.06	13.2	11.1	<0.05	2.4	10.06	18.0	<0.02	<1	0.7	12.7	<10	<2	28.3
1731316	Soil	1.70	20.6	1.2	<0.05	2.0	6.07	22.5	0.02	<1	0.3	18.4	<10	<2	11.2
1731317	Soil	0.85	21.4	2.7	<0.05	2.7	6.01	20.6	0.04	<1	0.4	15.9	<10	<2	8.1
1731318	Soil	1.59	16.1	5.1	<0.05	2.5	5.26	22.3	0.03	<1	0.2	19.8	<10	<2	11.2
1731319	Soil	1.06	14.7	21.8	<0.05	2.0	2.05	10.3	<0.02	<1	<0.1	5.6	<10	<2	15.1
1731320	Soil	0.51	5.1	3.9	<0.05	1.2	1.79	6.3	<0.02	<1	0.3	3.2	<10	<2	14.3
1731321	Soil	0.90	13.0	4.7	<0.05	1.6	3.04	12.1	<0.02	<1	0.4	8.0	<10	<2	15.2
1731322	Soil	0.72	10.0	1.9	<0.05	1.2	2.30	9.5	<0.02	<1	0.3	5.1	<10	<2	15.9
1731323	Soil	1.35	11.6	4.7	<0.05	2.8	3.38	13.9	<0.02	<1	0.5	14.9	<10	<2	11.5
1731324	Soil	0.78	10.4	1.0	<0.05	1.5	3.35	12.9	<0.02	<1	0.3	7.9	<10	<2	13.2
1731325	Soil	1.05	11.8	2.6	<0.05	1.7	5.51	19.6	<0.02	<1	0.4	7.9	<10	<2	22.3
1731326	Soil	0.66	7.7	3.2	<0.05	1.0	1.50	7.9	<0.02	<1	0.2	3.6	<10	<2	11.1
1731327	Soil	0.98	14.5	10.9	<0.05	1.5	2.38	12.6	<0.02	<1	0.2	7.5	<10	<2	12.4
1731328	Soil	1.47	30.8	7.3	<0.05	1.6	3.95	17.8	0.02	<1	0.2	12.9	<10	<2	16.3
1731329	Soil	0.81	7.4	3.3	<0.05	1.5	2.24	11.0	<0.02	<1	0.4	5.8	<10	<2	11.7
1731330	Rock Pulp	0.25	10.4	0.2	<0.05	12.7	6.36	5.4	<0.02	<1	0.2	5.4	<10	<2	0.5
1731331	Soil	1.41	25.7	4.0	<0.05	2.5	5.86	24.3	<0.02	<1	0.3	23.3	<10	<2	9.6
1731332	Soil	0.44	6.5	3.2	<0.05	0.9	2.32	9.1	<0.02	<1	0.2	4.9	<10	<2	17.6
1731333	Soil	0.97	15.1	1.6	<0.05	3.5	12.84	28.4	0.04	4	0.6	15.8	<10	<2	8.6
1731334	Soil	1.05	10.1	2.5	<0.05	1.6	3.80	23.6	<0.02	<1	0.3	21.5	<10	<2	12.8
1731335	Soil	1.10	12.8	2.0	<0.05	2.1	4.68	18.3	0.03	<1	0.4	15.8	<10	<2	12.3
1731336	Soil	0.82	10.1	6.0	<0.05	1.4	9.64	22.8	<0.02	<1	0.7	9.0	<10	<2	27.3
1731337	Soil	1.02	10.8	3.6	<0.05	1.8	3.01	20.5	<0.02	<1	<0.1	8.2	<10	<2	11.0
1731338	Soil	0.51	4.8	1.6	<0.05	0.8	1.51	7.7	<0.02	<1	<0.1	2.6	<10	<2	14.7



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 6 of 6

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

	Method Analyte Unit MDL	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1731339	Soil	0.66	35.36	7.71	60.0	41	40.8	15.5	500	3.36	8.2	0.7	1.9	3.5	17.1	0.12	0.39	0.10	70	0.25	0.035
1731340	Soil	1.48	27.96	10.30	30.1	993	10.4	3.4	70	1.39	12.6	1.2	12.9	0.2	15.3	0.21	0.60	0.28	36	0.15	0.064
1731341	Soil	4.30	42.94	38.81	64.0	394	25.6	7.8	222	3.58	37.8	1.0	8.3	1.3	19.6	0.28	2.69	0.21	141	0.19	0.047
1731342	Soil	4.37	44.54	37.08	65.4	420	26.1	7.8	209	3.53	35.1	1.0	8.1	1.2	19.4	0.29	2.51	0.20	134	0.20	0.047
1731343	Soil	3.05	66.80	55.53	82.6	2125	20.3	9.8	268	2.23	82.8	1.8	72.1	0.4	25.4	0.92	5.02	0.93	55	0.28	0.114
1731344	Soil	3.38	50.46	44.49	80.9	3154	20.2	8.2	195	2.99	227.2	1.2	44.2	0.6	24.5	1.13	5.49	2.71	68	0.24	0.085
1731345	Soil	1.97	52.08	25.20	97.5	712	24.3	11.2	297	2.65	44.3	1.1	19.5	1.4	24.6	1.58	2.03	0.46	65	0.27	0.079
1731346	Soil	1.12	37.28	9.18	61.8	262	20.0	7.6	110	2.52	21.8	0.9	5.5	2.0	18.5	0.62	0.87	0.19	57	0.24	0.065
1731347	Soil	0.69	13.65	2.61	13.0	193	5.1	1.9	93	0.80	3.4	0.4	5.3	<0.1	12.5	0.10	0.27	0.10	13	0.10	0.049
1731348	Soil	1.32	24.00	2.84	27.0	147	9.0	7.6	1735	0.74	2.1	0.5	2.1	0.1	27.6	0.51	0.24	0.09	10	0.35	0.070
1731349	Soil	1.81	45.51	10.29	139.7	370	37.7	11.5	263	2.66	9.4	1.5	7.0	2.5	28.3	0.62	0.87	0.27	83	0.35	0.079



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 6 of 6

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000327.1

	Method	1F30																			
		Analyte																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1731339	Soil	10.8	37.2	0.85	110.7	0.136	3	2.57	0.015	0.16	0.1	5.0	0.14	0.03	16	0.3	0.05	6.0	1.22	<0.1	0.10
1731340	Soil	5.9	20.2	0.24	70.1	0.046	2	0.87	0.022	0.04	<0.1	1.7	0.10	0.05	55	0.9	0.02	4.1	1.40	<0.1	0.03
1731341	Soil	9.7	38.4	0.42	94.0	0.107	1	1.50	0.009	0.07	0.1	2.9	0.10	0.07	40	1.0	0.05	9.2	1.43	<0.1	0.02
1731342	Soil	9.8	34.7	0.40	92.7	0.095	1	1.52	0.009	0.07	0.2	2.5	0.10	0.07	27	1.0	0.09	8.2	1.37	<0.1	0.04
1731343	Soil	6.8	26.2	0.36	139.1	0.046	2	1.45	0.030	0.08	0.2	2.0	0.09	0.12	172	2.6	0.10	5.0	2.05	<0.1	0.02
1731344	Soil	8.3	30.7	0.41	119.9	0.063	2	1.24	0.013	0.08	0.2	2.3	0.11	0.11	137	1.7	0.11	6.0	2.04	<0.1	0.02
1731345	Soil	9.4	29.4	0.46	119.1	0.082	2	1.38	0.017	0.08	0.2	2.7	0.10	0.08	58	1.0	0.13	5.1	1.61	<0.1	0.03
1731346	Soil	8.9	23.3	0.43	116.2	0.082	<1	1.32	0.024	0.06	0.2	3.1	0.06	0.03	18	0.9	0.03	3.9	0.95	<0.1	0.04
1731347	Soil	2.5	8.0	0.12	44.1	0.014	<1	0.45	0.030	0.03	<0.1	0.5	0.05	0.05	28	0.3	0.03	2.4	0.49	<0.1	<0.02
1731348	Soil	3.3	7.2	0.09	127.1	0.016	<1	0.63	0.034	0.03	<0.1	0.7	0.06	0.07	24	0.8	<0.02	2.7	0.41	<0.1	0.02
1731349	Soil	13.5	50.5	0.85	160.9	0.092	1	2.21	0.009	0.07	0.2	4.9	0.16	0.03	40	0.9	0.05	7.3	1.62	<0.1	0.05

# CERTIFICATE OF ANALYSIS

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731339	Soil	1.31	16.5	1.0	<0.05	4.2	4.65	22.9	0.02	<1	0.5	15.3	<10	<2	10.4
1731340	Soil	0.62	7.4	2.4	<0.05	1.1	2.73	10.4	<0.02	<1	0.1	4.2	<10	<2	19.8
1731341	Soil	1.06	6.6	2.3	<0.05	1.5	3.86	18.4	0.02	<1	0.2	9.0	<10	<2	12.8
1731342	Soil	1.09	6.4	3.5	<0.05	1.7	4.02	17.6	<0.02	<1	0.6	9.0	<10	<2	14.3
1731343	Soil	0.72	8.8	7.5	<0.05	1.4	4.79	12.8	<0.02	<1	0.6	9.0	11	<2	22.4
1731344	Soil	0.86	11.2	8.1	<0.05	1.4	3.81	14.7	0.04	2	0.2	8.3	<10	<2	22.1
1731345	Soil	0.83	10.9	2.5	<0.05	1.6	4.54	16.7	0.05	<1	0.1	9.6	<10	<2	16.4
1731346	Soil	0.83	6.5	2.0	<0.05	2.2	5.41	15.8	<0.02	<1	0.3	8.5	<10	<2	I.S.
1731347	Soil	0.24	3.7	0.8	<0.05	0.4	1.32	5.3	0.02	<1	0.1	2.0	<10	<2	14.4
1731348	Soil	0.39	2.5	0.8	<0.05	1.1	2.70	8.9	<0.02	3	0.2	1.4	<10	<2	19.1
1731349	Soil	1.04	13.8	0.7	<0.05	2.0	7.56	30.8	0.03	2	0.5	18.7	<10	<2	9.4

# QUALITY CONTROL REPORT

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1731223	Soil	1.14	34.12	5.33	44.5	158	21.7	7.7	304	2.29	8.4	0.7	2.5	0.9	32.9	0.49	0.47	0.16	53	0.47	0.039
REP 1731223	QC																				
1731234	Soil	2.81	56.36	7.48	122.3	463	40.6	13.5	327	4.41	5.4	2.4	16.2	3.5	32.0	0.37	0.36	0.16	115	0.50	0.135
REP 1731234	QC	3.10	52.94	7.81	117.9	495	38.3	13.0	328	4.37	5.4	2.4	13.3	3.6	32.6	0.36	0.43	0.17	114	0.55	0.130
1731250	Rock Pulp	18.83	71.72	212.0	100.0	1271	88.6	35.8	106	0.88	18.4	0.2	167.4	0.1	4.3	0.13	2.04	6.76	<2	0.15	0.011
REP 1731250	QC	17.42	70.10	209.5	99.6	1250	85.8	35.1	103	0.88	18.0	0.2	164.8	0.1	4.1	0.11	2.00	6.91	<2	0.13	0.010
1731259	Soil	1.06	18.74	7.81	33.6	137	10.8	6.7	211	1.49	5.7	0.3	1.1	0.7	18.7	0.16	0.27	0.10	38	0.17	0.028
REP 1731259	QC																				
1731266	Soil	1.15	28.77	18.19	41.9	161	16.0	8.8	318	1.86	6.0	0.5	7.2	0.6	31.0	0.14	0.46	0.08	49	0.32	0.083
REP 1731266	QC	1.15	30.49	17.96	43.1	171	16.6	8.7	330	1.81	6.2	0.6	3.5	0.6	31.9	0.13	0.50	0.09	47	0.31	0.084
1731282	Soil	1.63	21.44	9.29	47.9	144	23.8	10.8	288	3.37	11.4	0.6	1.9	1.9	17.4	0.28	0.56	0.14	65	0.17	0.052
REP 1731282	QC	1.63	20.32	9.03	47.8	149	22.3	10.8	290	3.37	11.4	0.6	1.5	1.8	17.3	0.32	0.57	0.15	64	0.15	0.052
1731295	Soil	1.32	31.77	6.39	67.5	117	30.4	15.2	291	4.13	88.1	1.2	7.7	2.8	26.1	0.13	0.95	0.19	98	0.39	0.079
REP 1731295	QC																				
1731298	Soil	0.88	27.52	5.87	64.1	104	23.7	11.7	443	2.74	142.5	1.1	10.2	2.7	40.6	0.13	2.30	0.57	69	0.59	0.082
REP 1731298	QC	0.87	27.03	5.47	63.6	110	24.0	12.0	465	2.74	131.8	1.0	9.0	2.6	39.4	0.13	2.04	0.53	68	0.60	0.084
1731312	Soil	1.10	26.05	7.67	54.7	191	19.4	6.9	168	2.39	22.8	0.8	4.5	1.3	15.5	0.13	0.44	0.19	60	0.20	0.056
REP 1731312	QC	1.06	26.36	6.93	55.0	193	19.6	6.8	163	2.33	21.6	0.9	4.3	1.3	15.6	0.12	0.43	0.18	58	0.18	0.059
1731329	Soil	1.88	27.72	8.62	57.3	58	16.4	8.1	517	2.47	9.7	0.5	3.5	1.0	16.2	0.11	0.63	0.12	66	0.16	0.028
REP 1731329	QC	1.82	28.03	8.16	51.1	56	16.5	7.5	510	2.51	9.6	0.4	2.3	1.0	16.3	0.12	0.63	0.14	67	0.16	0.026
1731331	Soil	1.02	32.17	12.10	80.8	161	38.9	11.9	319	3.56	6.7	0.9	3.0	3.9	21.4	0.10	0.32	0.19	71	0.31	0.063
REP 1731331	QC																				
1731346	Soil	1.12	37.28	9.18	61.8	262	20.0	7.6	110	2.52	21.8	0.9	5.5	2.0	18.5	0.62	0.87	0.19	57	0.24	0.065
REP 1731346	QC	1.08	35.89	8.48	62.4	247	19.8	8.0	108	2.47	20.8	0.8	5.6	1.9	17.7	0.70	0.83	0.17	56	0.24	0.062
1731348	Soil	1.32	24.00	2.84	27.0	147	9.0	7.6	1735	0.74	2.1	0.5	2.1	0.1	27.6	0.51	0.24	0.09	10	0.35	0.070
REP 1731348	QC	1.22	23.81	2.61	28.6	155	8.7	7.8	1738	0.74	2.1	0.5	0.5	0.1	27.7	0.47	0.23	0.07	11	0.35	0.070
1731349	Soil	1.81	45.51	10.29	139.7	370	37.7	11.5	263	2.66	9.4	1.5	7.0	2.5	28.3	0.62	0.87	0.27	83	0.35	0.079
REP 1731349	QC	1.99	45.37	10.70	141.5	376	37.6	11.8	258	2.74	9.2	1.6	13.3	2.4	28.3	0.68	0.85	0.28	86	0.37	0.083



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 1 of 2

Part: 2 of 3

# QUALITY CONTROL REPORT

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1731223	Soil	11.1	23.9	0.45	240.9	0.067	3	1.48	0.030	0.06	0.1	3.0	0.07	0.04	20	0.2	0.03	6.0	1.21	<0.1	0.05
REP 1731223	QC																				
1731234	Soil	16.2	59.9	1.23	424.5	0.203	2	2.76	0.018	0.18	0.1	6.2	0.22	0.02	38	1.4	0.08	10.0	2.46	0.1	0.08
REP 1731234	QC	16.7	60.2	1.22	395.9	0.213	2	2.73	0.018	0.18	0.2	6.8	0.23	0.02	31	1.5	0.09	9.3	2.51	<0.1	0.08
1731250	Rock Pulp	<0.5	44.4	0.01	2.9	0.003	1	0.12	0.015	0.05	0.4	0.3	0.18	0.03	1837	<0.1	<0.02	0.3	1.71	<0.1	0.02
REP 1731250	QC	<0.5	44.0	<0.01	3.3	0.003	<1	0.10	0.015	0.05	0.5	0.3	0.20	0.03	1833	<0.1	<0.02	0.3	1.67	<0.1	<0.02
1731259	Soil	5.3	15.1	0.23	71.6	0.059	<1	1.07	0.027	0.05	<0.1	1.6	0.04	<0.02	<5	0.2	<0.02	4.0	0.76	<0.1	0.05
REP 1731259	QC																				
1731266	Soil	7.1	23.7	0.35	76.8	0.070	1	1.06	0.024	0.04	0.1	1.9	0.05	0.06	29	0.2	0.04	3.9	0.79	<0.1	0.05
REP 1731266	QC	7.2	23.3	0.34	82.5	0.066	1	1.09	0.024	0.04	0.2	2.0	0.05	0.06	34	0.4	0.07	4.1	0.84	<0.1	0.03
1731282	Soil	7.7	36.5	0.43	58.3	0.093	2	2.70	0.011	0.05	0.1	3.5	0.08	0.03	53	0.3	0.06	6.8	1.24	<0.1	0.09
REP 1731282	QC	7.8	35.8	0.43	62.7	0.089	1	2.74	0.010	0.05	0.1	3.2	0.08	0.03	58	0.4	0.02	6.6	1.22	<0.1	0.11
1731295	Soil	14.7	48.7	1.06	172.0	0.101	4	2.54	0.018	0.07	0.1	9.0	0.15	0.03	54	0.5	0.03	7.5	2.36	<0.1	0.09
REP 1731295	QC																				
1731298	Soil	16.3	35.7	0.85	235.3	0.110	2	1.85	0.020	0.10	0.2	5.3	0.16	0.02	38	0.2	<0.02	6.0	3.06	<0.1	0.05
REP 1731298	QC	15.2	39.3	0.85	219.7	0.115	3	1.89	0.021	0.10	0.1	5.1	0.15	0.02	39	0.3	<0.02	6.0	2.84	<0.1	0.05
1731312	Soil	6.9	28.0	0.38	91.5	0.080	<1	1.49	0.028	0.06	0.1	3.5	0.11	0.03	40	0.8	0.03	5.3	1.10	<0.1	0.04
REP 1731312	QC	6.7	27.4	0.40	94.4	0.074	<1	1.49	0.027	0.06	<0.1	3.3	0.10	0.03	31	0.9	0.07	5.4	1.15	<0.1	0.03
1731329	Soil	5.9	19.5	0.27	76.0	0.073	1	1.10	0.021	0.04	0.1	1.7	0.07	0.02	15	0.5	<0.02	5.0	1.00	<0.1	<0.02
REP 1731329	QC	6.2	19.8	0.27	80.2	0.074	1	1.14	0.022	0.04	<0.1	1.8	0.08	0.02	11	<0.1	0.08	5.4	1.00	<0.1	0.02
1731331	Soil	13.5	47.9	0.94	133.9	0.145	1	2.59	0.012	0.21	<0.1	4.6	0.21	0.02	24	0.3	0.02	7.5	1.82	<0.1	0.03
REP 1731331	QC																				
1731346	Soil	8.9	23.3	0.43	116.2	0.082	<1	1.32	0.024	0.06	0.2	3.1	0.06	0.03	18	0.9	0.03	3.9	0.95	<0.1	0.04
REP 1731346	QC	8.6	22.8	0.40	111.3	0.079	1	1.32	0.024	0.06	0.1	3.2	0.06	0.03	24	0.6	0.08	3.8	0.86	<0.1	0.04
1731348	Soil	3.3	7.2	0.09	127.1	0.016	<1	0.63	0.034	0.03	<0.1	0.7	0.06	0.07	24	0.8	<0.02	2.7	0.41	<0.1	0.02
REP 1731348	QC	3.1	7.7	0.09	121.3	0.017	<1	0.63	0.037	0.03	<0.1	0.7	0.05	0.07	12	0.7	<0.02	2.6	0.41	<0.1	<0.02
1731349	Soil	13.5	50.5	0.85	160.9	0.092	1	2.21	0.009	0.07	0.2	4.9	0.16	0.03	40	0.9	0.05	7.3	1.62	<0.1	0.05
REP 1731349	QC	13.7	50.5	0.86	163.1	0.098	2	2.26	0.010	0.08	0.1	5.2	0.16	0.03	45	0.9	0.07	7.5	1.66	<0.1	0.05

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.

## QUALITY CONTROL REPORT

WHI13000327.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
Pulp Duplicates															
1731223	Soil	1.33	8.1	0.9	<0.05	2.9	6.83	22.1	<0.02	<1	0.5	8.6	<10	<2	17.2
REP 1731223	QC														17.2
1731234	Soil	1.98	16.7	0.9	<0.05	4.3	8.29	30.9	0.03	<1	0.7	22.0	10	<2	8.6
REP 1731234	QC	2.14	16.5	0.9	<0.05	4.5	8.75	32.4	0.04	2	0.7	21.8	11	<2	
1731250	Rock Pulp	0.07	18.1	0.2	<0.05	0.7	0.31	0.6	<0.02	<1	0.2	1.7	<10	<2	1.1
REP 1731250	QC	0.06	17.8	0.2	<0.05	0.7	0.26	0.5	<0.02	<1	0.2	1.7	<10	<2	
1731259	Soil	0.83	7.4	6.0	<0.05	1.7	2.15	10.3	<0.02	<1	0.2	7.3	<10	<2	10.6
REP 1731259	QC														10.2
1731266	Soil	0.71	5.7	22.6	<0.05	2.2	3.05	14.5	<0.02	<1	0.4	6.4	<10	<2	19.3
REP 1731266	QC	0.72	6.3	20.1	<0.05	2.1	3.29	14.6	<0.02	<1	0.1	7.1	<10	<2	
1731282	Soil	1.85	7.9	2.8	<0.05	4.7	3.33	16.4	0.03	<1	0.4	23.9	10	<2	23.4
REP 1731282	QC	2.01	7.6	2.8	<0.05	5.2	3.29	16.6	0.02	<1	0.4	22.6	<10	<2	
1731295	Soil	1.36	12.0	0.7	<0.05	4.8	9.51	32.5	0.03	<1	0.5	17.5	<10	<2	11.9
REP 1731295	QC														12.3
1731298	Soil	1.76	11.0	0.9	<0.05	2.8	6.24	36.4	0.02	<1	0.5	13.8	<10	<2	10.1
REP 1731298	QC	1.64	10.9	0.8	<0.05	2.6	6.04	34.5	0.03	<1	0.5	14.6	<10	<2	
1731312	Soil	0.95	7.1	1.1	<0.05	2.2	3.90	14.7	<0.02	<1	0.3	7.7	<10	<2	11.7
REP 1731312	QC	0.86	7.3	1.0	<0.05	1.8	3.83	14.6	<0.02	1	0.4	8.5	<10	<2	
1731329	Soil	0.81	7.4	3.3	<0.05	1.5	2.24	11.0	<0.02	<1	0.4	5.8	<10	<2	11.7
REP 1731329	QC	0.77	7.3	2.7	<0.05	1.4	2.26	11.9	<0.02	<1	0.4	5.6	<10	<2	
1731331	Soil	1.41	25.7	4.0	<0.05	2.5	5.86	24.3	<0.02	<1	0.3	23.3	<10	<2	9.6
REP 1731331	QC														9.7
1731346	Soil	0.83	6.5	2.0	<0.05	2.2	5.41	15.8	<0.02	<1	0.3	8.5	<10	<2	I.S.
REP 1731346	QC	0.78	5.9	1.6	<0.05	2.3	5.02	15.2	0.02	<1	<0.1	8.2	<10	<2	
1731348	Soil	0.39	2.5	0.8	<0.05	1.1	2.70	8.9	<0.02	3	0.2	1.4	<10	<2	19.1
REP 1731348	QC	0.35	2.5	0.4	<0.05	1.0	2.68	8.5	<0.02	<1	0.2	1.5	<10	<2	
1731349	Soil	1.04	13.8	0.7	<0.05	2.0	7.56	30.8	0.03	2	0.5	18.7	<10	<2	9.4
REP 1731349	QC	1.14	15.2	0.8	<0.05	2.2	7.74	30.8	0.03	3	0.5	20.3	<10	<2	



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 04, 2013

Page: 2 of 2

Part: 1 of 3

# QUALITY CONTROL REPORT

WHI13000327.1

		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Reference Materials																						
STD DOLOMITE-2	Standard																					
STD DOLOMITE-2	Standard																					
STD DOLOMITE-2	Standard																					
STD DOLOMITE-2	Standard																					
STD DS9	Standard	12.45	101.4	125.2	297.6	1685	38.9	7.2	554	2.38	24.8	2.8	108.0	6.2	60.9	2.26	4.61	5.53	41	0.76	0.076	
STD DS9	Standard	14.30	93.24	130.2	309.5	1865	41.0	7.0	630	2.32	22.1	2.6	116.1	6.4	79.8	2.18	4.83	6.38	41	0.78	0.073	
STD DS9	Standard	13.25	103.8	127.0	329.9	1832	42.5	7.2	633	2.35	22.6	2.6	116.0	6.2	79.3	1.94	4.48	6.66	41	0.80	0.074	
STD DS9	Standard	12.98	107.8	129.6	314.5	1896	40.4	7.6	593	2.36	26.3	2.8	122.8	6.5	74.2	2.49	5.67	7.61	41	0.73	0.084	
STD DS9	Standard	12.91	109.6	122.7	315.6	1773	41.2	8.1	605	2.31	25.5	2.6	120.5	6.3	73.2	2.33	5.19	6.63	41	0.76	0.080	
STD DOLOMITE-2 Expected																						
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	
BLK	Blank	<0.01	<0.01	<0.01	<0.1	5	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	2	<0.1	<0.1	1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	
BLK	Blank	<0.01	<0.01	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	

## QUALITY CONTROL REPORT

WHI13000327.1

		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Reference Materials																					
STD DOLOMITE-2	Standard																				
STD DOLOMITE-2	Standard																				
STD DOLOMITE-2	Standard																				
STD DOLOMITE-2	Standard																				
STD DS9	Standard	12.6	118.2	0.62	291.4	0.107	3	1.00	0.096	0.41	2.8	2.4	4.95	0.17	197	4.5	5.04	4.3	2.21	<0.1	0.07
STD DS9	Standard	14.4	134.5	0.63	320.0	0.127	2	1.03	0.098	0.41	2.9	2.8	5.55	0.16	211	5.4	5.43	5.3	2.60	0.1	0.10
STD DS9	Standard	14.1	135.3	0.63	321.4	0.112	3	1.06	0.087	0.43	2.9	2.8	4.93	0.17	207	6.0	4.95	5.4	2.56	0.1	0.07
STD DS9	Standard	15.4	120.9	0.64	321.2	0.111	3	0.97	0.083	0.40	3.1	2.7	5.51	0.16	196	5.5	4.98	4.8	2.62	0.1	0.09
STD DS9	Standard	15.2	118.7	0.63	306.2	0.118	3	1.02	0.098	0.41	3.1	2.6	5.17	0.16	210	5.5	4.99	4.8	2.38	0.2	0.08
STD DOLOMITE-2 Expected																					
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	0.05	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	1.3	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

## QUALITY CONTROL REPORT

WHI13000327.1

		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
		%													
Reference Materials															
STD DOLOMITE-2	Standard														46.0
STD DOLOMITE-2	Standard														46.2
STD DOLOMITE-2	Standard														45.8
STD DOLOMITE-2	Standard														46.2
STD DS9	Standard	1.44	32.1	6.4	<0.05	1.7	6.04	21.0	1.93	66	5.5	22.7	96	350	
STD DS9	Standard	1.65	31.1	5.8	<0.05	2.4	7.10	27.3	2.04	55	5.9	23.1	129	334	
STD DS9	Standard	1.51	31.0	5.4	<0.05	2.1	6.93	26.3	1.95	56	5.9	23.1	139	351	
STD DS9	Standard	1.46	36.0	6.6	<0.05	1.9	6.85	32.0	2.37	68	5.8	24.4	140	381	
STD DS9	Standard	1.41	33.3	6.8	<0.05	2.1	6.44	28.6	2.06	64	5.7	25.1	115	334	
STD DOLOMITE-2 Expected															45.9
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Teck Resources Limited
Suite 3300, 550 Burrard St.
Vancouver BC V6C 0B3 CANADA

Submitted By: Michael Buchanan and Rupa Mukherjee
Receiving Lab: Canada-Whitehorse
Received: August 23, 2013
Report Date: September 09, 2013
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI13000328.1

CLIENT JOB INFORMATION

Project: 210800
Shipment ID: YTG\_WLF\_2013\_017
P.O. Number
Number of Samples: 113

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

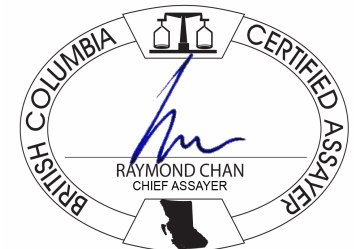
Invoice To: Teck Resources Limited
Suite 3300, 550 Burrard St.
Vancouver BC V6C 0B3
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include procedures like 'Dry at 60C', 'SS80', 'RJSV', '1F06', and '2A05'.

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Teck Resources Limited**

Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Project: 210800

Report Date: September 09, 2013

Page: 2 of 5

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1731350	Rock Pulp	18.75	86.01	222.7	101.7	1232	91.0	41.1	113	0.79	18.8	0.3	155.2	0.1	4.4	0.19	2.09	7.72	<2	0.13	0.011
1731351	Soil	0.62	38.93	5.84	60.2	86	17.9	9.9	231	2.10	56.4	1.0	5.1	1.7	38.1	0.23	0.78	0.37	63	0.48	0.079
1731352	Soil	1.11	37.25	6.62	52.8	192	22.4	10.1	383	2.30	31.8	1.1	10.9	2.0	35.0	0.08	0.63	0.20	64	0.42	0.082
1731353	Soil	1.09	38.30	4.85	47.9	320	17.9	8.2	450	2.04	31.4	1.1	5.5	1.3	38.3	0.11	0.65	0.16	58	0.43	0.091
1731354	Soil	0.86	41.18	7.02	51.9	278	18.5	8.2	418	1.50	129.3	1.4	5.2	0.6	57.2	0.32	0.99	0.25	31	0.55	0.068
1731355	Soil	0.85	29.52	7.59	72.3	170	24.9	11.1	246	3.17	24.0	1.0	4.0	2.4	31.9	0.11	0.62	0.20	99	0.35	0.076
1731356	Soil	0.52	23.34	2.35	25.7	245	6.5	4.8	124	2.25	40.8	0.7	1.3	0.7	20.8	0.10	0.22	0.06	63	0.23	0.068
1731357	Soil	0.85	21.81	1.78	14.4	89	5.0	4.2	131	2.77	364.1	0.7	2.3	0.8	20.4	0.15	0.37	0.07	73	0.21	0.059
1731358	Soil	0.59	33.18	5.23	46.3	119	17.6	10.1	190	3.11	32.3	1.0	3.4	1.6	36.9	0.12	0.63	0.12	61	0.46	0.080
1731359	Soil	0.48	21.45	8.16	68.4	125	23.1	13.5	237	2.44	16.8	0.9	3.3	2.9	27.1	0.26	0.84	0.20	71	0.40	0.066
1731360	Soil	1.64	35.26	5.14	60.4	332	17.4	14.2	682	1.79	6.3	1.0	3.6	0.6	25.0	0.49	0.45	0.13	49	0.27	0.074
1731361	Soil	9.38	55.02	8.97	131.1	1095	34.0	9.8	255	3.47	22.7	3.2	2.7	2.6	69.2	0.98	1.38	0.27	107	0.39	0.124
1731362	Soil	10.96	56.59	10.13	141.5	1246	35.1	10.7	259	3.74	26.5	3.2	8.2	3.5	81.8	1.08	1.46	0.31	117	0.40	0.132
1731363	Soil	1.51	33.75	7.61	79.6	259	21.0	14.9	685	2.23	8.7	0.7	2.0	0.8	31.3	0.59	0.59	0.16	61	0.36	0.079
1731364	Soil	2.90	39.55	10.15	82.5	123	26.8	11.8	376	3.62	12.2	0.9	3.6	0.6	23.3	0.26	1.06	0.20	86	0.20	0.062
1731365	Soil	3.09	61.69	9.69	201.2	722	50.5	12.7	477	4.34	13.3	1.2	8.2	1.8	40.8	0.45	1.00	0.24	127	0.26	0.072
1731366	Soil	1.47	34.36	8.09	68.7	167	42.9	20.6	470	3.57	11.1	0.7	3.3	3.2	28.2	0.42	0.54	0.15	73	0.30	0.061
1731367	Soil	2.98	37.27	9.81	62.9	553	20.8	9.0	363	2.87	12.3	0.8	2.2	0.6	23.7	0.41	0.77	0.26	78	0.20	0.052
1731368	Soil	3.44	36.50	8.30	74.0	387	20.7	6.4	258	2.80	17.6	0.8	3.1	1.2	20.4	0.45	0.84	0.22	86	0.18	0.042
1731369	Soil	2.66	41.74	6.27	88.1	477	22.5	7.9	256	2.25	10.1	1.0	1.4	0.9	22.4	0.55	0.63	0.17	63	0.20	0.059
1731370	Rock Pulp	1.20	23.61	0.92	22.9	818	7.6	4.5	108	1.58	1.3	0.2	109.4	0.4	16.1	0.01	1.20	1.79	29	0.34	0.027
1731371	Soil	2.34	56.61	5.33	72.1	525	21.6	12.0	482	2.48	6.2	1.5	5.0	0.9	33.9	0.58	0.40	0.13	68	0.51	0.099
1731372	Soil	2.52	58.34	11.03	178.2	681	52.1	14.4	399	3.21	15.8	1.2	9.6	3.7	36.9	0.55	0.60	0.22	79	0.43	0.094
1731373	Soil	1.38	16.21	2.47	16.1	235	3.6	8.1	325	1.14	2.8	0.5	2.1	0.3	11.3	0.08	0.14	0.05	36	0.12	0.052
1731374	Soil	3.90	80.50	9.09	128.7	420	54.6	20.4	348	3.79	9.3	2.8	9.6	4.0	39.9	1.05	0.85	0.21	93	0.54	0.104
1731375	Soil	2.52	39.77	7.79	74.4	264	25.6	15.9	568	2.79	8.4	0.8	0.7	1.3	23.5	0.43	0.55	0.19	76	0.21	0.066
1731376	Soil	1.72	49.67	6.26	81.8	208	42.1	13.2	375	3.14	6.1	0.9	7.4	2.4	27.7	0.27	0.51	0.16	77	0.41	0.091
1731377	Soil	1.25	51.34	6.97	103.1	226	54.3	18.5	786	3.84	10.1	1.0	9.3	3.2	26.9	0.34	0.88	0.23	91	0.40	0.078
1731378	Soil	2.59	47.65	7.86	103.8	635	36.6	13.8	419	3.24	8.3	1.2	5.3	2.3	25.1	0.45	1.18	0.19	83	0.35	0.077
1731379	Soil	1.44	37.03	9.37	78.5	295	35.6	14.8	470	3.30	6.9	0.9	6.7	2.8	29.7	0.50	0.46	0.18	76	0.40	0.057

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.

# CERTIFICATE OF ANALYSIS

WHI13000328.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1731350	Rock Pulp	<0.5	43.0	<0.01	2.8	0.003	<1	0.10	0.013	0.04	0.4	0.3	0.17	<0.02	1834	<0.1	<0.02	0.2	1.62	<0.1	0.03
1731351	Soil	10.4	32.4	0.71	209.3	0.078	2	1.69	0.032	0.05	0.1	5.3	0.11	0.06	45	0.2	<0.02	5.4	1.31	<0.1	0.03
1731352	Soil	11.3	41.4	0.67	151.1	0.111	2	1.65	0.026	0.05	0.1	4.2	0.13	0.05	35	0.2	<0.02	5.2	1.28	<0.1	0.04
1731353	Soil	9.8	31.7	0.54	137.4	0.089	2	1.30	0.029	0.04	<0.1	3.4	0.09	0.08	40	0.3	<0.02	4.3	1.07	<0.1	0.03
1731354	Soil	12.3	18.8	0.36	210.4	0.045	2	1.34	0.029	0.05	<0.1	2.7	0.09	0.08	48	0.2	0.06	3.9	1.33	<0.1	0.03
1731355	Soil	10.1	41.4	0.75	141.7	0.171	1	1.98	0.023	0.08	0.1	3.8	0.11	0.04	30	0.2	0.03	6.7	1.44	<0.1	0.06
1731356	Soil	6.3	12.6	0.13	68.5	0.078	<1	0.78	0.033	0.03	<0.1	1.7	0.06	0.07	32	0.2	0.03	3.4	0.41	<0.1	0.04
1731357	Soil	8.0	11.2	0.08	71.8	0.049	<1	0.67	0.043	0.03	<0.1	2.0	0.06	0.06	12	0.1	0.08	2.3	0.22	<0.1	0.02
1731358	Soil	8.1	32.2	0.43	171.8	0.110	2	1.49	0.030	0.06	<0.1	3.3	0.09	0.09	31	0.2	<0.02	5.4	0.94	<0.1	0.06
1731359	Soil	11.5	42.4	0.79	174.5	0.148	2	2.12	0.019	0.06	0.1	4.7	0.12	0.03	27	<0.1	<0.02	6.5	1.41	<0.1	0.06
1731360	Soil	8.1	20.6	0.29	72.6	0.059	1	0.96	0.025	0.05	0.1	2.1	0.10	0.07	36	0.4	0.05	4.1	1.05	<0.1	0.04
1731361	Soil	18.2	35.8	0.51	155.7	0.086	1	1.34	0.054	0.25	0.3	3.3	0.22	0.48	43	5.0	0.17	4.8	2.44	<0.1	0.02
1731362	Soil	19.8	38.9	0.55	160.9	0.100	1	1.36	0.061	0.29	0.4	3.5	0.23	0.55	25	5.7	0.14	5.1	2.80	0.1	0.04
1731363	Soil	8.6	23.2	0.37	95.9	0.075	2	1.12	0.027	0.06	0.1	2.3	0.09	0.07	37	0.3	0.05	4.8	0.98	<0.1	0.03
1731364	Soil	9.8	37.4	0.51	106.5	0.078	2	1.56	0.015	0.06	0.1	2.8	0.12	0.07	56	0.5	0.08	7.3	1.37	<0.1	0.02
1731365	Soil	13.1	64.2	0.81	161.8	0.159	1	2.16	0.020	0.13	<0.1	4.4	0.17	0.13	43	1.1	0.16	9.6	2.39	<0.1	0.04
1731366	Soil	11.0	46.7	0.77	103.7	0.131	2	2.72	0.018	0.09	0.1	5.1	0.10	0.03	26	0.3	0.04	6.3	1.34	<0.1	0.09
1731367	Soil	9.5	29.8	0.41	117.9	0.073	1	1.36	0.016	0.09	<0.1	2.2	0.11	0.07	34	0.2	0.06	7.2	1.44	<0.1	0.03
1731368	Soil	8.9	26.4	0.41	84.6	0.097	<1	1.35	0.023	0.11	<0.1	2.5	0.14	0.07	31	0.7	0.06	6.9	2.79	<0.1	0.03
1731369	Soil	8.0	31.0	0.41	123.2	0.075	1	1.32	0.029	0.10	<0.1	2.5	0.15	0.08	32	0.9	0.06	5.7	1.93	<0.1	0.03
1731370	Rock Pulp	2.9	7.8	0.09	15.8	0.231	<1	0.35	0.079	0.05	0.2	0.8	0.10	<0.02	<5	<0.1	<0.02	1.5	2.33	<0.1	0.34
1731371	Soil	8.4	21.7	0.39	114.3	0.077	<1	1.16	0.033	0.07	<0.1	2.7	0.10	0.07	36	1.1	0.04	4.4	1.11	<0.1	0.04
1731372	Soil	16.0	45.6	0.90	226.5	0.148	1	2.14	0.021	0.16	0.2	5.1	0.17	0.04	30	0.6	0.06	6.4	2.37	<0.1	0.05
1731373	Soil	3.0	5.5	0.07	45.7	0.047	<1	0.38	0.048	0.03	<0.1	1.0	0.04	0.03	12	0.5	<0.02	2.5	0.18	<0.1	0.03
1731374	Soil	18.8	57.6	0.88	496.8	0.141	2	2.52	0.022	0.09	0.1	7.8	0.17	0.03	45	3.1	0.07	7.4	1.67	<0.1	0.09
1731375	Soil	8.4	34.8	0.46	185.6	0.094	1	1.58	0.025	0.08	<0.1	3.0	0.12	0.04	26	0.8	0.05	6.6	1.75	<0.1	0.03
1731376	Soil	12.8	44.1	0.80	183.6	0.156	<1	1.82	0.027	0.19	0.1	4.1	0.13	0.05	24	0.4	<0.02	6.6	1.59	<0.1	0.06
1731377	Soil	14.8	59.2	1.06	239.2	0.166	2	2.29	0.015	0.21	0.2	5.7	0.14	0.03	22	0.4	0.07	6.9	1.99	<0.1	0.05
1731378	Soil	12.6	47.4	0.90	169.5	0.134	2	2.24	0.016	0.14	0.2	4.6	0.14	0.04	37	0.6	0.07	7.0	1.62	<0.1	0.05
1731379	Soil	12.9	41.8	0.81	142.3	0.160	2	2.06	0.024	0.21	0.2	4.7	0.16	0.04	46	0.3	0.05	7.4	1.69	<0.1	0.06



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 09, 2013

Page: 2 of 5

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731350	Rock Pulp	0.07	18.5	0.2	<0.05	0.6	0.28	0.6	0.02	<1	0.1	1.7	<10	<2	0.7
1731351	Soil	0.90	5.5	1.3	<0.05	2.2	4.56	23.7	<0.02	<1	0.2	11.8	<10	<2	14.0
1731352	Soil	1.22	8.9	0.9	<0.05	2.4	4.21	27.0	0.03	<1	0.4	11.4	<10	<2	13.9
1731353	Soil	1.12	7.3	0.7	<0.05	2.4	5.37	20.7	<0.02	3	0.2	8.0	<10	<2	20.7
1731354	Soil	0.85	8.1	2.5	<0.05	2.0	9.94	25.1	0.02	1	0.3	7.7	<10	<2	28.6
1731355	Soil	1.27	12.4	1.4	<0.05	2.4	4.07	20.9	<0.02	<1	0.2	14.3	<10	<2	11.0
1731356	Soil	0.53	2.7	0.4	<0.05	2.6	3.34	13.9	<0.02	<1	0.2	2.3	<10	<2	19.9
1731357	Soil	0.40	2.3	0.4	<0.05	2.1	5.56	18.9	<0.02	<1	0.2	1.1	<10	<2	17.2
1731358	Soil	1.09	8.1	1.0	<0.05	4.3	5.48	17.3	<0.02	<1	0.2	9.4	<10	<2	22.1
1731359	Soil	1.09	10.4	1.3	<0.05	2.2	5.00	26.3	<0.02	<1	0.2	18.1	<10	<2	10.3
1731360	Soil	0.63	7.5	1.2	<0.05	1.3	3.89	18.0	<0.02	<1	0.2	6.4	<10	<2	20.1
1731361	Soil	0.89	20.2	0.8	<0.05	1.7	9.73	32.7	0.05	4	0.6	13.8	<10	<2	14.6
1731362	Soil	0.70	23.4	1.1	<0.05	1.6	10.63	35.8	0.04	2	0.8	15.3	<10	<2	9.9
1731363	Soil	0.74	7.2	1.7	<0.05	1.3	3.63	19.2	0.02	<1	0.2	8.1	<10	<2	18.0
1731364	Soil	1.01	8.9	2.0	<0.05	1.3	3.92	21.7	0.04	<1	0.4	12.3	<10	<2	19.2
1731365	Soil	1.72	14.9	1.5	<0.05	1.8	4.01	26.3	0.03	1	0.6	16.6	<10	<2	18.5
1731366	Soil	1.49	10.1	0.9	<0.05	5.7	4.48	27.9	0.03	<1	0.5	19.6	<10	<2	11.4
1731367	Soil	1.25	13.0	1.7	<0.05	1.2	3.14	20.5	<0.02	<1	0.3	8.8	<10	<2	16.8
1731368	Soil	1.22	12.6	1.0	<0.05	1.9	2.98	18.8	<0.02	<1	0.3	12.1	<10	<2	15.6
1731369	Soil	1.03	11.3	0.7	<0.05	1.8	3.32	16.9	0.03	<1	0.3	11.8	<10	<2	17.3
1731370	Rock Pulp	0.16	10.7	0.2	<0.05	15.4	6.84	7.2	<0.02	<1	0.1	5.9	23	<2	0.8
1731371	Soil	0.75	9.9	0.8	<0.05	1.8	5.66	18.0	<0.02	3	0.2	8.3	<10	<2	15.6
1731372	Soil	0.77	20.2	0.7	<0.05	3.1	6.47	31.9	0.04	2	0.4	21.4	<10	<2	6.6
1731373	Soil	0.31	1.7	0.3	<0.05	0.9	2.29	6.8	<0.02	<1	<0.1	0.9	<10	<2	9.6
1731374	Soil	1.48	11.8	0.8	<0.05	6.0	14.95	40.6	0.03	<1	0.7	21.6	<10	2	9.5
1731375	Soil	1.01	10.8	1.0	<0.05	1.5	3.18	18.1	0.03	<1	0.4	12.8	<10	<2	11.7
1731376	Soil	1.61	17.5	0.6	<0.05	2.3	5.41	25.9	<0.02	<1	0.4	19.4	<10	<2	10.2
1731377	Soil	1.08	17.2	0.8	<0.05	2.4	6.70	31.2	0.05	2	0.6	22.0	<10	<2	6.8
1731378	Soil	1.40	16.6	0.8	<0.05	2.2	5.18	24.3	0.03	<1	0.4	20.7	<10	<2	11.3
1731379	Soil	2.00	23.3	1.8	<0.05	3.0	5.43	29.7	0.02	<1	0.4	20.4	<10	<2	13.0

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 09, 2013

Page: 3 of 5 Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000328.1

Method	Analyte	Unit	MDL	1F30 Mo	1F30 Cu	1F30 Pb	1F30 Zn	1F30 Ag	1F30 Ni	1F30 Co	1F30 Mn	1F30 Fe	1F30 As	1F30 U	1F30 Au	1F30 Th	1F30 Sr	1F30 Cd	1F30 Sb	1F30 Bi	1F30 V	1F30 Ca	1F30 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1731380	Soil			1.15	40.43	12.08	97.2	197	39.9	16.6	277	3.04	17.3	1.6	10.3	5.2	28.3	0.62	1.55	0.27	78	0.45	0.079
1731381	Soil			1.67	36.32	13.31	90.0	246	28.4	17.2	267	3.35	39.6	1.0	8.2	3.3	25.8	0.48	1.71	0.34	72	0.34	0.073
1731382	Soil			1.92	30.20	13.06	92.8	225	25.4	17.1	302	3.43	49.1	0.9	8.8	2.3	25.4	0.45	1.79	0.39	73	0.29	0.073
1731383	Soil			1.29	34.50	11.80	71.2	205	20.1	7.3	133	2.79	76.4	0.8	8.4	2.3	23.3	0.64	2.05	0.40	59	0.25	0.068
1731384	Soil			1.15	32.98	13.44	72.1	289	25.1	9.2	176	2.57	22.1	1.1	7.2	2.6	27.2	0.52	2.53	0.27	66	0.33	0.078
1731385	Soil			1.06	24.28	4.79	35.5	205	11.9	5.0	137	1.57	7.7	0.7	4.5	0.6	26.8	0.26	0.54	0.12	46	0.23	0.067
1731386	Soil			3.55	39.67	22.78	101.5	1145	25.9	17.0	511	3.23	46.5	1.2	20.1	1.3	28.3	0.89	3.45	0.58	83	0.26	0.088
1731387	Soil			0.83	22.12	4.46	21.9	254	7.8	4.4	194	1.17	3.3	0.9	1.8	0.3	17.3	0.05	0.26	0.10	22	0.15	0.060
1731388	Soil			1.12	24.50	7.62	53.6	169	21.5	8.9	415	2.65	6.3	0.8	3.5	1.4	26.1	0.08	0.33	0.16	54	0.27	0.058
1731389	Soil			1.44	36.31	5.94	23.2	113	8.0	3.2	127	1.16	5.2	0.4	2.7	0.2	16.4	0.06	0.45	0.15	37	0.14	0.026
1731390	Rock Pulp			16.93	78.69	211.3	100.6	1167	85.2	37.2	110	0.76	19.0	0.2	167.3	<0.1	4.4	0.18	1.97	7.60	2	0.13	0.011
1731391	Soil			1.88	19.26	8.16	47.4	104	18.1	7.1	217	2.96	9.9	0.5	2.1	1.5	18.6	0.10	0.62	0.23	70	0.17	0.038
1731392	Soil			0.61	25.99	9.48	67.8	90	31.5	11.9	367	3.25	5.8	1.0	2.5	4.5	25.2	0.08	0.30	0.21	62	0.31	0.049
1731393	Soil			0.68	31.19	9.41	73.7	79	36.2	14.5	469	3.33	5.7	1.1	1.2	5.3	58.8	0.08	0.40	0.21	64	0.58	0.061
1731394	Soil			0.75	34.63	8.25	60.5	81	22.5	11.4	393	2.91	5.4	0.7	2.5	2.8	25.3	0.11	0.34	0.15	66	0.25	0.055
1731395	Soil			1.08	31.40	4.83	35.2	337	12.5	7.5	389	1.48	4.7	1.0	2.2	0.4	26.8	0.13	0.42	0.11	30	0.27	0.063
1731396	Soil			0.92	20.35	4.20	42.0	289	12.1	6.0	241	1.45	4.1	0.7	2.9	0.4	32.5	0.18	0.30	0.11	31	0.45	0.068
1731397	Soil			2.42	46.67	8.11	100.1	460	35.5	11.3	506	3.40	9.2	1.5	4.3	2.2	31.1	0.50	0.48	0.20	80	0.32	0.067
1731398	Soil			0.87	26.40	8.41	78.3	81	33.2	13.3	461	3.81	6.3	0.9	2.1	4.5	22.7	0.12	0.41	0.20	61	0.29	0.060
1731399	Soil			0.67	23.89	4.40	40.4	91	10.1	5.7	273	1.24	3.9	0.5	<0.2	0.3	31.0	0.12	0.24	0.11	23	0.40	0.061
1731400	Soil			0.79	25.13	6.54	52.3	199	17.8	9.6	503	2.01	4.6	0.9	4.2	0.8	36.4	0.21	0.29	0.12	38	0.40	0.069
1731401	Soil			1.11	21.63	2.89	32.9	354	8.6	6.0	399	1.86	2.9	0.8	1.7	0.6	23.9	0.10	0.26	0.08	48	0.26	0.076
1731402	Soil			1.41	29.57	9.08	88.4	390	30.7	10.4	288	3.09	6.7	0.9	4.6	3.1	27.0	0.13	0.50	0.27	68	0.34	0.069
1731403	Soil			0.97	24.18	4.87	55.0	339	18.0	6.3	223	1.89	4.0	1.0	2.7	1.0	26.0	0.20	0.30	0.13	41	0.28	0.062
1731404	Soil			0.87	27.11	4.08	30.0	399	11.5	4.6	206	1.38	3.5	0.9	2.0	0.5	20.7	0.10	0.26	0.11	28	0.21	0.062
1731405	Soil			1.20	34.24	7.73	86.5	217	34.3	13.4	535	3.21	6.8	0.9	3.6	3.3	28.5	0.20	0.43	0.17	73	0.35	0.069
1731406	Soil			1.25	29.88	10.32	78.2	66	29.6	13.7	491	3.30	8.3	0.8	2.2	3.7	26.9	0.23	0.49	0.22	72	0.31	0.062
1731407	Soil			0.93	24.86	5.61	51.8	75	21.6	6.8	231	2.10	5.0	0.6	0.6	1.8	25.4	0.10	0.33	0.14	43	0.26	0.043
1731408	Soil			0.55	29.49	8.17	61.3	46	37.4	16.7	495	3.46	7.6	0.6	0.8	3.8	23.8	0.27	0.44	0.17	64	0.36	0.085
1731409	Soil			1.06	29.15	6.18	44.2	166	18.5	10.5	1406	2.02	6.2	0.7	2.9	1.3	26.6	0.16	0.31	0.11	42	0.28	0.062

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 09, 2013

Page: 3 of 5 Part: 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI13000328.1

Method	Analyte	1F30 La ppm	1F30 Cr ppm	1F30 Mg %	1F30 Ba ppm	1F30 Ti %	1F30 B ppm	1F30 Al %	1F30 Na %	1F30 K %	1F30 W ppm	1F30 Sc ppm	1F30 Ti ppm	1F30 S %	1F30 Hg ppb	1F30 Se ppm	1F30 Te ppm	1F30 Ga ppm	1F30 Cs ppm	1F30 Ge ppm	1F30 Hf ppm
Unit	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1731380	Soil	18.6	53.2	0.84	219.5	0.138	2	2.20	0.021	0.11	0.1	6.3	0.16	<0.02	26	0.5	0.04	6.7	1.48	<0.1	0.10
1731381	Soil	13.9	42.1	0.62	139.5	0.108	2	2.20	0.018	0.07	0.2	4.8	0.13	<0.02	41	0.5	0.02	5.9	1.25	<0.1	0.04
1731382	Soil	12.4	39.2	0.60	157.7	0.081	3	2.13	0.013	0.06	0.2	3.9	0.12	<0.02	20	0.6	0.05	6.3	1.28	<0.1	0.06
1731383	Soil	10.6	30.6	0.48	125.1	0.080	2	1.55	0.019	0.06	0.2	3.6	0.09	<0.02	21	0.7	0.06	4.6	1.02	<0.1	0.06
1731384	Soil	11.7	38.6	0.64	158.8	0.094	2	1.82	0.019	0.07	0.2	4.4	0.13	0.02	37	0.7	0.03	5.6	1.21	<0.1	0.05
1731385	Soil	7.3	17.7	0.29	118.8	0.059	2	1.06	0.027	0.05	0.1	1.8	0.08	0.05	20	0.3	<0.02	3.8	0.82	<0.1	0.02
1731386	Soil	8.8	38.8	0.61	168.0	0.099	2	1.70	0.014	0.06	0.2	3.3	0.12	0.05	78	1.6	<0.02	6.7	1.79	<0.1	0.04
1731387	Soil	8.1	11.6	0.18	59.5	0.031	1	1.10	0.026	0.05	<0.1	1.4	0.07	0.06	45	0.2	<0.02	3.3	0.59	<0.1	0.03
1731388	Soil	10.0	31.0	0.55	122.2	0.085	2	1.74	0.020	0.11	0.1	3.1	0.13	0.04	21	0.2	0.03	5.9	1.22	<0.1	0.02
1731389	Soil	5.3	10.5	0.11	68.1	0.038	1	0.76	0.019	0.03	<0.1	1.0	0.05	0.02	16	0.1	<0.02	3.9	0.78	<0.1	<0.02
1731390	Rock Pulp	<0.5	40.6	<0.01	2.6	0.003	<1	0.09	0.013	0.04	0.3	0.3	0.14	0.03	1777	<0.1	<0.02	0.3	1.49	<0.1	<0.02
1731391	Soil	7.4	29.0	0.41	60.3	0.096	1	1.29	0.013	0.06	0.1	2.6	0.09	0.03	48	0.2	0.04	6.8	1.09	0.1	0.08
1731392	Soil	19.4	42.4	0.80	113.1	0.127	2	2.51	0.014	0.17	0.1	5.1	0.20	0.02	36	<0.1	<0.02	7.1	1.88	<0.1	0.04
1731393	Soil	18.1	41.9	0.72	122.1	0.137	2	2.35	0.040	0.19	0.2	4.8	0.23	0.02	9	<0.1	0.05	7.8	2.48	<0.1	0.04
1731394	Soil	12.8	32.2	0.57	90.4	0.119	1	1.58	0.021	0.16	0.2	3.2	0.14	<0.02	8	<0.1	<0.02	5.7	1.19	<0.1	0.03
1731395	Soil	11.1	14.5	0.23	87.0	0.040	2	1.16	0.028	0.06	<0.1	1.9	0.08	0.07	32	0.3	<0.02	3.7	0.70	<0.1	0.02
1731396	Soil	7.6	17.1	0.32	110.1	0.041	2	0.99	0.031	0.05	<0.1	1.7	0.07	0.06	28	0.5	0.03	3.5	0.69	<0.1	0.03
1731397	Soil	13.5	43.9	0.80	182.8	0.115	3	2.21	0.016	0.15	0.1	4.8	0.16	0.04	27	0.5	0.05	7.0	1.73	<0.1	0.05
1731398	Soil	18.7	41.5	0.94	120.7	0.152	2	2.29	0.012	0.38	0.1	4.4	0.27	0.02	10	<0.1	<0.02	7.6	2.39	<0.1	0.03
1731399	Soil	6.5	12.0	0.23	76.5	0.035	2	1.07	0.035	0.06	<0.1	1.4	0.07	0.06	23	0.2	<0.02	3.8	0.67	<0.1	0.03
1731400	Soil	11.2	22.6	0.43	127.4	0.061	2	1.52	0.024	0.09	<0.1	2.4	0.12	0.06	37	0.3	<0.02	4.8	1.01	<0.1	0.03
1731401	Soil	6.7	13.9	0.19	79.0	0.060	1	0.75	0.031	0.04	<0.1	2.0	0.06	0.06	30	0.3	0.02	3.6	0.49	<0.1	0.04
1731402	Soil	15.2	43.6	0.85	153.4	0.134	2	2.28	0.013	0.18	0.1	4.5	0.20	0.03	26	0.3	0.02	7.1	1.87	<0.1	0.03
1731403	Soil	9.5	23.3	0.43	115.4	0.073	2	1.36	0.026	0.09	0.1	2.6	0.11	0.04	43	0.5	<0.02	4.8	1.09	<0.1	0.03
1731404	Soil	8.5	14.9	0.23	82.5	0.040	1	1.09	0.031	0.07	<0.1	1.9	0.08	0.06	52	0.3	0.03	3.7	0.76	<0.1	0.02
1731405	Soil	15.6	44.3	0.82	149.7	0.143	2	2.09	0.020	0.24	0.1	4.3	0.17	0.02	18	0.3	0.04	6.7	1.90	0.1	0.03
1731406	Soil	15.2	37.1	0.67	116.4	0.132	2	1.93	0.016	0.20	0.1	3.7	0.19	0.02	15	0.2	0.08	7.0	1.80	<0.1	0.03
1731407	Soil	10.5	23.3	0.45	97.9	0.091	1	1.43	0.028	0.12	<0.1	2.6	0.13	0.03	15	0.1	0.03	5.5	1.25	<0.1	0.04
1731408	Soil	13.0	47.0	0.73	98.3	0.137	2	2.61	0.013	0.17	0.1	4.6	0.16	<0.02	17	0.2	<0.02	7.0	1.62	<0.1	0.11
1731409	Soil	11.5	20.3	0.32	80.0	0.067	2	1.14	0.030	0.07	0.1	2.6	0.11	0.04	14	0.3	0.06	4.3	1.01	<0.1	<0.02

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.

# CERTIFICATE OF ANALYSIS

WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731380	Soil	1.06	16.0	0.7	<0.05	5.8	9.85	38.9	<0.02	<1	0.6	19.0	<10	<2	7.1
1731381	Soil	1.12	10.2	0.8	<0.05	2.7	6.37	28.9	0.04	1	0.4	14.3	<10	<2	10.0
1731382	Soil	1.02	9.7	0.7	<0.05	2.0	5.46	25.7	0.04	1	0.3	14.9	<10	<2	11.5
1731383	Soil	1.08	7.6	0.4	<0.05	3.2	5.13	22.8	0.03	<1	0.3	11.6	<10	<2	9.0
1731384	Soil	1.17	8.9	0.6	<0.05	3.0	5.94	25.1	<0.02	<1	0.3	14.0	<10	<2	10.1
1731385	Soil	0.83	6.4	0.3	<0.05	1.6	3.56	16.0	0.02	1	0.2	6.5	<10	<2	20.1
1731386	Soil	1.29	9.5	0.6	<0.05	1.9	4.30	20.0	0.03	5	0.3	13.9	<10	<2	18.3
1731387	Soil	0.70	7.5	0.6	<0.05	1.5	4.09	15.4	<0.02	<1	0.3	4.4	<10	<2	22.1
1731388	Soil	1.27	17.1	0.8	<0.05	1.7	4.08	21.0	<0.02	<1	0.4	13.6	<10	<2	12.5
1731389	Soil	0.64	5.5	0.5	<0.05	0.9	1.72	11.3	<0.02	<1	0.2	3.5	<10	<2	13.9
1731390	Rock Pulp	0.04	16.2	0.2	<0.05	0.5	0.25	0.6	<0.02	<1	0.2	1.5	<10	<2	0.8
1731391	Soil	1.47	10.5	1.0	<0.05	2.7	2.55	16.2	<0.02	<1	0.2	10.7	12	<2	14.3
1731392	Soil	1.77	26.7	0.6	<0.05	2.6	7.30	41.6	0.03	<1	0.6	20.0	<10	<2	10.6
1731393	Soil	1.60	34.1	0.9	<0.05	2.6	7.57	50.5	0.04	<1	0.6	21.5	<10	<2	9.9
1731394	Soil	1.10	19.7	0.6	<0.05	2.0	4.40	27.7	<0.02	<1	0.4	15.1	<10	<2	8.6
1731395	Soil	0.67	8.4	0.6	<0.05	1.6	7.28	20.7	0.02	2	0.3	6.5	<10	<2	20.7
1731396	Soil	0.63	7.9	0.8	<0.05	1.1	4.80	14.8	<0.02	<1	0.2	6.2	<10	<2	15.7
1731397	Soil	1.29	20.6	0.8	<0.05	1.9	6.74	29.5	0.03	<1	0.5	22.4	<10	<2	11.5
1731398	Soil	1.99	40.8	0.7	<0.05	1.9	5.71	41.4	0.02	<1	0.5	24.4	<10	<2	9.4
1731399	Soil	0.67	10.9	0.8	<0.05	1.6	3.52	13.3	<0.02	<1	0.3	5.5	<10	<2	18.9
1731400	Soil	1.09	14.7	2.1	<0.05	1.5	5.17	23.0	<0.02	<1	0.4	11.6	<10	<2	19.8
1731401	Soil	0.55	6.0	0.2	<0.05	1.6	3.98	13.6	<0.02	<1	0.2	3.5	<10	<2	15.8
1731402	Soil	1.40	26.6	0.7	<0.05	1.8	5.95	31.4	0.03	2	0.4	20.4	<10	<2	8.7
1731403	Soil	0.98	15.5	0.5	<0.05	1.6	5.03	20.0	<0.02	<1	0.3	12.0	<10	<2	13.7
1731404	Soil	0.70	9.1	0.6	<0.05	1.4	4.83	16.9	<0.02	<1	0.3	5.4	<10	<2	18.2
1731405	Soil	1.45	28.4	0.6	<0.05	1.9	6.05	34.9	0.03	<1	0.5	20.6	<10	<2	8.1
1731406	Soil	1.58	24.7	0.9	<0.05	2.2	5.44	35.8	0.02	<1	0.5	19.8	<10	<2	9.5
1731407	Soil	1.54	17.4	0.5	<0.05	2.5	4.30	22.7	<0.02	<1	0.3	11.6	<10	<2	13.2
1731408	Soil	1.80	21.6	0.6	<0.05	4.8	5.84	31.4	0.04	<1	0.5	25.3	12	<2	9.4
1731409	Soil	0.75	11.6	0.4	<0.05	1.1	5.06	25.7	<0.02	<1	0.4	8.6	<10	<2	13.3



A Bureau Veritas Group Company

www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client: Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Project: 210800  
Report Date: September 09, 2013

Page: 4 of 5 Part: 1 of 3

# CERTIFICATE OF ANALYSIS

## WHI13000328.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1731410	Rock Pulp	18.48	82.75	220.8	108.0	1229	93.5	41.7	115	0.82	19.4	0.3	158.9	0.1	4.8	0.18	2.10	7.86	<2	0.14	0.011
1731411	Soil	0.66	19.70	3.45	33.5	126	11.9	6.8	519	1.28	3.1	0.6	0.8	0.5	27.6	0.07	0.26	0.10	25	0.35	0.055
1731412	Soil	1.02	25.08	3.50	51.1	192	17.4	8.7	679	2.09	6.2	0.7	0.7	0.9	34.8	0.48	0.33	0.11	42	0.46	0.080
1731413	Soil	1.06	40.19	9.68	66.7	110	26.8	12.0	303	4.20	15.8	1.0	3.2	2.3	32.0	0.08	0.39	0.19	78	0.41	0.078
1731414	Soil	0.63	26.04	5.89	54.5	77	27.3	10.9	420	2.75	3.9	0.7	4.4	2.3	24.6	0.11	0.34	0.16	51	0.38	0.082
1731415	Soil	0.53	16.72	2.06	23.6	42	7.8	4.8	417	1.57	3.4	0.4	1.8	0.7	11.8	0.07	0.18	0.06	32	0.15	0.051
1731416	Soil	0.39	6.59	2.14	31.5	54	6.2	5.6	127	1.93	0.4	0.2	0.9	0.7	13.1	0.07	0.11	0.06	57	0.20	0.083
1731417	Soil	0.96	18.57	6.72	41.3	104	12.9	7.1	287	1.87	4.2	0.4	1.5	0.7	14.6	0.16	0.32	0.11	43	0.21	0.040
1731418	Soil	0.65	21.24	4.03	25.9	76	9.9	4.5	136	1.42	3.5	0.4	2.1	0.5	10.7	0.06	0.24	0.10	32	0.12	0.041
1731419	Soil	0.51	25.93	3.26	34.1	143	11.0	6.2	259	1.83	3.2	0.7	1.7	0.6	25.0	0.11	0.19	0.07	43	0.31	0.086
1731420	Soil	0.98	26.23	5.48	58.4	304	17.6	11.7	895	2.22	3.5	1.2	2.7	0.9	47.0	0.29	0.41	0.13	39	0.61	0.091
1731421	Soil	0.97	32.05	3.41	46.6	455	15.3	9.2	598	2.14	2.6	1.4	2.9	0.6	27.8	0.56	0.31	0.08	35	0.35	0.084
1731422	Soil	1.05	31.32	3.78	53.2	389	16.7	11.9	913	2.28	3.5	1.4	2.0	0.8	26.2	0.52	0.34	0.10	36	0.39	0.070
1731423	Soil	0.58	28.35	3.80	31.7	211	13.2	7.4	490	1.55	2.4	0.8	2.1	0.6	22.4	0.12	0.32	0.10	33	0.26	0.073
1731424	Soil	0.54	35.88	5.17	55.5	92	23.4	10.3	360	2.20	3.8	1.0	1.5	1.7	36.4	0.13	0.27	0.11	40	0.65	0.053
1731425	Soil	0.58	30.32	4.92	37.8	47	12.7	7.0	294	1.44	3.1	0.5	1.0	0.9	18.6	0.20	0.17	0.08	29	0.22	0.038
1731426	Soil	0.24	12.37	1.74	15.4	46	4.1	3.2	105	0.93	1.7	0.3	<0.2	0.3	10.5	0.04	0.09	0.06	28	0.10	0.039
1731427	Soil	0.88	28.29	8.49	72.9	30	36.5	16.3	563	3.41	6.6	0.7	1.7	4.2	26.0	0.13	0.32	0.15	62	0.36	0.064
1731428	Soil	0.21	11.04	1.20	13.3	39	3.3	2.6	84	0.74	1.1	0.2	0.2	0.2	9.7	0.03	0.08	0.02	23	0.12	0.035
1731429	Soil	1.25	51.67	10.75	65.8	207	34.2	14.6	751	3.73	9.4	1.6	5.1	3.2	26.8	0.11	0.40	0.23	70	0.33	0.083
1731430	Rock Pulp	1.07	20.67	1.00	20.5	754	7.1	4.2	102	1.40	1.3	0.2	103.9	0.3	12.7	0.02	0.99	1.54	25	0.31	0.025
1731431	Soil	0.62	22.61	3.35	55.9	79	18.7	9.5	1205	2.19	2.2	0.5	1.5	1.1	22.6	0.14	0.18	0.08	51	0.28	0.075
1731432	Soil	0.53	23.87	2.27	32.6	63	12.4	6.0	503	1.47	1.9	0.3	0.8	0.4	27.9	0.09	0.17	0.04	38	0.36	0.076
1731433	Soil	0.34	22.99	5.31	58.5	57	27.8	8.7	189	2.04	2.6	0.5	4.5	2.3	24.7	0.12	0.25	0.09	45	0.41	0.084
1731434	Soil	0.55	43.28	1.26	29.8	79	15.8	4.9	767	0.83	1.4	0.6	0.5	0.1	29.3	0.64	0.21	0.03	14	0.31	0.080
1731435	Soil	0.28	19.59	1.56	24.3	42	8.8	2.7	136	0.66	2.3	0.3	0.8	0.3	19.0	0.05	0.19	0.03	13	0.26	0.044
1731436	Soil	1.39	38.70	3.49	34.9	118	17.5	17.6	2249	1.88	4.5	0.6	1.4	0.3	29.9	0.13	0.28	0.07	32	0.40	0.067
1731437	Soil	0.51	29.55	5.28	53.7	70	27.6	10.5	324	2.52	4.7	0.6	2.7	3.1	31.2	0.09	0.27	0.09	57	0.57	0.099
1731438	Soil	1.21	40.97	7.46	79.6	165	41.6	15.3	322	3.65	10.0	1.1	3.3	4.0	28.4	0.11	0.64	0.15	76	0.45	0.083
1731439	Soil	0.63	27.87	6.48	60.1	35	47.6	16.8	451	3.16	8.8	0.6	2.6	4.1	23.3	0.13	0.33	0.10	60	0.39	0.085

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Teck Resources Limited**

Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Project: 210800

Report Date: September 09, 2013

Page: 4 of 5

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

## WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1731410	Rock Pulp	<0.5	43.2	<0.01	2.9	0.003	<1	0.10	0.013	0.04	0.3	0.3	0.16	0.03	1837	<0.1	<0.02	0.3	1.59	<0.1	<0.02
1731411	Soil	5.9	16.4	0.28	95.9	0.045	2	0.97	0.037	0.07	<0.1	1.8	0.07	0.04	34	0.2	<0.02	3.2	0.67	<0.1	<0.02
1731412	Soil	7.5	20.2	0.29	109.0	0.059	2	1.12	0.034	0.07	0.1	2.2	0.09	0.05	24	0.5	0.02	3.7	0.67	<0.1	0.03
1731413	Soil	14.1	38.4	0.61	153.4	0.091	2	2.32	0.017	0.13	0.2	4.3	0.17	0.07	47	0.3	0.04	6.2	1.48	<0.1	0.05
1731414	Soil	11.3	36.5	0.68	128.4	0.095	4	1.84	0.016	0.12	0.1	4.7	0.13	0.02	21	0.3	0.04	4.9	1.20	<0.1	0.03
1731415	Soil	6.0	10.4	0.17	41.7	0.044	2	0.65	0.025	0.04	<0.1	1.4	0.05	0.02	18	0.2	<0.02	2.4	0.43	<0.1	<0.02
1731416	Soil	4.7	9.4	0.18	34.9	0.079	2	0.47	0.021	0.04	<0.1	1.1	0.05	<0.02	7	0.2	<0.02	2.8	0.40	<0.1	<0.02
1731417	Soil	6.4	17.5	0.19	57.0	0.067	1	0.96	0.022	0.06	<0.1	2.0	0.06	0.03	24	0.1	<0.02	4.2	0.87	<0.1	0.03
1731418	Soil	5.7	12.2	0.19	50.9	0.043	2	0.90	0.020	0.06	<0.1	1.2	0.06	0.03	23	0.2	<0.02	3.8	0.76	<0.1	<0.02
1731419	Soil	7.4	15.6	0.23	65.1	0.056	2	1.04	0.025	0.07	<0.1	2.2	0.07	0.06	32	0.3	<0.02	3.7	0.54	<0.1	0.03
1731420	Soil	12.9	22.4	0.40	162.6	0.056	3	1.53	0.026	0.09	<0.1	3.2	0.14	0.08	48	0.5	0.02	4.4	0.94	<0.1	0.04
1731421	Soil	10.0	19.2	0.30	85.4	0.048	2	1.30	0.029	0.07	<0.1	2.8	0.09	0.07	33	0.9	<0.02	3.4	0.66	<0.1	0.02
1731422	Soil	11.2	21.4	0.30	108.5	0.058	2	1.33	0.029	0.08	<0.1	3.2	0.10	0.07	41	0.7	<0.02	3.9	0.78	<0.1	0.03
1731423	Soil	8.0	17.6	0.23	88.9	0.049	2	0.99	0.030	0.06	<0.1	2.3	0.07	0.05	30	0.4	<0.02	3.2	0.67	<0.1	<0.02
1731424	Soil	11.9	28.3	0.42	97.4	0.083	2	1.68	0.037	0.15	0.1	3.3	0.16	0.06	25	0.3	<0.02	5.3	1.26	<0.1	0.04
1731425	Soil	7.8	15.6	0.30	70.4	0.053	1	1.03	0.028	0.07	<0.1	1.8	0.06	0.02	11	0.2	<0.02	3.7	0.78	<0.1	0.02
1731426	Soil	4.0	5.3	0.06	32.8	0.035	<1	0.50	0.033	0.03	<0.1	0.7	0.03	<0.02	6	0.2	<0.02	2.2	0.21	<0.1	<0.02
1731427	Soil	13.8	39.8	0.77	113.9	0.141	2	2.10	0.015	0.24	0.1	4.5	0.20	<0.02	11	0.2	0.03	7.3	1.67	<0.1	0.05
1731428	Soil	2.9	5.2	0.05	21.1	0.034	<1	0.28	0.031	0.03	<0.1	0.6	0.02	<0.02	12	0.1	<0.02	1.7	0.17	<0.1	<0.02
1731429	Soil	19.4	42.2	0.71	191.0	0.091	2	2.69	0.013	0.13	0.2	6.7	0.20	0.04	37	0.4	<0.02	7.8	1.79	<0.1	0.04
1731430	Rock Pulp	2.5	6.3	0.07	11.6	0.189	<1	0.23	0.065	0.04	0.1	0.7	0.08	<0.02	<5	<0.1	<0.02	1.4	2.06	<0.1	0.27
1731431	Soil	6.4	21.4	0.38	109.6	0.080	2	1.25	0.027	0.11	<0.1	2.1	0.11	0.04	13	0.2	<0.02	4.4	0.84	<0.1	0.03
1731432	Soil	4.7	13.3	0.27	86.3	0.051	2	0.83	0.037	0.05	<0.1	1.4	0.04	0.04	15	0.3	<0.02	3.0	0.36	<0.1	0.02
1731433	Soil	11.1	33.2	0.64	142.2	0.084	2	1.55	0.024	0.10	0.1	3.5	0.13	0.02	14	0.2	<0.02	4.9	1.05	<0.1	0.05
1731434	Soil	5.7	9.7	0.09	144.6	0.017	1	0.75	0.033	0.03	<0.1	0.9	0.03	0.08	26	0.6	<0.02	1.8	0.23	<0.1	<0.02
1731435	Soil	3.4	10.7	0.16	60.3	0.026	1	0.71	0.038	0.05	<0.1	1.0	0.04	0.04	21	0.2	<0.02	2.0	0.34	<0.1	<0.02
1731436	Soil	8.1	17.3	0.22	128.1	0.034	2	1.11	0.029	0.04	<0.1	1.9	0.07	0.06	32	0.3	<0.02	3.5	0.54	<0.1	<0.02
1731437	Soil	11.1	41.6	0.76	145.0	0.107	2	1.51	0.030	0.15	<0.1	4.3	0.12	<0.02	10	0.3	0.02	4.5	0.97	<0.1	0.06
1731438	Soil	14.3	55.7	0.94	206.0	0.092	2	2.33	0.016	0.08	<0.1	5.7	0.13	<0.02	17	0.9	0.03	7.5	1.22	<0.1	0.05
1731439	Soil	11.3	54.9	0.96	121.7	0.130	2	2.45	0.020	0.16	0.1	4.6	0.14	<0.02	9	0.2	0.03	6.2	1.45	<0.1	0.11



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 09, 2013

Page: 4 of 5

Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI13000328.1

	Method Analyte Unit MDL	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1
1731410	Rock Pulp	0.05	18.3	0.2	<0.05	0.6	0.29	0.6	<0.02	<1	0.1	1.8	<10	<2	0.5
1731411	Soil	0.67	9.4	0.7	<0.05	1.2	3.17	12.6	<0.02	<1	0.2	6.6	<10	<2	14.2
1731412	Soil	0.78	9.5	0.4	<0.05	2.2	4.15	18.9	<0.02	<1	0.3	7.3	<10	<2	16.2
1731413	Soil	1.88	22.9	0.7	<0.05	3.0	5.95	30.0	<0.02	<1	0.4	16.0	<10	<2	19.6
1731414	Soil	1.23	18.7	0.6	<0.05	2.1	5.74	23.7	0.05	<1	0.4	15.5	<10	<2	10.3
1731415	Soil	0.54	5.3	0.2	<0.05	1.0	2.64	11.7	<0.02	<1	0.1	3.6	<10	<2	8.6
1731416	Soil	0.48	5.0	0.4	<0.05	0.7	1.96	10.3	<0.02	<1	<0.1	3.5	<10	<2	5.1
1731417	Soil	0.83	6.9	0.7	<0.05	1.5	2.40	13.3	<0.02	<1	0.2	6.1	<10	<2	13.6
1731418	Soil	0.66	7.4	0.4	<0.05	1.0	1.81	11.7	<0.02	1	0.2	5.1	<10	<2	16.0
1731419	Soil	0.72	10.5	0.5	<0.05	2.2	4.75	15.9	<0.02	<1	0.3	5.0	<10	<2	16.1
1731420	Soil	1.17	15.9	0.5	<0.05	2.3	7.25	26.9	0.02	<1	0.5	12.5	<10	<2	25.7
1731421	Soil	0.95	11.5	0.8	<0.05	2.1	7.98	18.7	<0.02	2	0.3	9.6	<10	<2	20.2
1731422	Soil	0.93	11.3	0.3	<0.05	2.0	7.66	21.6	<0.02	1	0.3	9.9	<10	<2	19.5
1731423	Soil	0.72	8.7	0.4	<0.05	1.4	5.34	14.9	<0.02	<1	0.3	6.1	<10	<2	14.4
1731424	Soil	1.57	21.3	0.7	<0.05	2.4	6.17	22.2	<0.02	<1	0.4	13.8	<10	<2	15.8
1731425	Soil	0.95	11.1	0.5	<0.05	1.3	2.90	16.1	<0.02	<1	0.2	8.9	<10	<2	11.2
1731426	Soil	0.26	2.5	0.3	<0.05	0.6	1.65	9.5	<0.02	<1	0.2	1.5	<10	<2	9.0
1731427	Soil	1.74	30.4	0.7	<0.05	3.8	6.04	30.4	0.03	1	0.4	21.5	<10	<2	7.7
1731428	Soil	0.17	1.8	0.5	<0.05	0.3	1.20	6.0	<0.02	<1	<0.1	0.9	<10	<2	8.1
1731429	Soil	1.68	17.8	0.7	<0.05	2.8	8.42	41.8	0.03	<1	0.7	21.5	<10	<2	16.2
1731430	Rock Pulp	0.16	8.4	0.1	<0.05	13.8	5.81	5.9	<0.02	<1	0.1	5.0	<10	<2	0.7
1731431	Soil	0.85	13.8	0.8	<0.05	1.9	3.51	14.1	<0.02	<1	0.2	12.3	<10	<2	11.2
1731432	Soil	0.59	5.2	0.3	<0.05	1.6	3.10	9.5	<0.02	<1	0.1	5.6	<10	<2	13.5
1731433	Soil	1.17	13.2	0.4	<0.05	2.7	5.06	22.7	0.02	<1	0.3	16.3	<10	<2	8.9
1731434	Soil	0.32	2.5	0.6	<0.05	1.3	5.78	9.6	<0.02	<1	0.2	1.4	<10	<2	23.7
1731435	Soil	0.47	4.7	0.2	<0.05	1.2	2.02	6.1	<0.02	<1	0.1	3.7	<10	<2	13.8
1731436	Soil	0.54	5.0	0.3	<0.05	1.1	4.75	18.6	<0.02	<1	0.2	5.8	<10	<2	24.1
1731437	Soil	1.04	18.8	0.7	<0.05	3.7	6.01	22.9	<0.02	<1	0.3	15.6	<10	<2	5.3
1731438	Soil	1.05	12.0	0.6	<0.05	2.7	7.51	28.5	0.03	<1	0.5	22.7	<10	<2	7.4
1731439	Soil	1.70	21.7	0.7	<0.05	5.0	5.33	25.2	0.03	<1	0.5	20.1	<10	<2	7.7

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client: Teck Resources Limited**

Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Project: 210800

Report Date: September 09, 2013

Page: 5 of 5

Part: 1 of 3

## CERTIFICATE OF ANALYSIS

WHI13000328.1

Method	Analyte	Unit	MDL	1F30 Mo	1F30 Cu	1F30 Pb	1F30 Zn	1F30 Ag	1F30 Ni	1F30 Co	1F30 Mn	1F30 Fe	1F30 As	1F30 U	1F30 Au	1F30 Th	1F30 Sr	1F30 Cd	1F30 Sb	1F30 Bi	1F30 V	1F30 Ca	1F30 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1731440	Soil			0.70	35.56	5.78	46.7	123	23.4	11.9	429	2.06	6.9	0.8	2.0	1.5	34.3	0.15	0.40	0.10	41	0.60	0.076
1731441	Soil			0.55	30.03	4.44	48.0	117	19.3	8.8	718	2.13	4.0	1.3	1.2	1.1	38.8	0.18	0.32	0.08	33	0.75	0.058
1731442	Soil			0.74	29.91	4.60	47.8	133	21.0	8.8	699	2.82	12.8	1.3	1.0	0.9	50.8	0.15	0.32	0.10	49	0.88	0.069
1731443	Soil			0.54	34.08	5.81	62.2	98	27.3	9.8	335	2.34	3.2	0.9	2.5	3.1	27.6	0.24	0.46	0.12	50	0.46	0.073
1731444	Soil			0.31	24.46	7.08	69.2	96	22.8	7.5	154	1.90	3.3	1.0	2.3	2.9	25.8	0.23	0.44	0.13	49	0.36	0.063
1731445	Soil			1.18	31.31	2.26	15.6	292	7.9	4.9	334	3.00	14.1	0.9	0.6	0.5	17.6	0.16	0.24	0.06	39	0.22	0.062
1731446	Soil			1.07	17.77	4.90	23.4	87	10.3	4.4	132	1.46	5.1	0.3	4.7	0.4	14.4	0.10	0.35	0.14	39	0.16	0.045
1731447	Soil			1.51	31.43	6.65	87.3	120	34.6	14.3	441	3.49	9.8	0.6	4.3	1.8	18.4	0.22	0.50	0.16	78	0.25	0.076
1731448	Soil			1.62	34.24	5.30	81.7	201	28.9	14.3	617	2.74	6.2	0.7	27.5	1.1	22.5	0.27	0.49	0.14	69	0.25	0.089
1731449	Soil			1.91	42.87	5.25	67.9	324	23.8	10.1	259	2.61	6.6	1.2	2.7	1.6	19.6	0.21	0.46	0.11	66	0.25	0.109
1731450	Rock Pulp			19.20	76.00	231.2	103.1	1228	84.6	38.1	109	0.73	18.5	0.2	181.5	<0.1	4.4	0.15	1.94	6.79	2	0.14	0.011
1731451	Soil			1.23	23.02	6.09	49.9	220	20.3	17.2	993	2.62	4.3	0.7	4.0	1.4	18.8	0.11	0.33	0.17	53	0.27	0.089
1731452	Soil			0.38	13.55	2.47	21.4	149	8.8	3.9	186	1.11	1.1	0.4	7.2	0.6	9.7	0.07	0.15	0.07	27	0.12	0.053
1731453	Soil			0.67	27.34	5.00	52.0	77	27.7	10.4	257	2.29	5.0	0.5	2.6	1.8	27.3	0.09	0.34	0.10	53	0.57	0.068
1731454	Soil			1.00	24.25	5.60	69.4	140	27.6	12.6	1011	2.54	5.8	0.6	3.7	1.5	20.0	0.21	0.29	0.14	58	0.29	0.086
1731455	Soil			0.75	22.95	4.81	46.2	115	19.8	11.6	502	2.86	6.3	0.7	3.2	1.7	16.2	0.14	0.33	0.11	52	0.24	0.074
1731456	Soil			0.95	31.49	8.07	78.9	111	34.8	12.5	360	3.18	7.5	0.9	4.4	3.1	22.8	0.18	0.49	0.15	76	0.34	0.083
1731457	Soil			0.48	18.62	3.69	40.3	143	15.2	9.0	304	2.04	5.0	0.8	2.0	0.9	22.8	0.08	0.20	0.09	45	0.27	0.096
1731458	Soil			0.61	21.06	5.91	76.7	98	30.9	11.6	324	2.80	5.6	0.6	17.8	2.6	28.2	0.10	0.33	0.11	63	0.43	0.098
1731459	Soil			0.90	24.51	5.89	71.2	96	32.1	13.8	549	2.99	7.8	0.6	3.2	2.1	27.5	0.09	0.36	0.12	65	0.44	0.088
1731460	Soil			0.57	26.18	5.78	68.6	80	36.5	12.0	248	2.83	9.2	0.4	1.6	2.2	25.1	0.09	0.38	0.11	68	0.49	0.088
1731461	Soil			0.56	37.83	6.19	70.7	110	40.9	14.9	436	3.31	10.1	0.6	8.2	3.2	33.4	0.11	0.46	0.10	72	0.67	0.096
1731462	Soil			0.56	33.68	6.26	73.1	112	36.6	14.0	382	3.07	8.8	0.6	3.3	3.1	34.6	0.10	0.40	0.12	68	0.64	0.093

**CERTIFICATE OF ANALYSIS**

**WHI13000328.1**

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1731440	Soil	12.2	29.3	0.41	102.0	0.053	1	1.25	0.032	0.07	<0.1	3.4	0.09	0.05	31	0.4	0.03	4.4	0.78	<0.1	0.03
1731441	Soil	9.7	23.4	0.37	146.5	0.060	2	1.41	0.033	0.10	<0.1	2.9	0.10	0.08	31	0.4	<0.02	4.5	0.83	<0.1	0.04
1731442	Soil	10.2	23.6	0.39	142.5	0.056	2	1.56	0.032	0.10	<0.1	3.0	0.09	0.08	24	0.5	0.03	4.2	0.81	<0.1	0.03
1731443	Soil	14.4	40.1	0.66	163.8	0.111	2	1.74	0.022	0.13	0.1	5.0	0.12	0.03	26	0.3	<0.02	5.9	1.13	<0.1	0.06
1731444	Soil	12.5	32.0	0.55	152.2	0.092	1	1.82	0.021	0.12	0.1	4.0	0.13	0.06	25	0.4	<0.02	6.2	1.08	0.1	0.04
1731445	Soil	5.7	8.1	0.07	128.2	0.033	1	0.90	0.035	0.03	0.1	1.5	0.03	0.07	31	0.8	0.03	3.5	0.15	<0.1	0.05
1731446	Soil	5.1	17.1	0.22	59.0	0.048	3	0.84	0.019	0.04	0.1	1.4	0.08	0.02	18	0.2	0.03	3.9	0.79	<0.1	0.02
1731447	Soil	9.1	46.4	0.77	206.9	0.094	5	2.06	0.011	0.09	0.2	4.1	0.11	0.02	26	0.4	0.07	7.4	1.22	0.1	0.06
1731448	Soil	7.5	34.7	0.49	179.3	0.087	4	1.12	0.020	0.09	0.2	2.6	0.11	0.06	44	0.6	0.08	5.2	1.18	<0.1	0.03
1731449	Soil	10.2	35.6	0.54	283.7	0.079	3	1.59	0.018	0.07	0.2	3.8	0.12	0.05	56	0.9	0.06	5.4	1.07	<0.1	0.04
1731450	Rock Pulp	<0.5	44.4	<0.01	2.6	0.003	2	0.09	0.013	0.04	0.3	0.3	0.16	0.03	1950	0.2	<0.02	0.2	1.55	<0.1	<0.02
1731451	Soil	8.4	31.5	0.44	211.0	0.080	3	1.34	0.025	0.12	0.2	2.8	0.14	0.05	57	0.3	0.04	5.0	1.13	<0.1	0.04
1731452	Soil	3.7	12.4	0.18	70.4	0.043	2	0.61	0.030	0.05	<0.1	1.4	0.07	0.03	44	0.5	<0.02	2.6	0.39	<0.1	0.02
1731453	Soil	9.7	37.8	0.69	125.6	0.087	3	1.45	0.028	0.07	<0.1	3.8	0.11	0.02	30	0.3	<0.02	4.8	0.86	<0.1	0.06
1731454	Soil	8.1	42.8	0.65	229.3	0.090	3	1.65	0.024	0.09	0.1	3.9	0.12	0.04	41	0.4	0.04	5.6	1.15	<0.1	0.03
1731455	Soil	8.7	32.7	0.48	140.0	0.078	2	1.39	0.022	0.07	0.1	3.6	0.12	0.04	45	0.3	<0.02	4.6	0.88	<0.1	0.03
1731456	Soil	12.1	50.2	0.84	187.4	0.126	2	2.28	0.015	0.12	0.1	5.7	0.18	0.02	50	0.4	0.03	6.9	1.56	<0.1	0.08
1731457	Soil	7.3	25.7	0.36	155.1	0.056	3	1.03	0.028	0.06	<0.1	2.6	0.11	0.06	33	0.4	<0.02	4.2	0.90	<0.1	0.03
1731458	Soil	11.4	46.5	0.77	173.0	0.112	3	1.74	0.022	0.15	0.1	4.3	0.15	0.02	28	0.3	<0.02	5.7	1.47	<0.1	0.04
1731459	Soil	9.9	50.3	0.79	170.1	0.106	2	1.80	0.023	0.11	0.1	4.5	0.13	0.03	30	0.3	0.03	5.8	1.23	<0.1	0.06
1731460	Soil	9.4	54.4	0.98	140.8	0.117	2	1.90	0.022	0.11	0.1	4.7	0.16	<0.02	24	0.2	0.02	6.2	1.32	<0.1	0.06
1731461	Soil	14.5	58.0	1.05	166.9	0.119	3	1.90	0.032	0.14	<0.1	6.2	0.16	<0.02	31	0.3	<0.02	5.8	1.17	<0.1	0.12
1731462	Soil	13.6	51.9	0.99	166.8	0.108	4	1.82	0.031	0.13	0.1	5.6	0.15	<0.02	30	0.3	<0.02	6.3	1.14	<0.1	0.14

# CERTIFICATE OF ANALYSIS

WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
1731440	Soil	1.19	9.8	0.5	<0.05	2.0	7.80	24.1	<0.02	<1	0.4	10.3	<10	<2	19.3
1731441	Soil	0.98	13.8	0.4	<0.05	2.2	5.47	18.2	<0.02	1	0.3	11.8	<10	<2	19.2
1731442	Soil	1.32	15.7	0.4	<0.05	2.3	7.32	18.9	<0.02	2	0.4	11.2	<10	<2	23.8
1731443	Soil	1.32	16.9	0.5	<0.05	3.0	7.44	29.8	0.03	<1	0.4	16.4	<10	<2	10.1
1731444	Soil	1.51	19.1	0.5	<0.05	2.7	6.17	26.1	<0.02	<1	0.3	16.8	<10	<2	12.4
1731445	Soil	0.74	2.0	0.4	<0.05	3.4	5.81	9.8	<0.02	<1	0.3	1.1	<10	<2	19.8
1731446	Soil	0.68	5.7	0.9	<0.05	1.1	2.18	10.9	<0.02	<1	0.1	5.6	<10	<2	12.9
1731447	Soil	1.11	11.8	0.6	<0.05	2.6	4.84	19.3	0.03	<1	0.4	19.5	<10	<2	9.3
1731448	Soil	0.88	10.5	0.6	<0.05	1.9	3.93	15.4	0.03	<1	0.2	11.2	<10	<2	13.1
1731449	Soil	1.39	9.7	0.4	<0.05	2.7	5.17	21.3	<0.02	<1	0.4	13.1	<10	<2	14.5
1731450	Rock Pulp	0.04	15.8	0.2	<0.05	0.5	0.25	0.5	<0.02	<1	<0.1	1.8	<10	<2	0.7
1731451	Soil	1.29	13.8	1.1	<0.05	1.8	3.79	18.3	0.02	<1	0.3	12.5	<10	<2	13.9
1731452	Soil	0.57	4.6	0.2	<0.05	1.5	1.96	7.8	<0.02	<1	0.1	4.3	<10	<2	9.8
1731453	Soil	1.21	8.6	1.1	<0.05	3.6	6.15	20.2	0.02	<1	0.3	12.8	<10	<2	10.8
1731454	Soil	1.01	12.1	0.5	<0.05	1.8	4.14	17.4	<0.02	<1	0.3	14.1	<10	<2	12.8
1731455	Soil	1.21	9.0	0.4	<0.05	2.1	4.27	17.7	<0.02	<1	0.3	13.9	<10	<2	14.4
1731456	Soil	1.93	19.4	0.8	<0.05	4.5	6.57	24.6	0.04	<1	0.4	23.6	<10	<2	10.5
1731457	Soil	1.28	8.2	0.6	<0.05	2.0	3.91	14.3	<0.02	<1	0.2	10.7	<10	<2	18.3
1731458	Soil	1.31	18.9	0.5	<0.05	2.7	5.96	23.1	<0.02	<1	0.3	19.1	<10	<2	8.5
1731459	Soil	1.33	16.0	0.5	<0.05	2.9	5.77	20.3	0.02	<1	0.3	18.2	<10	<2	11.6
1731460	Soil	1.25	14.9	0.5	<0.05	2.7	4.68	19.8	0.02	<1	0.3	21.4	<10	<2	7.7
1731461	Soil	1.18	16.1	0.6	<0.05	6.7	9.98	30.9	0.02	<1	0.4	18.4	<10	<2	7.1
1731462	Soil	1.47	16.1	0.5	<0.05	6.1	8.95	27.8	0.02	<1	0.5	19.2	<10	<2	8.5



www.acmelab.com

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Project: 210800  
 Report Date: September 09, 2013

Page: 1 of 2 Part: 1 of 3

## QUALITY CONTROL REPORT

WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1731352	Soil	1.11	37.25	6.62	52.8	192	22.4	10.1	383	2.30	31.8	1.1	10.9	2.0	35.0	0.08	0.63	0.20	64	0.42	0.082
REP 1731352	QC																				
1731369	Soil	2.66	41.74	6.27	88.1	477	22.5	7.9	256	2.25	10.1	1.0	1.4	0.9	22.4	0.55	0.63	0.17	63	0.20	0.059
REP 1731369	QC	2.77	40.73	6.39	91.8	519	22.6	7.9	248	2.27	10.6	1.0	3.5	0.9	22.5	0.61	0.64	0.17	62	0.21	0.057
1731377	Soil	1.25	51.34	6.97	103.1	226	54.3	18.5	786	3.84	10.1	1.0	9.3	3.2	26.9	0.34	0.88	0.23	91	0.40	0.078
REP 1731377	QC	1.23	50.24	7.36	101.9	224	50.6	19.2	779	3.81	10.0	1.0	3.4	3.3	26.0	0.35	0.88	0.24	91	0.40	0.076
1731388	Soil	1.12	24.50	7.62	53.6	169	21.5	8.9	415	2.65	6.3	0.8	3.5	1.4	26.1	0.08	0.33	0.16	54	0.27	0.058
REP 1731388	QC																				
1731401	Soil	1.11	21.63	2.89	32.9	354	8.6	6.0	399	1.86	2.9	0.8	1.7	0.6	23.9	0.10	0.26	0.08	48	0.26	0.076
REP 1731401	QC	1.08	20.89	3.02	28.9	342	8.5	5.8	380	1.75	3.1	0.8	3.6	0.5	24.2	0.10	0.24	0.09	44	0.25	0.075
1731409	Soil	1.06	29.15	6.18	44.2	166	18.5	10.5	1406	2.02	6.2	0.7	2.9	1.3	26.6	0.16	0.31	0.11	42	0.28	0.062
REP 1731409	QC	0.98	30.08	6.41	46.6	170	17.4	11.0	1398	2.05	6.0	0.7	2.5	1.3	27.3	0.20	0.30	0.11	43	0.26	0.064
1731424	Soil	0.54	35.88	5.17	55.5	92	23.4	10.3	360	2.20	3.8	1.0	1.5	1.7	36.4	0.13	0.27	0.11	40	0.65	0.053
REP 1731424	QC																				
1731433	Soil	0.34	22.99	5.31	58.5	57	27.8	8.7	189	2.04	2.6	0.5	4.5	2.3	24.7	0.12	0.25	0.09	45	0.41	0.084
REP 1731433	QC	0.39	24.71	4.97	62.8	60	28.8	9.2	202	2.07	2.9	0.5	2.3	2.3	24.8	0.14	0.26	0.09	45	0.44	0.077
1731441	Soil	0.55	30.03	4.44	48.0	117	19.3	8.8	718	2.13	4.0	1.3	1.2	1.1	38.8	0.18	0.32	0.08	33	0.75	0.058
REP 1731441	QC	0.60	28.13	3.94	44.6	136	17.8	8.3	697	2.15	3.2	1.3	1.3	1.1	44.6	0.17	0.31	0.07	33	0.75	0.072
1731454	Soil	1.00	24.25	5.60	69.4	140	27.6	12.6	1011	2.54	5.8	0.6	3.7	1.5	20.0	0.21	0.29	0.14	58	0.29	0.086
REP 1731454	QC	1.04	26.49	5.87	76.0	142	29.7	13.0	1010	2.54	6.5	0.7	2.6	1.6	21.3	0.20	0.32	0.14	57	0.29	0.088
1731457	Soil	0.48	18.62	3.69	40.3	143	15.2	9.0	304	2.04	5.0	0.8	2.0	0.9	22.8	0.08	0.20	0.09	45	0.27	0.096
REP 1731457	QC	0.42	19.07	3.79	41.1	143	15.7	8.8	331	2.05	5.0	0.7	4.2	0.9	23.5	0.07	0.20	0.09	46	0.27	0.097
1731458	Soil	0.61	21.06	5.91	76.7	98	30.9	11.6	324	2.80	5.6	0.6	17.8	2.6	28.2	0.10	0.33	0.11	63	0.43	0.098
REP 1731458	QC																				
Reference Materials																					
STD DOLOMITE-2	Standard																				
STD DOLOMITE-2	Standard																				
STD DOLOMITE-2	Standard																				

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.

QUALITY CONTROL REPORT

WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1731352 Soil	11.3	41.4	0.67	151.1	0.111	2	1.65	0.026	0.05	0.1	4.2	0.13	0.05	35	0.2	<0.02	5.2	1.28	<0.1	0.04	
REP 1731352 QC																					
1731369 Soil	8.0	31.0	0.41	123.2	0.075	1	1.32	0.029	0.10	<0.1	2.5	0.15	0.08	32	0.9	0.06	5.7	1.93	<0.1	0.03	
REP 1731369 QC	8.3	28.9	0.41	126.6	0.076	1	1.31	0.028	0.10	<0.1	2.6	0.14	0.08	36	1.0	0.06	6.3	1.94	<0.1	0.03	
1731377 Soil	14.8	59.2	1.06	239.2	0.166	2	2.29	0.015	0.21	0.2	5.7	0.14	0.03	22	0.4	0.07	6.9	1.99	<0.1	0.05	
REP 1731377 QC	15.1	56.5	1.05	243.5	0.162	2	2.29	0.014	0.20	0.1	5.9	0.14	0.03	19	0.5	0.03	7.4	1.97	<0.1	0.04	
1731388 Soil	10.0	31.0	0.55	122.2	0.085	2	1.74	0.020	0.11	0.1	3.1	0.13	0.04	21	0.2	0.03	5.9	1.22	<0.1	0.02	
REP 1731388 QC																					
1731401 Soil	6.7	13.9	0.19	79.0	0.060	1	0.75	0.031	0.04	<0.1	2.0	0.06	0.06	30	0.3	0.02	3.6	0.49	<0.1	0.04	
REP 1731401 QC	6.7	14.4	0.19	80.6	0.059	2	0.76	0.033	0.05	<0.1	2.0	0.08	0.06	15	0.5	<0.02	3.6	0.54	<0.1	0.04	
1731409 Soil	11.5	20.3	0.32	80.0	0.067	2	1.14	0.030	0.07	0.1	2.6	0.11	0.04	14	0.3	0.06	4.3	1.01	<0.1	<0.02	
REP 1731409 QC	11.2	22.2	0.33	81.8	0.075	1	1.11	0.030	0.07	<0.1	2.6	0.12	0.04	13	<0.1	<0.02	4.3	1.04	<0.1	0.02	
1731424 Soil	11.9	28.3	0.42	97.4	0.083	2	1.68	0.037	0.15	0.1	3.3	0.16	0.06	25	0.3	<0.02	5.3	1.26	<0.1	0.04	
REP 1731424 QC																					
1731433 Soil	11.1	33.2	0.64	142.2	0.084	2	1.55	0.024	0.10	0.1	3.5	0.13	0.02	14	0.2	<0.02	4.9	1.05	<0.1	0.05	
REP 1731433 QC	10.1	38.8	0.65	124.4	0.098	1	1.58	0.024	0.10	<0.1	4.1	0.12	0.02	25	0.2	<0.02	5.5	0.95	<0.1	0.06	
1731441 Soil	9.7	23.4	0.37	146.5	0.060	2	1.41	0.033	0.10	<0.1	2.9	0.10	0.08	31	0.4	<0.02	4.5	0.83	<0.1	0.04	
REP 1731441 QC	9.1	21.8	0.44	140.2	0.057	4	1.41	0.033	0.10	<0.1	2.8	0.08	0.08	27	0.5	<0.02	4.2	0.78	<0.1	0.04	
1731454 Soil	8.1	42.8	0.65	229.3	0.090	3	1.65	0.024	0.09	0.1	3.9	0.12	0.04	41	0.4	0.04	5.6	1.15	<0.1	0.03	
REP 1731454 QC	8.0	43.5	0.65	227.6	0.089	4	1.65	0.025	0.09	0.1	4.1	0.11	0.04	34	0.6	0.02	6.0	1.15	<0.1	0.03	
1731457 Soil	7.3	25.7	0.36	155.1	0.056	3	1.03	0.028	0.06	<0.1	2.6	0.11	0.06	33	0.4	<0.02	4.2	0.90	<0.1	0.03	
REP 1731457 QC	7.9	26.8	0.36	159.9	0.067	3	1.02	0.029	0.06	<0.1	2.6	0.12	0.06	34	0.5	0.03	4.2	1.00	<0.1	0.03	
1731458 Soil	11.4	46.5	0.77	173.0	0.112	3	1.74	0.022	0.15	0.1	4.3	0.15	0.02	28	0.3	<0.02	5.7	1.47	<0.1	0.04	
REP 1731458 QC																					
Reference Materials																					
STD DOLOMITE-2 Standard																					
STD DOLOMITE-2 Standard																					
STD DOLOMITE-2 Standard																					

## QUALITY CONTROL REPORT

WHI13000328.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	LOI	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	LOI	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1	
Pulp Duplicates															
1731352	Soil	1.22	8.9	0.9	<0.05	2.4	4.21	27.0	0.03	<1	0.4	11.4	<10	<2	13.9
REP 1731352	QC														14.2
1731369	Soil	1.03	11.3	0.7	<0.05	1.8	3.32	16.9	0.03	<1	0.3	11.8	<10	<2	17.3
REP 1731369	QC	1.09	11.6	0.7	<0.05	1.9	3.42	17.9	<0.02	<1	0.3	11.4	<10	<2	
1731377	Soil	1.08	17.2	0.8	<0.05	2.4	6.70	31.2	0.05	2	0.6	22.0	<10	<2	6.8
REP 1731377	QC	1.06	17.7	1.1	<0.05	2.6	6.76	31.4	0.04	<1	0.6	24.0	<10	<2	
1731388	Soil	1.27	17.1	0.8	<0.05	1.7	4.08	21.0	<0.02	<1	0.4	13.6	<10	<2	12.5
REP 1731388	QC														13.0
1731401	Soil	0.55	6.0	0.2	<0.05	1.6	3.98	13.6	<0.02	<1	0.2	3.5	<10	<2	15.8
REP 1731401	QC	0.49	6.4	0.2	<0.05	1.1	4.25	13.9	<0.02	<1	0.2	3.5	<10	<2	
1731409	Soil	0.75	11.6	0.4	<0.05	1.1	5.06	25.7	<0.02	<1	0.4	8.6	<10	<2	13.3
REP 1731409	QC	0.70	13.4	0.5	<0.05	1.1	5.15	24.6	<0.02	<1	0.3	9.0	<10	<2	
1731424	Soil	1.57	21.3	0.7	<0.05	2.4	6.17	22.2	<0.02	<1	0.4	13.8	<10	<2	15.8
REP 1731424	QC														15.7
1731433	Soil	1.17	13.2	0.4	<0.05	2.7	5.06	22.7	0.02	<1	0.3	16.3	<10	<2	8.9
REP 1731433	QC	1.24	13.2	0.5	<0.05	2.7	5.09	20.2	<0.02	<1	0.2	13.4	<10	<2	
1731441	Soil	0.98	13.8	0.4	<0.05	2.2	5.47	18.2	<0.02	1	0.3	11.8	<10	<2	19.2
REP 1731441	QC	1.18	15.3	0.4	<0.05	2.6	6.44	16.9	<0.02	<1	0.3	11.9	<10	<2	
1731454	Soil	1.01	12.1	0.5	<0.05	1.8	4.14	17.4	<0.02	<1	0.3	14.1	<10	<2	12.8
REP 1731454	QC	0.96	13.0	0.6	<0.05	1.8	4.39	16.7	0.02	<1	0.2	15.5	<10	<2	
1731457	Soil	1.28	8.2	0.6	<0.05	2.0	3.91	14.3	<0.02	<1	0.2	10.7	<10	<2	18.3
REP 1731457	QC	1.13	9.0	0.4	<0.05	1.6	3.95	15.5	<0.02	<1	0.3	11.0	<10	<2	
1731458	Soil	1.31	18.9	0.5	<0.05	2.7	5.96	23.1	<0.02	<1	0.3	19.1	<10	<2	8.5
REP 1731458	QC														8.7
Reference Materials															
STD DOLOMITE-2	Standard														45.9
STD DOLOMITE-2	Standard														45.8
STD DOLOMITE-2	Standard														45.9



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 09, 2013

Page: 2 of 2

Part: 1 of 3

## QUALITY CONTROL REPORT

WHI13000328.1

		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
STD DOLOMITE-2	Standard																					
STD DS9	Standard	13.44	111.9	126.8	294.4	1779	42.7	7.9	590	2.37	25.1	2.7	111.2	6.4	73.0	2.31	5.54	7.04	41	0.75	0.079	
STD DS9	Standard	14.84	115.5	128.6	309.4	1897	42.7	8.1	600	2.41	24.7	2.8	117.2	6.8	75.4	2.49	5.60	7.30	42	0.78	0.083	
STD DS9	Standard	11.30	111.4	122.1	308.7	1530	42.7	7.8	652	2.35	22.0	2.4	104.8	5.8	60.0	2.48	5.15	6.11	40	0.74	0.077	
STD DS9	Standard	14.50	99.50	126.1	304.1	1944	39.4	7.4	589	2.42	25.7	2.8	126.0	6.5	81.4	2.52	5.60	6.72	42	0.76	0.091	
STD DOLOMITE-2 Expected																						
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	
BLK	Blank	<0.01	0.07	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	
BLK	Blank	<0.01	0.03	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	

## QUALITY CONTROL REPORT

WHI13000328.1

		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30		
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
STD DOLOMITE-2	Standard																					
STD DS9	Standard	14.9	118.4	0.63	292.7	0.115	3	1.00	0.094	0.41	2.9	2.7	5.16	0.16	216	5.0	5.29	4.6	2.40	<0.1	0.06	
STD DS9	Standard	16.7	120.4	0.63	307.5	0.122	2	1.04	0.101	0.42	3.0	3.0	5.27	0.17	202	4.7	5.20	4.7	2.47	0.1	0.10	
STD DS9	Standard	13.5	120.6	0.63	275.7	0.119	3	0.98	0.090	0.40	2.5	2.7	5.10	0.17	203	5.1	5.04	4.6	2.32	0.1	0.07	
STD DS9	Standard	14.3	120.5	0.64	323.7	0.112	3	1.03	0.095	0.42	3.2	2.9	5.89	0.17	219	5.9	5.32	4.9	2.53	0.1	0.10	
STD DOLOMITE-2 Expected																						
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	0.7	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	

## QUALITY CONTROL REPORT

WHI13000328.1

		1F30 Nb ppm 0.02	1F30 Rb ppm 0.1	1F30 Sn ppm 0.1	1F30 Ta ppm 0.05	1F30 Zr ppm 0.1	1F30 Y ppm 0.01	1F30 Ce ppm 0.1	1F30 In ppm 0.02	1F30 Re ppb 1	1F30 Be ppm 0.1	1F30 Li ppm 0.1	1F30 Pd ppb 10	1F30 Pt ppb 2	LOI %
STD DOLOMITE-2	Standard														45.9
STD DS9	Standard	1.36	33.2	6.3	<0.05	1.7	6.13	30.4	2.16	45	5.2	23.7	118	356	
STD DS9	Standard	1.56	33.9	6.8	<0.05	2.0	6.94	32.8	2.21	45	5.4	23.1	126	371	
STD DS9	Standard	1.23	29.3	6.7	<0.05	1.5	5.19	25.5	2.49	50	5.1	24.3	91	353	
STD DS9	Standard	1.69	36.6	6.6	<0.05	2.2	7.22	27.4	2.39	65	6.2	29.8	142	374	
STD DOLOMITE-2 Expected															45.9
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	

APPENDIX VI

ROCK GEOCHEMICAL ANALYTICAL CERTIFICATES



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** **Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Submitted By: Karen Weir and Rupa Mukherjee  
Receiving Lab: Canada-Whitehorse  
Received: July 19, 2013  
Report Date: August 05, 2013  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI13000169.1

### CLIENT JOB INFORMATION

Project: 210800  
Shipment ID: YTG\_WLF\_2013\_002  
P.O. Number  
Number of Samples: 15

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT Store After 90 days Invoice for Storage

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: Teck Resources Limited  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-1000	14	Crush, split and pulverize 1kg of sample to 200 mesh			VAN
G601	15	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1F04	15	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	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.

# CERTIFICATE OF ANALYSIS

WHI13000169.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
2324501	Rock	1.01	<0.005	1.68	103.9	4.72	11.8	288	37.4	12.6	105	2.37	13.8	2.6	3.5	8.6	40.0	0.16	1.03	0.34	44
2324502	Rock	0.89	<0.005	1.42	60.95	3.98	9.9	201	4.0	8.3	99	1.93	12.2	2.7	1.9	9.3	40.9	0.12	1.01	0.20	42
2324601	Rock	2.74	0.037	2.17	5.43	13.85	54.0	123	24.7	4.1	393	2.50	18.9	0.7	9.5	2.2	8.8	0.25	1.08	0.78	41
2324602	Rock	2.46	<0.005	3.79	4.20	8.96	63.6	76	34.8	4.5	779	3.93	9.8	0.7	3.1	2.8	10.3	0.24	0.72	0.55	80
2324603	Rock	3.21	0.157	2.91	259.8	36.72	143.2	2236	17.3	8.3	326	3.68	830.6	1.2	142.9	0.8	4.2	4.20	10.69	2.34	23
2324604	Rock	2.85	0.005	0.98	5.25	2.76	45.2	84	33.0	16.3	700	4.67	56.1	0.8	4.1	4.6	81.4	0.25	3.61	3.06	34
2324605	Rock	2.95	<0.005	0.36	22.40	4.77	33.7	200	12.9	3.0	289	1.79	5.2	0.5	4.3	2.1	10.8	0.16	0.37	0.12	28
2324606	Rock	3.23	<0.005	0.77	13.18	7.47	46.3	59	14.1	9.7	339	2.29	3.7	0.9	<0.2	4.6	71.2	0.17	0.21	0.06	75
2324607	Rock	3.45	<0.005	1.42	9.06	5.44	37.3	73	14.4	11.9	238	2.32	5.4	0.6	17.0	3.9	118.9	0.17	0.09	0.07	55
2324608	Rock	3.13	<0.005	0.75	12.96	4.71	28.3	115	15.9	8.5	234	2.85	3.6	0.3	5.9	2.4	92.9	0.10	0.47	0.14	49
2324609	Rock	3.28	<0.005	0.27	24.06	16.25	118.1	204	20.4	6.2	370	1.54	4.9	1.1	<0.2	9.7	113.6	0.94	2.12	0.08	51
2324610	Rock Pulp	0.05	0.200	146.5	1801	21.84	62.9	2149	16.9	17.7	341	3.86	24.6	3.8	609.9	8.9	63.7	0.88	3.93	2.27	52
2324611	Rock	0.48	<0.005	0.10	2.96	3.44	44.2	9	3.2	3.8	575	2.07	0.7	1.8	1.2	5.0	59.6	0.01	<0.02	0.03	34
2324612	Rock	2.44	<0.005	1.12	9.43	6.51	82.3	54	5.4	11.8	526	4.04	2.1	0.6	0.6	5.4	145.1	0.26	0.14	0.02	54
2324613	Rock	0.48	<0.005	1.41	33.25	15.51	226.4	572	38.1	18.8	425	3.35	1.6	0.3	4.4	0.8	75.2	1.69	0.50	0.73	52

# CERTIFICATE OF ANALYSIS

WHI13000169.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
2324501	Rock	0.61	0.069	8.9	11.1	0.48	14.6	0.097	<20	0.88	0.112	0.04	0.3	2.2	0.04	0.52	<5	1.5	0.11	4.1	0.75
2324502	Rock	0.66	0.071	10.7	6.8	0.21	16.0	0.125	<20	0.90	0.128	0.05	0.2	2.1	0.02	0.39	<5	0.9	0.02	3.5	0.94
2324601	Rock	0.36	0.094	4.9	28.8	0.26	27.2	0.032	<20	0.53	0.032	0.04	0.2	2.7	0.06	<0.02	<5	<0.1	0.36	2.7	1.09
2324602	Rock	0.51	0.092	9.8	46.5	0.51	38.2	0.035	<20	1.17	0.031	0.06	0.2	4.3	0.06	<0.02	<5	<0.1	0.10	5.1	1.79
2324603	Rock	0.04	0.014	2.7	13.7	0.12	36.0	<0.001	<20	0.37	0.004	0.04	0.5	3.1	0.05	<0.02	33	0.3	0.08	1.3	1.62
2324604	Rock	1.76	0.098	8.9	26.8	0.58	99.4	0.123	<20	1.49	0.083	0.16	0.3	2.9	0.05	0.02	<5	0.2	1.23	6.1	0.24
2324605	Rock	0.05	0.023	5.6	24.8	0.41	191.6	0.020	<20	0.74	0.007	0.16	<0.1	2.3	0.05	0.04	6	0.6	0.04	3.1	0.79
2324606	Rock	1.10	0.069	9.4	27.2	1.11	192.2	0.177	<20	1.70	0.165	0.29	0.1	2.3	0.09	0.02	<5	<0.1	<0.02	5.8	1.18
2324607	Rock	1.00	0.096	6.3	27.5	0.87	110.6	0.101	<20	1.98	0.174	0.08	<0.1	1.5	<0.02	0.11	<5	<0.1	0.05	7.0	0.39
2324608	Rock	0.82	0.082	2.7	33.8	0.88	57.1	0.085	<20	1.89	0.172	0.06	<0.1	1.4	<0.02	0.34	12	0.2	0.19	6.5	0.19
2324609	Rock	1.53	0.192	29.4	37.3	0.91	126.7	0.129	<20	1.35	0.133	0.07	0.1	2.6	0.02	0.13	12	<0.1	<0.02	5.0	0.53
2324610	Rock Pulp	1.72	0.065	17.2	55.3	0.82	136.1	0.031	<20	1.27	0.051	0.46	1.6	5.7	0.27	1.72	86	2.3	0.25	4.1	1.61
2324611	Rock	0.49	0.069	11.8	5.1	0.48	156.6	0.119	<20	0.95	0.102	0.49	<0.1	2.1	0.32	<0.02	<5	<0.1	<0.02	4.4	3.44
2324612	Rock	1.28	0.134	17.8	13.9	0.82	140.4	0.232	<20	1.94	0.133	0.09	0.2	3.2	<0.02	0.06	6	<0.1	<0.02	7.8	0.60
2324613	Rock	1.07	0.127	7.3	20.5	0.89	187.5	0.121	<20	1.75	0.131	0.10	0.1	2.1	0.02	1.35	8	0.5	0.21	5.9	0.36



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 05, 2013

Page: 2 of 2

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000169.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppb	
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2324501	Rock	0.2	0.08	0.26	1.5	2.2	<0.05	2.0	5.07	17.1	<0.02	6	0.2	4.1	<10	<2
2324502	Rock	<0.1	0.09	0.27	1.7	2.4	<0.05	1.9	5.55	19.2	<0.02	1	0.4	3.9	<10	<2
2324601	Rock	0.2	0.04	0.19	4.3	0.3	<0.05	1.3	5.04	10.0	0.04	<1	0.1	3.4	<10	<2
2324602	Rock	0.1	0.05	0.10	6.2	0.4	<0.05	1.5	6.64	17.4	0.05	3	0.2	4.0	<10	<2
2324603	Rock	<0.1	<0.02	<0.02	1.8	<0.1	<0.05	0.5	2.55	6.1	0.17	<1	0.1	6.3	<10	<2
2324604	Rock	0.5	0.13	0.21	3.4	2.3	<0.05	3.7	5.34	15.8	0.35	<1	0.4	5.9	<10	2
2324605	Rock	<0.1	<0.02	0.08	9.2	<0.1	<0.05	0.3	2.52	11.3	<0.02	1	0.1	7.9	<10	<2
2324606	Rock	0.1	0.06	0.11	14.2	3.9	<0.05	2.1	4.18	19.5	<0.02	<1	0.1	13.6	<10	<2
2324607	Rock	<0.1	0.06	0.06	3.4	0.1	<0.05	2.1	2.54	13.0	<0.02	<1	0.2	9.9	<10	<2
2324608	Rock	<0.1	0.10	0.12	2.2	0.1	<0.05	3.3	1.91	6.1	<0.02	<1	0.2	15.1	<10	<2
2324609	Rock	0.1	0.22	0.16	2.3	1.2	<0.05	6.0	7.08	61.6	<0.02	<1	0.2	11.4	<10	<2
2324610	Rock Pulp	<0.1	0.09	0.03	26.8	1.5	<0.05	2.9	9.50	29.7	0.05	43	0.4	6.1	31	<2
2324611	Rock	<0.1	0.07	0.34	44.8	0.6	<0.05	1.3	4.84	21.8	<0.02	<1	0.3	31.1	<10	<2
2324612	Rock	0.1	0.19	0.13	4.4	0.7	<0.05	9.1	18.11	38.0	0.03	<1	0.2	15.2	<10	<2
2324613	Rock	<0.1	0.13	0.10	3.5	0.4	<0.05	4.6	6.17	16.4	<0.02	4	0.3	17.1	<10	<2



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 05, 2013

Page: 1 of 2

Part: 1 of 3

# QUALITY CONTROL REPORT

WHI13000169.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
Pulp Duplicates																					
REP 2324608	QC		0.71	12.33	4.66	29.2	123	14.6	8.4	225	2.84	3.4	0.3	4.2	2.3	95.8	0.13	0.50	0.15	49	
2324609	Rock	3.28	<0.005	0.27	24.06	16.25	118.1	204	20.4	6.2	370	1.54	4.9	1.1	<0.2	9.7	113.6	0.94	2.12	0.08	51
REP 2324609	QC		0.25	24.32	16.29	118.6	220	20.1	6.2	372	1.55	5.1	1.1	<0.2	9.8	115.7	0.96	2.14	0.08	51	
2324612	Rock	2.44	<0.005	1.12	9.43	6.51	82.3	54	5.4	11.8	526	4.04	2.1	0.6	0.6	5.4	145.1	0.26	0.14	0.02	54
REP 2324612	QC		<0.005																		
2324613	Rock	0.48	<0.005	1.41	33.25	15.51	226.4	572	38.1	18.8	425	3.35	1.6	0.3	4.4	0.8	75.2	1.69	0.50	0.73	52
REP 2324613	QC		<0.005																		
Core Reject Duplicates																					
2324608	Rock	3.13	<0.005	0.75	12.96	4.71	28.3	115	15.9	8.5	234	2.85	3.6	0.3	5.9	2.4	92.9	0.10	0.47	0.14	49
DUP 2324608	QC		0.006	0.78	12.73	4.83	29.1	121	15.0	8.7	238	2.84	3.6	0.3	14.1	2.4	95.1	0.12	0.50	0.14	49
Reference Materials																					
STD DS9	Standard			12.19	113.5	123.9	330.7	1794	41.0	7.8	587	2.36	25.4	2.4	97.2	5.5	62.9	2.44	4.48	6.47	38
STD DS9	Standard			13.19	116.7	140.0	326.7	1918	41.3	8.1	591	2.48	26.9	2.9	139.5	6.8	71.5	2.48	5.16	8.27	41
STD OREAS45EA	Standard			1.17	623.9	14.08	27.7	268	340.0	46.1	357	22.37	6.6	1.6	50.4	9.6	3.3	0.04	0.19	0.25	280
STD OREAS45EA	Standard			1.61	728.8	14.99	29.5	268	408.4	53.9	405	24.21	9.9	1.9	56.1	10.9	3.7	0.02	0.24	0.28	307
STD OXC109	Standard		0.207																		
STD OXC109	Standard		0.197																		
STD OXI96	Standard		1.846																		
STD OXL93	Standard		5.947																		
STD OXL93	Standard		5.821																		
STD OXI96 Expected			1.802																		
STD OXC109 Expected			0.201																		
STD OXL93 Expected			5.841																		
STD DS9 Expected			12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	
STD OREAS45EA Expected			1.78	709	14.3	30.6	311	357	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.64	0.26	295	
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		



www.acmelab.com

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Project: 210800  
 Report Date: August 05, 2013

Page: 1 of 2

Part: 2 of 3

# QUALITY CONTROL REPORT

WHI13000169.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
REP 2324608	QC	0.81	0.082	2.7	33.4	0.86	57.1	0.085	<20	1.86	0.170	0.06	<0.1	1.3	<0.02	0.35	<5	0.3	0.17	6.1	0.19
2324609	Rock	1.53	0.192	29.4	37.3	0.91	126.7	0.129	<20	1.35	0.133	0.07	0.1	2.6	0.02	0.13	12	<0.1	<0.02	5.0	0.53
REP 2324609	QC	1.51	0.195	30.4	36.5	0.92	130.7	0.130	<20	1.35	0.134	0.07	0.1	2.7	0.02	0.13	7	0.1	<0.02	5.1	0.52
2324612	Rock	1.28	0.134	17.8	13.9	0.82	140.4	0.232	<20	1.94	0.133	0.09	0.2	3.2	<0.02	0.06	6	<0.1	<0.02	7.8	0.60
REP 2324612	QC																				
2324613	Rock	1.07	0.127	7.3	20.5	0.89	187.5	0.121	<20	1.75	0.131	0.10	0.1	2.1	0.02	1.35	8	0.5	0.21	5.9	0.36
REP 2324613	QC																				
Core Reject Duplicates																					
2324608	Rock	0.82	0.082	2.7	33.8	0.88	57.1	0.085	<20	1.89	0.172	0.06	<0.1	1.4	<0.02	0.34	12	0.2	0.19	6.5	0.19
DUP 2324608	QC	0.82	0.084	2.7	35.2	0.87	56.7	0.085	<20	1.88	0.170	0.06	<0.1	1.3	<0.02	0.34	13	0.3	0.11	6.3	0.20
Reference Materials																					
STD DS9	Standard	0.67	0.082	11.4	115.8	0.62	324.1	0.104	<20	0.89	0.076	0.39	2.5	2.1	5.12	0.17	223	4.9	5.08	4.1	2.31
STD DS9	Standard	0.73	0.090	13.9	120.0	0.64	330.0	0.116	<20	0.99	0.088	0.41	2.7	2.3	5.78	0.17	231	5.7	5.57	5.0	2.63
STD OREAS45EA	Standard	0.03	0.026	6.1	734.1	0.09	138.4	0.083	<20	2.76	0.024	0.05	<0.1	70.3	<0.02	0.04	10	0.5	0.07	10.9	0.56
STD OREAS45EA	Standard	0.03	0.030	7.3	802.7	0.11	144.0	0.095	<20	3.30	0.021	0.06	<0.1	75.6	0.05	0.04	10	0.9	0.08	13.1	0.72
STD OXC109	Standard																				
STD OXC109	Standard																				
STD OXI96	Standard																				
STD OXL93	Standard																				
STD OXL93	Standard																				
STD OXI96 Expected																					
STD OXC109 Expected																					
STD OXL93 Expected																					
STD DS9 Expected		0.7201	0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37
STD OREAS45EA Expected		0.032	0.029	8.19	849	0.095	148	0.106		3.32	0.027	0.053		78	0.072	0.044	340	2.09	0.11	11.7	0.77
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				

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.

## QUALITY CONTROL REPORT

WHI13000169.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates																
REP 2324608	QC	<0.1	0.10	0.11	2.0	0.1	<0.05	3.2	1.93	6.0	<0.02	<1	<0.1	13.7	<10	2
2324609	Rock	0.1	0.22	0.16	2.3	1.2	<0.05	6.0	7.08	61.6	<0.02	<1	0.2	11.4	<10	<2
REP 2324609	QC	<0.1	0.21	0.18	2.4	1.2	<0.05	5.8	7.17	62.8	<0.02	<1	0.2	11.7	<10	3
2324612	Rock	0.1	0.19	0.13	4.4	0.7	<0.05	9.1	18.11	38.0	0.03	<1	0.2	15.2	<10	<2
REP 2324612	QC															
2324613	Rock	<0.1	0.13	0.10	3.5	0.4	<0.05	4.6	6.17	16.4	<0.02	4	0.3	17.1	<10	<2
REP 2324613	QC															
Core Reject Duplicates																
2324608	Rock	<0.1	0.10	0.12	2.2	0.1	<0.05	3.3	1.91	6.1	<0.02	<1	0.2	15.1	<10	<2
DUP 2324608	QC	<0.1	0.10	0.10	1.9	0.1	<0.05	3.2	1.97	6.2	<0.02	<1	<0.1	14.3	<10	<2
Reference Materials																
STD DS9	Standard	<0.1	0.05	0.84	32.9	6.7	<0.05	1.6	4.85	19.9	2.24	66	4.7	23.8	109	327
STD DS9	Standard	<0.1	0.06	1.02	36.6	6.8	<0.05	1.7	6.13	26.8	2.43	68	6.1	27.9	130	392
STD OREAS45EA	Standard	0.2	0.62	0.06	6.5	0.8	<0.05	19.2	4.82	15.8	0.10	<1	0.4	2.1	70	99
STD OREAS45EA	Standard	0.3	0.50	0.06	7.8	0.8	<0.05	17.5	5.60	19.7	0.09	<1	0.5	2.6	75	115
STD OXC109	Standard															
STD OXC109	Standard															
STD OXI96	Standard															
STD OXL93	Standard															
STD OXL93	Standard															
STD OXI96 Expected																
STD OXC109 Expected																
STD OXL93 Expected																
STD DS9 Expected		0.1	0.08	0.96	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
STD OREAS45EA Expected		0.26	0.82	0.43	7.93	0.97		26.6	5.74	17.7	0.1		0.47	7.63	66	108
BLK	Blank															
BLK	Blank															
BLK	Blank															



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 05, 2013

Page: 2 of 2

Part: 1 of 3

## QUALITY CONTROL REPORT

WHI13000169.1

		WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
BLK	Blank	<0.005																			
BLK	Blank		<0.01	<0.01	0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
BLK	Blank		<0.01	0.03	0.04	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
Prep Wash																					
G1-WHI	Prep Blank	<0.005	0.11	3.89	4.48	44.1	12	3.7	3.8	541	1.90	0.7	1.5	2.4	4.7	45.3	0.04	0.04	0.09	33	
G1-WHI	Prep Blank	<0.005	0.08	3.13	3.56	47.3	12	3.4	3.8	546	1.86	0.6	2.0	1.7	4.8	48.6	0.02	0.02	0.08	33	



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 05, 2013

Page: 2 of 2

Part: 2 of 3

## QUALITY CONTROL REPORT

WHI13000169.1

		1F Ca	1F P	1F La	1F Cr	1F Mg	1F Ba	1F Ti	1F B	1F Al	1F Na	1F K	1F W	1F Sc	1F Ti	1F S	1F Hg	1F Se	1F Te	1F Ga	1F Cs	
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
		0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
BLK	Blank																					
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	
Prep Wash																						
G1-WHI	Prep Blank	0.41	0.073	10.1	4.8	0.48	161.0	0.108	<20	0.80	0.062	0.45	<0.1	1.8	0.31	<0.02	<5	<0.1	0.03	4.4	3.41	
G1-WHI	Prep Blank	0.44	0.074	11.0	4.4	0.49	160.6	0.114	<20	0.83	0.066	0.47	<0.1	2.0	0.32	<0.02	<5	<0.1	<0.02	4.4	3.48	



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 05, 2013

Page: 2 of 2

Part: 3 of 3

## QUALITY CONTROL REPORT

WHI13000169.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank														
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
Prep Wash															
G1-WHI	Prep Blank	0.1	0.06	0.30	40.6	1.5	<0.05	0.9	4.14	19.5	0.03	<1	0.2	30.4	<10
G1-WHI	Prep Blank	<0.1	0.06	0.31	43.8	0.5	<0.05	0.9	4.51	20.7	<0.02	<1	0.2	30.4	<10



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Submitted By: Karen Weir and Rupa Mukherjee  
Receiving Lab: Canada-Whitehorse  
Received: July 26, 2013  
Report Date: August 11, 2013  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI13000203.1

### CLIENT JOB INFORMATION

Project: 210800  
Shipment ID: YTG\_WLF\_2013\_004  
P.O. Number  
Number of Samples: 11

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT Store After 90 days Invoice for Storage

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: Teck Resources Limited  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-1000	10	Crush, split and pulverize 1kg of sample to 200 mesh			VAN
G601	11	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1F04	11	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	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.

# CERTIFICATE OF ANALYSIS

WHI13000203.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
2324503	Rock	2.63	<0.005	1.14	9.02	6.48	54.7	102	4.3	11.0	761	3.45	0.7	0.9	1.8	4.6	127.9	0.14	0.26	0.04	81
2324504	Rock	2.61	<0.005	0.21	5.28	2.65	7.4	24	6.9	2.1	94	1.01	2.9	0.2	1.3	3.0	3.9	0.02	0.26	0.05	6
2324505	Rock	3.22	<0.005	0.18	10.81	6.72	20.2	53	24.1	8.8	232	2.46	3.3	0.8	0.9	11.1	10.0	0.04	0.19	0.11	31
2324551	Rock	0.93	<0.005	0.18	4.47	4.71	45.6	31	3.9	4.4	611	2.44	0.3	1.7	<0.2	5.8	67.4	<0.01	0.03	0.08	40
2324552	Rock	2.30	0.005	0.40	11.26	10.58	70.4	45	16.1	15.6	748	3.74	3.6	0.4	1.4	2.7	127.3	0.17	0.06	0.09	117
2324553	Rock	1.40	<0.005	1.63	35.18	43.45	30.7	469	12.0	2.8	566	2.54	8.9	1.1	2.0	3.8	36.5	0.27	0.48	0.04	77
2324554	Rock	3.97	0.008	1.53	31.55	44.42	42.8	1264	4.5	3.3	741	3.94	18.0	1.0	4.7	4.3	48.1	0.19	0.94	0.51	109
2324555	Rock Pulp	0.05	0.172	152.4	1837	22.34	67.8	2057	17.2	17.2	365	3.90	26.8	4.2	180.1	9.9	69.7	0.80	4.94	2.49	54
2324614	Rock	2.47	0.348	2.47	46.93	5416	22.9>100000	3.6	0.5	74	2.04	1868	3.4	346.8	0.9	23.7	37.30	1929	0.60	17	
2324615	Rock	2.96	0.011	0.56	34.54	12.75	59.2	150	43.1	23.3	852	4.44	8.5	0.7	10.3	6.5	15.1	0.10	4.66	0.04	57
2324616	Rock	3.46	0.012	1.20	45.16	12.53	57.8	210	31.6	15.9	566	3.58	6.5	1.0	9.9	5.3	38.9	0.10	5.43	0.03	59



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 11, 2013

Page: 2 of 2

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000203.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
2324503	Rock	2.48	0.088	22.3	15.9	1.46	387.0	0.004	<20	1.81	0.070	0.29	<0.1	7.1	0.06	<0.02	<5	<0.1	<0.02	7.2	2.21
2324504	Rock	0.05	0.015	5.5	19.1	0.14	41.7	0.015	<20	0.33	0.018	0.16	<0.1	0.8	0.07	<0.02	<5	<0.1	<0.02	1.2	0.51
2324505	Rock	0.17	0.027	19.8	39.4	0.60	98.7	0.105	<20	1.40	0.051	0.51	<0.1	4.3	0.24	<0.02	<5	<0.1	0.03	5.8	1.56
2324551	Rock	0.52	0.083	14.6	9.8	0.53	186.2	0.137	<20	1.05	0.109	0.51	<0.1	2.3	0.33	<0.02	<5	<0.1	<0.02	5.1	3.65
2324552	Rock	2.14	0.085	14.0	84.2	2.22	157.6	0.088	<20	2.72	0.217	0.16	<0.1	8.4	<0.02	0.02	<5	0.1	<0.02	9.3	0.56
2324553	Rock	0.19	0.047	5.5	31.6	0.97	122.3	0.142	<20	1.25	0.053	0.12	<0.1	3.6	<0.02	0.37	6	1.2	0.02	6.9	0.13
2324554	Rock	0.22	0.122	14.2	8.8	1.23	241.9	0.181	<20	1.55	0.086	0.13	<0.1	4.9	<0.02	1.14	18	3.6	0.35	8.9	0.26
2324555	Rock Pulp	1.75	0.066	18.4	56.0	0.83	162.6	0.033	<20	1.33	0.052	0.48	1.7	5.9	0.26	1.77	87	2.7	0.39	4.3	1.69
2324614	Rock	0.03	0.051	1.3	13.1	<0.01	144.9	0.002	<20	0.08	0.003	0.16	<0.1	0.8	0.13	0.31	1401	32.0	0.03	1.1	0.11
2324615	Rock	0.10	0.043	14.2	50.6	1.16	209.3	0.079	<20	2.48	0.045	0.68	<0.1	6.5	0.28	0.70	14	0.9	0.03	8.9	3.81
2324616	Rock	0.28	0.059	13.3	42.9	0.97	207.5	0.108	<20	1.78	0.095	0.47	0.1	5.6	0.20	0.55	14	0.8	0.02	6.9	2.38



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: August 11, 2013

Page: 2 of 2

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000203.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2324503	Rock	<0.1	0.11	<0.02	10.5	0.3	<0.05	6.2	9.05	47.3	0.03	<1	0.4	27.0	<10	2
2324504	Rock	<0.1	<0.02	0.11	10.1	0.1	<0.05	0.2	1.42	11.8	<0.02	1	0.1	3.8	<10	<2
2324505	Rock	<0.1	<0.02	0.27	38.8	0.5	<0.05	0.5	5.17	42.9	<0.02	<1	0.4	16.5	<10	<2
2324551	Rock	0.1	0.08	0.42	46.2	0.6	<0.05	1.2	5.82	28.3	<0.02	<1	0.4	31.1	<10	<2
2324552	Rock	0.1	0.15	0.05	6.0	0.3	<0.05	6.7	8.44	34.2	<0.02	<1	0.3	31.1	<10	<2
2324553	Rock	<0.1	0.20	0.31	4.0	0.5	<0.05	5.0	2.91	11.4	<0.02	5	0.4	16.3	<10	<2
2324554	Rock	<0.1	0.24	0.09	3.3	0.9	<0.05	12.7	11.11	30.5	0.06	2	0.3	22.1	<10	<2
2324555	Rock Pulp	<0.1	0.10	0.03	28.9	1.6	<0.05	3.2	9.90	34.2	0.05	38	0.3	7.2	11	2
2324614	Rock	<0.1	0.02	<0.02	6.1	4.6	<0.05	1.2	1.17	4.2	0.40	4	<0.1	0.4	<10	<2
2324615	Rock	<0.1	<0.02	0.14	47.0	1.0	<0.05	0.9	7.43	34.4	<0.02	3	0.9	37.4	<10	2
2324616	Rock	<0.1	0.05	0.15	33.5	0.6	<0.05	2.6	7.21	31.6	<0.02	2	0.6	22.8	<10	<2

## QUALITY CONTROL REPORT

WHI13000203.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F		
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V		
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2		
Pulp Duplicates																						
2324616	Rock	3.46	0.012	1.20	45.16	12.53	57.8	210	31.6	15.9	566	3.58	6.5	1.0	9.9	5.3	38.9	0.10	5.43	0.03	59	
REP 2324616	QC			1.16	45.39	11.94	56.9	193	32.1	17.5	560	3.58	6.4	1.0	9.8	5.3	38.4	0.12	5.29	0.03	58	
Reference Materials																						
STD DS9	Standard			12.86	118.1	141.4	320.1	1804	42.2	7.0	590	2.39	26.1	3.0	108.6	7.2	71.2	2.48	6.07	7.39	41	
STD OREAS45EA	Standard			1.45	677.1	15.15	31.1	268	377.8	52.2	395	24.81	9.4	1.8	55.1	10.8	3.9	0.03	0.29	0.26	318	
STD OXC109	Standard			0.196																		
STD OXL93	Standard			5.710																		
STD SG56	Standard			0.967																		
STD OXC109 Expected				0.201																		
STD SG56 Expected				1.027																		
STD OXL93 Expected				5.841																		
STD DS9 Expected				12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	
STD OREAS45EA Expected				1.78	709	14.3	30.6	311	357	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.64	0.26	295	
BLK	Blank			<0.005																		
BLK	Blank			<0.005																		
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	
Prep Wash																						
G1-WHI	Prep Blank			<0.005	0.18	4.29	6.69	45.8	40	3.2	4.1	593	2.08	0.5	2.0	1.3	6.1	62.4	0.03	0.05	0.11	37
G1-WHI	Prep Blank			<0.005	0.13	3.39	5.69	46.8	63	3.4	4.0	592	2.15	0.3	2.5	1.1	6.5	59.1	<0.01	0.05	0.08	38

## QUALITY CONTROL REPORT

WHI13000203.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
Pulp Duplicates																					
2324616	Rock	0.28	0.059	13.3	42.9	0.97	207.5	0.108	<20	1.78	0.095	0.47	0.1	5.6	0.20	0.55	14	0.8	0.02	6.9	2.38
REP 2324616	QC	0.29	0.058	13.1	42.6	0.97	212.7	0.108	<20	1.79	0.096	0.47	0.1	5.7	0.19	0.55	10	0.9	0.05	6.5	2.36
Reference Materials																					
STD DS9	Standard	0.70	0.086	12.9	112.8	0.63	341.4	0.111	<20	0.97	0.080	0.40	2.8	2.1	5.69	0.17	213	5.9	5.47	4.8	2.55
STD OREAS45EA	Standard	0.04	0.030	6.6	788.4	0.09	148.4	0.093	<20	3.24	0.018	0.07	<0.1	74.4	<0.02	0.04	11	0.7	0.06	12.4	0.63
STD OXC109	Standard																				
STD OXL93	Standard																				
STD SG56	Standard																				
STD OXC109 Expected																					
STD SG56 Expected																					
STD OXL93 Expected																					
STD DS9 Expected		0.7201	0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37
STD OREAS45EA Expected		0.032	0.029	8.19	849	0.095	148	0.106		3.32	0.027	0.053		78	0.072	0.044	340	2.09	0.11	11.7	0.77
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
Prep Wash																					
G1-WHI	Prep Blank	0.50	0.077	12.2	6.6	0.51	226.6	0.127	<20	1.06	0.120	0.52	<0.1	2.2	0.35	<0.02	<5	<0.1	0.02	4.9	3.80
G1-WHI	Prep Blank	0.49	0.075	12.7	7.6	0.52	263.0	0.130	<20	1.02	0.101	0.52	0.2	2.2	0.35	<0.02	<5	<0.1	<0.02	4.9	4.03

## QUALITY CONTROL REPORT

WHI13000203.1

Method	Analyte	1F Ge	1F Hf	1F Nb	1F Rb	1F Sn	1F Ta	1F Zr	1F Y	1F Ce	1F In	1F Re	1F Be	1F Li	1F Pd	1F Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates																
2324616	Rock	<0.1	0.05	0.15	33.5	0.6	<0.05	2.6	7.21	31.6	<0.02	2	0.6	22.8	<10	<2
REP 2324616	QC	<0.1	0.08	0.18	33.8	0.6	<0.05	2.7	7.03	31.1	<0.02	5	0.5	22.8	<10	<2
Reference Materials																
STD DS9	Standard	<0.1	0.07	0.95	34.2	6.7	<0.05	1.7	5.41	25.1	2.30	74	5.9	26.0	111	384
STD OREAS45EA	Standard	0.2	0.47	0.06	7.2	0.8	<0.05	18.5	5.32	17.9	0.09	<1	0.4	2.2	62	101
STD OXC109	Standard															
STD OXL93	Standard															
STD SG56	Standard															
STD OXC109 Expected																
STD SG56 Expected																
STD OXL93 Expected																
STD DS9 Expected		0.1	0.08	0.96	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
STD OREAS45EA Expected		0.26	0.82	0.43	7.93	0.97		26.6	5.74	17.7	0.1		0.47	7.63	66	108
BLK	Blank															
BLK	Blank															
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	2
Prep Wash																
G1-WHI	Prep Blank	<0.1	0.06	0.46	43.9	0.5	<0.05	1.1	5.42	24.2	<0.02	<1	0.2	31.9	<10	<2
G1-WHI	Prep Blank	<0.1	0.06	0.43	47.2	0.5	<0.05	1.0	5.07	23.2	<0.02	<1	0.2	30.8	<10	<2



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Submitted By: Michael Buchanan and Rupa Mukherjee  
Receiving Lab: Canada-Whitehorse  
Received: August 23, 2013  
Report Date: September 11, 2013  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI13000329.1

### CLIENT JOB INFORMATION

Project: 210800  
Shipment ID: YTG\_WLF\_2013\_018  
P.O. Number  
Number of Samples: 23

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT Store After 90 days Invoice for Storage

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

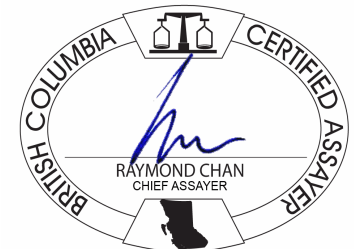
Invoice To: Teck Resources Limited  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-1000	22	Crush, split and pulverize 1kg of sample to 200 mesh			VAN
G601	23	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1F04	23	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 11, 2013

Page: 2 of 2

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI13000329.1

Method	Analyte	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
			Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	
2324556	Rock	4.83	<0.005	1.37	39.46	4.87	25.3	77	10.8	10.7	215	2.04	6.7	0.9	0.2	4.9	34.1	0.10	0.60	0.13	35
2324557	Rock	2.77	0.007	0.83	4.24	13.41	65.8	40	17.6	11.4	683	2.96	3.2	0.8	0.3	4.7	41.5	0.19	0.55	0.02	61
2324558	Rock	2.86	0.006	1.12	3.48	6.79	57.7	31	2.9	4.8	613	2.58	2.0	0.6	0.5	2.1	28.8	0.13	0.07	0.08	22
2324559	Rock	3.13	0.016	1.88	34.61	4.02	58.4	53	24.2	14.8	487	4.72	123.1	1.1	2.0	5.1	15.1	0.19	1.38	0.27	57
2324560	Rock	3.94	0.006	1.34	12.52	3.93	55.6	35	18.3	14.3	841	3.95	3.0	1.8	<0.2	5.0	57.5	0.33	3.01	<0.02	65
2324561	Rock	3.41	<0.005	0.49	22.82	6.19	93.8	48	5.5	13.7	825	3.42	1.5	0.7	<0.2	2.1	105.5	0.23	0.08	0.09	70
2324562	Rock	3.46	<0.005	0.50	16.91	6.86	101.4	48	5.8	15.0	824	3.53	0.8	0.9	<0.2	2.2	91.1	0.30	0.08	0.06	71
2324563	Rock	5.29	<0.005	0.08	3.29	9.05	92.2	16	3.8	3.7	479	2.45	0.3	0.3	<0.2	1.2	66.7	0.04	0.02	<0.02	40
2324564	Rock	3.74	<0.005	0.37	8.94	6.51	49.8	47	3.6	2.8	399	1.94	0.5	2.7	<0.2	11.0	51.9	0.19	0.04	0.07	49
2324565	Rock	4.25	<0.005	6.86	1.08	12.96	29.3	21	1.2	0.6	95	1.31	<0.1	2.4	<0.2	10.4	5.8	<0.01	0.04	0.03	<2
2324566	Rock	4.29	0.006	0.65	1.18	17.72	33.9	27	1.5	0.8	468	1.00	0.7	1.6	<0.2	9.7	30.4	0.12	0.05	0.04	<2
2324567	Rock	3.63	0.006	0.65	15.86	1.26	9.9	261	5.8	1.6	66	0.99	5.3	0.5	1.1	0.8	6.2	0.04	0.19	0.03	7
2324568	Rock	3.49	0.013	7.86	38.19	6.83	21.6	856	13.0	1.9	91	1.60	8.6	1.9	1.4	1.7	24.0	0.19	0.67	0.10	64
2324569	Rock	3.06	<0.005	0.43	3.22	6.03	28.6	22	2.0	0.6	86	1.16	6.2	2.7	<0.2	17.9	0.8	0.02	0.07	0.48	<2
2324570	Rock Pulp	0.05	0.305	161.0	1750	20.45	63.6	1925	17.5	16.3	337	3.74	25.4	3.7	453.5	9.0	58.6	0.95	3.43	2.11	52
2324571	Rock	0.64	<0.005	0.19	3.31	3.49	44.5	10	3.0	4.0	530	2.03	0.2	1.8	<0.2	6.1	49.9	0.01	<0.02	0.04	35
2324572	Rock	4.41	0.054	8.21	45.59	72.26	23.7	4798	5.2	0.4	31	0.94	157.7	1.0	33.8	1.0	6.1	0.13	3.56	0.08	13
2324573	Rock	3.57	0.005	0.31	25.23	2.35	65.0	43	23.3	19.6	867	4.68	0.3	0.9	<0.2	3.5	304.2	0.07	0.02	<0.02	199
2324574	Rock	2.99	0.039	9.91	20.13	78.38	9.6	4351	4.1	0.4	54	1.81	110.1	0.6	15.7	1.6	16.3	0.15	2.55	7.14	29
2324575	Rock	3.07	<0.005	0.36	11.82	2.83	82.2	34	22.6	18.7	964	4.54	0.4	0.9	<0.2	4.2	261.5	0.20	<0.02	0.04	169
2324576	Rock	2.72	<0.005	0.35	24.19	3.52	79.4	36	14.4	17.2	1075	4.61	0.1	1.1	<0.2	3.9	195.8	0.12	0.03	0.04	162
2324577	Rock	3.94	0.038	1.61	15.87	3.41	27.3	30	12.7	12.0	293	3.32	5.7	1.4	6.2	4.7	53.1	0.04	0.22	0.19	72
2324578	Rock	4.08	0.008	0.96	2.94	21.93	58.6	316	4.6	15.4	203	1.41	13.6	1.0	1.8	8.0	32.2	0.82	1.11	0.51	30



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Teck Resources Limited**

Suite 3300, 550 Burrard St.

Vancouver BC V6C 0B3 CANADA

Project: 210800

Report Date: September 11, 2013

Page: 2 of 2

Part: 2 of 3

# CERTIFICATE OF ANALYSIS

WHI13000329.1

Method Analyte Unit MDL	1F																				
	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
2324556	Rock	0.60	0.116	9.5	24.1	0.66	85.4	0.064	<20	0.98	0.070	0.07	<0.1	1.8	<0.02	0.20	8	<0.1	0.05	4.2	0.76
2324557	Rock	0.94	0.059	13.0	20.1	1.26	152.4	0.032	<20	1.67	0.035	0.13	<0.1	6.2	0.03	0.08	13	<0.1	<0.02	6.8	0.81
2324558	Rock	1.08	0.061	16.6	4.7	0.54	108.3	0.002	<20	1.11	0.027	0.20	<0.1	4.6	0.07	<0.02	9	<0.1	<0.02	4.7	0.70
2324559	Rock	0.34	0.065	13.5	24.3	1.00	162.8	0.024	<20	1.60	0.045	0.17	<0.1	5.3	0.05	0.04	<5	0.4	0.12	6.3	0.80
2324560	Rock	0.88	0.070	12.8	22.7	1.31	424.9	0.022	<20	1.82	0.072	0.15	<0.1	6.0	0.03	<0.02	20	<0.1	<0.02	6.6	0.88
2324561	Rock	2.38	0.094	22.0	5.1	1.34	468.3	0.002	<20	1.94	0.028	0.17	<0.1	5.1	0.03	0.03	6	<0.1	<0.02	7.9	2.44
2324562	Rock	2.08	0.109	24.7	5.7	1.36	347.9	0.002	<20	2.05	0.033	0.21	<0.1	5.7	0.03	0.02	<5	<0.1	<0.02	8.3	2.38
2324563	Rock	0.55	0.107	3.9	6.1	0.75	160.7	0.163	<20	1.33	0.036	0.41	<0.1	1.3	0.18	0.04	<5	0.1	<0.02	5.2	1.36
2324564	Rock	0.77	0.164	21.6	7.5	0.50	292.8	0.081	<20	0.96	0.069	0.15	<0.1	4.5	<0.02	0.03	<5	0.3	<0.02	4.9	0.20
2324565	Rock	0.04	0.015	26.8	2.2	0.05	50.6	0.001	<20	0.53	0.040	0.21	<0.1	0.6	0.08	<0.02	6	<0.1	<0.02	2.2	0.90
2324566	Rock	0.48	0.013	26.5	1.9	0.05	116.5	<0.001	<20	0.51	0.040	0.25	<0.1	0.6	0.08	<0.02	<5	<0.1	0.03	2.2	1.02
2324567	Rock	0.01	0.024	8.8	6.6	<0.01	283.2	<0.001	<20	0.13	0.002	0.05	<0.1	1.0	<0.02	<0.02	8	0.1	0.05	0.4	0.21
2324568	Rock	0.26	0.214	7.5	36.0	0.20	119.0	0.020	<20	0.42	0.006	0.19	0.7	2.5	0.13	0.55	111	6.0	0.21	3.0	0.72
2324569	Rock	0.09	0.004	11.1	4.2	<0.01	61.1	0.010	<20	0.30	0.048	0.12	0.3	0.5	0.14	<0.02	<5	0.3	<0.02	4.0	1.61
2324570	Rock Pulp	1.76	0.066	16.0	52.8	0.82	47.8	0.031	<20	1.27	0.048	0.47	1.9	5.9	0.26	1.74	81	2.7	0.27	4.5	1.54
2324571	Rock	0.47	0.077	12.9	8.5	0.48	189.1	0.116	<20	0.93	0.082	0.46	<0.1	2.3	0.30	<0.02	<5	<0.1	<0.02	4.6	3.37
2324572	Rock	<0.01	0.021	3.8	7.0	<0.01	137.7	<0.001	<20	0.21	0.002	0.05	0.3	0.9	<0.02	<0.02	31	9.2	0.19	0.5	0.17
2324573	Rock	3.26	0.163	26.3	67.4	2.72	652.9	0.012	<20	2.89	0.188	0.15	<0.1	16.6	<0.02	0.03	5	<0.1	<0.02	8.9	2.04
2324574	Rock	0.01	0.079	3.6	8.9	<0.01	114.7	0.003	<20	0.14	0.003	0.13	0.3	1.2	0.04	0.11	<5	3.7	0.39	0.9	0.28
2324575	Rock	3.66	0.162	33.0	58.0	2.45	628.4	0.008	<20	2.81	0.127	0.17	<0.1	15.1	<0.02	<0.02	<5	<0.1	<0.02	10.1	1.13
2324576	Rock	2.78	0.190	26.3	38.8	2.38	124.0	0.128	<20	2.99	0.142	0.15	<0.1	11.9	<0.02	<0.02	<5	0.1	<0.02	10.4	0.64
2324577	Rock	0.92	0.068	8.8	27.3	1.35	176.6	0.126	<20	2.23	0.104	0.32	0.2	6.7	0.12	0.17	<5	<0.1	<0.02	8.1	2.74
2324578	Rock	0.53	0.056	6.5	6.9	0.36	147.8	0.107	<20	0.80	0.103	0.04	0.4	3.2	0.02	0.35	<5	0.7	0.06	3.4	1.43



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 11, 2013

Page: 2 of 2

Part: 3 of 3

# CERTIFICATE OF ANALYSIS

WHI13000329.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2324556	Rock	<0.1	0.24	0.17	3.5	0.4	<0.05	5.9	3.68	20.2	<0.02	<1	<0.1	12.6	<10	6
2324557	Rock	<0.1	0.35	0.04	5.6	0.2	<0.05	13.1	6.50	25.1	<0.02	<1	0.3	27.4	<10	<2
2324558	Rock	<0.1	0.12	<0.02	10.6	0.3	<0.05	6.2	5.81	31.5	0.02	<1	0.6	11.6	<10	<2
2324559	Rock	<0.1	0.32	0.07	7.5	3.4	<0.05	13.6	6.72	27.2	0.13	2	0.6	23.5	<10	3
2324560	Rock	<0.1	0.20	0.02	6.1	0.1	<0.05	11.5	7.99	28.2	<0.02	<1	0.3	23.6	<10	<2
2324561	Rock	<0.1	0.09	<0.02	7.9	0.3	<0.05	3.8	8.09	42.8	0.03	<1	0.3	49.2	<10	2
2324562	Rock	<0.1	0.08	<0.02	9.5	0.3	<0.05	4.2	8.60	48.5	0.02	<1	0.5	50.8	<10	<2
2324563	Rock	<0.1	0.03	0.41	23.7	0.5	<0.05	0.8	1.95	7.4	<0.02	<1	0.4	25.8	<10	<2
2324564	Rock	0.1	0.13	0.26	5.1	0.4	<0.05	1.8	7.97	44.0	<0.02	<1	0.3	7.2	<10	<2
2324565	Rock	<0.1	0.35	0.11	13.0	0.1	<0.05	10.5	5.50	49.1	<0.02	<1	0.3	9.0	<10	<2
2324566	Rock	<0.1	0.37	0.05	13.6	<0.1	<0.05	12.3	6.83	46.1	<0.02	<1	0.6	12.0	<10	<2
2324567	Rock	<0.1	<0.02	0.02	2.3	<0.1	<0.05	0.5	1.47	13.3	<0.02	<1	0.1	0.5	<10	<2
2324568	Rock	<0.1	0.03	0.18	9.9	0.3	<0.05	1.1	6.52	10.7	0.03	7	0.2	4.9	<10	2
2324569	Rock	<0.1	1.09	7.92	21.4	0.7	<0.05	17.5	26.69	33.1	<0.02	<1	1.1	25.3	<10	2
2324570	Rock Pulp	<0.1	0.10	0.03	28.0	1.7	<0.05	3.0	9.06	28.5	0.03	44	0.5	7.8	27	3
2324571	Rock	<0.1	0.07	0.37	39.7	0.5	<0.05	1.2	5.48	24.0	<0.02	<1	0.3	34.3	<10	<2
2324572	Rock	<0.1	<0.02	0.04	2.6	0.4	<0.05	0.7	2.12	6.6	<0.02	2	<0.1	0.5	<10	<2
2324573	Rock	0.1	0.05	<0.02	5.2	0.4	<0.05	4.1	12.64	57.2	0.05	<1	0.7	38.6	<10	2
2324574	Rock	<0.1	<0.02	0.03	5.9	0.2	<0.05	0.7	1.06	6.2	0.08	<1	<0.1	0.6	<10	4
2324575	Rock	0.1	0.04	<0.02	6.9	0.5	<0.05	4.1	13.33	66.8	0.05	<1	0.3	35.8	<10	<2
2324576	Rock	0.1	0.12	0.04	5.5	0.5	<0.05	4.8	13.78	57.7	0.04	<1	0.3	51.3	<10	<2
2324577	Rock	<0.1	0.23	0.06	17.8	0.5	<0.05	7.8	4.58	18.3	0.02	<1	0.3	18.7	<10	<2
2324578	Rock	0.1	0.12	0.18	1.8	1.2	<0.05	2.4	5.91	12.7	<0.02	4	0.2	4.6	<10	<2

## QUALITY CONTROL REPORT

WHI13000329.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
Pulp Duplicates																					
2324560	Rock	3.94	0.006	1.34	12.52	3.93	55.6	35	18.3	14.3	841	3.95	3.0	1.8	<0.2	5.0	57.5	0.33	3.01	<0.02	65
REP 2324560	QC			1.32	11.94	3.90	66.1	35	17.7	14.3	886	3.89	3.0	1.8	<0.2	5.3	57.0	0.31	2.96	<0.02	66
2324574	Rock	2.99	0.039	9.91	20.13	78.38	9.6	4351	4.1	0.4	54	1.81	110.1	0.6	15.7	1.6	16.3	0.15	2.55	7.14	29
REP 2324574	QC		0.038																		
Reference Materials																					
STD DS9	Standard			10.95	108.2	125.2	335.9	1857	42.1	7.3	601	2.37	25.4	2.5	96.2	5.9	60.7	2.46	3.84	6.14	39
STD OREAS45EA	Standard			1.42	710.1	15.55	32.4	277	382.3	48.9	391	24.48	8.8	1.7	56.8	10.8	3.7	0.02	0.14	0.27	328
STD OXC109	Standard		0.221																		
STD OXI96	Standard		1.831																		
STD OXL93	Standard		5.816																		
STD OXC109 Expected			0.201																		
STD OXI96 Expected			1.802																		
STD OXL93 Expected			5.841																		
STD DS9 Expected				12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40
STD OREAS45EA Expected				1.78	709	14.3	30.6	311	357	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.64	0.26	295
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank			<0.01	0.06	0.01	<0.1	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
Prep Wash																					
G1-WHI	Prep Blank		0.008	0.10	3.00	3.50	49.5	9	3.1	4.0	615	1.93	<0.1	2.3	1.3	6.4	46.6	0.03	0.02	0.10	35
G1-WHI	Prep Blank		0.005	0.08	2.49	2.93	49.3	10	2.9	4.2	596	1.77	0.1	2.3	<0.2	5.2	40.2	<0.01	<0.02	0.05	33

## QUALITY CONTROL REPORT

WHI13000329.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
Pulp Duplicates																					
2324560	Rock	0.88	0.070	12.8	22.7	1.31	424.9	0.022	<20	1.82	0.072	0.15	<0.1	6.0	0.03	<0.02	20	<0.1	<0.02	6.6	0.88
REP 2324560	QC	0.89	0.073	12.9	24.8	1.29	423.4	0.023	<20	1.81	0.072	0.15	<0.1	6.3	0.02	<0.02	10	<0.1	<0.02	6.9	0.89
2324574	Rock	0.01	0.079	3.6	8.9	<0.01	114.7	0.003	<20	0.14	0.003	0.13	0.3	1.2	0.04	0.11	<5	3.7	0.39	0.9	0.28
REP 2324574	QC																				
Reference Materials																					
STD DS9	Standard	0.70	0.087	11.3	114.3	0.63	301.1	0.102	<20	0.95	0.079	0.40	2.8	2.4	5.01	0.17	196	5.3	5.22	4.7	2.34
STD OREAS45EA	Standard	0.04	0.029	6.9	927.4	0.09	152.7	0.090	<20	3.34	0.018	0.06	<0.1	78.0	<0.02	0.03	9	0.6	0.09	12.7	0.66
STD OXC109	Standard																				
STD OXI96	Standard																				
STD OXL93	Standard																				
STD OXC109 Expected																					
STD OXI96 Expected																					
STD OXL93 Expected																					
STD DS9 Expected		0.7201	0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37
STD OREAS45EA Expected		0.032	0.029	8.19	849	0.095	148	0.106		3.32	0.027	0.053		78	0.072	0.044	340	2.09	0.11	11.7	0.77
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
Prep Wash																					
G1-WHI	Prep Blank	0.49	0.070	9.9	7.6	0.51	175.6	0.117	<20	0.91	0.070	0.48	<0.1	2.2	0.36	<0.02	6	<0.1	<0.02	4.7	3.65
G1-WHI	Prep Blank	0.41	0.074	9.4	6.3	0.49	172.3	0.112	<20	0.80	0.046	0.44	<0.1	2.4	0.32	<0.02	<5	<0.1	<0.02	4.5	3.54

## QUALITY CONTROL REPORT

WHI13000329.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates																
2324560	Rock	<0.1	0.20	0.02	6.1	0.1	<0.05	11.5	7.99	28.2	<0.02	<1	0.3	23.6	<10	<2
REP 2324560	QC	0.1	0.18	0.02	6.2	0.1	<0.05	11.0	8.31	27.1	<0.02	<1	0.3	25.2	<10	3
2324574	Rock	<0.1	<0.02	0.03	5.9	0.2	<0.05	0.7	1.06	6.2	0.08	<1	<0.1	0.6	<10	4
REP 2324574	QC															
Reference Materials																
STD DS9	Standard	<0.1	0.06	0.82	32.0	6.3	<0.05	1.8	5.31	21.2	2.33	52	5.8	25.6	112	320
STD OREAS45EA	Standard	0.2	0.61	0.06	7.2	1.0	<0.05	21.5	5.48	16.9	0.10	<1	0.6	2.7	72	115
STD OXC109	Standard															
STD OXI96	Standard															
STD OXL93	Standard															
STD OXC109 Expected																
STD OXI96 Expected																
STD OXL93 Expected																
STD DS9 Expected		0.1	0.08	0.96	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
STD OREAS45EA Expected		0.26	0.82	0.43	7.93	0.97		26.6	5.74	17.7	0.1		0.47	7.63	66	108
BLK	Blank															
BLK	Blank															
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	0.2	<0.02	<1	<0.1	<0.1	<10	<2
Prep Wash																
G1-WHI	Prep Blank	0.1	0.09	0.34	47.3	0.5	<0.05	1.2	4.62	18.9	0.04	<1	0.3	35.2	<10	<2
G1-WHI	Prep Blank	<0.1	0.06	0.32	46.0	0.4	<0.05	0.9	3.82	17.1	<0.02	<1	0.2	33.8	<10	<2



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** **Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Submitted By: Michael Buchanan and Rupa Mukherjee  
Receiving Lab: Canada-Whitehorse  
Received: September 20, 2013  
Report Date: September 24, 2013  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI13000329R.1

### CLIENT JOB INFORMATION

Project: 210800  
Shipment ID: YTG\_WLF\_2013\_018  
P.O. Number  
Number of Samples: 15

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT Store After 90 days Invoice for Storage

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

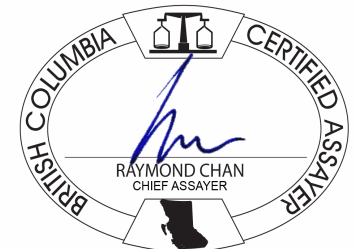
Invoice To: Teck Resources Limited  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
G601	14	Lead Collection Fire - Assay Fusion - AAS Finish	30	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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Teck Resources Limited**  
Suite 3300, 550 Burrard St.  
Vancouver BC V6C 0B3 CANADA

Project: 210800  
Report Date: September 24, 2013

Page: 2 of 2

Part: 1 of 1

## CERTIFICATE OF ANALYSIS

WHI13000329R.1

Method	G6
Analyte	Au
Unit	ppm
MDL	0.005
2324556	Rock <0.005
2324557	Rock <0.005
2324558	Rock <0.005
2324559	Rock 0.016
2324560	Rock <0.005
2324561	Rock <0.005
2324562	Rock <0.005
2324563	Rock <0.005
2324564	Rock <0.005
2324565	Rock <0.005
2324566	Rock <0.005
2324567	Rock <0.005
2324568	Rock <0.005
2324569	Rock <0.005
2324570	Rock Pulp 0.266



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Teck Resources Limited**  
 Suite 3300, 550 Burrard St.  
 Vancouver BC V6C 0B3 CANADA

Project: 210800  
 Report Date: September 24, 2013

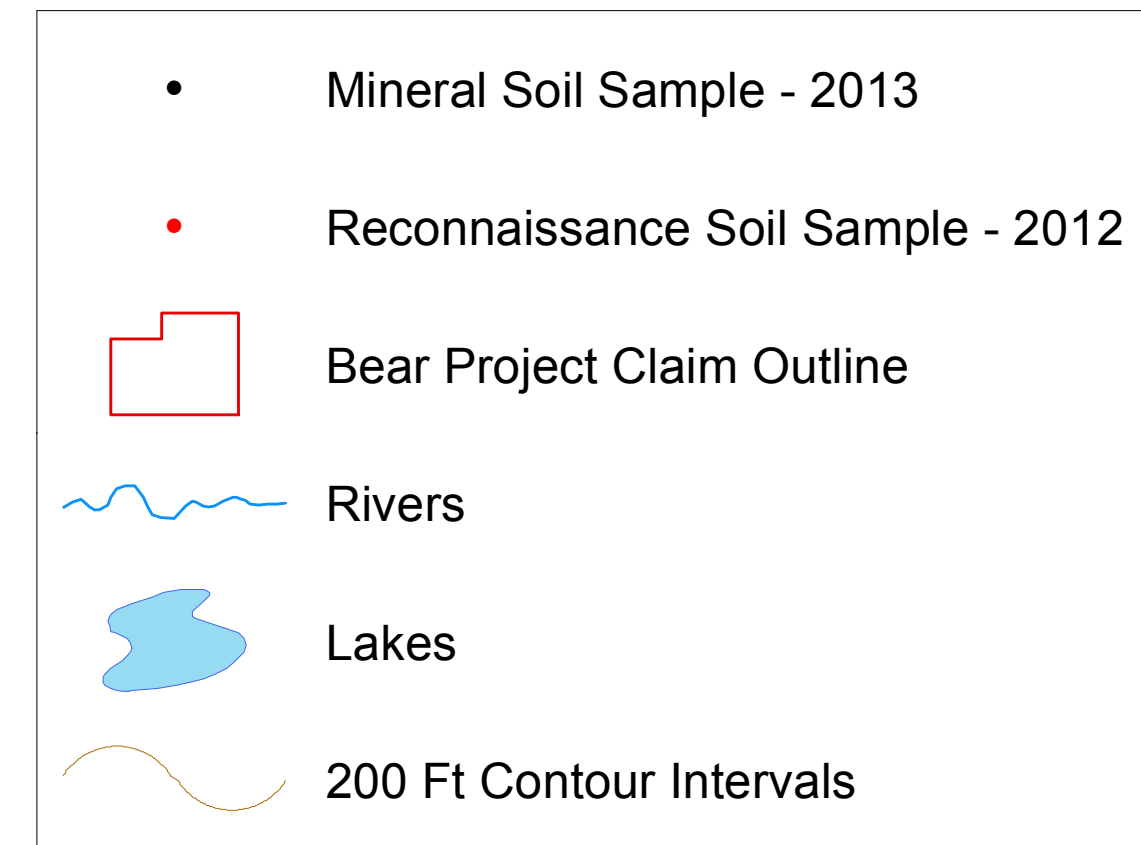
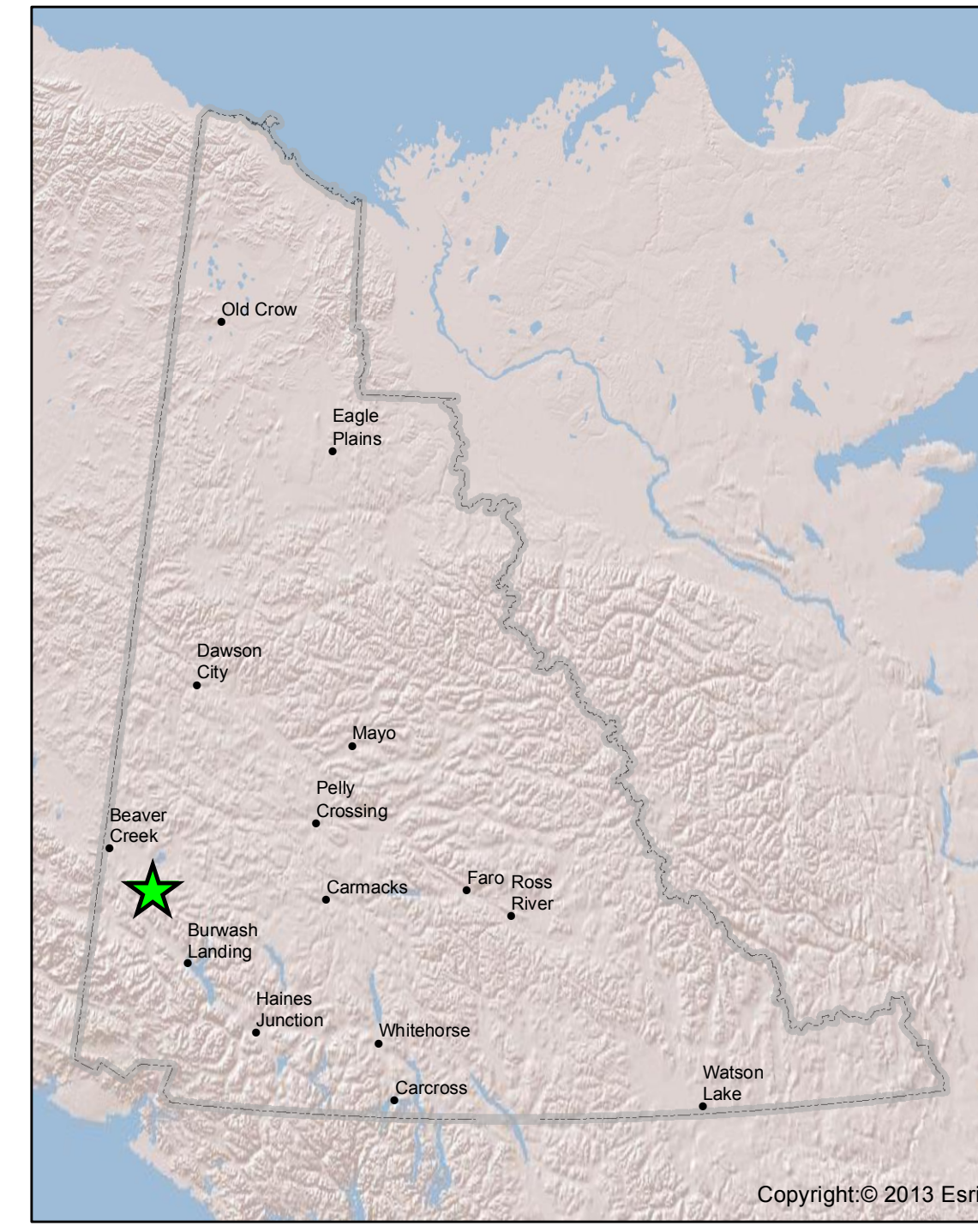
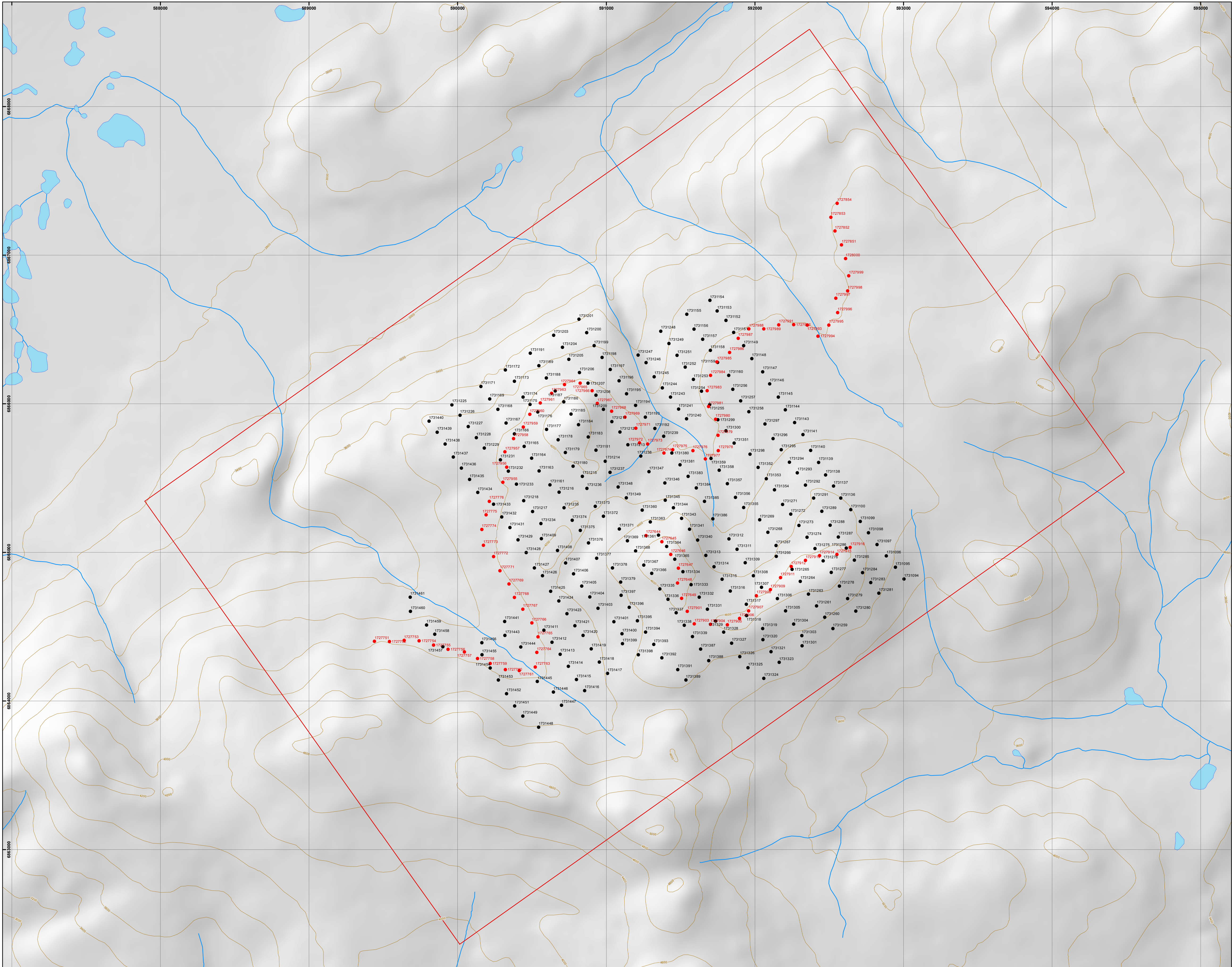
Page: 1 of 1

Part: 1 of 1

## QUALITY CONTROL REPORT

WHI13000329R.1

	Method	G6
	Analyte	Au
	Unit	ppm
	MDL	0.005
Pulp Duplicates		
2324569	Rock	<0.005
REP 2324569	QC	<0.005
2324570	Rock Pulp	0.266
REP 2324570	QC	I.S.
REP 2324570	QC	0.397
Reference Materials		
STD OXC109	Standard	0.205
STD OXI96	Standard	1.856
STD OXL93	Standard	5.879
STD OXC109 Expected		0.201
STD OXI96 Expected		1.802
STD OXL93 Expected		5.841
BLK	Blank	<0.005
BLK	Blank	<0.005



<b>Teck</b>		Suite 3300, 550 Burrard Street Vancouver, BC Canada
<b>Bear Project</b>		
Whitehorse Mining Division / Yukon Territory		
<b>Soil Sample Locations</b>		
DATUM: NAD83	PROJECTION: UTM Zone 7N	Figure: 8
DATE: Dec. 2013	DRAWN BY: A. Hansen	