# OCTOBER 2012 TECHNICAL ASSESSMENT REPORT ON THE WEST & THOMPSON PROPERTY

**Omineca Mining Division, British Columbia** 

NTS 093L/3

54 13' 00" N/127 15' 6" W

BC Geological Survey Assessment Report 34545

Event #: 5411593, 5415682

Tenure #: 782642, 782662, 782682, 782702, 782722, 782742, 782762, 782763, 782782, 782802, 782822, 782862, 782882, 782902, 782922, 787162, 787182, 787183, 787882, 856361, 1013850

### Prepared for:

Lowprofile Ventures Ltd., Houston, BC

# Prepared by:

Richard Beck, President UTM Exploration Services Ltd. Smithers, BC

November, 2012

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# 1.SUMMARY

In October/November of 2012, Lowprofile Ventures Ltd of Houston, BC contracted UTM Exploration Services Ltd of Smithers, B.C. to conduct a soil sampling program on the West & Thompson property, south of Houston, BC. The program targeted a mag high anomaly in the northern portion of the claims; an anomaly with coincident favorable lithology – Intrusive. Mr. Gary Thompson of Lowprofile spent 2 days in the snowy environment prior to the actual field work sourcing out the available access to and from the designated area.

# 2. Introduction and Terms of Reference

This report borrows/quotes heavily from Mr. Bob Lane's 2008 report on the West & Thompson property, as noted in the References section.

It is understood that this report may be required for material disclosure. The author has visited the property several times and has been involved in previous work on the project.

At the time of the site visits, the author had no investment in Lowprofile Ventures Ltd., but since that time, UTM Exploration Services Ltd. has completed more work on these properties in exchange for share options in another of Lowprofile's properties.

# 3. Property Description and Location

#### 3.1 Accessibility and Infrastructure

The West&Thompson property is located in the Omineca Mining Division and is centered approximately 63kilometressouthofSmithersand65kilometressouthwestof Houston in west-central British Columbia (Figure 1).

The property is accessible via all-season roads from the town of Houston. Directions to the property are as follows: travel west on Hwy16 from Houston for approximately 4.5 km and turn left onto the Morice River Forest Service Road (FSR). Travel on the Morice River FSR for 27km. Turn right onto the Morice West FSR and travel approximately 2 km. Turn right onto the Chisholm FSR and travel for approximately 34 km; then turn right on to the Tagit FSR for 2km to the center of the property.

Helicopter access is available via numerous charter companies based in Houston or Smithers. Smithers and Houston are each situated along Highway 16 and each community has a district population in excess of 10,000. Most services and supplies are available in these resource-based communities (Lane, 2008).

Timber harvesting is ongoing and associated road construction provides access to the area. Large areas of the claim block were logged in the 1990s. More recent logging of pine beetle-

infested trees has taken place through the 2000s and is ongoing. Mr. Gary Thompson spent a few days on the property sourcing new access trails that had been created by the ongoing logging with hopes of providing additional access information prior to the soil sampling program.

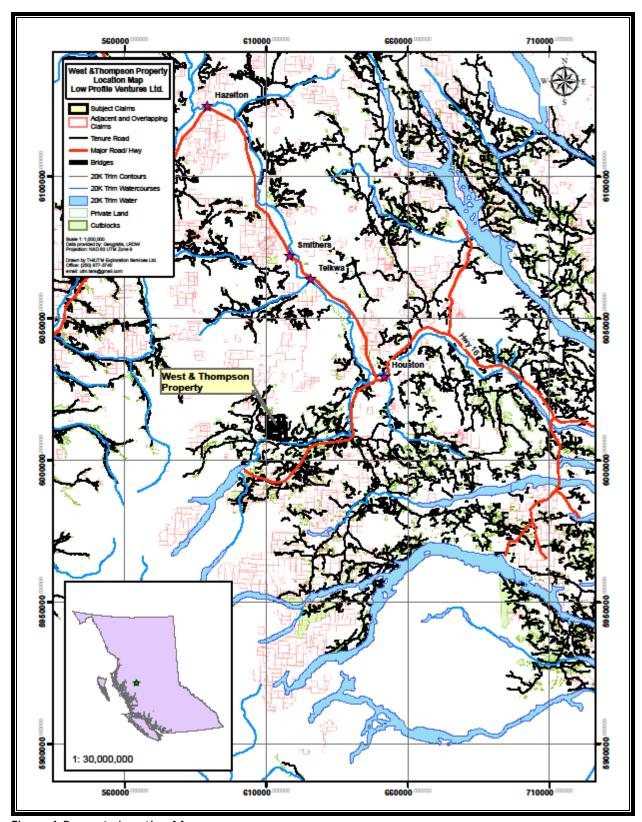


Figure 1.Property Location Map.

# 3.2 MINERAL TENURE INFORMATION

The West&Thompson property is comprised of21 contiguous mineral tenures (Figure2). The tenures cover 7936.9133 hectares of land within NTS map sheets 93L and are located between latitudes 54°11′7″ and 54°15′ 5″ North and longitudes 127°11″1″ and 127°20′3″ West. The centre of the claim block is located at 54°13′8″ North and 127°15′6″ West. All of the tenures are100%-owned by Lowprofile Ventures Limited, a private mineral exploration company based in Houston, B.C. Additional tenure information is listed in Table1. Tenure 1013850 was added prior to the work in this report was completed.

**Table 1.Mineral Tenure Information.** 

Tenure Number	Claim Name	Owner	Tenure Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
Number	Olaim Name	216293	Турс	Nullibei	133uc Date	Date	Otatus	Arca (IIa)
782642	W&T	(100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	453.2895
782662	CHISOLM	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	453.6936
782682	COPPERSTAR2	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	472.8131
782702	W&T1	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	472.1983
782722	W&T2	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	453.4883
782742	CHILSOM 2	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	340.2406
782762	COPPERSTARR2	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	378.0732
782763	W&T3	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	472.1984
782782	W&T4	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	453.5087
782802	W&T6	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	340.196
782822	COPPERSTARR2	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	472.8057
782862	COPPERSTARR2	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	453.468
782882	COPPERSTARR2	216293 (100%)	Mineral	093L	2010/may/31	2012/nov/09	GOOD	453.6479
782902	COPPERSTARR2	216293 (100%) 216293	Mineral	093L	2010/may/31	2012/nov/09	GOOD	453.8139
782922	WT6	(100%) 216293	Mineral	093L	2010/may/31	2012/nov/09	GOOD	472.1972
787162	W&T 7	(100%) 216293	Mineral	093L	2010/jun/05	2012/nov/09	GOOD	283.6822
787182	W&T 8	(100%) 216293	Mineral	093L	2010/jun/05	2012/nov/09	GOOD	283.2626
787183	W&T 9 WEST &	(100%) 216293	Mineral	093L	2010/jun/05	2012/nov/09	GOOD	94.4117
787882	THOMPSON 16	(100%)	Mineral	093L	2010/jun/07	2012/nov/09	GOOD	151.2997
856361	W&T 10	216293 (100%)	Mineral	093L	2011/jun/06	2012/nov/09	GOOD	132.176
1013850	W&T 21	216293 (100%)	Mineral	093L	2012/oct/18	2013/oct/18	GOOD	396.4487
						Total area (ha):		7936.9133

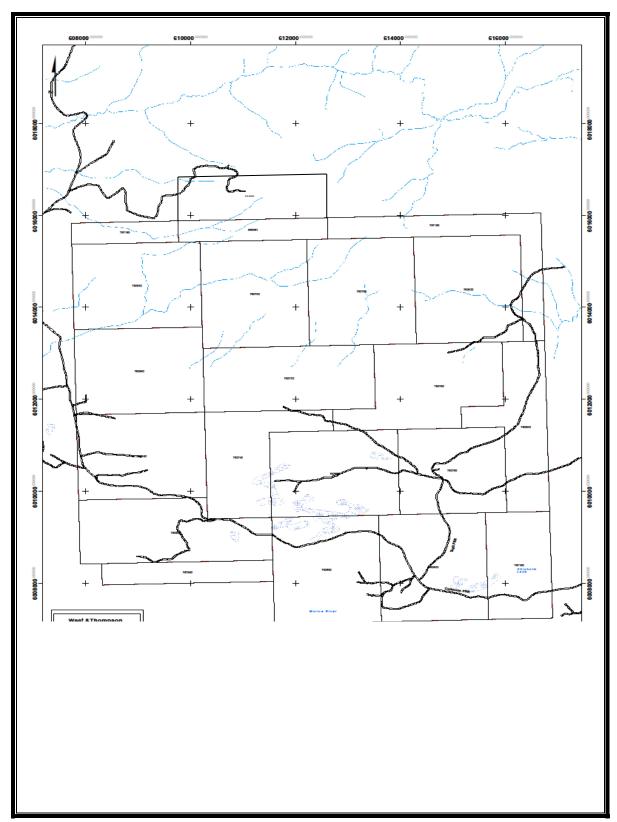


Figure 2. Mineral Tenure Map.

# 3.3 Physiography and Climate

The West & Thompson property is located near the western margin of the Nechako Plateau, the northernmost subdivision of the Interior Plateau (Holland,1976). The property is within an area of relatively subdued topography immediately north of the Morice River and south of the Telkwa Range, a southern subdivision of the Bulkley Ranges.

Elevations range from 700m above sea level in the south-eastern region to 1250m at the northern boundary. The most notable topographic feature on the property area is Chisholm Lake with an elevation of 750m.

The area is well forested by thick stands of spruce and pine with thick undergrowth consisting of alder and devil's club. Swampy terrain dominates the central portion of the property. Extensive glacial drift obscures the natural bedrock exposures which are restricted to low ridges and along the margins of some drainage.

Mineral exploration may be conducted on a year round basis. The climate is typical of the Northern Interior of British Columbia. Summer temperatures average a daytime high in the 20°C range with occasional temperatures reaching the low 30°C range. October through April sees average sub-zero temperatures with extreme lows reaching-30°C from November through March. The annual precipitation is an average of 50cm including winter snowfall (Lane, 2008).

# 4. HISTORY

The region has been explored for copper, gold, silver, molybdenum and coal but few written records remain. Prospecting in the region began in the early 1900's and was particularly active in the 1960's (Gray, 2002). Exploration in the area of the property has been conducted intermittently with the first active exploration program occurring in 1998 after local prospectors, Ed and Gerry Westgarde, discovered and staked the Chisholm Lake prospect in late summer (Table2). The prospect and/or mineral property has been referred to as: Chisholm Lake Prospect, Westgarde Copper Project, Westgarde Property and Copper Star. It is currently referred to as the West & Thompson property (Lane, 2008).

Table 2.Summary of Previous Work (Lane, 2008 plus recent).

Year	Exploration Activities (partially summarized from Gray, 2002)
1972	Concentratedgeochemicalandgeologicalexplorationonintrusive-hostedcopper mineralization by Canadian Superior Exploration Limited.
1998	Discovery of copper-bearing quartz monzonite stock by Ed & Gerry Westgarde. Property optioned to Imperial Metals Corporation who completed limited bedrock and float sampling and a 50-hole, 615.8-metre shallow percussion drilling program.
2000	A 60-line kilometer Induced Polarization survey completed by Lloyd Geophysics on behalf of Revelation Exploration Limited.  A total of 817 grid-based soil samples collected and analyzed by Gibraltar Mines
	Limited through an agreement with Revelation.
2001	A nine-hole, 1581.5-metre diamond drilling program completed by Doublestar Resources Limited as part of earn-in agreement with Revelation and the Westgardes.
2004	One 45.7 metre diamond drill hole completed by the Westgardes.
2008	Geological mapping and sampling program completed by Allnorth Consultants Ltd. for Lowprofile Ventures Ltd. of Houston, BC
2012	A total of 79 sol samples and 8 silt samples were taken on the property by Prospector Dwayne Lund and Lowprofile owner Gary Thompson.

# 5. GEOLOGICAL SETTING

#### 5.1 REGIONAL SETTING

The West & Thompson property is located within the Intermontane Tectonic Belt, a partly collisional tectonic belt comprised of a series of accreted terranes. The largest of these terranes is Stikinia, which underlies a large portion of central British Columbia (Figure 3).

Stikinia consists of a series of Jurassic, Cretaceous and Tertiary magmatic arcs and successor basins which unconformably overlie Permian sedimentary basement rocks (Wojdak, 1998, asper Macintyre et al., 1989). In the area of the West & Thompson property, Stikinia consists of the Upper Triassic Takla Group, the Lower to Middle Jurassic Hazleton Group and the Lower Jurassic to Upper Cretaceous Bowser Lake Group.

The Upper Triassic Takla Group consists of submarine calc-alkaline island-arc volcanic and sedimentary rocks. The Lower to Middle Jurassic Hazleton Group is comprised of subaerial to submarine calc-alkaline island-arc volcanic and sedimentary rocks. The Lower Jurassic to Upper Cretaceous Bowser Lake Group contains siliciclastic basinal sedimentary rocks (Wojdak,1998).

The Hazleton Group is further divided into the Telkwa, Nilkitkwa and Smithers formations. The Telkwa Formation is the oldest and most extensive of the three. It is comprised of green and maroon, submarine and subaerial pyroclastic deposits and lava flows that are andesitic to rhyolitic in composition. The Telkwa Formation is Sinemurian to Pleinsbachian in age and is separated into 4 mappable units within the Babine and Telkwa ranges (Wojdak, 1998 asper Macintyre et al., 1989):

- Upper siliceous pyroclastic facies; quartz-feldspar-phyric ash flows, breccia, air-fall tuff and minor flows composed of basalt and rhyolite
- Basalt flow and red tuff facies; amygdaloidal, augite-phyric basalt, basal tuff, red tuff and epiclastic rocks
- Andesite pyroclastic facies; thick-bedded, feldspar-phyric andesite breccia, tuff and flows
- Basal conglomerate

The Telkwa Formation, within the Babine range area, is conformably overlain by marine sedimentary and submarine volcanics of Pleinsbachian to Lower To arcian Nilkitkwa Formation. Within the Telkwa Range area, the Telkwa is disconformably overlain by sub-aerial, brick-red crystal and lapilli tuff plus amygdaloidal basalt of the Eagle Peak Formation. The Nilkitkwa Formation is separated into 4 basinal units within the Dome Mountain area (Wojdak, 1998 asper Macintyre et al., 1989; from youngest to oldest):

Thin bedded argillite, chert and limestone

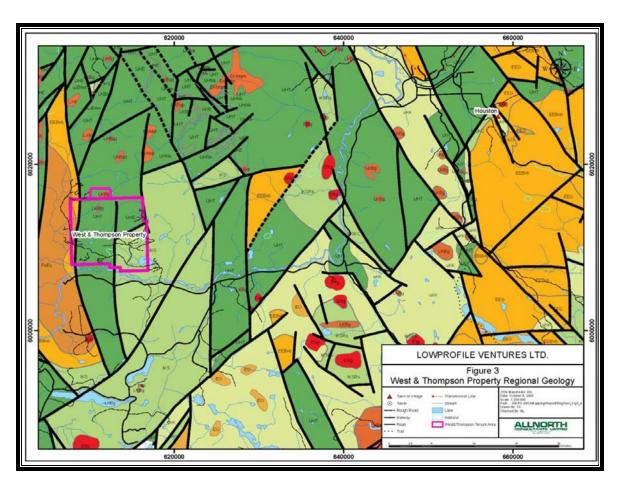
- Tuffaceous conglomerate, cherty tuff and siltstone
- Rhyolitic volcanic rocks
- Amygdaloidal andesite or basalt flow interbedded with red epiclastics

The overall regional geology of the West & Thompson property reflects a series of island-arc marine sedimentary and submarine volcanics, covered by submarine and sub-aerial pyroclastics and lava flows of intermediate composition that range in age from 228 to 65Ma (Lane, 2008).

### 5.2 LOCAL GEOLOGY

Historic exploration of the West &Thompson property indicates that the area contains very little outcrop (Robertson, 1999 and Gray, 2002). The Desjardins et al. (1990) 1:50000 scale map of this area, Map Sheet 93L/3, also suggests that there is a lack of exposure bedrock in the area (Lane, 2008).

The main lithological units present within this area consist of volcanic flows and tuffs of the Lower Jurassic Telkwa Formation and sandstones, shales and siltstones of the Lower Cretaceous Skeena Group (Desjardins et al., 1990). The northern portion of the property is bounded by plugs of the Early Jurassic Topley Suite (Robertson, 1999). A granodiorite (Gray, 2002) to quartz monzonite (Robertson, 1999; Carter, 2001) stock largely covers the central portion of the property. This stock is thought to resemble members of the Bulkley Intrusive Suite; a suite which includes regionally intrusive rocks commonly found associated with mineral showings (Lane, 2008).



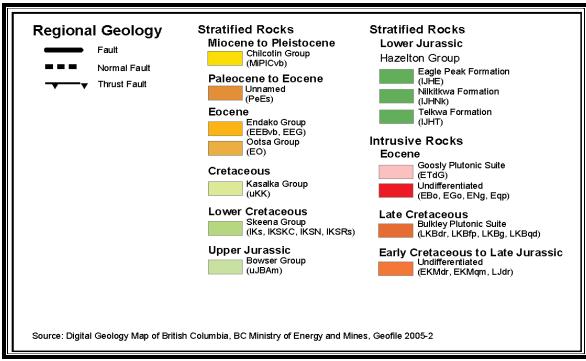


Figure 3. Regional Geology Map, from Lane, 2008.

### 5.3 MINERALIZATION AND ALTERATION

The West & Thompson tenure lies within an area of very little outcrop. Work on the property in 1998, however, revealed a previously unmapped "quartz monzonite" stock which is very similar to the Bulkley intrusive suite (Robertson, 1999). This stock is associated with the two mineral showings that were exposed by logging road construction in the centre of the property.

The 'Discovery' showing is exposed in a road cut but potential extensions of the zone are covered by overburden. A shallow percussion drilling program conducted by Imperial Metals in 1998 traced the intrusion for more than one kilometer in an east-west direction (Robertson, 1999). Alteration of the volcanics west of the intrusive is moderate hornfels with patchy sericite-clay alteration and up to 5% pyrite. The intrusive rocks appear fresh with minor degradation of feldspar minerals to clay in both the mineralized and non-mineralized areas. Copper and copper/molybdenum is present as disseminated and fracture-related sulphides within the host stock. Molybdenite is observed as fracture- related mineralization (Robertson, 1999).

The nearby 'Road' showing is exposed in a borrow pit that has been partially cleared of debris to further expose the mineralization. Immediately west is an exposure of propylitically-altered and mineralized granodiorite. Three main styles of sulphide mineralization have been reported: finely disseminated chalcopyrite and bornite within and proximal to mafic minerals (biotite and hornblende) and primarily associated with the granodiorite intrusion; chalcopyrite and/or molybdenite-healed fractures and narrow veinlets proximal to porphyritic dyke-volcanic contacts, and; locally disseminated and massive chalcopyrite/bornite/chalcocite veinlets within silicified and hornfelsed volcanics (Gray, 2002; L'Orsa, 2005). Results from drilling a chargeability anomaly near the Road showing included a 122.88 metre interval in hole CS-07 that averaged 0.26% Cu (Gray, 2002) (Lane, 2008).

# 6. EXPLORATION

### 6.1 Property Soil Sampling

Between October 18<sup>th</sup> and November 8<sup>th</sup> 2012, UTM Exploration Services conducted a 47 station soil sampling program in the northern portion of the W & T claims. Prior to the program being initiated, Mr. Gary Thompson of Lowprofile conducted an area access property visit in efforts of conveying additional access information to the UTM crew prior to mobilizing to site. Active logging in the area during the time of the soil sampling program allowed closer mobilization access as well as an area to set up a camp on site. Two areas were soil sampled where possible (see Appendix III) given the varying terrain conditions, the amount of walking incurred each day and the snow conditions during the program, which saw up to 4 inches of snow on the ground at the time of the sampling.

Initial set-up began on the 18<sup>th</sup>, however, due to weather conditions process was hampered and slowed

Forty-Seven (47) soil samples were taken between 40-70cm into the B-horizon, along 4 separate north south lines each with line spacing and sample spacing at 100m. Samples were bagged in brown Kraft paper soil sampling bags, labeled with a unique sample number, and sealed. Duplicates were not taken at on this property.

Soil Sample Spreadsheet can be found in Appendix IV.

#### 6.2 SOIL GEOCHEMISTRY

See Appendix IV for google earth based maps showing Cu ppm, as well as soil sample locations.

# 7. SAMPLING

## 7.1 SAMPLING METHOD AND APPROACH

See Sections 6.1 and 6.2 for details of on-site sampling method. After sample collection, sample bags were stored by UTM Exploration Services until they were delivered to the ACME Prep Lab in Smithers, BC. Richard Beck then submitted the samples to the ACME lab and filled out all the appropriate paperwork.

# 7.2 Sample Preparation, Analyses, and Security

ACME dried all of the samples at 60C and then dry seived 100g of each sample to -80 mesh. Aqua Regia digestion and ICP-MS analysis was requested, along with appropriate tests for overlimits.

Lab methodology is described in Appendix II.

#### 7.3 DATA VERIFICATION

No standards or blanks were submitted although the labs run their own tests regularly.

## 7.4 RESULTS

All assay results may be found in Appendix I.

# 8. Interpretation and Conclusions

The samples taken during the 2012 fall exploration program targeted the northern magnetic anomaly. This anomaly appears coincident with the regionally mapped Late Cretaceous intrusive rocks. It is the Intrusives discovered in the road and discovery showings in the central portion of the property that have historically exhibited elevated mineralization and accompanying copper values, so targeting the northern bodies of regionally mapped intrusive rocks seemed fitting in efforts to expand the known size of corridor of mineralization. Regional airborne geophysics, from the Quest West survey in 2008, outlines a north-south magnetic anomaly that is coincident

with the existing Road showing. This magnetic anomaly is coincident with the local geology of the area that has confirmed altered and mineralized intrusives along the road cut, however, when you examine the BCGS regional map of the area (see figure 3) there is no indication of there being any mapped intrusives, though we know today that this is not the case as the Discovery and the Road showings both encountered mineralized altered intrusive rocks. In 2000, an IP survey was performed over the West and Thompson claims of today, and the chargeability anomalies that were identified as the strongest and most promising for potential continued mineralization are coincident with both the local geology and the magnetic survey.

The soil samples taken during the summer of 2012 exhibit a north-south preferred copper soil anomaly immediately east of the main road showing discovered in 1998. The soil samples taken during the late of 2012, during this program, were comprised of 2 sets of north south lines separated by almost 1km distance, so contouring of any possible copper mineralization was made difficult and inconclusive. Making any assumption of anomalous outlines with this data taken in the north is "arm waving" at best.

# 9. RECOMMENDATIONS

Based upon the historical work performed on the mineral claim area, in particular the 1998, 2000, 2001 and 2012 summer exploration years the following is recommended for the West and Thompson Property:

- An airborne geophysical survey of the entire property is recommended
- An extensive and detailed (50m sample spacing and 50m line spacing) geochemical soil survey over the main showings and existing coincident IP anomalies and magnetic anomalies
- Where outcroppings exhibit altered and mineralized rock, a small trench program is recommended to uncover the extent of the altered and mineralized rock and to better delineate drill targets
- A 5000-10000 meter 20-30 hole, NQ drill program covering the known anomalous regions. This drill program is to be adjusted accordingly based upon the results of the soil sampling survey and the subsequent interpretation.
- Return to the northern claims and continue soil sampling over top of the magnetic anomaly, covering it in its entirety.
- Mapping of the area in the north where it is recommended to continue soil sampling
  with great focus on the eastern boundary of the regionally mapped northernmost
  intrusive and its coincident boundary of the mag high anomaly. Focus is recommended
  here to observe possible structural features that be present running north south and
  present a possible continuation of the north south mineralized rocks on the road
  showing.

# 10. Statement of Costs

Lowprofile Cost Statement					
Soil Sampling Program					
W&T Property					
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal	
Richard Alexander	Oct 18-29	12	\$450.00	\$5,400.00	
Howard Inkster	Oct 18-29	12	\$450.00	\$5,400.00	
Gary Thompson	Oct 15-16	2	\$450.00	\$900.00	
			\$0.00	\$0.00	
				\$11,700.00	\$11,700.00
Office Studies	List Personnel (note - Office only, do not include field days				
		Hours	Rate	Subtotal	
Map/field preparation- pre field	Richard Beck (October 15-17)	18.0	\$55.00	\$990.00	
Field/yard preparation- pre field	Richard Alexander (October 17)	8.0	\$55.00	\$440.00	
Field/yard preparation - pre field	Howard Inkster (October 17)	8.0	\$55.00	\$440.00	
Field and Yard	Richard Alexander (October 30)	6.0	\$55.00	\$330.00	
Field and Yard	Howard Inkster (October 30)	6.0	\$55.00	\$330.00	
Field and Yard	Richard Beck (November 2)	4.0	\$55.00	\$220.00	
Report preparation	R.Beck			\$6,380.00	
				\$9,130.00	\$9,130.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
D. III (			40.55	40.00	
Drill (cuttings, core, etc.)			\$0.00	\$0.00	
Stream sediment		47.6	\$0.00	\$0.00	
Soil		47.0	\$23.06	\$1,083.82	
Rock			\$0.00	\$0.00	
Water			\$0.00	\$0.00	
Biogeochemistry Whole rock			\$0.00	\$0.00 \$0.00	
Whole rock			\$0.00 \$0.00	\$0.00	
Petrology Other (specify)	freight and shipping		\$0.00	\$0.00	
Other (specify)	ireigitt and sillpping		φυ.υυ	\$1,083.82	\$1,083.82
Transportation		No.	Rate	Subtotal	ψ1,003.0Z
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Airfare			\$0.00	\$0.00	
Taxi			\$0.00	\$0.00	
truck rental		14.00	\$100.00	\$1,400.00	
kilometers		786.00	\$0.75	\$589.50	
ATV			\$0.00	\$0.00	
fuel	generator gas	25.00	\$1.23	\$30.75	
Helicopter (hours)			\$0.00	\$0.00	
Fuel (litres/hour)			\$0.00	\$0.00	
Other					
				\$2,020.25	\$2,020.25
Accommodation & Food	Rates per day	No.	Rate	Subtotal	
Hotel			\$0.00	\$0.00	
Camp	2 person camper trailer	11.00	\$250.00	\$2,750.00	
Meals	\$65/day per person	11.00	\$130.00	\$1,430.00	
				\$4,180.00	\$4,180.00
Miscellaneous					
Propane		11.00	\$20.00	\$220.00	
Field supplies (consumables)	soil bags/tags/sample tags/markers			\$125.00	
	batteries, etc				
Other (Specify)					
				\$345.00	\$345.00
<b>Equipment Rentals</b>				\$0.00	
Satellite phone/radios		1.00	\$330.00	\$330.00	
Soil Sampling kit		11.00	\$35.00	\$385.00	
				\$715.00	\$715.00
SUB-TOTAL					\$29,174.07
Expenditures					\$27,174.07
Expenses mark-up 15%			15%	\$218.94	
Project Management			15%	\$4,376.11	
			\$0.00	\$0.00	
				\$4,595.05	\$4,595.05
TOTAL Expenditures	w/o taxes				\$33,769.12

# 11. REFERENCES

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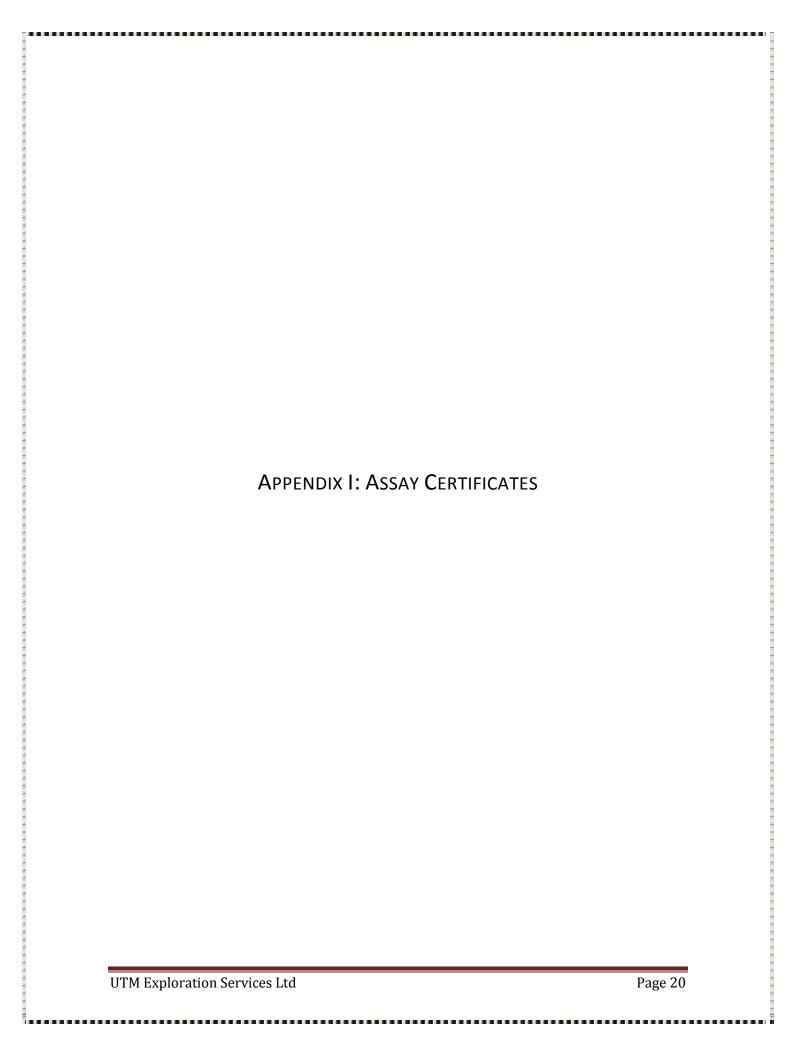
# 12. STATEMENT OF QUALIFICATIONS

I, Richard Beck, residing at 4901 Slack Road, Smithers, British Columbia do hereby certify that:

- I am part owner of and currently employed as the President and Director of Exploration by:
  - o UTM Exploration Services Ltd, 3176 Tatlow Road, Smithers, B.C.
- I attended Dalhousie University from 1985-1989, specializing in Geology;
- Between 1987-1990, 1996 to present I have been continuously employed as a junior geologist/project geologist/project manager/senior exploration geologist in the mineral exploration sector;
- Though I have visited the W&T property in the past on various occasions, I did not visit
  the property during this time period; however, I did supervise and oversee the data
  herein.

Dated at Smithers, British Columbia, this 21st day of February 2014

Richard Beck





UTM Exploration Services Ltd. 104-1165 Main Street

Box 5037 Smithers BC V0J 2N0 CANADA

SMI12000531.1

Canada-Smithers November 02, 2012 Receiving Lab: Received: Report Date: November 08, 2012

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SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

# CERTIFICATE OF ANALYSIS

**CLIENT JOB INFORMATION** Shipment ID: P.O. Number Number of Samples:

Number of Code Description Samples

ADDITIONAL COMMENTS

www.acmelab.com

Method Code Dry at 60C SS80 Test Wgt (g) Dry at 60C 47 SMI Dry at 60C sieve 100g to -80 mesh 1DX2 47 1:1:1 Aqua Regia digestion ICP-MS analysis VAN

SAMPLE DISPOSAL

RTRN-PLP

DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90

UTM Exploration Services Ltd. 104-1165 Main Street Invoice To:

Smithers BC V0J 2N0 CANADA

CC:



UTM Exploration Services Ltd. 104-1165 Main Street Box 5037 Smithers BC V0J 2N0 CANADA

W & T November 08, 2012

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CERTIFICAT	E OF AN	IALY	'SIS													SN	/II12	2000	531.	.1	
	Method	1DX15																			
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	v	Ca	P	La
	Unit	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	96	%	ppm							
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
301	Soil	0.6	20.1	6.9	97	0.1	15.8	9.2	536	3.82	11.4	1.7	0.5	10	0.2	0.4	<0.1	85	0.18	0.121	4
302	Soil	0.9	22.7	6.5	92	0.4	18.5	10.8	751	4.01	17.9	0.9	0.2	12	0.2	0.3	<0.1	79	0.24	0.048	5
303	Soil	1.5	18.5	7.3	77	0.1	14.6	10.6	888	3.37	8.9	1.9	0.5	28	0.2	0.3	<0.1	89	0.52	0.044	9
304	Soil	1.0	26.0	6.9	93	0.2	15.6	8.7	496	4.69	17.7	1.2	0.5	10	0.3	0.4	<0.1	87	0.18	0.089	4
305	Soil	0.6	13.4	4.9	88	0.2	8.4	7.2	910	4.25	9.1	8.0	0.3	12	0.2	0.3	<0.1	61	0.34	0.097	4
306	Soil	0.4	8.1	5.8	43	<0.1	9.0	4.2	325	2.15	8.6	0.7	<0.1	8	<0.1	0.2	<0.1	65	0.10	0.043	3
307	Soil	0.5	16.8	6.9	52	0.2	19.7	7.9	476	4.36	7.8	1.0	0.1	19	0.3	0.2	0.1	104	0.28	0.063	4
308	Soil	0.4	12.8	7.8	72	0.1	15.1	7.1	526	4.78	6.7	<0.5	0.5	10	<0.1	0.3	0.1	93	0.16	0.139	4
309	Soil	0.7	42.7	7.3	55	<0.1	18.0	8.0	375	3.29	7.8	<0.5	1.8	9	0.1	0.4	<0.1	74	0.11	0.035	10
310	Soil	0.5	17.4	6.9	93	<0.1	16.1	8.8	700	4.16	9.9	<0.5	0.3	11	0.2	0.3	<0.1	81	0.19	0.096	3
311	Soil	0.6	29.3	8.2	115	0.1	28.6	13.2	668	4.83	11.3	<0.5	0.9	13	0.2	0.3	<0.1	89	0.21	0.098	4
312	Soil	0.6	20.0	6.9	109	0.1	23.5	11.3	670	4.33	9.3	<0.5	0.7	18	0.1	0.3	<0.1	96	0.30	0.040	5
313	Soil	0.6	14.9	15.7	100	0.2	12.8	7.8	557	3.85	8.4	<0.5	0.8	11	0.2	0.3	0.1	68	0.25	0.053	6
314	Soil	0.5	25.4	6.2	88	0.3	29.4	12.4	528	4.62	15.5	0.6	0.3	21	0.2	0.2	<0.1	96	0.40	0.082	5
315	Soil	0.5	23.1	6.1	73	0.1	28.2	12.0	458	4.23	11.4	<0.5	1.0	16	0.1	0.3	<0.1	95	0.24	0.043	4
316	Soil	0.8	18.7	6.4	101	0.1	22.3	9.7	472	4.14	13.1	<0.5	0.9	12	0.1	0.4	<0.1	86	0.15	0.122	4
317	Soil	0.3	23.8	6.0	82	⊲0.1	23.8	11.2	703	3.62	8.7	<0.5	0.9	26	0.2	0.2	<0.1	96	0.56	0.028	9
318	Soil	0.4	12.8	5.9	94	0.2	18.5	7.5	518	3.93	6.3	0.7	0.6	12	0.2	0.2	<0.1	77	0.17	0.157	4
319	Soil	0.5	29.1	6.5	93	0.1	28.2	12.5	935	3.99	10.7	0.7	0.7	31	0.1	0.3	<0.1	97	0.56	0.074	8
320	Soil	0.5	15.1	9.3	131	0.2	16.2	13.2	3615	4.52	7.8	<0.5	0.4	16	0.3	0.3	0.1	104	0.52	0.103	10
321	Soil	0.4	15.3	6.9	93	⊲0.1	13.4	9.4	828	3.68	9.0	0.5	0.7	31	0.2	0.3	<0.1	101	0.61	0.033	5
322	Soil	0.7	16.3	6.9	61	0.2	9.9	6.3	318	3.34	6.0	0.6	0.4	21	0.2	0.3	<0.1	87	0.31	0.028	5
323	Soil	0.6	12.0	6.1	69	0.1	8.9	6.0	584	3.69	8.3	0.7	0.2	8	0.1	0.4	<0.1	80	0.13	0.227	3
324	Soil	0.4	16.7	4.0	76	<0.1	48.8	21.6	1219	4.36	7.5	<0.5	0.2	68	0.1	0.2	<0.1	131	1.38	0.071	3
325	Soil	0.7	28.9	6.3	83	0.2	19.3	11.4	557	4.30	12.0	0.6	0.8	15	0.9	0.4	<0.1	92	0.25	0.069	4
326	Soil	0.7	14.7	7.7	73	0.5	10.0	6.5	783	4.18	11.7	1.6	0.2	13	0.3	0.4	0.1	96	0.25	0.095	3
327	Soil	0.8	29.2	6.0	83	0.1	16.7	8.6	421	3.62	11.5	4.6	0.3	11	0.2	0.4	<0.1	84	0.14	0.035	6
328	Soil	0.8	14.5	6.2	89	0.1	13.8	7.6	431	4.53	12.0	<0.5	0.7	8	0.2	0.4	<0.1	100	0.14	0.109	3
329	Soil	0.6	31.4	7.3	100	0.1	27.1	13.3	868	4.54	13.9	<0.5	0.7	19	0.2	0.4	<0.1	101	0.30	0.040	6
330	Soil	0.8	15.6	7.0	89	0.2	14.5	8.8	778	3.46	5.5	1.0	0.2	23	0.2	0.2	<0.1	90	0.41	0.030	5



UTM Exploration Services Ltd. 104-1165 Main Street Box 5037 Smithers BC VOJ 2NO CANADA

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

Project: Report Date: W & T November 08, 2012

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		SMI12000531.1	

CERTIFICATE (	AN AC	VALY	'SIS													SN	ЛI12
	Method	1DX15															
	Analyte	Cr	Mg	Ba	Ti	В	AI	Na	K	w	Hg	Sc	TI	s	Ga	Se	Te
	Unit	ppm	96	ppm	%	ppm	96	%	96	ppm	ppm	ppm	ppm	96	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
301 Soil		23	0.58	76	0.047	3	2.82	0.011	0.04	<0.1	0.06	6.2	<0.1	<0.05	7	<0.5	<0.2
302 Soil	1	27	0.83	89	0.041	3	2.75	0.012	0.06	<0.1	0.07	6.3	<0.1	<0.05	9	<0.5	<0.2
303 Soil	1	25	0.71	107	0.073	2	1.68	0.018	0.05	<0.1	0.03	9.8	<0.1	<0.05	6	<0.5	<0.2
304 Soil	1	26	0.62	71	0.049	2	3.01	0.009	0.05	0.1	0.07	6.6	<0.1	<0.05	7	<0.5	<0.2
305 Soil		15	0.52	74	0.153	2	2.15	0.009	0.04	0.1	0.06	6.6	<0.1	<0.05	11	<0.5	<0.2
306 Soil		18	0.32	66	0.014	2	1.47	0.008	0.05	<0.1	0.04	2.5	<0.1	<0.05	8	<0.5	<0.2
307 Soil		39	0.64	86	0.057	2	2.20	0.011	0.05	<0.1	0.06	4.7	<0.1	<0.05	12	<0.5	<0.2
308 Soil		38	0.56	54	0.109	2	1.64	0.009	0.04	<0.1	0.06	5.8	<0.1	<0.05	12	<0.5	<0.2
309 Soil	l	28	0.68	84	0.052	2	3.02	0.013	0.06	0.1	0.04	9.3	0.1	<0.05	9	<0.5	<0.2
310 Soil	l	26	0.60	106	0.047	2	2.10	0.009	0.05	<0.1	0.11	5.4	<0.1	<0.05	8	<0.5	<0.2
311 Soil	l	33	0.92	126	0.055	3	3.62	0.008	0.07	<0.1	0.07	8.5	<0.1	<0.05	9	<0.5	<0.2
312 Soil	l	32	0.80	118	0.071	2	2.86	0.011	0.06	0.1	0.05	7.9	<0.1	<0.05	9	<0.5	<0.2
313 Soil		20	0.41	213	0.010	1	2.26	0.008	0.07	0.1	0.04	7.8	<0.1	<0.05	7	<0.5	<0.2
314 Soil		35	0.86	189	0.071	3	3.79	0.010	0.06	<0.1	0.06	7.5	<0.1	<0.05	9	<0.5	<0.2
315 Soil		38	0.72	117	0.098	2	3.33	0.011	0.05	0.1	0.03	7.7	<0.1	<0.05	8	<0.5	<0.2
316 Soil		32	0.65	84	0.051	2	2.80	0.009	0.05	0.1	0.04	5.9	<0.1	<0.05	7	<0.5	<0.2
317 Soil		32	0.77	157	0.047	2	2.10	0.011	0.05	<0.1	0.03	9.2	<0.1	<0.05	7	<0.5	<0.2
318 Soil		28	0.53	84	0.051	2	2.18	0.009	0.05	<0.1	0.05	4.9	<0.1	<0.05	9	<0.5	<0.2
319 Soil		34	0.95	143	0.064	2	3.07	0.015	0.07	<0.1	0.04	9.5	<0.1	<0.05	8	<0.5	<0.2
320 Soil		29	0.53	181	0.015	1	2.39	0.014	0.09	<0.1	0.08	8.7	<0.1	<0.05	9	<0.5	<0.2
321 Soil		23	0.74	72	0.088	2	1.82	0.022	0.04	<0.1	0.03	8.2	<0.1	<0.05	6	<0.5	<0.2
322 Soil		20	0.45	84	0.056	1	1.95	0.011	0.03	<0.1	0.04	6.5	<0.1	<0.05	8	<0.5	<0.2
323 Soil		19	0.42	47	0.047	1	1.45	0.007	0.05	0.1	0.04	4.2	<0.1	<0.05	8	<0.5	<0.2
324 Soil		50	2.06	51	0.108	2	3.78	0.008	0.05	<0.1	0.03	7.6	<0.1	<0.05	10	<0.5	<0.2
325 Soil		26	0.74	93	0.080	2	2.92	0.008	0.06	<0.1	0.05	7.5	<0.1	<0.05	7	<0.5	<0.2
326 Soil		20	0.48	72	0.055	2	1.66	0.006	0.05	<0.1	0.05	4.4	<0.1	<0.05	9	<0.5	<0.2
327 Soil		28	0.67	101	0.039	2	2.81	0.009	0.03	<0.1	0.07	8.1	<0.1	<0.05	8	<0.5	<0.2
328 Soil		27	0.54	55	0.058	1	2.43	0.007	0.03	0.1	0.07	5.1	<0.1	<0.05	9	<0.5	<0.2
329 Soil		37	0.99	130	0.045	2	2.79	0.017	0.06	<0.1	0.04	9.3	<0.1	<0.05	8	<0.5	<0.2
330 Soil		26	0.63	107	0.047	1	2.05	0.013	0.04	<0.1	0.04	6.0	<0.1	<0.05	9	<0.5	<0.2



UTM Exploration Services Ltd. 104-1165 Main Street Box 5037 Smithers BC VOJ 2NO CANADA Client:

W & T November 08, 2012

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CERTIFIC	CATE O	F AN	IALY	'SIS													SN	/II12	000	531.	1	
		Method	1DX15																			
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	v	Ca	P	La
		Unit	ppm	96	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	96	96	ppm							
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	- 1	0.1	0.1	0.1	2	0.01	0.001	1
331	Soil		0.5	35.8	7.2	95	0.2	17.1	12.6	847	4.58	8.6	0.7	0.4	32	0.1	0.3	<0.1	114	0.57	0.041	9
332	Soil		0.6	14.1	6.7	74	<0.1	8.3	6.9	384	4.61	5.3	1.0	0.7	10	<0.1	0.3	<0.1	95	0.14	0.136	3
333	Soil		1.0	19.2	8.5	105	0.1	16.0	11.7	719	4.37	12.8	<0.5	0.3	22	0.2	0.4	<0.1	107	0.57	0.047	4
334	Soil		1.0	54.8	7.7	86	0.6	12.5	10.9	1182	4.63	14.7	<0.5	0.2	27	0.3	0.3	0.1	110	0.59	0.061	14
335	Soil		0.6	13.8	7.2	80	<0.1	11.9	8.1	411	4.32	7.0	<0.5	0.7	11	0.2	0.3	<0.1	90	0.18	0.073	4
336	Soil		0.9	11.6	7.0	109	0.1	10.7	7.6	354	4.80	10.6	<0.5	0.6	9	0.1	0.3	0.1	91	0.14	0.147	3
337	Soil		1.5	21.3	7.6	107	0.1	16.1	11.0	911	4.22	23.3	9.2	0.2	26	0.2	0.4	0.1	105	0.46	0.057	4
338	Soil		0.6	25.8	7.0	131	0.2	23.8	13.4	778	4.57	9.2	6.6	0.3	19	0.7	0.3	0.1	97	0.33	0.141	4
339	Soil		1.5	41.4	8.4	147	0.4	21.7	13.9	2929	4.06	19.4	<0.5	0.3	44	0.6	0.3	0.3	100	0.87	0.142	13
340	Soil		0.7	11.1	6.7	55	<0.1	7.4	5.3	313	3.57	8.9	2.6	0.4	10	0.1	0.2	0.1	93	0.14	0.073	4
341	Soil		1.6	42.3	8.2	123	0.3	27.2	12.1	759	3.56	12.9	2.5	0.5	65	0.4	0.4	0.2	86	0.56	0.058	16
342	Soil		1.0	26.8	9.3	65	0.2	20.2	10.6	376	4.65	25.9	1.4	0.9	19	0.4	0.5	0.1	116	0.28	0.028	8
343	Soil		0.4	24.8	8.9	98	0.1	15.3	12.5	626	4.46	10.3	30.9	0.7	22	0.3	0.4	0.1	115	0.36	0.029	6
344	Soil		1.0	26.0	7.6	93	0.3	15.5	12.6	952	3.95	40.9	<0.5	0.2	37	0.2	0.6	<0.1	105	0.80	0.070	9
345	Soil		0.6	16.2	9.0	72	0.2	7.3	6.8	402	4.79	10.2	6.0	0.5	11	0.2	0.3	0.1	110	0.21	0.290	4
346	Soil		0.6	15.2	7.8	55	0.2	6.4	5.3	292	3.77	9.7	6.9	0.4	11	0.3	0.4	0.2	99	0.13	0.098	3
347	Soil		0.8	13.9	7.4	76	<0.1	12.6	10.6	455	4.32	13.0	2.5	0.6	22	0.3	0.6	<0.1	93	0.38	0.112	3



Client: UTM Exploration Services Ltd. 104-1165 Main Street Box 5037 Smithers BC V0J 2N0 CANADA

W & T November 08, 2012

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CERTI	FICATE O	F AN	IALY	′SIS													SI	ЛI12
		Method	1DX15															
		Analyte	Cr	Mg	Ba	Ti	В	AI	Na	K	w	Hg	Sc	TI	s	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
331	Soil		28	0.88	130	0.078	2	3.23	0.023	0.06	<0.1	0.04	11.5	<0.1	<0.05	9	<0.5	<0.2
332	Soil		18	0.46	68	0.099	1	2.71	0.011	0.04	0.1	0.05	6.2	<0.1	<0.05	11	<0.5	<0.2
333	Soil		26	0.67	84	0.042	2	1.96	0.010	0.04	<0.1	0.03	6.2	<0.1	<0.05	8	<0.5	<0.2
334	Soil		27	0.49	83	0.045	2	2.53	0.010	0.04	<0.1	0.06	7.6	<0.1	<0.05	9	<0.5	<0.2
335	Soil		22	0.50	70	0.088	1	2.47	0.010	0.04	0.1	0.05	6.7	<0.1	<0.05	9	<0.5	<0.2
336	Soil		22	0.46	62	0.069	1	2.29	0.010	0.03	0.1	0.05	5.4	<0.1	<0.05	9	<0.5	<0.2
337	Soil		25	0.78	140	0.029	3	2.68	0.012	0.07	<0.1	<0.01	5.9	<0.1	<0.05	9	<0.5	<0.2
338	Soil		28	0.85	166	0.056	2	2.88	0.009	0.06	0.1	<0.01	8.1	<0.1	<0.05	9	<0.5	<0.2
339	Soil		35	0.81	228	0.018	2	3.13	0.013	0.07	0.1	0.05	8.6	0.2	<0.05	8	0.9	<0.2
340	Soil		22	0.32	49	0.054	2	1.46	0.008	0.03	<0.1	0.03	3.5	<0.1	<0.05	8	<0.5	<0.2
341	Soil		39	0.78	297	0.019	<1	2.81	0.013	0.07	<0.1	0.02	9.5	<0.1	<0.05	8	<0.5	<0.2
342	Soil		38	0.53	90	0.053	3	3.26	0.013	0.03	0.1	0.04	7.9	<0.1	<0.05	7	<0.5	<0.2
343	Soil		26	0.79	102	0.097	2	2.82	0.015	0.04	0.1	0.04	8.9	<0.1	0.07	9	<0.5	<0.2
344	Soil		26	0.67	126	0.038	<1	2.73	0.013	0.04	<0.1	0.05	6.4	0.2	<0.05	7	<0.5	<0.2
345	Soil		26	0.47	57	0.067	<1	2.26	0.009	0.03	0.1	0.04	5.4	<0.1	<0.05	10	<0.5	<0.2
346	Soil		19	0.34	54	0.057	2	1.45	0.005	0.03	<0.1	<0.01	4.5	<0.1	<0.05	8	<0.5	<0.2
347	Soil		20	0.66	87	0.098	2	2.16	0.010	0.06	0.2	0.05	7.4	<0.1	<0.05	7	<0.5	<0.2



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QUALITY C	ONTROL	REP	OR	Т												SM	11120	0005	531.	1	
	Method	1DX15	1DX15	1DX15																	
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	v	Ca	P	La
	Unit	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppn							
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
301	Soil	0.6	20.1	6.9	97	0.1	15.8	9.2	536	3.82	11.4	1.7	0.5	10	0.2	0.4	<0.1	85	0.18	0.121	4
REP 301	QC	0.6	20.1	7.1	98	0.1	16.2	9.5	553	3.96	11.7	1.0	0.5	10	0.2	0.4	<0.1	80	0.17	0.126	- 4
329	Soil	0.6	31.4	7.3	100	0.1	27.1	13.3	868	4.54	13.9	<0.5	0.7	19	0.2	0.4	<0.1	101	0.30	0.040	-
REP 329	QC	0.6	30.7	7.3	98	0.1	26.0	13.0	858	4.37	13.4	1.2	0.6	18	0.1	0.4	<0.1	102	0.31	0.040	6
337	Soil	1.5	21.3	7.6	107	0.1	16.1	11.0	911	4.22	23.3	9.2	0.2	26	0.2	0.4	0.1	105	0.46	0.057	4
REP 337	QC	0.7	22.7	8.1	107	0.1	16.8	12.0	932	4.23	24.3	8.3	0.3	28	<0.1	0.4	0.2	112	0.45	0.057	- 4
347	Soil	0.8	13.9	7.4	76	<0.1	12.6	10.6	455	4.32	13.0	2.5	0.6	22	0.3	0.6	<0.1	93	0.38	0.112	
REP 347	QC	0.8	15.3	7.6	87	<0.1	11.9	10.5	470	4.31	13.7	2.8	0.5	24	<0.1	0.3	0.1	96	0.38	0.119	- 4
Reference Materials																					
STD DS9	Standard	14.3	103.2	136.5	320	1.9	44.9	7.7	635	2.62	22.4	136.0	5.4	73	2.1	5.3	5.8	36	0.78	0.084	12
STD DS9	Standard	13.3	107.9	134.3	306	1.9	42.5	8.1	597	2.37	25.0	118.6	7.0	70	2.2	5.1	5.8	44	0.74	0.082	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<



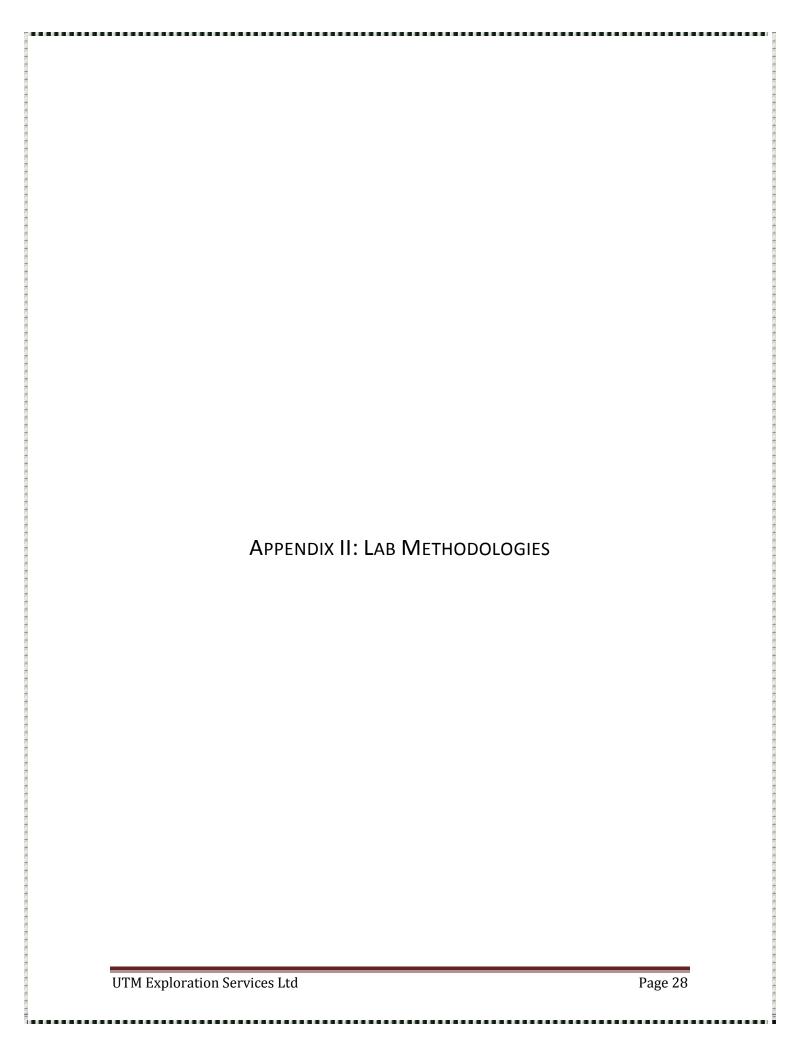
UTM Exploration Services Ltd. 104-1165 Main Street Box 5037 Smithers BC V0J 2N0 CANADA Client:

Project: W & T November 08, 2012

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

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QUALITY (	CONTROL	REF	POR	Т												SM	112
	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	В	AI	Na	K	w	Hg	Sc	TI	s	Ga	Se	Te
	Unit	ppm	%	ppm	96	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
301	Soil	23	0.58	76	0.047	3	2.82	0.011	0.04	<0.1	0.06	6.2	<0.1	<0.05	7	<0.5	<0.2
REP 301	QC	25	0.59	79	0.047	2	2.87	0.011	0.04	0.1	0.06	6.5	<0.1	<0.05	7	<0.5	<0.2
329	Soil	37	0.99	130	0.045	2	2.79	0.017	0.06	<0.1	0.04	9.3	<0.1	<0.05	8	<0.5	<0.2
REP 329	QC	36	0.96	128	0.046	2	2.72	0.014	0.06	<0.1	0.04	9.3	<0.1	<0.05	8	<0.5	<0.2
337	Soil	25	0.78	140	0.029	3	2.68	0.012	0.07	<0.1	<0.01	5.9	<0.1	<0.05	9	<0.5	<0.2
REP 337	QC	27	0.78	143	0.034	2	2.67	0.013	0.07	<0.1	0.02	6.6	<0.1	<0.05	9	<0.5	Ø.2
347	Soil	20	0.66	87	0.098	2	2.16	0.010	0.06	0.2	0.05	7.4	<0.1	<0.05	7	<0.5	<0.2
REP 347	QC	22	0.65	90	0.104	<1	2.15	0.014	0.06	<0.1	0.04	8.0	<0.1	<0.05	9	1.0	<0.2
Reference Materials																	
STD DS9	Standard	136	0.66	274	0.121	3	0.95	0.088	0.45	3.4	0.22	3.2	5.9	0.23	5	5.6	5.6
STD DS9	Standard	126	0.65	300	0.119	4	0.97	0.089	0.38	3.2	0.17	2.6	5.7	0.17	4	6.3	4.6
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2





# METHOD SPECIFICATIONS GROUP 1D AND 1F - GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes: 1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07

Sample Digestion: HNO3-HCI acid digestion
Instrumentation Method: ICP-ES (1D), ICP-MS (1DX, 1F)

Applicability: Sediment, Soil, Non-mineralized Rock and Drill Core

#### Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO3 and DI H2O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit				
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm				
AI*	0.01%	0.01%	0.01%	10%				
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm				
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm				
B*^	20 ppm	20 ppm	20 ppm	2000 ppm				
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm				
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm				
Ca*	0.01%	0.01%	0.01%	40%				
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm				
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm				
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm				
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm				
Fe*	0.01%	0.01%	0.01%	40%				
Ga*	-	1 ppm	0.1 ppm	1000 ppm				
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm				
K*	0.01%	0.01%	0.01%	10%				
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm				
Mg*	0.01%	0.01%	0.01%	30%				
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm				
Мо	1 ppm	0.1 ppm	0.01 ppm	2000 ppm				
Na*	0.01%	0.001%	0.001%	5%				
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm				
P*	0.001%	0.001%	0.001%	5%				
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm				
S	0.05%	0.05%	0.02%	10%				

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Element	Group 1D	Group 1DX	Group 1F	Upper			
	Detection	Detection	Detection	Limit			
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm			
Sc	-	0.1 ppm	0.1 ppm	100 ppm			
Se	-	0.5 ppm	0.1 ppm	100 ppm			
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm			
Te	-	0.2 ppm	0.02 ppm	1000 ppm			
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm			
Ti*	0.01%	0.001%	0.001%	5%			
TI	5 ppm	0.1 ppm	0.02 ppm	1000 ppm			
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm			
V*	1 ppm	2 ppm	2 ppm	10000 ppm			
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm			
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm			
Be*	-	-	0.1 ppm	1000 ppm			
Ce*	-	-	0.1 ppm	2000 ppm			
Cs*	-	-	0.02 ppm	2000 ppm			
Ge*	-	-	0.1 ppm	100 ppm			
Hf*	-	-	0.02 ppm	1000 ppm			
In	-	-	0.02 ppm	1000 ppm			
Li*	-	-	0.1 ppm	2000 ppm			
Nb*	-		0.02 ppm	2000 ppm			
Rb*	-	-	0.1 ppm	2000 ppm			
Re	-	-	1 ppb	1000 ppb			
Sn*	-	-	0.1 ppm	100 ppm			
Ta*	-	-	0.05 ppm	2000 ppm			
Υ*	-	-	0.01 ppm	2000 ppm			
Zr*	-	-	0.1 ppm	2000 ppm			
Pt*	-	-	2 ppb	100 ppm			
Pd*	-	-	10 ppb	100 ppm			
Pb <sub>204</sub>	-	-	0.01 ppm	10000 ppm			
Pb <sub>206</sub>	-	-	0.01 ppm	10000 ppm			
Pb <sub>207</sub>	-		0.01 ppm	10000 ppm			
Pb <sub>208</sub>	-	-	0.01 ppm	10000 ppm			

<sup>\*</sup> Solubility of some elements will be limited by mineral species present.
^Detection limit = 1 ppm for 15g / 30g analysis.

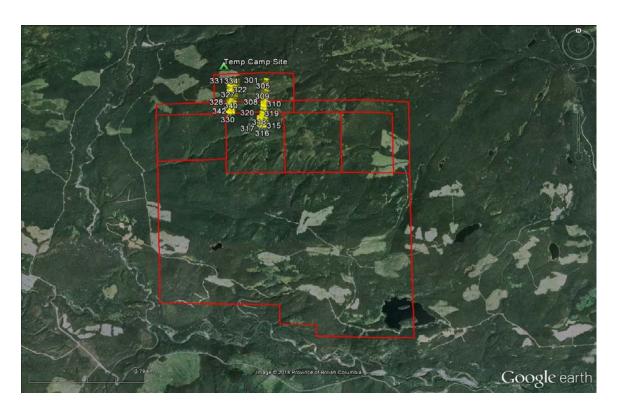
#### Limitations:

Au solubility can be limited by refractory and graphitic samples.

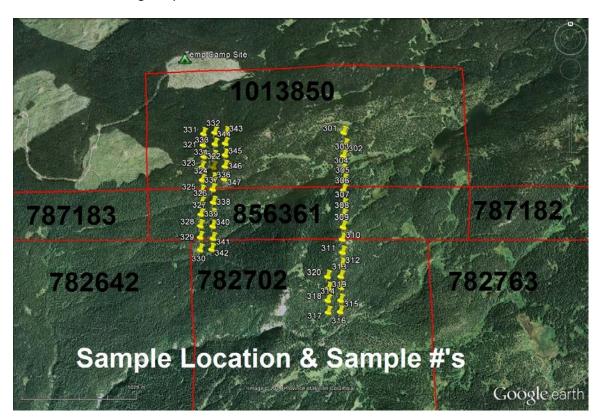
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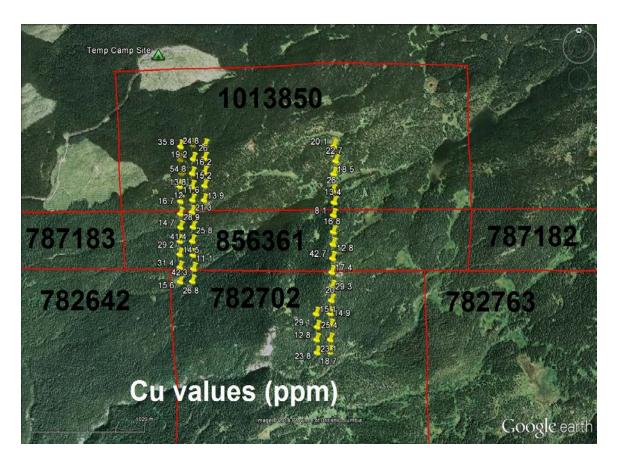
Appendix III: Google Earth Based	
GEOCHEMICAL MAPS AND SAMPLE LOCATION	NC



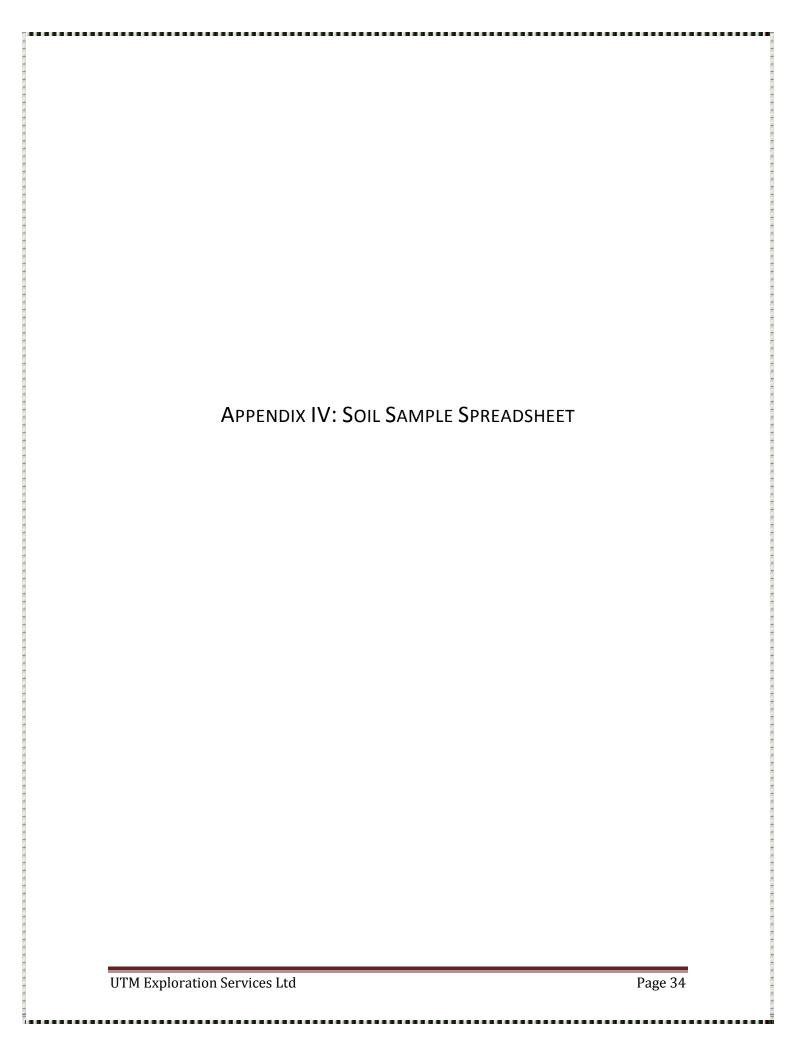
Claim outline showing sample locations in the northern claims



Sample Location and Sample #'s map



Sample Location showing Cu values in ppm.



Sample	Property		Easting	Northing	Elevation	UTM	Soil	Sample	Cample		Sample								
Date	name	Sample #	(NAD83)	(NAD83)	(m)	Zone		depth (cm)	Sample colour	Moisture	Environment	Slope	Sample Composition (pre-sieving)						Outcrop
Dute	nume		(IIADOS)	(NADOS)	()	Lonc	TIOTIZOTI	acptii (tiii)	colour		Environment		%clay	%Silt	%sand	%pebbles	%cobbles	%total	
Oct 20 2012	W&T	301	611594	6016304	1418	9	В	45	brown	dry	trees	gentle	1	1	88	5	5	100	no
Oct 20 2012	W&T	302	611610	6016200	1388	9	В	55	brown	dry	trees	gentle	1	1	88	7	3	100	no
Oct 20 2012	W&T	303	611598	6016108	1370	9	В	60	brown	moist	trees	gentle	1	1	88	5	5	100	no
Oct 20 2012	W&T	304	611593	6015988	1375	9	В	60	brown	dry	trees	moderate	1	1	93	3	2	100	no
Oct 20 2012	W&T	305	611604	6015903	1396	9	В	50	brown	dry	trees	steep	1	1	88	5	5	100	no
Oct 21 2012	W&T	306	611599	6015810	1430	9	В	60	light brown	wet	trees	gentle	5	1	89	3	2	100	no
Oct 21 2012	W&T	307	611601	6015692	1433	9	В	50	brown	wet	trees	steep	1	1	88	5	5	100	no
Oct 21 2012	W&T	308	611600	6015604	1428	9	В	55	brown	wet	trees	gentle	1	1	91	5	2	100	no
Oct 21 2012	W&T	309	611599	6015505	1441	9	В	40	light brown	wet	trees	gentle	1	1	90	4	4	100	yes
Oct 21 2012	W&T	310	611595	6015405	1427	9	В	50	brown	dry	trees	gentle	2	3	90	3	2	100	no
Oct 23 2012	W&T	311	611600	6015299	1412	9	В	65	brown	dry	trees	moderate	1	1	89	6	3	100	no
Oct 23 2012	W&T	312	611599	6015200	1381	9	В	45	brown	moist	trees	moderate	5	2	87	5	1	100	no
Oct 23 2012	W&T	313	611593	6015102	1350	9	В	55	brown	moist	trees	moderate	1	5	69	20	5	100	no
Oct 23 2012	W&T	314	611599	6015010	1324	9	В	50	brown	moist	trees	moderate	1	3	89	5	2	100	no
Oct 23 2012	W&T	315	611599	6014903	1300	9	В	60	brown	moist	trees	moderate	1	5	88	5	1	100	no
Oct 23 2012	W&T	316	611599	6014807	1280	9	В	65	brown	moist	trees	gentle	2	3	91	3	1	100	no
Oct 23 2012	W&T	317	611499	6014799	1272	9	В	55	brown	dry	trees	gentle	6	1	81	10	2	100	no
Oct 23 2012	W&T	318	611493	6014900	1298	9	В	55	brown	dry	trees	moderate	8	1	79	10	2	100	no
Oct 23 2012	W&T	319	611495	6014999	1321	9	В	65	brown	moist	trees	gentle	10	2	79	7	2	100	no
Oct 23 2012	W&T	320	611484	6015098	1348	9	В	45	brown	dry	trees	steep	1	2	86	10	1	100	no
Oct 24 2012	W&T	321	610397	6016197	1285	9	В	50	brown	dry	trees	gentle	8	2	79	10	1	100	no
Oct 24 2012	W&T	322	610407	6016098	1279	9	В	60	brown	moist	trees	gentle	10	2	81	6	1	100	no
Oct 24 2012	W&T	323	610395	6016004	1287	9	В	50	brown	moist	trees	gentle	6	3	83	6	2	100	no
Oct 24 2012	W&T	324	610401	6015893	1279	9	В	50	brown	moist	trees	gentle	4	5	78	8	5	100	no
Oct 24 2012	W&T	325	610397	6015802	1257	9	В	50	brown	dry	trees	steep	2	5	75	15	3	100	no
Oct 24 2012	W&T	326	610398	6015702	1246	9	В	50	brown	moist	trees	moderate	2	5	75	15	3	100	no
Oct 24 2012	W&T	327	610398	6015599	1257	9	В	50	brown	moist	trees	gentle	10	2	84	3	1	100	no
Oct 25 2012	W&T	328	610399	6015501	1256	9	В	70	brown	dry	trees	gentle	5	4	80	10	1	100	no
Oct 25 2012	W&T	329	610399	6015403	1236	9	В	60	brown	moist	trees	steep	11	3	82	3	1	100	no
Oct 25 2012	W&T	330	610401	6015296	1233	9	В	40	brown	dry	trees	gentle	10	3	83	3	1	100	no
Oct 25 2012	W&T	331	610397	6016296	1296	9	В	70	brown	wet	trees	gentle	8	3	86	3	0	100	no
Oct 25 2012	W&T	332	610495	6016306	1310	9	В	50	brown	dry	trees	gentle	1	5	85	5	4	100	no
Oct 25 2012	W&T	333	610502	6016204	1305	9	В	60	brown	dry	trees	gentle	1	5	86	6	2	100	no
Oct 25 2012	W&T	334	610496	6016098	1298	9	В	45	brown	wet	trees	gentle	3	2	80	10	5	100	no
Oct 27 2012	W&T	335	610498	6016001	1304	9	В	50	brown	dry	trees	moderate	2	3	86	8	1	100	no
Oct 27 2012		336	610499	6015904	1291	9	В	50	brown	wet	trees	moderate		5	83	10	1	100	no
Oct 27 2012	W&T	337	610493	6015816	1257	9	В	45	brown	moist	trees	gentle	3	5	85	5	2	100	no
Oct 27 2012	W&T	338	610501	6015706	1258	9	В	55	brown	moist	trees	moderate		2	82	12	3	100	no
Oct 27 2012	W&T	339	610499	6015601	1262	9	В	55	brown	wet	trees	gentle	11	3	79	5	2	100	no
Oct 27 2012	W&T	340	610506	6015499	1253	9	В	60	brown	dry	trees	gentle	3	3	88	5	1	100	no
Oct 27 2012	W&T	341	610510	6015396	1246	9	В	50	brown	wet	trees	moderate	_	3	74	8	3	100	no
Oct 27 2012	W&T	342	610501	6015302	1250	9	В	55	brown	moist	trees	moderate	-	3	81	8	3	100	no
Oct 28 2013	W&T	343	610595	6016303	1321	9	В	40	brown	dry · ·	trees	moderate		2	89	4	2	100	no
Oct 28 2013	W&T	344	610593	6016209	1318	9	<u>B</u>	50	brown	moist	trees	moderate		3	87	2	0	100	no
Oct 28 2013	W&T	345	610596	6016107	1315	9	В	45	brown	dry	trees	moderate	3	5	85	5	2	100	no
Oct 28 2013	W&T	346	610599	6016008	1323	9	В	50	brown	dry	trees	gentle	3	4	82	8	3	100	no
Oct 28 2013	W&T	347	610592	6015904	1298	9	В	50	brown	dry	trees	steep	1	2	86	10	1	100	no