LONGFORD **EXPLORATION**

services

longford**exploration**.com

6970 Napier Street, Vancouver, BC, Canada, V5B 2C4

Telephone (778) 809-7009, (604) 565-4236, (867) 335-7539

Geology, Ore Mineralisation and Economic Potential of the Pacer Cu-Au-Ni-PGE Prospect, Kluane Ranges, Yukon Territory

Claim Names:

Pacer 1 – 56, Pacer 57 - 80, Pacer 100 – 120, and Pacer 123 - 255

Grant Numbers:

YD90841-YD90996, YD 18182–YD18205, YE33064-YE33084, YE33087-YE33099 and YE33410-YE33529

NTS 115A13

Latitude 60^0 47' N Longitude 137^0 50' W

Whitehorse Mining District

Field Work Conducted June 1 - August 11, 2013

Registered Owner: **Longford Exploration Services**
6970 Napier Street
Burnaby, BC
V5B 2C4

Authors

Quinn P. Harper, BSc.
Rubicon Pacific Geological
PO Box 9, Arras, BC V0C1B0
gph@sfu.ca

James Rogers,
Longford Exploration Services – President & CEO
9670 Napier Street, Burnaby, BC V5B 2C4
jrogers@longfordexploration.com

May 2, 2014

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INTRODUCTION

The Pacer claim group (NTS 115A13) lies 15 kilometers west of Haines Junction and 160 kilometers west of Whitehorse by paved road within the Kluane Front Ranges of Yukon Territory (Figure 1). The 4,933 hectare property is underlain by several gold, base metal and platinum-group element occurrences thought to represent magmatic mafic-ultramafic massive sulphide mineralisation.

For purposes of this report, the Pacer claim group was visited from June 13 to June 21, 2013 by the authors and field assistant Scott Murchison of Longford Exploration Services Ltd. A total of 91 rock samples, 114 soil samples and 12 stream sediment samples collected for assay during the 2013 field season in addition to preliminary property-scale lithological and structural mapping was completed. The purpose of the 2013 program was to: 1) assess structural, lithological and alteration characteristics; 2) define mineralised units; 3) evaluate mineral potential considering economic factors; 4) attempt to replicate historic data, and; 5) fit geologic characteristics found at Pacer into a regional framework.

Considering information gathered during the 2013 field program as well as historic data, the authors conclude that 1) gabbro-peridotite dykes and sills within deformed volcanosedimentary and arc volcanic rocks display encouraging potential to host Cu-Ni-PGE massive sulphide mineralisation and 2) a Cu-Au mineralising system is present which may have regional scale and is worthy of detailed follow up. It is suggested that an extensive program of property-scale mapping, soil sampling and geophysical surveys be completed with the intention of generating feasible drill targets.

Figure 1 Location map showing Pacer 160 kilometers west of Whitehorse and 255 kilometers North of deep port in Haines, AK.

LOCATION, ACCESS AND PHYSIOGRAPHY

The Pacer claim group (NTS 115A13) lies 15 kilometers west of Haines Junction (population 600) and 160 kilometers west of Whitehorse by paved road within the Kluane Front Ranges of Yukon Territory. Centered over 60^0 47' N x 137^0 50' W, the claims lie on the southern margin of the Shakwak Valley and are bound to the south by Kluane National Park, adjacent and southeast of Jarvis River and northwest of Alsek River, encompassing Mt. Decoeli and portions of Mt. Archibald. The area adjacent and immediately west of the Pacer claims is withdrawn from exploration by First Nations Settlement Land CAFN R-47A.

The Alaska Highway parallels the claim group approximately 5 kilometers northeast, and the Haines Highway extends 255 kilometers south from Haines Junction to the deep-water port of Haines, Alaska. A four-wheel-drive road extends from Bear Creek on the Alaska Highway southerly along the Alsek River and Archibald Creek (locally Thunderegg Creek) to the southern portion of the Pacer claims. The majority of the claim area is accessed by helicopter, a 0.2hr round trip in a Long Ranger from Haines Junction Regional Airport. Year-round charter helicopter and fixed wing service, RCMP, health clinic, ambulance, fuel, lodging, restaurants and limited groceries are available in Haines Junction. All services are offered 160km East on Highway 1 in Whitehorse. Haines Junction is on grid power and has diesel generator backups. 3G cellular covers Haines Junction and a significant portion of the claim group.

The Kluane Front Ranges have steep uniform scree slopes reaching to 8500ft with treeline around 4000ft. Vegetation on lower slopes consists of white and black spruce, poplar and balsam. Sub-alpine to treeline is generally thick with alder willows. Outcrop is present at higher altitudes and in many creek beds (Figure 2).

The local climate is strongly influenced by the St Elias Mountains and proximal icefields. Average summer temperatures are 20^o Celsius reaching low thirties while winter averages sit around -20^o Celsius. The exploration season extends from mid-May through early October.

Figure 2 View over Haines Junction SW across the Shakwak Valley toward the Pacer claim group (approximate boundary outlined in red). The right most mountain is Decoeli, and the snow-capped mountain is Archibald.

CLAIMS AND OWNERSHIP

The Pacer claim group is comprised of 235 mineral claims in good standing, 100% owned by Longford Exploration Services Ltd. with a corporate address at 6970 Napier St., Burnaby, BC V5B 2C4. The current property boundary is presented in Figure 3. The claims were acquired as part of a settlement with the original staker, Solomon Resources, officially in 2013.

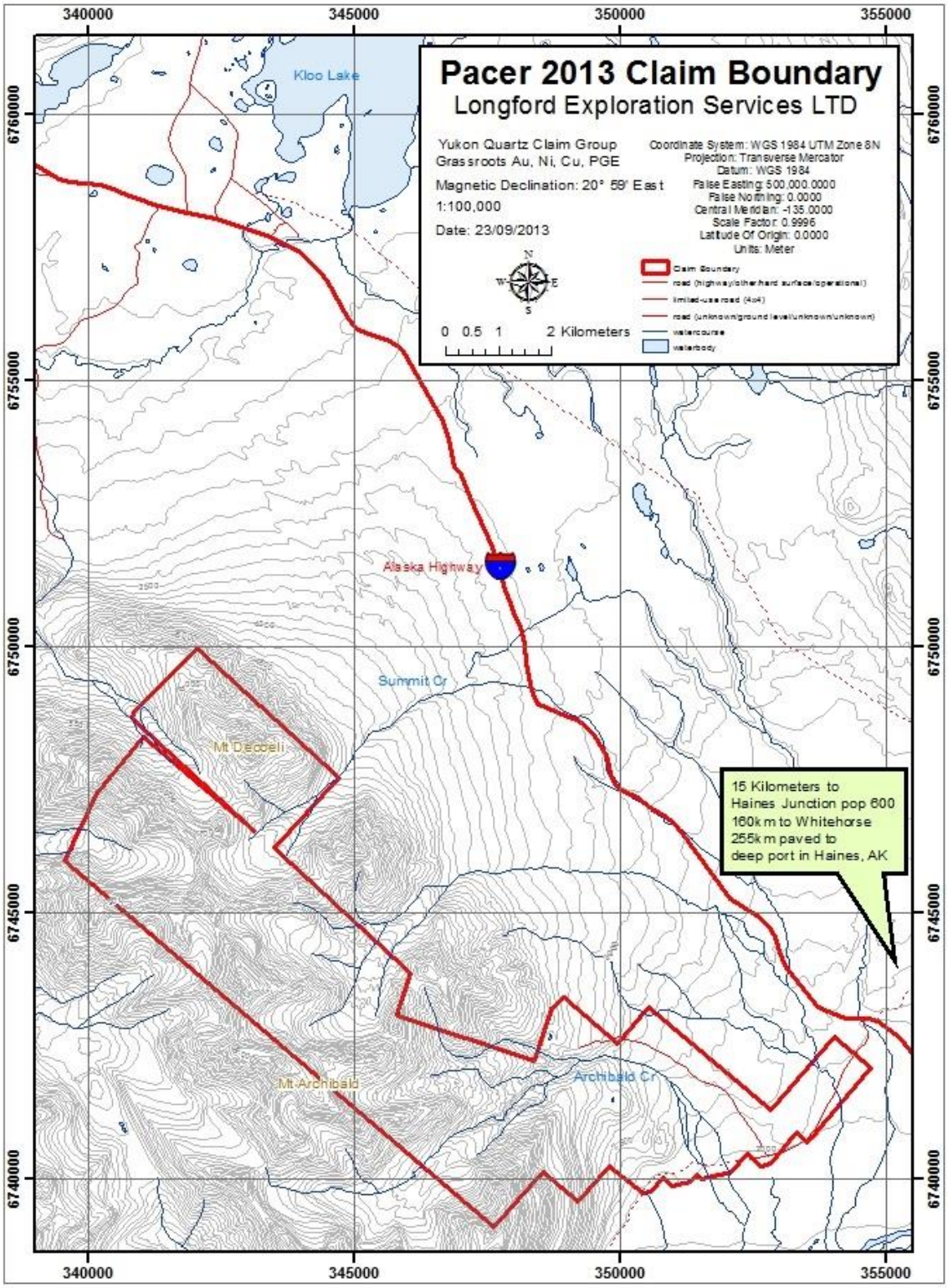


Figure 3 Pacer claim group boundary and topography.

Mineral tenure numbers and details are stated in detail in Appendix I. Pertinent details are summarized as follows:

Table 1: Pacer property claims.

Claims for renewal		Ownership	Expiry Date
Claim name	Grant number		(Current)
Pacer 1–56	YD90841-YD90996	Longford Exploration Services Limited	2013-11-13
Pacer 57–80	YD18182-YD18205	Longford Exploration Services Limited	2013-11-13
Pacer 100–120	YE33064-YE33084	Longford Exploration Services Limited	2013-11-13
Pacer 123-135	YE33087-YE33099	Longford Exploration Services Limited	2013-11-13
Pacer 136-255	YE33410-YE33529	Longford Exploration Services Limited	2013-11-13

The location of Pacer 1- Pacer 255 and surrounding active quartz claims at the time of this report can be found in Appendix IV.

PREVIOUS EXPLORATION

Previous exploration in the area of the Pacer claim group is described in Yukon Geological Survey assessment reports available from the Yukon Geological Survey website (data.geology.gov.yk.ca). Reports pertaining to Pacer include: 92766 (Davidson 1989), 92830 (Davidson 1990), 92902 (Héon 1990) and an unpublished report by Rogers (2012; attached).

The area surrounding the Pacer Claim Group has been intermittently explored since 1892 when Jack Dalton and E.J. Glave first made an overland trip from the Chilkat River to the shores of Kluane Lake. Dalton established trading posts and improved the trail as far north as the Nordenskold River. Klondike prospectors used the Dalton Trail extensively during the 1898-1900 period enroute to the goldfields of the Klondike, but prospecting in the Front Ranges was not established until approximately 1903 when Silver City (or Kluane) was settled at the Eastern end of Kluane Lake and became the center of mining activity in the region. Silver City boasted a post office, N.W.M.P. post and a Mining Recorder Office; a wagon road led east through Champagne to Whitehorse. The threat of Japanese invasion sparked the building of the Alaska

Highway in 1942 and the Haines Road followed in 1944. Improved access in the post war period brought on an exploration boom, although no lode mining production is known from the immediate area outside of the Wellgreen deposit 100km on strike. Placer mining has been discontinuous in the immediate area with limited placer testing reported on Thunderegg Creek and the north flank of Mt. Decoeli. Kimberley Creek a recent producing creek fed partially by the Western portion of the Pacer claim group was sold in 2013. The new owners are rumored to be commencing mining in 2014.

A number of regional exploration programs focused on the Front Ranges from 1966 through 1986, including programs conducted by Noranda Exploration Company Ltd.

Three MINFILE occurrences of note are known in the vicinity of the Pacer Claim Group. The following is a summary, please see Appendix III for the MINFILE datasheets.

1) The Archibald showing (MINFILE 115A036) was originally staked in 1966 by Golden Gate Exploration following an airborne magnetic survey. This showing, known locally as the Colton showing, was explored intermittently from 1988 to 1989 in conjunction with work on the northerly Decoeli showing. Gold was reported with pyrrhotite and chalcopyrite in a quartz-carbonate stockwork cutting rusty siliceous argillite in the hanging wall of a serpentinized gabbro-peridotite sill that was found to be 150 meters thick and at least 4000 meters long. A specimen from the main showing assayed 19.7 g/t Au and a nearby quartz-sericite vein returned 2.5% Cu and 1.5 g/t Au. High grade copper float was found in foliated greenstone boulders in what is now known as Thunderegg Creek. Noranda defined a gold in soil geochemical anomaly 1500 meters long and 20 meters wide with values up to 1270 ppb Au extending north to the Decoeli showing. Rock samples assayed as high as 3.1 g/t Au. Noranda abandoned the option on this showing in 1991 as part of a corporate reorganization. The main Archibald showing is now covered by the Pacer Claim Group.

2) The Decoeli showing (MINFILE 115A040) was initially staked in 1966 and ultimately optioned to Noranda in 1989 following a brief surface exploration program targeting a serpentinized peridotite-dunite-gabbro sill cutting argillite and metavolcanics of Triassic age on the northern flank of Mt. Archibald. Chalcopyrite and pyrrhotite occur in rusty silicified argillite in the hanging wall of a gabbro sill. Gold values of up to 17 g/t Au were reported in this zone. The Decoeli showing languished for a number of years,

and was staked as the Haine Claims by prospector Shawn Ryan on April 20th, 2007 and is now owned by Ryan Gold Corp. and 45127 Yukon Inc.

3) The Kloo showing (MINFILE 115A041) was first staked as the Jude claims in 1953 and optioned to Hudson Bay Mining and Smelting Company Ltd. who drilled five holes and built an access road. The property was re-staked as the MC Claims in 1962 by T. Worbetts and optioned to Canadian Barranca Mines Ltd in 1965 who added more claims, improved the road, carried out geochemical soil sampling, geological mapping, geophysical surveying and drilled 3 holes. The property was re-staked as the Ellen Claims in 1987 by Ron Stack. The property was examined in subsequent years by Noranda Exploration Company Ltd., Total Energold Corporation and Placer Dome Exploration Ltd. and both Stack and Graham Davidson added more Ellen claims. In 1993 Probe Resources Ltd. optioned the Ellen claims and carried out rock and soil sampling, geophysical surveys and drilled 5 holes. Davidson added the Preston and Jim claims and Stack added the Brand claims.

In 2001, Stack and Bill Harris of Midnight Mines Ltd. carried out prospecting, hand trenching and geochemical rock sampling in areas of known mineralisation and investigated the upland plateau area northwest of the main showing.

The Ellen property is underlain by a thick, layered felsic to mafic volcanic sequence of the Upper Triassic Nikolai Formation. Volcanics are conformably overlain to the south by limestone, schist and green tuffaceous volcanics of the Upper Jurassic to Lower Cretaceous Dezadeash Formation. Mineralisation at the main showing consists of intense malachite staining and massive chalcopyrite/pyrrhotite stringers hosted in a series of thick andesite flows and tuffs. Stringer zones show dark green to black chloritic alteration up to 30 centimeters thick. Surface sampling in 1966 returned 3.0% Cu across a width of 9.1 meters and 2.0% Cu across 4.6 meters for the south side of a creek gully. Analysis of samples of the 1966 drill core returned 3.15% Cu over 5.2 meters from hole MC-1, 1.64% Cu over 10.4 meters (including 6.4 meters of 2.20 % Cu) in hole MC-2 and 1.20% Cu over 5.2 meters in hole MC-3. In 1969 hole MC-7 intersected 1.5 meters of 0.8% Cu below the 1966 holes. Holes MC-5 and 6, stepped out 61 meters along strike to the northwest from the 1966 holes, cut 0.9 meters of 1.1% Cu and 4.3 meters of 0.6% Cu respectively. Hole MC-4 tested an EM and magnetic anomaly to the east of the main showing and intersected graphite schist and two bands of serpentine, 7.9 meters and 9.4 meters thick, containing Ni values up to 0.11%. (Pautler 2006).

Trenching in 1989 exposed additional massive chalcopyrite in two layers of shale interbedded with andesitic tuff and banded siliceous tuff, as well as a third pyritic sulphide layer in the metavolcanic rocks over a strike length of approximately 100 meters. A 2.0 meter chip sample across the uppermost layer returned 8.55% Cu and 789 ppb Au. Specimens containing up to 990 ppb Au, 10.1 g/t Ag, 126 ppm Mo and 2,900 ppb Hg were also reported. A fourth massive chalcopyrite layer was found in 1990 and disseminated sulphides were found over a thickness of 152.4 meters. The 1995 drilling by Probe Resources returned one 5 meter intersection grading 1.94% Cu. The other two holes drilled on the main showing returned several intersections 3 to 7 meters in length which returned 0.5 to 1.96% Cu. The two holes drilled to the northeast intersected a serpentinite sill approximately 30 meters thick, containing disseminated chalcopyrite and pyrrhotite. Exploration in 2001 and 2002 revealed chalcopyrite stringer mineralisation with associated quartz/chalcopyrite veins up to 300 meters to the northwest and 200 meters to the southeast. There are indications that the Kloo showing may represent a Besshi-style massive sulphide occurrence. (Pautler 2006).

2006 Exploration yielded 7.23% Cu, 1.01 g/t Au, 1.01 g/t Pd over 2.5m of the Kloo prospect (Pautler 2006).

Table 2: Tabulated history of Pacer Claim Group

YEAR	DESCRIPTION
1966	JS claims staked by Golden Gate EL following airborne magenetometer survey
1987	Green claims staked by B. Lueck
1988	Colton claims staked by Harjay EL
1989	Vail claims staked to the north by B. Lueck after mapping and prospecting
1989	Vail claim prospected and mapped by Noranda ECL
1990	Colton and Vail claims transferred to Noranda
1990	Mapping, soil sampling and magnetometer survey done by Noranda
1991	Noranda relinquished its option
2008	WRR claims staked by White River Resources
2009	WRR claims lapse; no significant work completed
2010	Pacer claims staked by Solomon Resources following YGS aeromag survey (Open File 2010-21) showing a mag-high anomaly.
2011	Solomon Resources conducts minor geologic mapping, sediment sampling and stakes 24 additional claims securing more of the 2010 mag anomaly and Nikolai Formation.
2013	Longford Exploration Services LTD aquires 100% ownership of Pacer claims

Table 3: Tabulated significant historic results on the Pacer Claim Group

YEAR	BY	SAMPLE	Cu	Ag	Au	Ni	Pt	Pd	Cr	Zn	Description
<1989			2.50%		1.5 g/t						qtz-sericite vein
<1989					19.7 g/t						siliceous argillite
<1989			6.30%								foliated greenstone boulders
1989	Davidson	84251	5ppm		<5ppb	1993ppm	50ppb	10ppb	3363ppm		serpentinized peridotite, minor phyyrhotite
1989	Davidson	84252	143ppm		<5ppb	45ppm	15ppb	10ppb	132ppm		Limonitic siltstone, qtz-carb veining, minor py
1990	Noranda				1270ppb						1.5kmx20km gold in soil anomaly
1990	Noranda		2.30%		3.1 g/t						Grab sample
1990	Noranda	121801	5.12%	7.1ppm	21ppb	34ppm			53ppm	3789ppm	Rock sample
1990	Noranda	121802	0.57%	.9ppm	9ppb	45ppm			84ppm	416ppm	Rock sample
1990	Noranda	119698	22ppm	.1ppm	3ppb	1373ppm	1ppb	3ppb	823ppm	43ppm	Rock sample
1990	Noranda	119699	178ppm	.2ppm	22ppb	565ppm	61ppb	48ppb	822ppm	35ppm	Rock sample
2011	Solomon									8600ppm	Stream sediment

REGIONAL GEOLOGY

The Pacer Claim Group is located within the Insular Superterrane which is primarily composed of two older terranes, Wrangellia and Alexander, amalgamated around 320 ma (Figure 4). These terranes are composed of island arc and ocean floor volcanic rocks with thick assemblages of overlying oceanic sedimentary rocks that range in age from 400 to 220 million years old. (Greene et al 2004, Israel and Zeyl 2004).

The Wrangellian Terrane is an extensive accreted oceanic plateau characterized by widespread Triassic flood basalts and complimentary intrusive rocks. Flood basalts in this region are believed to have originated in a mantle plume which erupted onto the extinct Pennsylvanian and Permian Takku-Skolai island arc. (Greene et al 2004, Israel and Zeyl 2004).

The Upper Triassic Nikolai Formation (uTrN Figure 5) forms a discontinuous linear belt extending 300 kilometers across southwest Yukon overlying the Hasen and Station Creek metavolvanic-sedimentary formations of Takku-Skolai. The Nikolai is characterized by basal conglomerate and/or volcanic breccia, amygdaloidal basalt and andesitic flows and local tuff, breccia, shale and limestone. In Yukon, the formation reached approximately 1000m of thickness compared to up to 6000m of thickness further south in the Cordillera. (Greene et al 2004). The Nikolai Formation was initially mapped in the area of the Pacer Claim Group by Kindle (1953) as partly serpentinized peridotite, talc schist and green serpentine schist of Lower Cretaceous or later age.

The Kluane Mafic-Ultramafic (PTrK Figure 5) suite is thought to be the feeder for the Nikolai flood basalts and is an important component of regional Ni-Cu-PGE mineralisation.

Mafic rocks of similar age and composition to the Nikolai Formation occur in Northwestern BC where they are referred to as the Tats Volcanic Complex. Several stratigraphic sequences overlie the Alexander Terrane and Wrangellia in Southwest Yukon; the oldest of these overlap assemblages is the Upper Jurassic to Lower Cretaceous turbidites of the Dezadeash Formation (JKD Figure 5), one of several packages of similar age that were deposited in basins that developed between the Insular and Intermontane superterranes during the middle Mesozoic (Israel and Zeyl 2004).

The Pacer Claim Group lies in a wedge of Triassic Volcanic rocks which are thought to represent the amygdaloidal basalt and andesitic flows of the Nikolai Formation (Figure 5). The claim group is located northeast of the regionally dominant Denali Fault which has several hundred kilometers of dextral slip. The property is bound to the north by the Shakwak Fault. A large sedimentary package overlaps portions of and is juxtaposed to the South of the Nikolai Formation on the claim group. Well-layered conglomerate, slate, sandstone, tuff, argillite, chert, greywacke with minor limestone, volcanics and coal form what is thought to be the Dezadeash Formation on the claim group.

Kindle (1976) also mapped a small intrusive stock of Cretaceous granodiorite on the southern flank of Mt. Decoeli that does not appear in recent compilations but was mapped in 2013 (mKp Figure 5).

Pacer lies on strike with several significant mineral showings in addition to the secured Archibald showing (19.7 g/t Au, 2.5% Cu and 1.5 g/t Au), and neighboring Kloo (7.23% Cu, 1.01 g/t Au, 1.01 g/t Pd) and Decoeli (17 g/t Au) showings discussed previously. The Telluride volcanogenic massive sulphide (Yukon MINFILE 115B008, AppendixIII) showing is 30 km NW along strike from the center of the claim group with assays reaching 5.54g/t Pt 13.46g/t Pd, 4.067% Cu, 1.73% Ni, 6.99% Zn, 24.0g/t Ag.

The past producing Wellgreen Ni-Cu-PGE deposit is related to the Quill Creek Mafic-Ultramafic complex which is part of the larger Kluane Ultramafic Suite. Overlain by the Nikolai formation, the Wellgreen sits 100km from Pacer on strike (Appendix VI) and has an Indicated Resource of 14.3 million tonnes at grades of 0.69% Ni, 0.62% Cu, 2.25g/tPt+Pd+Au with an additional inferred resource of 289.3 million tonnes at grades 0.38% Ni, 0.35% Cu, and 1.18g/t Pt+Pd+Au. (McCracken 2011).

Approximately 200km northwest on strike from Pacer lies the Canalask Ni-Cu-PGE depost (MINFILE115F045; Appendix IV). In the same Kluane Mafic-Ultramafic Suite intruding Skolai sediments and Nikolai volcanics as the Wellgreen, Canalask has a reserve caluculated in 1968 of 390,235 tonnes grading 1.35% Ni.

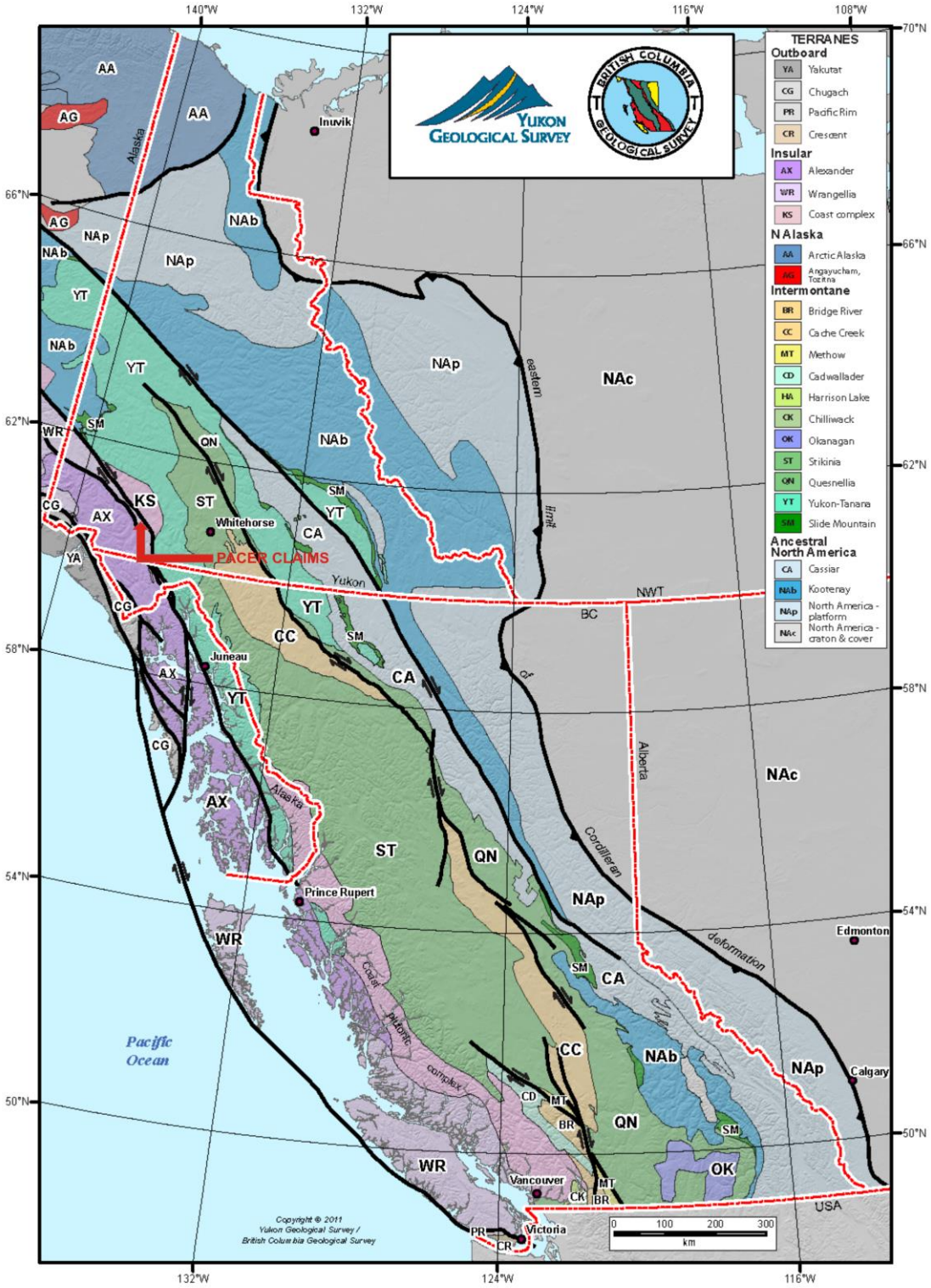


Figure 4 Location of Pacer claim group in the Northern Cordillera Terrane map, modified from YGS/BCGS (Colpron, M and Nelson, JL 2011).

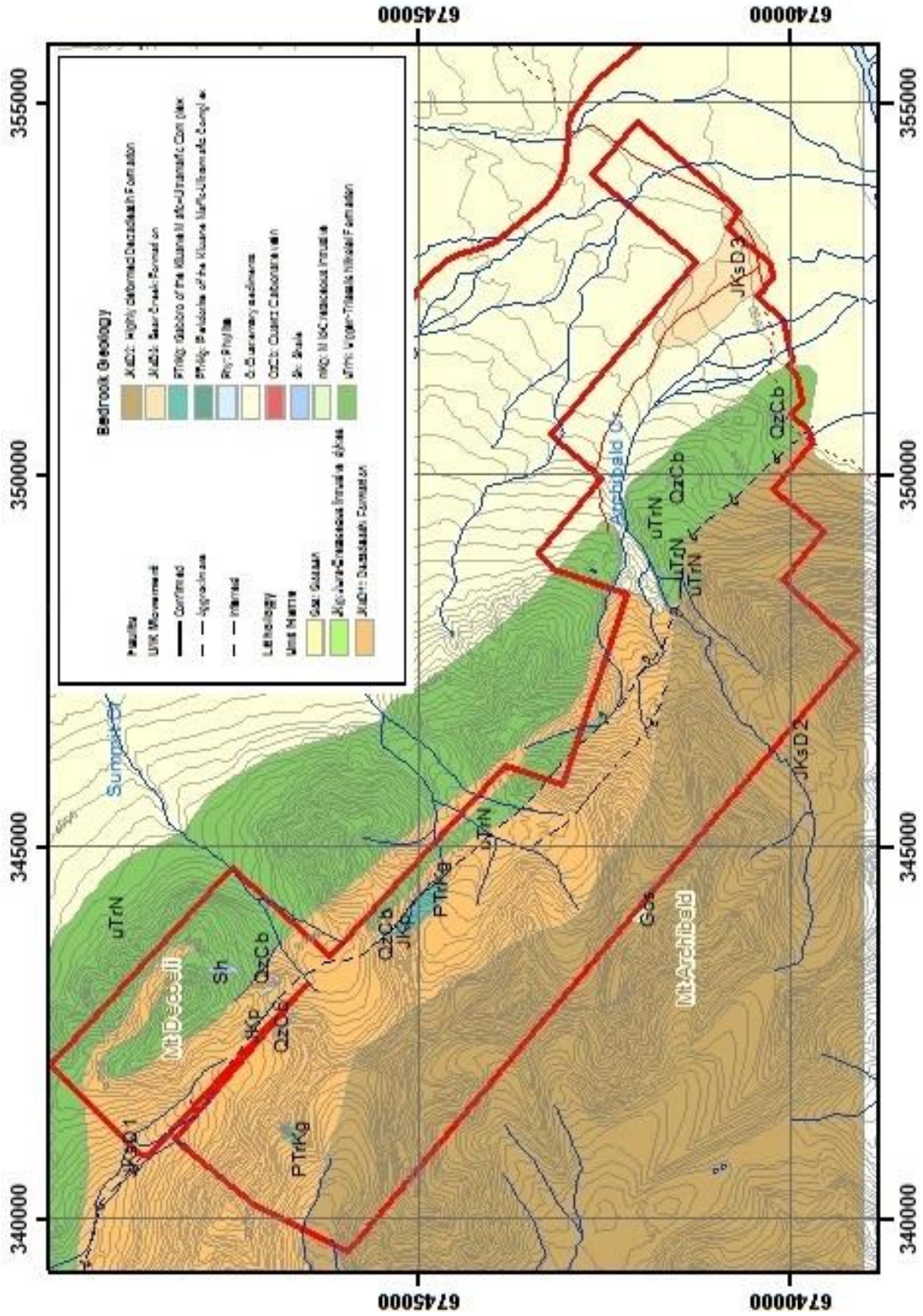


Figure 5 2013 Pacer Property bedrock geology modified from Israel, S. (2004) Geology of Southwestern Yukon (1:250,000 scale. Yukon Geological Survey. Open File 2004-16).

PROPERTY GEOLOGY

Mapping and sampling exercises during the 2013 field program confirmed some earlier interpretations while new hypotheses were also developed. A 1:15000 geological map completed in 2013 is included in Appendix VII, Figure 5 is modified to fit this text. The Pacer claim group is dominated by two main lithological groups:

1) The Upper Triassic Nikolai Formation (uTrN) occurs in a discontinuous sinuous band on the northeast portion of the Pacer Claim Group. An abundance of chlorite, epidote ± serpentine occur as alteration products of clino- and othopyroxenes, amphiboles and feldspar. Small sections of fibrous chlorite and serpentine (Figure 6) are seen in various areas throughout the greenstone. Other mineralisation includes quartz and feldspars, both within the rock and as veins, as well as actinolite and stilbite as alteration minerals. Arsenopyrite and pyrite are also seen, generally in the less weathered areas of the greenstone (Figure 7) and usually disseminated throughout the rock with larger crystal forms up to 5mm in diameter. 2013 field mapping observed poly-deformed pillows in the Nikolai Formation on the eastern property margin (Figure 8). After Greene et al 2004, these pillows suggest proximity to the base of the formation. Nearby peridotite sills hosted in Nikolai basalt as well as anomalous PGE in soils and sediments in the general area (81 ppb Pt in soil, 59 ppb Pd in soil) are consistent with regional expectations of the Nikolai formation overlying the Hasen formation of the Skolai Group (Figure 9). Local flow banding includes layers of fine-grained sulphides. The Nikolai Formation has been slightly metamorphosed on the claims, and a large variety of metamorphism is seen throughout the property ranging from clean, unaltered greenstone to an almost schistose greenstone. An igneous, porphyritic greenstone is

Figure 6 Fiborous serpentine in Nikolai formation Sample ID JR-13-008-06-01

seen at the top of Mt. Decoeli, displaying feldspar and chlorite crystals. Weathered areas are generally strongly iron-stained with alteration minerals present. This is shown along the contact with schists of the Dezadeash Formation.

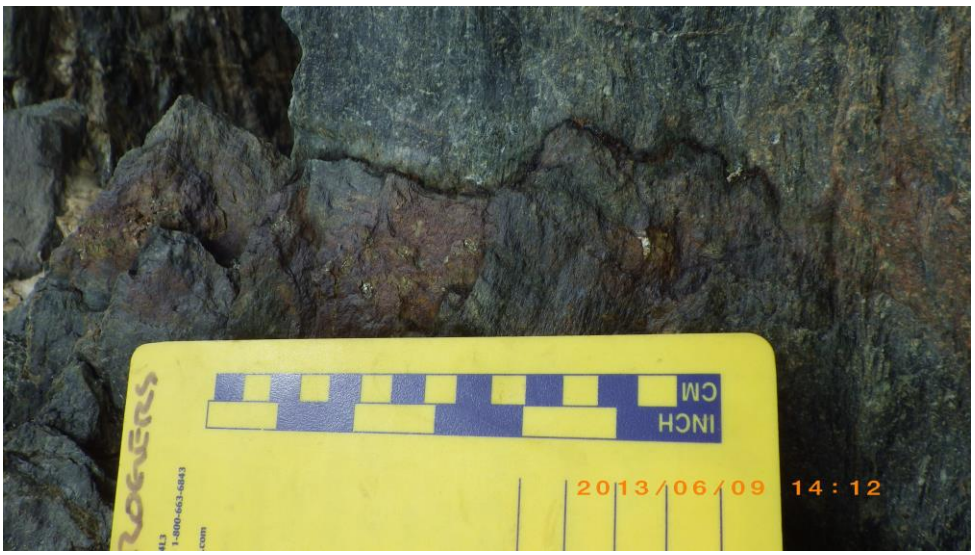


Figure 7 Sulphides in chloritized Nikolai formation.

Figure 8 Deformed pillow basalts suggesting basal proximity near the Alsek road in the Eastern limits of the property.

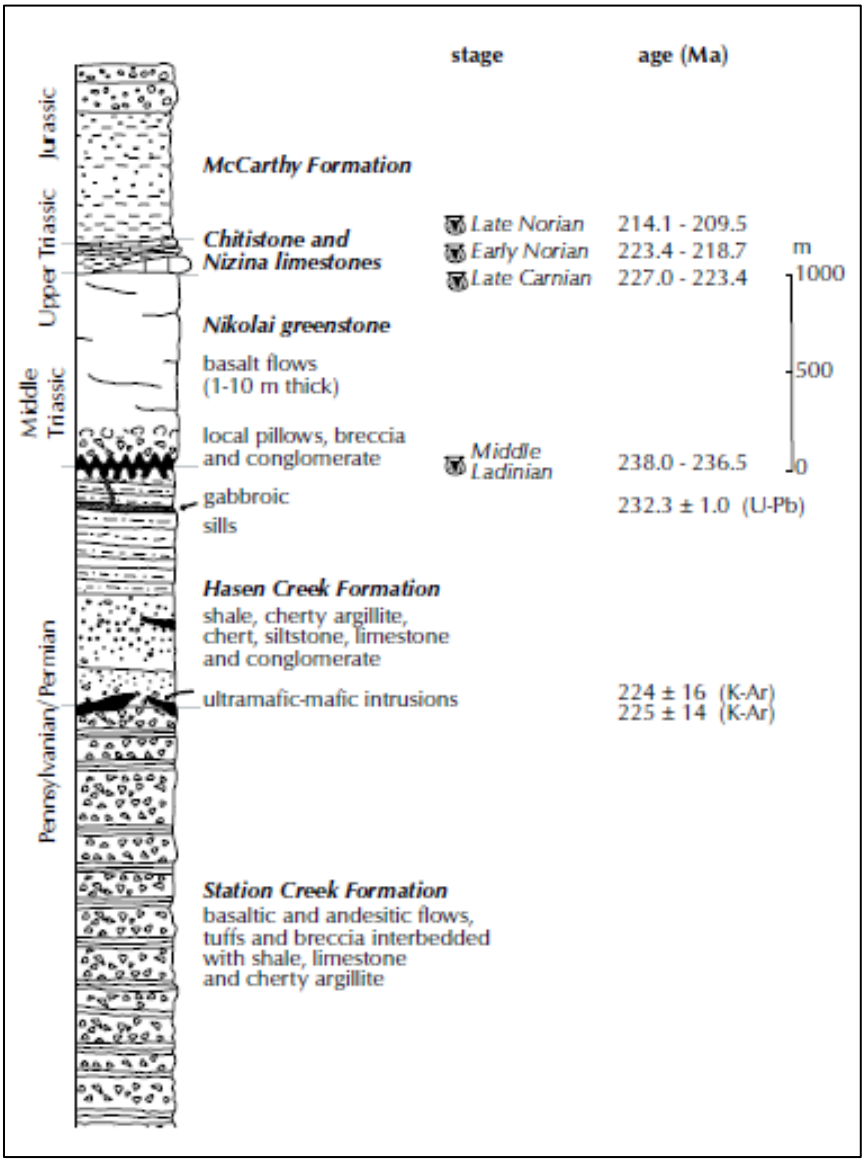


Figure 9 Stratigraphic column from Greene et al, 2004 depicting sedimentary and volcanic sequences of the Kluane Ranges. Pillows and ultramafic sills in Nikolai basalts were observed in 2013 field mapping suggesting proximity to the base of Nikolai.

2) The Upper Jurassic to Lower Cretaceous Dezadeash Formation (JKD) is currently thought to be the dominant map unit of the Pacer claims, although little work has been completed to confirm age and stratigraphic relationships. Locally, multiple structural stages are evident in crenulations and folding and in many instances feldspar pressure solutions are seen along pyrite crystals. Observed variations in the schist suggest disparities in parent rock from mudstone (argillite/shale) to a more silicified greywacke to conglomerate. The majority of outcrops are a slightly weathered argillite with fine to medium-grained pyrite crystals.

Weathered exposures of the Dezadeash Formation are most commonly stained a dark red or brown, but may also be yellow, orange, purple, or black. Sulphides are usually present, and fresh rock will generally contain disseminated sulphides (arsenopyrite and pyrite), while strongly weathered rock displays pyrite, arsenopyrite, pyrrhotite and chalcopyrite. Quartz carbonate veins are seen throughout the unit both cross-cutting and parallel to schistosity.

A significantly more deformed package of Dezadeash (JKD2) in the southern claim portions has been separated from the lesser deformed and more metamorphosed Dezadeash (JKD1) (Figures 10 and 11). A third Dezadeash unit (JKD3) is described by 2013 mapping in the northeast portions of the claims. It should be noted that fine grained turbidite sequences in JKD3 were found to be overturned perhaps suggesting a regional thrust event.

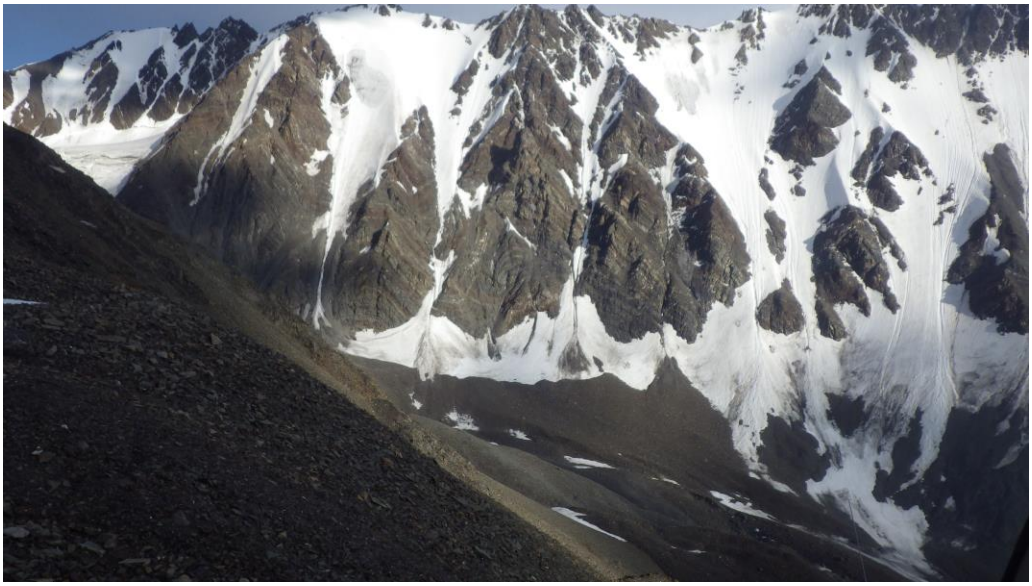


Figure 10 Western portion of Pacer claim group looking SE to the highly deformed rocks of Dezadeash (JKD2).

The Dezadeash Formation lies in unconformable contact over the Wrangell flood basalts of the Nikolai Formation and a large wedge is juxtaposed against the Nikolai in a phyllitic (variably graphitic) shear zone where hydrothermal alteration and quartz carbonate veining is noted. Where visible in the field, the contact ranges from unaltered to heavily oxidised orange and weathered rock. A small lens of shale was identified on the East slope of Decoeli (Figure 12).

South of the shear zone, between Nikolai and Dezadeash, further evidence of local thrust faulting was observed (Figure 11) and an antiform is described proximal to the shear zone in the steeply dipping Nikolai. Nearby, in vertical greenstone a small massive sulphide lens assayed 2964.30 ppb Au, 785 ppb Ag, 20 ppb Pd (sample 1494978 Figure 13). It is believed that carbonate alteration proximal to the shear zone is responsible for this mineralisation.

Figure 11 South of shear zone, Longford filed crews observing thrusted metasedimentary and volcanic stratigraphy.

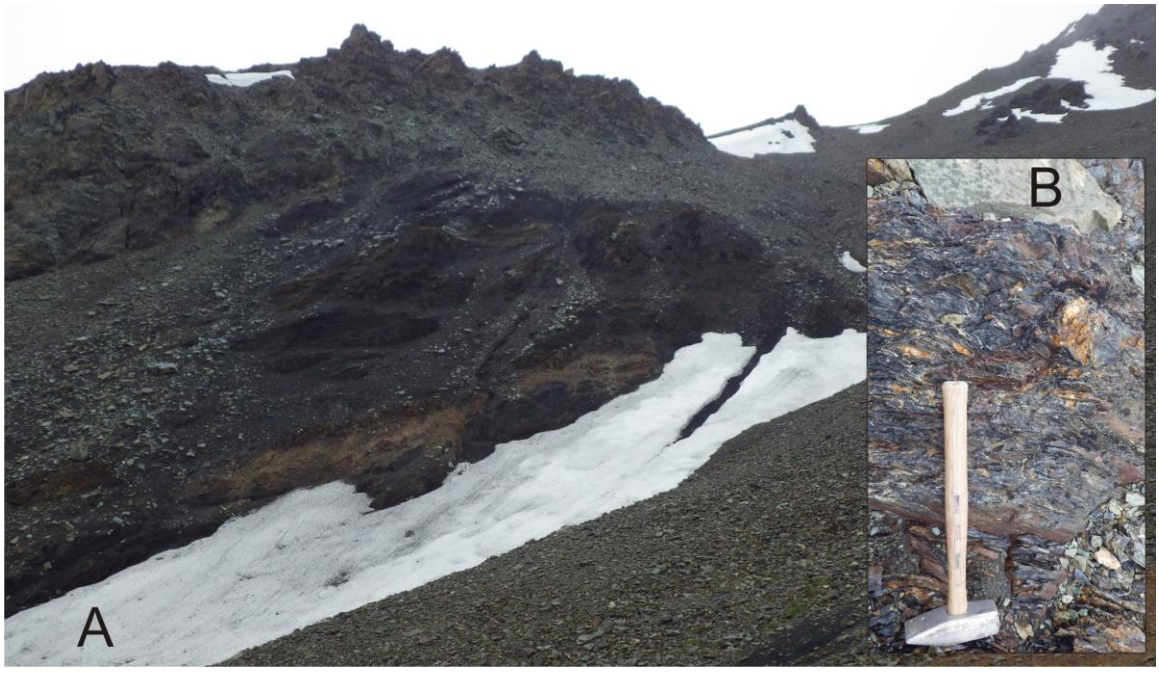


Figure 12 A: Shale lens in Nikolai formation on east slope of Decoeli Mt. B: highly deformed shale in lens package.

Figure 13 Massive sulphide lens in Greenstone. Sample 1494978 assayed 2964.30ppb Au, 785ppb Ag, 20ppbPd, 2.45ppm Mo.

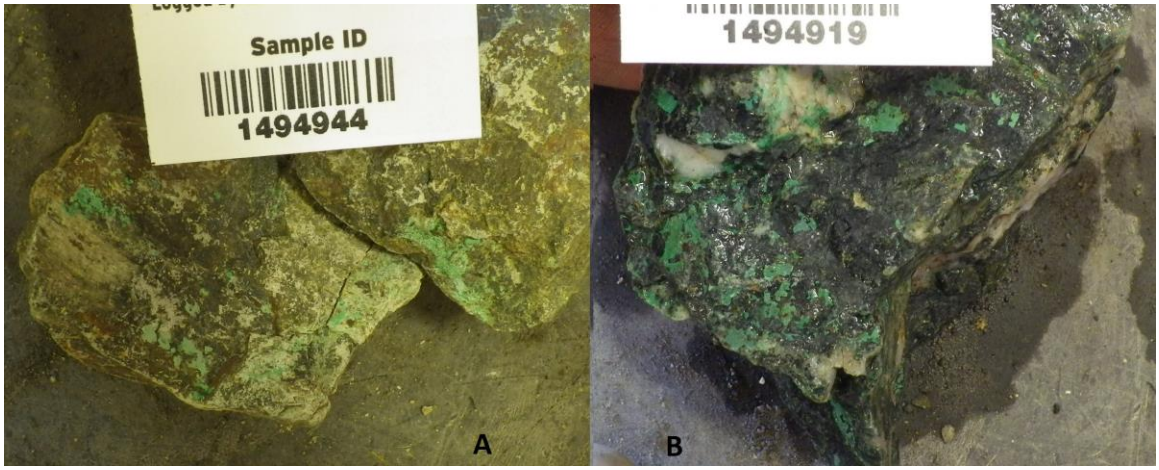


Figure 14 Malachite stained basalt of Nikolai formation. A: Sample 1494944 2.144% Cu, 3071ppb Ag. B: Sample 1494919 6511.86ppm Cu, 2265ppb Ag.

Significant copper results were found in several float rocks near the top of and on the eastern slope of Mt. Decoeli Malachite stained basalt float returned 2.144% Cu, 3071ppb Ag (sample 1494944; Figure 14a); 6511ppm Cu, 2265ppb Ag (sample 1494919; Figure 14b). Further significant copper values are presented in Appendix VII and IX.

Figure 15 Narrow felsic dyke swarms are common in the Nikolai Formation on the Pacer property.

Younger intrusives are seen cross cutting and parallel to stratigraphy of the Nikolai and Dezadeash formations. Small dykes (Figure 15) are common and occur in swarms.

Mapping during the 2013 field season focused on contact relationships between peridotite and gabbro of the Kluane Mafic-Ultramafic Complex (PTrKp and PTrKg respectively) and basalt of the Nicolai Formation (UTrN) and sedimentary and metavolcanic rocks thought to host sulphide mineralisation. The Dezadeash Formation (JKD) is regionally known to be highly deformed yet unmetamorphosed (Eisbacher 1976). The level of deformation and metamorphism, shearing and alteration of sedimentary and metavolcanic units on the Pacer property seem to suggest a much older age than Cretaceous Dezadeash rocks display. It is suggested that sedimentary and metavolcanic units comprising 2013 filed mapped unit JKD1 may in fact represent Permian Station Creek and Hasen Formation rocks. Until detailed regional mapping and age dating can be completed in the area, it is unclear to which formation these rocks belong.

Regional aeromagnetic data published by the Yukon Geological Survey (Open File: 2010-21; Appendix VII) and first vertical derivative of the magnetic field (YGS Open File 2010-22; Appendix VII) display a significant magnetic anomaly occurring over the southern portion of the Pacer claim group. The anomaly correlates to what is presumed to be the base of the Nikolai formation where 2013 Pt and Pd values were found to be the highest. It is thought the anomaly reflects pyrrhotite-rich ultramafics such as sample JR13-10-1-4, not yet assayed (Figure 16).

Figure 17 shows a view SE from Decoeli Mt. with lithologic units annotated.

Figure 16 Sample JR-13-10-1-4 peridotite with pyrrhotite, possibly related to the Aeromag anomaly.

Figure 17 View SE from the summit of Decoeli Mt. showing lithologic units annotated.

POSSIBLE DEPOSIT MODELS

1) Noril'sk Style Flood Basalt Ni-Cu-PGE

Greene et al, 2004, compare the oceanic plateau Nikolai Flood Basalts to the near-age Siberian LIP which hosts the Noril'sk Ni-Cu-PGE deposit. The ultramafic intrusive mineralisation found in Yukon portions of the Wrangellia Terrane resembles the Noril'sk model. Regionally, the Kluane Front Range portion of Wrangellia Terrane has the necessary S-bearing sediments and mineralised olivine magmas to form a Noril'sk style deposit. The Wellgreen deposit contains high levels of rare PGE's similar to Noril'sk and exhibits similar mineral concentration in thin lobate sills.

The presence of ultramafic sills in what is presumed to be the basal Nikolai formation is encouraging for this deposit style as these ultramafics can be related to the fertile Kluane Ultramafic Suite. In the Wellgreen deposit the ultramafics sill into the Nikolai but have generally lost their Ni-Cu-PGE mineralisation to the lower sills in the mineral syncs of the sulphide rich Hasen Formation. (McCracken 2011). Confirming the presence of the Hasen Formation underneath the Nikolai would further support this model.

2) Juneau Style Lode Gold

The gold mineralisation, and its potential for regional scale, has similarities to mineralisation found in the Juneau Gold Belt of Alaska. As field work suggests on the Pacer Claim Group, structurally controlled gold is found proximal to chloritic shear zones in quartz carbonate stock works and discrete veins containing pyrite within greenschist facies. These same observations are noted in the Juneau gold Belt by Miller et al, 1995. In the northern portions of the Juneau Gold Belt, there have been interpretations that the greenschist facies is in fact part of the Wrangellia terrane (Miller et al 1995). The encouraging similarities in mineralisation, tectonics and environment warrant further investigation.

3) VMS

The Telluride Minfile occurrence number 115B008 of Volcanogenic Massive Sulphide (VMS) is 30km NW of Pacer along strike. This known deposit supports potential for the Wrangell lavas in the Kluane Front Ranges hosting VMS. A small lens of VMS was found in 2013 field mapping with no anomalous assay values. The presence of a barren and small VMS lens, while not exciting on its own, is encouraging and VMS should not be overlooked.

WORK COMPLETED IN 2013

During the 2013 field season, a total of 91 rock samples, 114 soils and 12 stream sediment samples were collected for assay in addition to preliminary property-scale lithological and structural mapping.

Bedrock Mapping and Rock Sampling

Mapping and rock sampling during the 2013 season was focused on the Nikolai Formation, Kluane Ultra Mafic Complex and mineralised contact areas, in addition to traverses toward the west to determine geological characteristics of sedimentary and metavolcanic units. Mapping and sampling were intended to replicate historic data; assess structural, lithological and alteration characteristics, and; define mineralised units. Representative rock samples were collected from variably altered and/or mineralised outcrop and subcrop encountered while mapping and prospecting. Approximately two (2) kilogram rock samples were placed in individual plastic sample bags with Acme Labs sample tags and security sealed at the sample station. Corresponding sample numbers were written on the outside of each sample bag for easy identification. Sample locations and type were recorded by GPS and documented in field notebooks. Sample locations were marked with flagging tape with sample number. All samples were bundled in security sealed rice bags and delivered to the Acme Analytical Labs facility in Whitehorse, YT by Longford Exploration crews.

Analysis was carried out at ISO9001:2008 certified Acme labs in Vancouver, BC after preparation at Acme's certified preparation facility in Whitehorse, YT. Rock sample preparation was carried out in accordance with procedure R200-250. Samples 1kg in size are crushed such that 80% pass through 10 mesh. A 250g aliquot is then split from the 10 mesh sample and pulverized so 85% pass through 200 mesh. Soil and sediment sample analysis was carried out in accordance with procedure SS80. Samples ½ kg or less in size were dried at 60°C before being sieved through 80 mesh.

Following this preparation, a 15g aliquot undergoes Aqua Regia digestion followed by ICP Mass Spectrometry analysis in accordance with analytical procedures 1F02 (37elements) and 1F08 (Pt, Pd). An over limit Cu sample underwent a secondary analytical procedure, 7TD1, using ICP emission spectrometry. Quality control at the laboratory is maintained by submitting blanks, standards and re-assaying duplicate samples from each analytical batch. Detection levels are available in the certificate of analysis in Appendix X. More information on analytical procedures is available directly from Acme Labs (www.acmelab.com).

Soil and Sediment Geochemistry

Preliminary soil samples were taken with approximate sample intervals of 100m along contour lines perpendicular to strike wherever possible. Samples were taken from the C-horizon when present and lower B-horizon using a Dutch style soil auger (Figure 18). Organic debris and coarse material were removed by hand before placing fine material in Kraft soil bags with a corresponding Acme Lab sample tag. Sample numbers were written on the outside of the bag along with project and name of sampler. Sample locations were documented and marked as described for rock samples above. Stream sediment samples were taken by hand without sieving from creek beds and placed in a cloth sediment bag. The sample location was recorded as with soil samples above. All soil and stream samples were sealed in the field and bundled in security sealed rice bags for delivery to the Acme Analytical Labs facility in Whitehorse by Longford Exploration crews.

Soil and sediment sample analysis was carried out in accordance with procedure SS80. Samples ½ kg or less in size were dried at 60°C before being sieved through 80 mesh. Following this preparation, a 15g aliquot undergoes Aqua Regia digestion followed by ICP Mass Spectrometry analysis in accordance with analytical procedures

1F02 (37elements) and 1F08 (Pt, Pd). Quality control at the laboratory is maintained by submitting blanks, standards and re-assaying duplicate samples from each analytical batch. Detection levels are available in the certificate of analysis in Appendix X. More information on analytical procedures is available directly from Acme Labs (www.acmelab.com).

Significant analytical data for the 2013 Pacer rock samples are presented in Table 4 below.

Table 4: Notable 2013 assay results for the Pacer Claim Group

SAMPLE	TYPE	CuPPM	ZnPPM	AgPPB	NiPPM	MnPPM	AuPPB	PdPPB	PtPPB
1494861	ROCK	19.02	35.2	35.2	72	5775	0.5	<10	<2
1494915	ROCK	192.8	439.4	468	8.9	340	572.6	<10	2
1494916	ROCK	1844.98	134.5	1303	72.1	1692	6.1	28	8
1494918	ROCK	313.11	127.4	534	25.2	405	425.8	<10	2
1494919	ROCK	6511.86	255.7	2265	43.4	724	33.3	<10	4
1494933	ROCK	2753.53	87.9	37	83.1	739	0.5	17	11
1494934	ROCK	2969.63	124.3	105	148.1	1058	2.3	15	6
1494935	ROCK	560.74	2260.1	336	21.6	159	180.4	<10	<2
1494936	ROCK	2542.15	2917.9	2668	13.1	623	141.8	<10	<2
1494939	ROCK	1190.77	412.2	74	86.5	771	3.2	22	13
1494941	ROCK	7.3	28.4	26	35.1	346	5	24	11
1494942	ROCK	21.59	45	23	53.1	639	9.6	13	16
1494944	ROCK	21440	409	3071	79.5	1780	99.8	<10	11
1494978	ROCK	21.29	44.8	785	36.7	244	2964.3	20	7
1494616	SED	290.94	81	133	58	699	9.1	59	6
1494637	SED	143.09	380.7	556	84.8	941	0.4	<10	<2
1494605	SOILS	53.22	50.6	151	45.9	669	27.2	<10	81
1494638	SOILS	282.84	114.5	316	64.1	719	5.9	14	6
1494640	SOILS	229.41	187.5	367	85.4	1189	6.3	20	7
1494650	SOILS	243.58	161.1	340	75	1077	5.6	16	<2
1494718	SOILS	93.49	233.2	1117	42	4575	1.2	<10	3
1494736	SOILS	167.36	413.6	784	110.9	860	0.4	<10	6
1494742	SOILS	179.5	474.6	631	129.6	833	0.6	<10	7

Complete rock, soil and stream sediment sample results may be found in Appendix IX and X.

Figure 18 Longford Exploration crews conducting prospect soil sampling in the Eastern portion of the Pacer Claim Group.

GEOLOGICAL CONCLUSIONS AND RECOMMENDATIONS

Field mapping, soil and stream sediment sampling and prospecting activities completed on the Pacer claim group in June 2013 confirm the occurrence of base and precious metal geochemical anomalies thought to represent mafic-ultramafic massive sulphide mineralisation, epithermal Cu-Au mineralisation or some combination thereof. Historic data and interpretations published in previous assessments compliment observations made during the 2013 field program, although it is believed improvements in understanding have been made.

Conclusions are as follows:

1) Mafic-ultramafic gabbro-peridotite dykes and sills thought to act as feeders for the Nikolai Formation greenstone present reasonable indicators that a Cu ± Ni ± PGE massive sulphide mineralised system is present, likely occurring near the basal contact of the Nikolai Formation;
2) Metavolcanic units to the west of the Nikolai Formation originally mapped as Upper Jurassic to Lower Cretaceous Dezadeash Formation may in fact represent the Permian Hasen and Station Creek Formations.

3) Gold mineralization is likely related to proximal shear zones throughout the property.

Considering observations presented above it is the opinion of the authors that a mafic-ultramafic mineralising system is present associated with gabbro-peridotite intrusions of the Kluane Mafic-Ultramafic Complex. For this reason, an extensive exploration program is recommended, as follows:

1. Complete property-scale 1:5000 geologic map with special consideration for age and facies characterisation of sedimentary and metavolcanic units found to the west as well as detailed structure mapping in order to define regional-scale contact relationships, understand both detailed nature of alteration and mineralisation and structural characteristics influencing mineralisation.
2. Complete detailed soil geochemistry survey with 50-meter line and sample spacing along the contact of the Nikolai Formation and sedimentary and metavolcanic units to the west in order to test historic soil data and attempt to define mineralised targets on trend and at depth.
3. Complete property-scale induced polarisation (IP) geophysical surveys in order to increase data resolution, test validity of anomalously high magnetic susceptibility over southern property area and define mineralised structures at depth.
4. Dependent upon the results of points (1) – (3) above, complete 4000 meters of diamond drilling for the purpose of targeting geophysical anomalies and the base of the Nikolai Formation.

CONCLUSIONS

Considering geological and mineralising characteristics found at the Pacer claim group in addition to proximity to developed infrastructure and associated lower costs of exploration, the Pacer claim group presents a unique opportunity to discover a new mineralised system in a relatively underexplored region of the Yukon. Encouraging historic and recent results as well as high magnetic geophysical anomalies coupled with known deposits, such as Wellgreen, associated with the Wrangel Terrane flood basalts give reason to believe Pacer is host to significant Au-Cu +/- Ni +/- PGE mineralisation.

STATEMENT OF QUALIFICATION

I, Quinn Patrick Harper, BSc., with business at PO Box 9, Arras, BC, certify that:

1. I graduated from Simon Fraser University in 2013 with a Bachelor of Science in Earth Sciences.

2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia as a *Geoscientist-in-Training* (GIT).

3. I have been employed off and on in exploration for base and precious metals as a geologist assistant in British Columbia since 2007, and as a geologist since 2013.

4. I supervised and participated in the Pacer 2013 exploration program and I am therefore personally familiar with the geology of the Pacer claim group and the work conducted in 2013.

5. I co-authored this report with Mr. James Rogers of Longford Exploration Services Ltd.

Dated this 2nd day of May, 2014

Quinn P. Harper, BSc.,

I, James Douglas Rogers, with business address at PO Box 1693 Dawson, YT, Y0B 1G0 certify that:

1. I am attending Simon Fraser University and am currently enrolled in the Bachelor of Science-Economic Geology Program with an expected graduation of 2015

2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia as a student member.

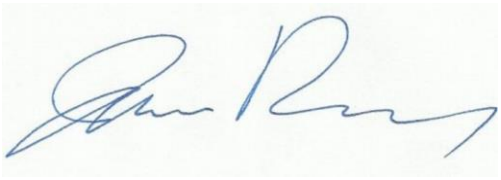
3. I have been employed in exploration for base and precious metals as a geologist assistant and project manager in Yukon, British Columbia, Quebec and Rwanda since 2007.

4. I supervised and participated in the Pacer 2013 exploration program and I am therefore personally familiar with the geology of the Pacer claim group and the work conducted in 2013.

5. I have a direct interest in the operations of Longford Exploration Services Ltd.: I am the Chief Executive Officer and President of the Company.

6. I co-authored this report with Mr. Quinn Harper of Rubicon Pacific Geological.

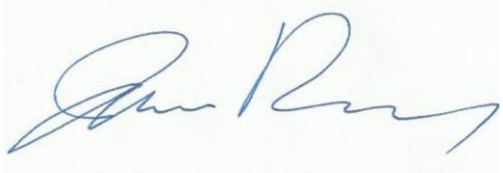
Dated this 2nd day of May, 2014



James Rogers
President and CEO
Longford Exploration Services LTD

STATEMENT OF EXPENDITURES

Item	Notes			Cost
Geologist	Q. P. Harper	June13-June21	9 days @$350/day	$ 2,940.00
Project Manager	J. Rogers	June1- June 28 Aug 9-11	30 days @$360/day	$ 10,800.00
Field Assistant	S. Murchison	June 1- June 23	24 days @$250/day	$ 6,000.00
Field Assistant	J. Marsh	Aug10-11	2 days @$250/day	$ 500.00
Helicopter Support	Trans North Haines Junction			$ 9,209.55
Food and Consumable Supplies	Food for crew in support of program, cooking gas, sample bags etc.			$ 1,419.36
Accommodation	Camp and accommodation rented from Dulac mining for June, 1 night at commercial hotel	June 1-June28		$ 3,147.00
Analytical	Acme Analytical			$ 6,377.64
Report Preparation	James Rogers Quinn Harper	Writing/editing	$3,000.00	$ 6,500.00
		Figure Preparation	$3,500.00	
		Map Making		
		Data Compilation		
		Writing/editing		
		Formatting		
			TOTAL	**$ 46,893.55**



REFERENCES

Colpron, M., and Nelson, J.L. 2011. A digital atlas of terranes for the northern cordillera [online]. Available from www.geology.gov.yk.ca [cited 20 October 2013].

Davidson, G.S. 1989. Summary report on the Ellen 1-8 Claims. Assessment Report 092766, Whitehorse Mining District, Whitehorse, Y.T.

Davidson, G.S. 1990. Summary report on the Colton 1-14 and Vail 1-30 Claims. Assessment Report 092830, Whitehorse Mining District, Whitehorse, Y.T.

Eisbacher, G.H. 1976. Sedimentology of the Dezadeash flysch and its implications for strike-slip faulting along the Denali Fault, Yukon Territory and Alaska. Canadian Journal of Earth Sciences, Vol. 13, **11**: pp. 1495-1512.

Greene, A.R., Coates S., J.S., Weiss, D., and Israel, S. 2004. Flood basalts of the Wrangellia Terrane, southwest Yukon: Implications for the formation of oceanic plateaus, continental crust and Ni-Cu-PGE mineralization. Yukon Exploration and Geology 2004, pp. 109-120.

Heon, D. 1990. Geological, geochemical and geophysical report on the Colton 1-14 and Vail 1-30 Claims. Assessment Report 092902, Whitehorse Mining District, Whitehorse, Y.T.

Israel, S., 2004. Geology of Southwestern Yukon (1:250,000 scale. Yukon Geological Survey. Open File 2004-16.

Israel, S., and Van Zeyl, D.P. 2005. Preliminary geology of the Quill Creek map area, southwest Yukon parts of NTS 115G/5, 6 and 12. Yukon Exploration and Geology 2004, pp. 129-146.

Kindle, E.D. 1953. Dezadeash map-area, Yukon. Geological Survey of Canada, Memoir 268 (Map 1019A).

McKracken, T. 2011. Technical report and resource estimate on the Wellgreen platinum-palladium-nickel-copper project, Yukon, Canada. Document 1155400200-REP-R0001-03, Prophecy Platinum, Vancouver, B.C.

Miller, L.D., Goldfarb, R.J., Snee L.W., Gent, C.A., and Kirkham, R.A. 1995. Structural geology, age and mechanics of gold vein formation at the Kensington and Jualin Deposits, Berneers Bay District, southeast Alaska. Economic Geology, **90**: 343-368.

Paulter, J. 2007. Geological and geochemical evaluation report on the Ellen Project. JP Exploration Services, Whitehorse, Y.T.

Rogers, R.S. 2012. 2011 geological and geochemical survey report Pacer Project. Solomon Resources, Vernon, B.C.

GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
YD90841	Quartz	Active	PACER	1	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90842	Quartz	Active	PACER	2	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90843	Quartz	Active	PACER	3	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90844	Quartz	Active	PACER	4	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90845	Quartz	Active	PACER	5	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90846	Quartz	Active	PACER	6	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90847	Quartz	Active	PACER	7	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90848	Quartz	Active	PACER	8	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90849	Quartz	Active	PACER	9	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90850	Quartz	Active	PACER	10	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90851	Quartz	Active	PACER	11	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90852	Quartz	Active	PACER	12	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90853	Quartz	Active	PACER	13	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90854	Quartz	Active	PACER	14	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
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YD90858	Quartz	Active	PACER	18	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90859	Quartz	Active	PACER	19	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90860	Quartz	Active	PACER	20	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90861	Quartz	Active	PACER	21	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90862	Quartz	Active	PACER	22	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90863	Quartz	Active	PACER	23	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
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GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
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YD90874	Quartz	Active	PACER	34	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90875	Quartz	Active	PACER	35	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90876	Quartz	Active	PACER	36	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90877	Quartz	Active	PACER	37	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90878	Quartz	Active	PACER	38	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90879	Quartz	Active	PACER	39	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90880	Quartz	Active	PACER	40	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90881	Quartz	Active	PACER	41	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90882	Quartz	Active	PACER	42	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90883	Quartz	Active	PACER	43	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90884	Quartz	Active	PACER	44	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90885	Quartz	Active	PACER	45	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90886	Quartz	Active	PACER	46	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90887	Quartz	Active	PACER	47	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90888	Quartz	Active	PACER	48	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90889	Quartz	Active	PACER	49	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90890	Quartz	Active	PACER	50	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90891	Quartz	Active	PACER	51	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90892	Quartz	Active	PACER	52	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90893	Quartz	Active	PACER	53	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90894	Quartz	Active	PACER	54	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90895	Quartz	Active	PACER	55	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD90896	Quartz	Active	PACER	56	Longford Exploration Services Ltd. - 100%	09-23-2010	11/05/2013	Whitehorse
YD18182	Quartz	Active	PACER	57	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18183	Quartz	Active	PACER	58	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18184	Quartz	Active	PACER	59	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18185	Quartz	Active	PACER	60	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18186	Quartz	Active	PACER	61	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18187	Quartz	Active	PACER	62	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18188	Quartz	Active	PACER	63	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18189	Quartz	Active	PACER	64	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse

GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
YD18190	Quartz	Active	PACER	65	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18191	Quartz	Active	PACER	66	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18192	Quartz	Active	PACER	67	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18193	Quartz	Active	PACER	68	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18194	Quartz	Active	PACER	69	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18195	Quartz	Active	PACER	70	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18196	Quartz	Active	PACER	71	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18197	Quartz	Active	PACER	72	Longford Exploration Services Ltd. - 100%	07-22-2011	11/05/2013	Whitehorse
YD18198	Quartz	Active	PACER	73	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YD18199	Quartz	Active	PACER	74	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YD18200	Quartz	Active	PACER	75	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YD18201	Quartz	Active	PACER	76	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YD18202	Quartz	Active	PACER	77	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YD18203	Quartz	Active	PACER	78	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YD18204	Quartz	Active	PACER	79	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YD18205	Quartz	Active	PACER	80	Longford Exploration Services Ltd. - 100%	08/02/2011	11/05/2013	Whitehorse
YE33064	Quartz	Active	PACER	100	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33065	Quartz	Active	PACER	101	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33066	Quartz	Active	PACER	102	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33067	Quartz	Active	PACER	103	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33068	Quartz	Active	PACER	104	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33069	Quartz	Active	PACER	105	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33070	Quartz	Active	PACER	106	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33071	Quartz	Active	PACER	107	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33072	Quartz	Active	PACER	108	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33073	Quartz	Active	PACER	109	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33074	Quartz	Active	PACER	110	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33075	Quartz	Active	PACER	111	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33076	Quartz	Active	PACER	112	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33077	Quartz	Active	PACER	113	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33078	Quartz	Active	PACER	114	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33079	Quartz	Active	PACER	115	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse

GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
YE33080	Quartz	Active	PACER	116	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33081	Quartz	Active	PACER	117	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33082	Quartz	Active	PACER	118	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33083	Quartz	Active	PACER	119	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33084	Quartz	Active	PACER	120	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33087	Quartz	Active	PACER	123	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33088	Quartz	Active	PACER	124	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33089	Quartz	Active	PACER	125	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33090	Quartz	Active	PACER	126	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33091	Quartz	Active	PACER	127	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33092	Quartz	Active	PACER	128	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33093	Quartz	Active	PACER	129	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33094	Quartz	Active	PACER	130	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33095	Quartz	Active	PACER	131	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33096	Quartz	Active	PACER	132	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33097	Quartz	Active	PACER	133	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33098	Quartz	Active	PACER	134	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33099	Quartz	Active	PACER	135	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33410	Quartz	Active	PACER	136	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33411	Quartz	Active	PACER	137	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33412	Quartz	Active	PACER	138	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33413	Quartz	Active	PACER	139	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33414	Quartz	Active	PACER	140	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33415	Quartz	Active	PACER	141	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33416	Quartz	Active	PACER	142	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33417	Quartz	Active	PACER	143	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33418	Quartz	Active	PACER	144	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33419	Quartz	Active	PACER	145	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33420	Quartz	Active	PACER	146	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33421	Quartz	Active	PACER	147	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33422	Quartz	Active	PACER	148	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33423	Quartz	Active	PACER	149	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse

GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
YE33424	Quartz	Active	PACER	150	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33425	Quartz	Active	PACER	151	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33426	Quartz	Active	PACER	152	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33427	Quartz	Active	PACER	153	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33428	Quartz	Active	PACER	154	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33429	Quartz	Active	PACER	155	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33430	Quartz	Active	PACER	156	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33431	Quartz	Active	PACER	157	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33432	Quartz	Active	PACER	158	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33433	Quartz	Active	PACER	159	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33434	Quartz	Active	PACER	160	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33435	Quartz	Active	PACER	161	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33436	Quartz	Active	PACER	162	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33437	Quartz	Active	PACER	163	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33438	Quartz	Active	PACER	164	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33439	Quartz	Active	PACER	165	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33440	Quartz	Active	PACER	166	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33441	Quartz	Active	PACER	167	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33442	Quartz	Active	PACER	168	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33443	Quartz	Active	PACER	169	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33444	Quartz	Active	PACER	170	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33445	Quartz	Active	PACER	171	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33446	Quartz	Active	PACER	172	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33447	Quartz	Active	PACER	173	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33448	Quartz	Active	PACER	174	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33449	Quartz	Active	PACER	175	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33450	Quartz	Active	PACER	176	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33451	Quartz	Active	PACER	177	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33452	Quartz	Active	PACER	178	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33453	Quartz	Active	PACER	179	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33454	Quartz	Active	PACER	180	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33455	Quartz	Active	PACER	181	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse

GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
YE33456	Quartz	Active	PACER	182	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33457	Quartz	Active	PACER	183	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33458	Quartz	Active	PACER	184	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33459	Quartz	Active	PACER	185	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33460	Quartz	Active	PACER	186	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33461	Quartz	Active	PACER	187	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33462	Quartz	Active	PACER	188	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33463	Quartz	Active	PACER	189	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33464	Quartz	Active	PACER	190	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33465	Quartz	Active	PACER	191	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33466	Quartz	Active	PACER	192	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33467	Quartz	Active	PACER	193	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33468	Quartz	Active	PACER	194	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33469	Quartz	Active	PACER	195	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33470	Quartz	Active	PACER	196	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33471	Quartz	Active	PACER	197	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33472	Quartz	Active	PACER	198	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33473	Quartz	Active	PACER	199	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33474	Quartz	Active	PACER	200	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33475	Quartz	Active	PACER	201	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33476	Quartz	Active	PACER	202	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33477	Quartz	Active	PACER	203	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33478	Quartz	Active	PACER	204	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33479	Quartz	Active	PACER	205	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33480	Quartz	Active	PACER	206	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33481	Quartz	Active	PACER	207	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33482	Quartz	Active	PACER	208	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33483	Quartz	Active	PACER	209	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33484	Quartz	Active	PACER	210	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33485	Quartz	Active	PACER	211	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33486	Quartz	Active	PACER	212	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33487	Quartz	Active	PACER	213	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse

GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
YE33488	Quartz	Active	PACER	214	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33489	Quartz	Active	PACER	215	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33490	Quartz	Active	PACER	216	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33491	Quartz	Active	PACER	217	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33492	Quartz	Active	PACER	218	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33493	Quartz	Active	PACER	219	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33494	Quartz	Active	PACER	220	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33495	Quartz	Active	PACER	221	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33496	Quartz	Active	PACER	222	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33497	Quartz	Active	PACER	223	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33498	Quartz	Active	PACER	224	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33499	Quartz	Active	PACER	225	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33500	Quartz	Active	PACER	226	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33501	Quartz	Active	PACER	227	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33502	Quartz	Active	PACER	228	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33503	Quartz	Active	PACER	229	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33504	Quartz	Active	PACER	230	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33505	Quartz	Active	PACER	231	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33506	Quartz	Active	PACER	232	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33507	Quartz	Active	PACER	233	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33508	Quartz	Active	PACER	234	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33509	Quartz	Active	PACER	235	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33510	Quartz	Active	PACER	236	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33511	Quartz	Active	PACER	237	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33512	Quartz	Active	PACER	238	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33513	Quartz	Active	PACER	239	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33514	Quartz	Active	PACER	240	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33515	Quartz	Active	PACER	241	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33516	Quartz	Active	PACER	242	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33517	Quartz	Active	PACER	243	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33518	Quartz	Active	PACER	244	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33519	Quartz	Active	PACER	245	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse

GRANT No.	TENURE TYPE	TENURE STATUS	CLAIM NAME	No.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	DISTRICT NAME
YE33520	Quartz	Active	PACER	246	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33521	Quartz	Active	PACER	247	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33522	Quartz	Active	PACER	248	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33523	Quartz	Active	PACER	249	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33524	Quartz	Active	PACER	250	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33525	Quartz	Active	PACER	251	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33526	Quartz	Active	PACER	252	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33527	Quartz	Active	PACER	253	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33528	Quartz	Active	PACER	254	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse
YE33529	Quartz	Active	PACER	255	Longford Exploration Services Ltd. - 100%	05/11/2011	11/05/2013	Whitehorse

Yukon
Energy, Mines and Resources

Office Use Only

QUARTZ MINING ACT FORM 12 SECTION 55

APPLICATION TO GROUP MINERAL CLAIMS

Office Date Stamp

WHITEHORSE MINING DISTRICT

I, (We) the undersigned owners or agent(s) of the owners of following mineral claims.

(Additional sheets or an appendix may be used) (Claim names and grant numbers to be listed in sequence eg. TOM 1-40, YC10001 - YC10040)

GRANT NUMBER	CLAIM NAME	MAP SHEET
YD90841-YD90996	Pacer 1–56	115A13
YD18182-YD18205	Pacer 57–80	115A13
YE33064-YE33084	Pacer 100–120	115A13
YE33087-YE33099	Pacer 123-135	115A13
YE33410-YE33529	Pacer 136-255	115A13

Give notice of intention to group the said claims for the performance of work and do hereby apply under the provisions of section 55 of the *Quartz Mining Act* for a certificate in form 6.

I (We) hereby certify that the above claims are adjoining as shown on the attached sketch

Dated at VANCOUVER, BC

This 19 day of October, 2013

Applicant(s)

Client I.D. Number

Access to Information and Protection of Privacy Act

The personal information requested on this form is collected under the authority of and used for the purpose of administering the *Quartz Mining Act.* Questions about the collection and use of this information can be directed to the Mining Recorders Office, Mineral Resources, Department of Energy, Mines and Resources, Yukon Government, Box 2703, Whitehorse, Yukon Territory, Y1A 2C6 (867) 667-3190

QUARTZ REG. DOCUMENT

NUMBER RW04418

SECURITY AGREEMENT
QUARTZ MINING ACT, s.16(1)

This Agreement is made between

Longford Explorations Services Ltd., as represented by James Rogers
(the "claim holder")

and

the Government of Yukon, as represented by the mining recorder for the Whitehorse Mining District, appointed pursuant to the *Quartz Mining Act*;
(the "mining recorder")

(together the "Parties")

in Whitehorse Yukon.

WHEREAS

A. Longford Explorations Services Ltd. is the lawful holder of PACER 76-80 YD18201-YD18205 Quartz claims (the "claims") located in the Whitehorse mining district and recorded under the *Quartz Mining Act*, S.Y. 2003, c.14;

B. Government of Yukon is the lawful owner/occupant of Disposition No. 012-0983 (parcel description) (the "land"), located in Haines Junction, Yukon;

C. the claims referred to in paragraph A lie wholly or partially within the boundaries of the land described in paragraph B; and

D. Subsection 16(1) of the *Quartz Mining Act* provides that no person shall enter on for mining purposes or mine on lands owned or lawfully occupied by another person until adequate security has been given, to the satisfaction of a mining recorder, for any loss or damage that may be thereby caused.

The Parties agree as follows.

1. The claim holder agrees that s/he shall not
   (a) enter on the land for mining purposes, excepting use of the existing road, or mine on the land; or
   (b) authorize any other person to enter on the land for mining purposes, excepting use of the existing road, or mine on the land

   without prior notice being given to the mining recorder.

2. As long as the claim holder refrains from
   (a) entering on the land for mining purposes, excepting use of the existing road, or mining on the land; or

(b) authorizing any other person to enter on the land for mining purposes, excepting use of the existing road, or mining on the land

the mining recorder shall be satisfied that the amount of security to be paid by the claim holder for any loss or damage that may be suffered by the land owner/occupant, pursuant to s.16(1) of the *Quartz Mining Act,* shall be zero dollars.

3. The Parties agree that this Agreement shall come into effect on the day of signing and if signed on different days, on the latter of the days signed, and shall remain in effect as long as the mining recorder is of the view that the claim holder has not
   (a) entered on the land for mining purposes or mined on the land; or
   (b) authorized any other person to enter on the land for mining purposes or to mine on the land.

The Parties have executed this Agreement on the dates noted below.

For the Claimholder

Date 27 May '13

JAMES ROGERS
Print Name LONGFORD EXPLORATION

For the Government of Yukon

Date 29 May '13

Mining Recorder

Glenna Southwick
Print Name

YUKON MINFILE
YUKON GEOLOGICAL SURVEY
WHITEHORSE

MINFILE: 115A 036
NAME: ARCHIBALD
STATUS: SHOWING
NTS MAP SHEET: 115A\13
LATITUDE: 60º 46' 37" N
LONGITUDE: 137º 45' 4" W
TECTONIC ELEMENT: GRAVINA-NUTZOTIN TERRANE
DEPOSIT TYPE: Au-Quartz Veins

OTHER NAME(S): GREEN, COLTON, JS
MAJOR COMMODITIES: GOLD
MINOR COMMODITIES: COPPER
TRACE COMMODITIES:

CLAIMS (PREVIOUS & CURRENT)

COLTON, GREEN, VAIL

WORK HISTORY

Staked as JS cl (Yl0487) in Sep/66 by Golden Gate EL following an airborne magnetometer survey flown in August. Restaked as Green cl (YB8613) in Oct/87 by B. Lueck and as Colton cl (YB24624) in Dec/88 by Harjay EL, which did mapping and prospecting later in the year and tied on Vail cl (YB25501) to the north in Mar/89.

Noranda ECL prospected and mapped on the Vail cl in 1989 and both claim blocks were transferred to Noranda in Jan/90. Noranda conducted mapping, soil sampling and a magnetometer survey in 1990, and relinquished its option in 1991.

D. Makkonen staked Ruby cl 1-4 (YC08481) 2 km to the north in Dec/97.

GEOLOGY

Gold occurs with pyrrhotite and chalcopyrite in a quartz-carbonate stockwork cutting rusty siliceous argillite in the hanging wall of a serpentinized gabbro-peridotite sill. The sill is about 150 m thick and at least 4 km long. A specimen from the main showing assayed 19.7 g/t Au, and a quartz-sericite vein nearby contained 2.5% Cu and 1.5 g/t Au. The lower chilled margin of the sill contains visible sulphides and anomalous copper, chromium and nickel.

High grade copper was found in foliated greenstone boulders in the creek at the south end of the property. Specimens assayed up to 6.3% Cu.

Noranda's work in 1990 outlined a gold soil anomaly 1.5 km long and 20 wide, with values up to 1270 ppb Au. Within this area, 2 zones of >200 ppb Au coincided with a 100 m wide zone of anomalous copper. Rock samples assayed up to 3.1 g/t Au and 2.3% Cu.

REFERENCES

GOLDEN GATE EXPLORATIONS LTD, Sep/66. Prospectus Report by J. Sullivan.

HARJAY EXPLORATION LTD, 1989. Assessment Report #092830 by G.S.Davidson.

NORANDA EXPLORATION CO. LTD, Nov/90. Assessment Report #092902 by D. Heon.

YUKON MINING AND EXPLORATION OVERVIEW 1989, p. 10.

YUKON MINFILE
YUKON GEOLOGICAL SURVEY
WHITEHORSE

MINFILE: 115A 040
NAME: DECOELI
STATUS: SHOWING
TECTONIC ELEMENT: WRANGELLIA TERRANE
DEPOSIT TYPE: Gabbroid Cu-Ni-PGE

NTS MAP SHEET: 115A\13
LATITUDE: 60º 48' 45" N
LONGITUDE: 137º 49' 45" W

OTHER NAME(S): KLOO, GREEN, BESTOS, REX
MAJOR COMMODITIES:
MINOR COMMODITIES:
TRACE COMMODITIES:

CLAIMS (PREVIOUS & CURRENT)

VAIL

WORK HISTORY

Staked as Kloo cl (Y3599) in Mar/66 by C. Eminger and restaked as Rex cl (Yl2479) in Apr/67 by Eminger and C. Ford. The Bestos cl (Y24061) were tied on to the southeast in Mar/68 by R. Mazur.

Restaked as Green cl (YB8613) in Oct/87 by B. Lueck and again as Vail cl (YB25501) by G. Davidson in Mar/89. Noranda ECL mapped and prospected in 1989 and the claims were transferred to Noranda in Jan/90. Noranda continued prospecting and mapping and performed geochemical and magnetometer surveys in 1990, but relinquished its option in Feb/91.

GEOLOGY

The claims cover a serpentinized peridotite-dunite-gabbro sill and smaller gabbro sills which cut argillite and dark green metavolcanic rocks of Triassic age on the east slope of Mt Archibald. The footwall contact of the main sill is serpentinized, and has an orientation of 157/42°SW. A chilled marginal gabbro phase at the base contains minor sulphides. Harjay obtained nickel values as high as 2480 ppm from the peridotite and gabbro.

Mineralization was found in two locations above the main sill. (1) Chalcopyrite and pyrrhotite occur in rusty silicified argillite in the hanging wall of a gabbro sill which strikes northwest and dips about 45° southwest. H. Copland obtained a gold assay of approximately 17 g/t from this zone. (2) Boulders of dark green metavolcanic rock in a creek draining the south end of the claims are cut by irregular quartz veins up to 5 cm wide, and contain abundant disseminated chalcopyrite. Similar quartz veins outcropping nearby contain no copper. A specimen of the mineralized float assayed 2.42% Cu.

REFERENCES

BREMNER, T.J., Sep/89. Field notes based on two property visits.

DODDS, C.J., AND CAMPBELL, R.B., 1992. Overview, legend and mineral deposit tabulations for Geological Survey of Canada Open Files 2188, 2189, 2190 and 2191.

NORANDA EXPLORATION CO. LTD, Nov/90. Assessment Report #092902 by D. Heon.

YUKON MINFILE
YUKON GEOLOGICAL SURVEY
WHITEHORSE

MINFILE: 115A 041
NAME: KLOO
STATUS: DRILLED PROSPECT
TECTONIC ELEMENT: WRANGELLIA TERRANE
DEPOSIT TYPE: Volcanogenic Massive Sulphide - type not determined

NTS MAP SHEET: 115A\13
LATITUDE: 60º 51' 31" N
LONGITUDE: 137º 57' 54" W

OTHER NAME(S): ELLEN
MAJOR COMMODITIES: COPPER
MINOR COMMODITIES: SILVER, GOLD, MOLYBDENUM, NICKEL
TRACE COMMODITIES: MERCURY

CLAIMS (PREVIOUS & CURRENT)

ELLEN, JUDE, M AND MC, MC

WORK HISTORY

Staked as Jude cl 1-4 (65357) in May/53 by R. Reber and optioned to Hudson Bay Mining and Smelting Company Ltd in September of that year. Hudson Bay carried out EM surveying, drilled five holes (323 m) and built a tote road in 1954.

Restaked as MC cl 1-4 (77812) in May/62 by T. Worbetts and optioned briefly by E. Kreuger in 1963. In 1965 Canadian Barranca Mines Ltd optioned the claims, staked M and MC cl 5-28 (92177 and Y9065) in July/65 to surround the original claims, improved the road, carried out geochemical soil sampling, geological mapping and drilled 3 holes (100.9 m) in 1966. The company carried out magnetometer and EM-16 surveying in 1967 and 1969 and drilled 4 holes (333.1 m) later in 1969.

Restaked as Ellen cl 1-5 (YA97362) in May/87 by R. Stack who carried out prospecting and geochemical rock sampling later in the year. In 1989 Stack carried out blast trenching and prospecting. G.S. Davidson staked Ellen cl 6-8 (YB26797) in Sep/89 and R. Stack staked Ellen cl 9-27 (YB27078) in Dec/89. The property was inspected by Noranda Exploration Company Ltd and Total Energold Corporation late in 1989, both of which carried out rock geochemical sampling. In 1990, Placer Dome Exploration Ltd visited and sampled the property in June and later in the year Stack carried out magnetometer and EM surveying , prospecting, blast trenching and Davidson staked Ellen cl 28-31 (YB35480) in Oct/90. Stack staked Ellen cl 32-37 (YB36844) in May/92.

In Aug/93, Probe Resources Ltd optioned the Ellen claims and carried out geochemical rock and soil sampling and geophysical surveying later that year. During June and Jul/95, Probe carried out road work and drilled 5 holes (457.2 m) and Stack carried out blast trenching southeast of the main showing.

G. Davidson tied on the Preston cl 1-37 (YB38265) to the northeast in Sep/93; R. Stack tied on the Brand cl 1-26 (YB46491) in Oct/93; and G. Davidson staked Jim cl 1-17 (YB57649) 4.5 km to the northeast in Jun/95.

In 2001, Stack and B. Harris of Midnight Mines Ltd carried out prospecting, hand trenching and geochemical rock sampling of areas of known mineralization and investigated the upland plateau area northwest of the main showing. A compilation report detailing all previous exploration carried out on the claim block was prepared at the end of the exploration season.

In 2002, additional prospecting, hand trenching and sampling was carried out in conjunction with a property examination completed by Expatriate Resources Ltd and during a subsequent visit by Stack and Harris.

GEOLOGY

The property is primarily underlain by a thick layered felsic to mafic volcanic sequence consisting of andesite flows, andesitic and mafic tuffs, and thin layers of tuffaceous argillite assigned to the Upper Triassic Nicolai Assemblage (unit uTrN), (Gordey and Makepeace, 2003). The volcanics have been variably foliated forming quartz sericite schist and narrow bands of black chlorite schist. Epidote and quartz banding is common and a few serpentine bands occur in the more mafic sections. Diorite, andesite and fine grained peridotite sills occur within the volcanics. The sills are emplaced along thrust faults at the base of the volcanic sequence. To the south, the volcanics are conformably overlain by limestone and schists containing sections of green tuffaceous volcanics assigned to the Upper Jurassic to Lower Cretaceous Dezadeash Assemblage (unit JKD1).

Mineralization at the main showing is exposed on both sides of a gully and consists of intense malachite staining and massive chalcopyrite – pyrrhotite stringers hosted in a series of thick andesite flows and tuffs. Stringer zones have an associated hydrothermal alteration assemblage that commonly consists of massive dark green to black chlorite proximal to intense areas of stringer mineralization and are up to 30 centimeters thick. Pervasive weak chlorite and sericite alteration occurs up to 10 meters around the stringer zones while patches of pervasive epidote alteration with associated quartz – carbonate – epidote veinlets occur over the extent of the showing (50 m long). Widely divergent attitudes in two outcrops on either side of the gully (northwest striking, dipping 35˚ south-west in the north bank and northeast striking, dipping 45˚ southeast in the south bank) suggest a strong fault or fold axis underlies the creek.

The east side of the showing consists of three distinct layers of stringer mineralization. The lowest one is about three meters thick while the upper two are approximately one meter thick. The west side of the main showing consists of a single ten meter thick zone of chalcopyrite stringer mineralization.

Surface sampling in 1966 returned 3.0% Cu across a width of 9.1 m on the north side of the creek gully and 2.0% Cu across 4.6 m for the south side of the creek gully. The Hudson Bay drilling is rumored to have intersected only minor copper mineralization in graphitic shale.

Analysis of samples of the 1966 drill core returned 3.15% Cu over 5.2 m from Hole MC-1, 1.64% Cu over 10.4 m (including 6.4 m of 2.20 % Cu) in Hole MC-2 and 1.20% Cu over 5.2 m in Hole MC-3.

In 1969 Hole MC-7 intersected 1.5 m of 0.8% Cu below the 1966 holes. Holes MC-5 and 6, stepped out 61 m along strike to the northwest from the 1966 holes, cut 0.9 m of 1.1% Cu and 4.3 m of 0.6% Cu respectively. Core recovery was poor in Holes 5 and 6. Hole MC-4 tested an EM and magnetic anomaly to the east of the main showing and intersected graphite schist and two bands of serpentine, 7.9 m and 9.4 m thick, containing nickel values up to 0.11%.

Blast trenching in 1989 exposed additional massive chalcopyrite in two layers of shale interbedded with andesitic tuff and banded siliceous tuff, and a third pyritic sulphide layer in the metavolcanic rocks below over a strike length of approximately 100 m. The shale layers strike

110˚ and dip 23˚ south and contain disrupted quartz veinlets. A 2.0 m chip sample across the uppermost layer returned 8.55% Cu and 789 ppb Au. Specimens containing up to 990 ppb Au, 10.1 g/t Ag, 126 ppm Mo and 2 900 ppb Hg were also reported.

A fourth massive chalcopyrite layer was found in 1990 and disseminated sulphides were found over a thickness of 152.4 m. The VLF survey outlined three conductors southeast of the main showing.

The 1993 exploration outlined a strong copper geochemical anomaly coincident with HLEM and VLF-EM conductors. In 1995 Probe Resources drilled two holes on the west side of the main showing, 1 hole on the east side of the showing and two holes approximately 200 m northeast of the main showing. Hole 95-1 drilled on the west side of the main showing returned 5.5 m of 1.94% Cu. The other two holes drilled on the main showing returned several intersections, 3 to 7 m in length which returned 0.5 to 1.96% Cu. The two holes drilled to the northeast intersected a serpentinite sill approximately 30 m thick, containing disseminated chalcopyrite and pyrrhotite. Hole 95-4 returned 32 m grading 0.18% Ni.

Exploration in 2001 and 2002 along strike and up dip of the mineralized horizon, revealed addition chalcopyrite stringer mineralization with associated quartz – chalcopyrite veins up to 300 meters to the northwest and 200 meters to the southeast. Although these zones are less than a meter thick and less intensely mineralized than the main showing, they demonstrate some continuity to the mineralization. Several geologists who have visited the property have proposed that the style of mineralization observed is consistent with that of a copper rich sulphide stringer zone to a potential Besshi style massive sulphide occurrence. No analytical results from either the 2001 or 2002 sampling programs were submitted for assessment purposes.

REFERENCES

CANADIAN BARRANCA MINES LTD, Aug/69. Assessment Report #060731 by J.G. Baird.

CANADIAN BARRANCA MINES LTD, Dec/69. Assessment Report #091313 by Unknown.

GEOLOGICAL SURVEY OF CANADA, Paper 67-40, p. 54.

GEOLOGICAL SURVEY OF CANADA, 1982. Geology, South western Dezadeash, Yukon Territory, by R.B. Campbell and C.J. Dodds. Open File 831, geological map, scale 1:120 000.

GORDEY, S.P. and MAKEPEACE, A.J., 2003. Yukon Digital Geology, version 2.0, S.P Gordey and A.J. Makepeace (comp); Geological Survey of Canada, Open File 1749 and Yukon Geological Survey, Open File 2003-9(D).

MIDNIGHT MINES LTD, Apr/2002. Assessment Report #094258 by S.P. Craig.

MIDNIGHT MINES LTD, Jun/2003. Assessment Report #094414 by S.P. Craig.

PROBE RESOURCES LTD, Jan/94. Assessment Report #093174 by G.S. Davidson.

PROBE RESOURCES LTD, Nov/95. Assessment Report #093356 by G.S. Davidson.

STACK, R., Nov/88. Assessment Report #092589 by G.S. Davidson.

STACK, R., Nov/89. Assessment Report #092766 by G.S. Davidson.

STACK, R., Jan/91. Assessment Report #092921 by G.S. Davidson.

YUKON EXPLORATION 1989, p. 99.

YUKON EXPLORATION & GEOLOGY 1995, p. 12, 16.

YUKON MINFILE
YUKON GEOLOGICAL SURVEY
WHITEHORSE

MINFILE: 115A 053
NAME: BH
STATUS: UNKNOWN
TECTONIC ELEMENT: WRANGELLIA TERRANE
DEPOSIT TYPE: Unknown

NTS MAP SHEET: 115A\13
LATITUDE: 60º 50' 51" N
LONGITUDE: 137º 50' 43" W

OTHER NAME(S):
MAJOR COMMODITIES:
MINOR COMMODITIES:
TRACE COMMODITIES:

CLAIMS (PREVIOUS & CURRENT)

WORK HISTORY

Staked as BH cl (YB26757) in Sep/89 by B. Hakansson.

GEOLOGY

The claims cover Pennsylvanian to Triassic greenstone and green schist, and Upper Triassic to Cretaceous fine-grained clastic rocks.

REFERENCES

YUKON MINFILE
YUKON GEOLOGICAL SURVEY
WHITEHORSE

MINFILE: 115B 008
NAME: TELLURIDE
STATUS: DRILLED PROSPECT
TECTONIC ELEMENT: WRANGELLIA TERRANE
DEPOSIT TYPE: Volcanogenic Massive Sulphide - type not determined

NTS MAP SHEET: 115B\16
LATITUDE: 60º 53' 16" N
LONGITUDE: 138º 18' 24" W

OTHER NAME(S):
MAJOR COMMODITIES: ZINC, COPPER
MINOR COMMODITIES: PALLADIUM, PLATINUM, LEAD, SILVER
TRACE COMMODITIES:

CLAIMS (PREVIOUS & CURRENT)

BUC, CUB, ELI, ELLIAS, GAB, GLACIER, JASPER, JEN, KLOO, KLUANE, LEE, ROG, SUGAR, TEL, TELL, ULT, ULTRA

WORK HISTORY

The presence of gold and copper mineralization was first noted in this area by the Geological Survey of Canada (GSC) in 1904.

Claim records indicate that the eastern most occurrence location was staked as Cub cl 1-56 (70980) in Sep/55 by Gaymont Prospecting Syndicate (which included Teck-Hughes Gold Mines Ltd and Iso Uranium). The syndicate also staked Lee cl 1-24 and 25-32 (71118) contiguously to the east and west at that time, carried out prospecting and constructed a tote road to the property in Nov/55. Conwest Exploration Ltd staked Ellias cl 1-8 and Kloo cl 1-14 (71206) to the northwest and Newkirk Mining Corporation staked Kluane cl 1-8 and 9-18 (71228) to the east and northeast during Sep/55. In 1956, Gaymont carried out geophysical resisitivity and gravity surveying and drilled three holes (107.9 m), all of which were abandoned in deep overburden due to broken casings.

Restaked as Glacier cl 1-32 (75802) in Jun/61 by Canadian Exploration Ltd, which carried out Turam EM geophysical surveying later that year and drilled two rotary holes (about 122 m) in 1962. Restaked as Jasper cl 3-8 (90307) in Jul/64 by Meridian Syndicate (Canadian Exploration Ltd, Noranda Exploration Company and Homestake Mineral Development Company).

Restaked as Cub cl 1-24 (92311) in Jul/65 by Coranex Ltd (Frobex Ltd, McIntyre Porcupine Mines Ltd, Inco, Dome Mines Ltd and Denison Mines Ltd), which added Cub cl 25-32 (92864) to the northeast in Sep/65; staked Tel cl 1-26 (Y4027) In Mar/66 to surround the existing claims on three sides; carried out Turam EM surveying in Jul/66; and carried out geochemical rock, silt and soil sampling in 1967. The original occurrence was partially restaked when Coranex added Buc cl 1-6 (Y38257) in Sep/69 to the three remaining Cub claims.

The property was optioned by Atlas Explorations Ltd in 1970, which staked Rog cl 1-40 (Y53030) in Jun/70 to surround the existing claims and carried out limited EM geophysical surveying, geochemical silt and soil sampling, prospecting and drilled 3 holes (216 m) of which one was lost in overburden. Dynasty subsequently dropped the option.

Restaked as Tell cl 1-6 (YA8239) in Sep/76 by Archer, Cathro and Associates Ltd on behalf of Aquitaine Oil Company of Canada Ltd, which added Tell cl 7-62 (YA8912) in May/77 and carried out prospecting and geochemical sampling later in the year.

Restaked as Ultra cl 1-20(YA96740) in Jan/87 by Kluane Joint Venture (All-North Resources Ltd and Chevron Minerals Ltd) and optioned to Nordac Mining Corporation, which subsequently changed its name to Big Creek Resources Ltd. Big Creek carried out geological mapping, prospecting and geochemical rock and soil sampling in 1987. Reed Creek Joint Venture (Fleck Resources Ltd, All-North Resources Ltd and Chevron Minerals Ltd) tied on Sugar cl 1-25 (YA97183) to the north and east in May/87 and carried out geological mapping, prospecting and geochemical rock and soil sampling later in the year. Archer, Cathro and Associates (1981) Ltd added Ulltra cl 21-26 (YB27505) in May/90.

In Dec/2000, T. Morgan staked Ultra cl 1-30 (YC19001) to the north of the westernmost occurrence location (Telluride/Frohberg showing). The following year, in Feb/01, V. Matkovich staked Ultra cl 37 -72 (YC19098) to cover the easternmost (float occurrence), Gab cl 1-47 (YC19045) to cover the headwaters of the creeks to the southeast and northwest and Eli cl 11-14 (YC18433) between these two groups. Later in 2001, Morgan carried out prospecting, geochemical rock sampling, magnetometer surveying and staked Ult cl 1 (YC19376, Ultra cl 73-80 (YC19398), Tell cl 1-4 (YC19406) and Ultra cl 81-90 (YC26106) in September and Oct/2001.

In 2002, 19651 Yukon Inc (a private company of which Morgan and Matkovich are the principals), carried out geophysical VLF, magnetometer and HLEM surveying, minor hand and blast trenching and geochemical rock sampling. A similar program was attempted late in 2003 and earlier included the staking of Ult cl 2-7 (YC25938) in May/2003.

In early Feb/2004 the Jen cl 1-40, 120, 136-167 and 251 (YC26408) were staked contiguously to the south and west and the Ult cl 8-140 and 142-176 (YC26239) were staked to the north and east of the existing claim group. Subsequently, in a press release dated 12 Feb/2004, Klondike Gold Corporation announced that it had optioned the property. Klondike Gold carried out geological mapping, prospecting, geochemical rock sampling and airborne geophysical magnetometer and EM surveying in August and Sep/2004.

In Jun/2005, Klondike Star Mineral Corporation signed an agreement to acquire a 75% interest in the Ultra claims from Klondike Gold.

GEOLOGY

A new bedrock mapping program focused on the Kluane Ranges in the southwest Yukon was initiated by the Yukon Geological Survey (YGS) in Jun/2004, remapping of this area is scheduled to commence in 2005. A review and interpretation based on available property scale geological mapping from assessment reports suggests that the boundary between Alexander Terrane and Wrangellia Terrane in this area may lie further to the west than is indicated by current regional scale mapping. The presence of several mafic-ultramafic sills of the Late Triassic and (?) older Kluane Ultramafic Suite intruding the northwest trending package volcanic and sedimentary lithologies present in the upland portions of the area further supports this interpretation. The sills are thought to be part of a subvolcanic system that fed the Mid- to early Late Triassic mafic volcanic rocks of the Nikolai Group which occur to the east overlying and in places interbedded with limestone and argillite of the Upper Triassic Chitistone Group.

The occurrence of ‘copper-pyrites in crushed zones’ on Telluride creek noted by the GSC in 1904, probably lies close to the train of mineralized float boulders discovered in Cub Creek northeast of a terminal moraine which crosses the creek near its junction with Telluride Creek. The float boulders, the largest of which is up to 13.6 tonnes, consists of fine grained pyrite with lesser sphalerite, chalcopyrite, quartz, carbonate and minor galena. Distinct bands up to several

centimetres across are defined by variations in sphalerite content. Sampling of these boulders and others that were later found further upstream showed average grades of about 6.9% Zn, 1.8% Cu, 24.0 g/t Ag, 0.2% Pb and trace Au.

Minor native copper was intersected in one of the 1962 drillholes, probably in the Nikolai Group. The ground geophysical surveys outlined a resistivity anomaly (not drilled) and a Turam conductor, which 1970 drilling showed was caused by interstitial marcasite and thin coal seams in the Eocene aged Amphitheatre Formation which overlies all other units in this area. Resurveying of this area in 2002 by HLEM methods identified three similar trending, weak conductors one of which has a conductance at the lower limit of what would normally be expected from a massive sulphide body.

One possible source of the mineralized boulders, the Telluride showing (identified by the westernmost location marker) was located by prospecting in 1977 at an elevation of 2 532 m, about 5 km southwest of the float occurrence. It consists of a lens of banded massive sulfides, 30 m long and 1 to 2 m thick, hosted by what is described as massive, dark to medium green, epidote rich meta-andesite (Eaton, 1988). The sulphide lens is underlain by strongly disseminated pyrite in a cherty zone and is surrounded by a weak siliceous halo.

The Frohberg showing is situated much lower on the cliff, 1.5 km to the east of the Telluride showing, and consists of pyrite, pyrrhotite, pentlandite and chalcopyrite in quartz-carbonate veinlets up to 3 cm across in a 6 by 2 m area along the margins of a mafic sill or dyke cutting a phyllite unit. Historic grab samples returned relatively high copper values (0.32 to 18.9%) with lower nickel values (0.03 to 1.85%) and anomalous but low platinum group values, except for one sample collected in 1977 which reportedly assayed 1.2 g/t Pt and 5.1 g/t Pd. Resampling of the phyllitic wallrock by Morgan in 2002 returned 240 ppb Au, 203 ppb Pt, 1 907 ppb Pd and 1.66% Cu. Blasting and hand trenching of the southern end of this showing in 2002 facilitated the collection of a sample extending from the margin of the sill, 0.5 m into the fractured and veined wallrock. Analysis of this sample returned 4.067% Cu, 1.73% Ni, 0.46 g/t Au, 5.54 g/t Pt and 13.46 g/t Pd.

In addition to the sill described above, at least two large ultramafic and several narrow mafic sills have also been identified in the area. The largest ultramafic body lies a few hundred meters north of the Frohberg showing and is 1 800 m long by 200 m wide and consists of dunite with lesser pyroxenite, serpentine and gabbro phases. The narrower sills consist solely of gabbro. Reported results of limited historical sampling of these other sills showed only a few weakly anomalous copper and nickel values. It has alternately been suggested (Casselman, 2005) that these occurrences may represent two stacked sills, although more detailed mapping is required to test this assumption.

Exploration in 2004 was focused on the lower slopes on the east side of the property and was directed towards locating other possible sources of the mineralized float boulders previously discovered in Cub Creek. Bedrock exposures of limonitically stained, pyritic stockworks in occassionally chloritically altered basalts were identified in a number of locations along the creeks to the northwest of Cub Creek and several similarily mineralized boulders were found approximately 4.5 km to the south-southeast in the upper reaches of Bryson Creek. Possibly representative of low-grade stockwork zones that commonly underlie massive sulphide lenses in typical Kuroko type systems, a grab sample from one of the Bryson Creek boulders returned 1.14% Cu with elevated levels of As (2 910 ppm).

A total of fifty-four EM anomalies were identified in the course of the airborne geophysical survey. The field data was filtered and standard corrections were applied before the anomalies were ranked based on their relative strengths. No other interpretation was carried out at the time

of reporting and as the surveying was carried out subsequent to the ground phase of the program the conductors have not yet been ground truthed.

REFERENCES

AQUITAINE COMPANY OF CANADA LTD, Sep/77. Private company report by J.G. Abbott and R.J. Cathro.

ATLAS EXPLORATIONS LTD, Dec/70. Assessment Report #091315 by M.E. Coates.

BIG CREEK RESOURCES LTD, Feb/88. Assessment Report #092130 by W.D. Eaton.

CANADIAN EXPLORATION LTD, Oct/61. Assessment Report #017469 by R.K. Watson.

CORANEX LTD, Jul/66. Assessment Report #017473 by R.A. Bosschart.

CORANEX LTD, Oct/67. Assessment Report #019068 by J.R. Woodcock.

GAYMONT PROSPECTING SYNDICATE, Nov/56. Assessment Report #091722 by A.R. Clark and M.H. Frohberg.

GEOLOGICAL SURVEY OF CANADA Summary Report 1904, p. 16-18.

GORDEY, S.P. and MAKEPEACE, A.J., 2003. Yukon Digital Geology, version 2.0, S.P Gordey and A.J. Makepeace (comp.); Geological Survey of Canada, Open File 1749 and Yukon Geological Survey, Open File 2003-9(D).

GREENE, A.R. et al, 2005. Flood basalts of the Wrangellia Terrane, southwest Yukon: Implications for the formation of oceanic plateaus, continental crust and Ni-Cu_PGE mineralization. In: Yukon Exploration and Geology 2004, D.S. Emond, L.L. Lewis and G.D. Bradshaw (eds.), Yukon Geological Survey, p. 109-120.

HOY, T., 1995. Noranda/Kuroko Massive Sulphide Cu-Pb-Zn, in Selected British Columbia Mineral Deposit Profiles, Volume 1 – Metallics and Coal, Lefebure, D.V. and Hoy, T, Editors, British Columbia Ministry of Energy, Employment and Investment, Open File 1995-20, p. 53-54.

HULBERT, L.J., 1997. Geology and Metallogeny of the Kluane Mafic-Ultramafic Belt, Yukon Territory, Canada: Eastern Wrangellia – A new Ni-Cu-PGE Metallogenic Terrane. Geological Survey of Canada Bulletin 506, 265 p.

ISRAEL, S., 2004. Geology of the Southwestern Yukon (1:250 000 scale). Yukon Geological Survey. Open File 2004-16.

KLONDIKE GOLD CORPORATION, News Release, 12 Feb/2004.

KLONDIKE GOLD CORPORATION, Jan/2005. Assessment Report #094485 by S. Casselman.

KLONDIKE STAR MINERAL CORPORATION, News Release, 09 Jun/2005.

MORGAN, T., May/2002. Assessment Report #094395 by R.D. Brickner.

MORGAN, T., Jun/2003. Assessment Report #094413 by S. Casselman and T. Morgan.

MORGAN, T., May/2004. Assessment Report #094465 by P. Jackson and T. Morgan.

READ, P.B. and MONGER, J.W.H., 1976. Pre-Cenozoic volcanic assemblages of the Kluane and Alsek Ranges, southwestern Yukon Territory. Unedited report to accompany Geological Survey Open File 381, p. 67-68.

REED CREEK JOINT VENTURE, Feb/88. Assessment Report #092100 by W.D. Eaton.

YUKON EXPLORATION AND GEOLGY 2001, p. 21; 2003, p. 34-35.

YUKON MINFILE
YUKON GEOLOGICAL SURVEY
WHITEHORSE

MINFILE: 115F 045
NAME: CANALASK
STATUS: DEPOSIT
TECTONIC ELEMENT: WRANGELLIA TERRANE
DEPOSIT TYPE: Gabbroid Cu-Ni-PGE

NTS MAP SHEET: 115F\15
LATITUDE: 61º 57' 11" N
LONGITUDE: 140º 32' 16" W

OTHER NAME(S): MICRO
MAJOR COMMODITIES: NICKEL, COPPER
MINOR COMMODITIES: PALLADIUM, MOLYBDENUM, PLATINUM
TRACE COMMODITIES: COBALT

CLAIMS (PREVIOUS & CURRENT)

CANA, MICRO, RIVER, WENG, WR

WORK HISTORY

Staked as White cl 1-8 (64214), Wolverine cl 1-8 (64222) and Caribou cl 1-8 (64432) and cl 9-16 (64230) in Mar/53 by P. Eikland, W. Theriault and F. Hickey and optioned to Prospectors Airways Company Ltd, on behalf of a syndicate including Noranda Mines Ltd and Kerr Addison Gold Mines Ltd, which drilled 14 holes (1 652.3 m) before dropping the option in Mar/54. Optioned in May/54 to Canalask Nickel Mines Ltd, a new company formed by Ontario Nickel Mines Ltd and Frobisher Ltd to develop the property. Frobisher's interest was later transferred to Quebec Metallurgical Industries Ltd.

During 1953-54, the property was extensively fringe staked by Versluce and associates who staked Blue Ribbon cl 1-8 (64383), by D. Taylor who staked Polaris cl 1-6 (64238) and by General Enterprises Ltd who staked Blair cl 1-6 (64200) etc. The Fox cl 1-8 (73245) were staked in Oct/57 by A. Nolan on the north side and transferred to Triple Five Prospectors Company Ltd.

Between 1954-58, Canalask drilled 1 025 m from surface, completed 518.2 m of drifting on 2 levels through an adit and a 106.7 m winze, and drilled 466.7 m underground. The name was changed to Northwest Canalask Nickel Mines Ltd in 1963, just before the claims were allowed to lapse.

Restaked as Micro cl 1-9 (86108) in Mar/64 by P. Versluce, H. Versluce and C. Gibbons, who trenched in 1965 and 1966, before optioning the claims in Jun/67 to Discovery Mines Ltd, Rayrock Mines Ltd and Consolidated Canadian Faraday Ltd. The group carried out magnetic, EM and IP surveys, bulldozer trenched and drilled 2 diamond drill holes (399.6 m) later in the year. In 1968, Faraday's interest was transferred to Pacific Petroleum Ltd, and the underground workings were re-opened to permit 370.9 m of underground drilling. In addition, about 1 005.9 m of drilling was conducted from surface.

After the option was dropped, the owners performed more trenching in 1970 before optioning the property in Feb/72 to the Nickel Syndicate (Canadian Superior Exploration Ltd, Aquitaine Company of Canada, Home Oil Ltd, and Getty Mines Ltd), which explored with geological mapping, magnetic and EM surveys later in 1972 and drilled 5 diamond drill holes (640.0 m) and staked Mag cl 1-39 (Y75496) in May-Jun/73 before dropping the option in 1974. The owners

rehabilitated the portal in 1978. The property was examined briefly in 1984 by Mammoth Resources Ltd.

The property was optioned in Dec/86 by Kluane Joint Venture (All-North Resources Ltd and Chevron Minerals Ltd) which added Weng cl 1-2 (YA96585) in Dec/86, Weng cl 3-10 (YA96732 in Jan/97 and Cana cl 1-6 (YA97083) in Mar/87. The Joint Venture joined with Rockridge Mining Corp, and together explored with geological mapping, mag & VLF-EM surveys, minor geochemical sampling, core relogging, and 5 diamond drill holes (603.2 m) in 1987. In Nov/92, the property was sold to a joint venture consisting of A.R. Archer Holdings Ltd, ECEE Money Ltd, Carvest Holdings Ltd and Norvista Developments Ltd.

Fringe claims include V cl 1-36 (YA95733) to the southeast in Aug/86 by Polestar Exploration Inc, which conducted mapping and sampling in 1987, CT cl 1-17 (YA97527) to the north and the WR cl 17-26 (YA97560) to the southwest in Jun/87 by Harjay Exploration Co. Ltd and KM cl 1-12 (YB8673) to the west in Oct/87 by B. Lueck. Magnetometer and VLF-EM surveys were carried out on the CT claims in 1988 by Lodestar Exploration Ltd. G. Harris staked Lobo cl 1-10 (YB26505) 1 km to the southwest in Apr/89. Harjay trenched on the WR claims in 1990.

In early 1993 Expatriate Resources Ltd purchased a 100% interest in the Micro, Weng, and Cana claim groups. The company also optioned the neighboring Onion claim group (Minfile Occurrence #115K 077). In Aug/93 the company staked White cl 1-18 and 20 (YB38234) and River cl 1-8 (YB38253), (Minfile Occurrence #115F 047) on the west side of the White River. Expatriate consolidated all of the claims into the Canalask property. In Sep/93 Expatriate carried out trenching, linecutting, magnetometer and VLF-EM surveys, geological mapping, and geochemical sampling on the east side of the White River (this occurrence).

In 1994 Cachet Enterprises Corporation was granted an option to earn a 50% interest in the Micro cl 1-4 (86108) by spending $1 000 000 over three years. Between September and Nov/94, Cachet drilled 6 HQ diameter drill holes (940 m). In 1995 the company drilled 5 additional HQ diameter drill holes (532 m) and carried out total magnetic field, VLF-EM and horizontal loop electromagnetic geophysical surveys on the Micro claims. Cachet terminated their option in Sept/96.

Between Oct/96 and Mar/97 Expatriate expanded their claim holdings by surrounding the Micro claims with several non-sequentially staked blocks of WR claims (84-95...etc, YB96944). In 1997 Expatriate flew an airborne geophysical survey over the entire property, the results of which led the company to drill 10 diamond drill holes (1 277.7 m) on coincident mag/EM anomalies located on the east side of the White River but outside of areas of known mineralization previously identified on the Weng claims. The company also completed ground magnetometer and HLEM geophysical surveys over various claims located on the east side of the White River..

In Oct/99 the property was optioned by Uravan Minerals Inc and in 2001 the company carried out ground magnetometer, HLEM and IP geophysical surveys, geological mapping, hand trenching, sampling and prospecting on the Onion and White claims (Minfile Occurreces #115K 077 and 115F 047) located 5 km to the west. In 2002 Uravan drilled two diamond drill holes (410.5 m) on the White and Onion claims. The company dropped its option at the end of 2002 and returned the property to Expatriate Resources. Expatriate transferred the property to StrataGold Corporation in May/2003.

GEOLOGY

The occurrence is located on the west side of the Alaska Highway and on the east side of the White River. The area lies along the northwest margin of the Wrangellia Terrane within a steeply dipping package of Late Paleozoic and Early Mesozoic volcanic and sedimentary rocks. These

rocks have been subdivided into two groups, the Skolai Group and the Nikolai Group. The mafic-ultramafic White River Intrusive complex intrudes at or near the contact between the Station Creek and Hansen Creek formations (Skolai Group). The Shakwak-Denali Fault system bounds the area to the northeast and the Duke River Fault to the southwest.

Due to the scarcity of natural exposures on the property, the thickness of the various stratigraphic units is uncertain. Regionally the Skolai Group is comprised of the Pennsylvanian to Permian Station Creek Formation and the Lower Permian Hansen Creek Formation. The Station Creek Formation, represents the oldest rocks in the area, and forms the lower part of the Skolai Group. The lower 600 m of the formation consists of pale green pyroclastic andesites and interbedded phyllites. The upper 400 m of the formation consists of interbedded black phyllite, siltstone, argillaceous limestone and cherty argillites with minor tuff horizons. Together the formation regionally exceeds 1 000 m in thickness.

The Lower Permian Hansen Creek Formation forms the upper part of the Skolai Group and consists of various sedimentary rocks including black phyllite, chert siltstone, limestone and conglomerate. The basal contact with the Skolai Creek Formation is described as gradational and arbitrarily placed at the uppermost volcanic unit. The Hansen Creek Formation regionally attains a maximum thickness of 800 m.

The Nikolai Group consists of a kilometer or more thick sequence of Middle to Late Triassic basaltic flows and interbedded limestone with local volcanic breccia and conglomerate, chert and argillite that overlies the Skolai Group rocks along an angular unconformity. Flows are thin (2 to 10 m), vesicular to amygdaloidal and are locally hematite stained indicating shallow water to sub aerial deposition.

The volcanic and sedimentary sequence is intruded by the Lower to Middle Triassic White River Intrusive Complex, part of the larger Kluane Mafic-Ultramafic Belt which occurs within the Kluane Ranges of the Yukon. In the vicinity of this occurrence, the White River Intrusive Complex consists of a sill-like body of ultramafic and mafic rocks that have an average thickness of 430 m but may reach thicknesses of as much as 600 m. The complex intrudes at the contact between the Station Creek Formation volcanic breccia and tuff and the overlying Hansen Creek Formation limestone and clastic sedimentary strata. Geophysical and geological data suggests that the complex has an average dip of 45 degrees to the southwest and has not been significantly affected by faulting or folding.

The northern margin of the complex represents the original intrusive basal contact zone, whereas the southern margin delineates the upper intrusive contact. Unlike other areas within the White River Intrusive Complex, the complex in the vicinity of this occurrence lacks a marginal quartz-carbonate alteration zone and locally exhibits a thin (>2.0 m) contact metamorphic (thermal) aureole in the footwall of the Station Creek Formation tuff.

The occurrence marks the location of the Main zone described as a proximal massive sulphide deposit located in the footwall of the mafic-ultramafic complex in an area of extensive metasomatic alteration. The deposit occurs in the form of a steeply dipping, southwest plunging nickel sulphide zone that measures approximately 130 m long and 23 m wide and is cut off at the west end near the White River, by a fault. Mineralization consists of pyrrhotite and lesser amounts of pentlandite, sphalerite, pyrite, marcasite and chalcopyrite in fine-grained patchy disseminations and less commonly in small massive lenses in volcanic rocks of the Station Creek Formation. These rocks are dense and siliceous and probably of tuffaceous origin. The zone lies 122 m from the footwall contact of a peridotite sill that is 793 m long and over 76 m wide. Within the sill are zones of olivine gabbro, serpentinized dunite and picrite. Two other zones are also present but are of lower grade. Reserves calculated in 1968 by Discovery Mines stand at 390 235 tonnes grading 1.35% nickel.

Beginning in the mid 1970's, exploration was re-directed towards the property's platinum potential with exploration work concentrated on the footwall contact of the sill. Hole 1973-7, situated 850 m east of White River, intersected 0.45 g/t platinum, 1.4 g/t palladium, 0.94% nickel and 0.33% copper across 3 m from a gabbroic phase. Mineralization consisted of coarse, net-textured pyrrhotite with finely disseminated chalcopyrite. The Kluane Joint Venture's 1987 drill program tested a 458 m length of the footwall contact located east of the White River. All of the holes intersected interbedded quartzite and argillite in the footwall rather than the interbedded tuff and limestone cored in the 1973 drilling. Bulldozer trenching across the footwall contact returned a best assay of 0.41 g/t platinum, 11.7 g/t palladium, 0.4% nickel and 0.1% copper across 3.0 metres.

The 1994 drilling was directed at confirming historical drill intersections in the Main zone as well as evaluating a strong geophysical anomaly in an area north of the Main zone known as the Footwall zone. Two holes were drilled through the central part of the Main zone. Hole C94-60 intersected 15.2 m of mineralization which assayed 1.02% nickel, 0.12% copper and 0.018 % cobalt. Hole C94-61 intersected 11.0 m of mineralization which assayed 1.37% nickel, 0.02% copper and 0.008% cobalt. The other four holes were drilled in the Footwall zone which lies 40 m north of, and stratigraphically below the Main zone. The best intersection was returned from hole C94-64 which intersected 3.0 m of mineralization that assayed 1.34% nickel, 0.10 copper and 0.055% cobalt. All drill intersections from the program that returned greater than 0.20% nickel and/or 0.20% copper were composited and re-assayed for gold, platinum and palladium. The samples returned trace to low background levels.

The 1995 drill program tested the Main and Footwall zones. The best result was returned from hole C95-70 which targeted an EM geophysical anomaly located 100 m east of the Footwall zone. The hole intersected 6.4 m of pale green silicified gabbro that returned 1.08% copper and 0.10% cobalt. Expatriate named this newly discovered zone the River zone. A second drill hole attempted to intersect the same zone but was abandoned in deep overburden. The remaining holes intersected mineralized portions of the Footwall and Main zones. The best result of these holes was hole C95-66 which returned 10.9 m of 0.77% copper and 0.052% cobalt from the Footwall zone.

The geophysical surveys revealed 3 elongate VLF-EM anomalies with coincident magnetic response within the footwall sequence of sedimentary rocks. The anomalies have an aggregate strike length of over 1 km and occur in a geological setting similar to the Main, Footwall and River zones.

The 1997 drilling tested coincident EM and magnetic anomalies about 1 km southeast of the main zone that were outlined by a 1996 airborne geophysical survey and redefined by ground geophysics carried out immediately in advance of the drilling. Drilling intersected fault zones within ultramafic rocks which contained sheet-like bands of pyrrhotite with lesser magnetite and minor native copper. Disseminated pyrrhotite and chalcopyrite in feldspathic peridotite and gabbro were also intersected but all were sub-economic.

The 2001 program was centered over the northwest portion of Miles Ridge (located at the northwest end of the property) which hosts the White River Ultramafic Complex. The area hosts six known mineralized showings and high background concentrations of nickel, cobalt, platinum and palladium. Geophysical surveys delineated two strong HLEM conductors with coincident IP chargeability-resistivity anomalies that are conformable and parallel to the footwall contact of the complex. Prospecting and geological mapping outlined two embayments the Discovery and Sax-Cessna, coincident to the anomalies which Uravan theorized outlined areas along the ultramafic complex where the footwall contact thickens appreciably and possibly hosts concentrations of sulphide and platinum group elements.

The 2002 drill holes tested the Discovery (Minfile Occurrence #115K 077) and Sax-Cessna embayments (Minfile Occurrence #115F 047). Both holes intersected broad intersections of low grade nickel plus platinum group mineralization in ultramafic rocks (clinopyroxenite). Mineralization occurred in zones of net-textured and disseminated magnetite plus ferro-chromite and sulphide minerals. Intersections ranged in grade from about 1 100 ppm to 3 100 ppm nickel and 90 ppb to 634 ppb platinum plus palladium over intervals greater than 20 m in both holes.

REFERENCES

ARCHER, CATHRO AND ASSOCIATES (1981) LTD, 1987. Assessment Report #091995 by R.J. Cathro.

CAMPBELL, F.A., 1956. Nickeliferous Sulphide Deposits at Quill Creek and White River, Yukon. Unpublished M.Sc. thesis, Queen's University.

CAMPBELL, F.A., 1960. Nickel Deposits in the Quill Creek and White River Area, Yukon. Canadian Institute of Mining and Metallurgy Bulletin, Dec/60, p. 953-959.

CAMPBELL, S.W., 1976. Nickel-copper sulphide deposits in the Kluane Ranges, Yukon. Exploration and Geological Services Division, DIAND; Open File 1976-10.

CAMPBELL, S.W., 1981. Geology and genesis of copper deposits and associated host rocks in and near the Quill Creek area, Southwestern Yukon. Unpublished Ph.D. thesis, University of British Columbia, 1981.

DISCOVERY MINES LTD, 1967. Assessment Report #019077 by J.S. Reed and J.G. Baird.

DISCOVERY MINES LTD, 1968. Assessment Report #091298 by T. Antoniuk.

DISCOVERY MINES LTD, 1968. Assessment Report #091316 by T. Antoniuk.

EXPATRIATE RESOURCES LTD, 1994. Assessment Report #093155 by H.J. Copeland and R. C. Carne.

EXPATRIATE RESOURCES LTD, 1994. Assessment Report #093256 by R.C. Carne.

EXPATRIATE RESOURCES LTD & CACHET ENTERPRISES CORP, 1996. Assessment Report #093448 by R.C. Carne.

EXPATRIATE RESOURCES LTD, 1997. Assessment Report #093698 by R.C. Carne.

EXPATRIATE RESOURCES LTD, 1998. Assessment Report #093957 by R.C. Carne.

EXPATRIATE RESOURCES LTD, Aug/2003. Assessment Report #094421 by J. Moore.

EXPATRIATE RESOURCES LTD, News Release, 10 Jan/95.

GEOLOGICAL SURVEY OF CANADA Memoir 340, p. 111.

GEOLOGICAL SURVEY OF CANADA Paper 67-40, p. 13-16; Paper 68-68, p. 65-68; Paper 69-55, p. 39.

GEORGE CROSS NEWSLETTER, 19 Apr/89; 24 Nov/92; 26 Sep/95.

HULBERT, L.J. 1997. Geology and metallogeny of the Kluane Mafic-Ultramafic Belt, Yukon Territory, Canada: Eastern Wrangellia – A new Ni-Cu-PGE Metallogenic Terrane. Geological Survey of Canada, Bulletin 506, 265 p.

ISRAEL, S., 2004. Geology of Southwestern Yukon (1:250 00 scale). Yukon Geological Survey, Open File 2004-16.

LODESTAR EXPLORATIONS INC, Sep/88. Assessment Report #092525 by G.S. Davidson.

MINERAL INDUSTRY REPORT 1973, p. 60-61.

NICKEL SYNDICATE, 1973. Assessment Report #091321 by J.S. Vincent and K.A. Maclean.

NORTHERN MINER, 3 Oct/95.

ROCKRIDGE MINING CORPORATION AND KLUANE JOINT VENTURE, Jan/88. Assessment Report #092009 by R.J. Cathro.

STRATAGOLD CORPORATION, Apr/2005. Web Site: www.stratagold.com

THE MINING LETTER, 24 Jul/84.

URAVAN MINERALS INC, Apr/2002. Assessment Report #094331 by I. Fraser.

URAVAN MINERALS INC, News Release, 31 Oct/01; 23 Aug/2002.

URAVAN MINERALS INC, Apr/2003. Web Site: www.uravanminerals.com.

VERSLUCE, P., 1966. Assessment Report #019083 by P.H. Sevensma and P. Versluce.

YUKON EXPLORATION 1987, p. 242.

YUKON EXPLORATION & GEOLOGY 1995, p. 12, 13, 16; 1996 p. 24, 30; 1997 p. 24, 35; 2002, p, 14-15, 24, 26.

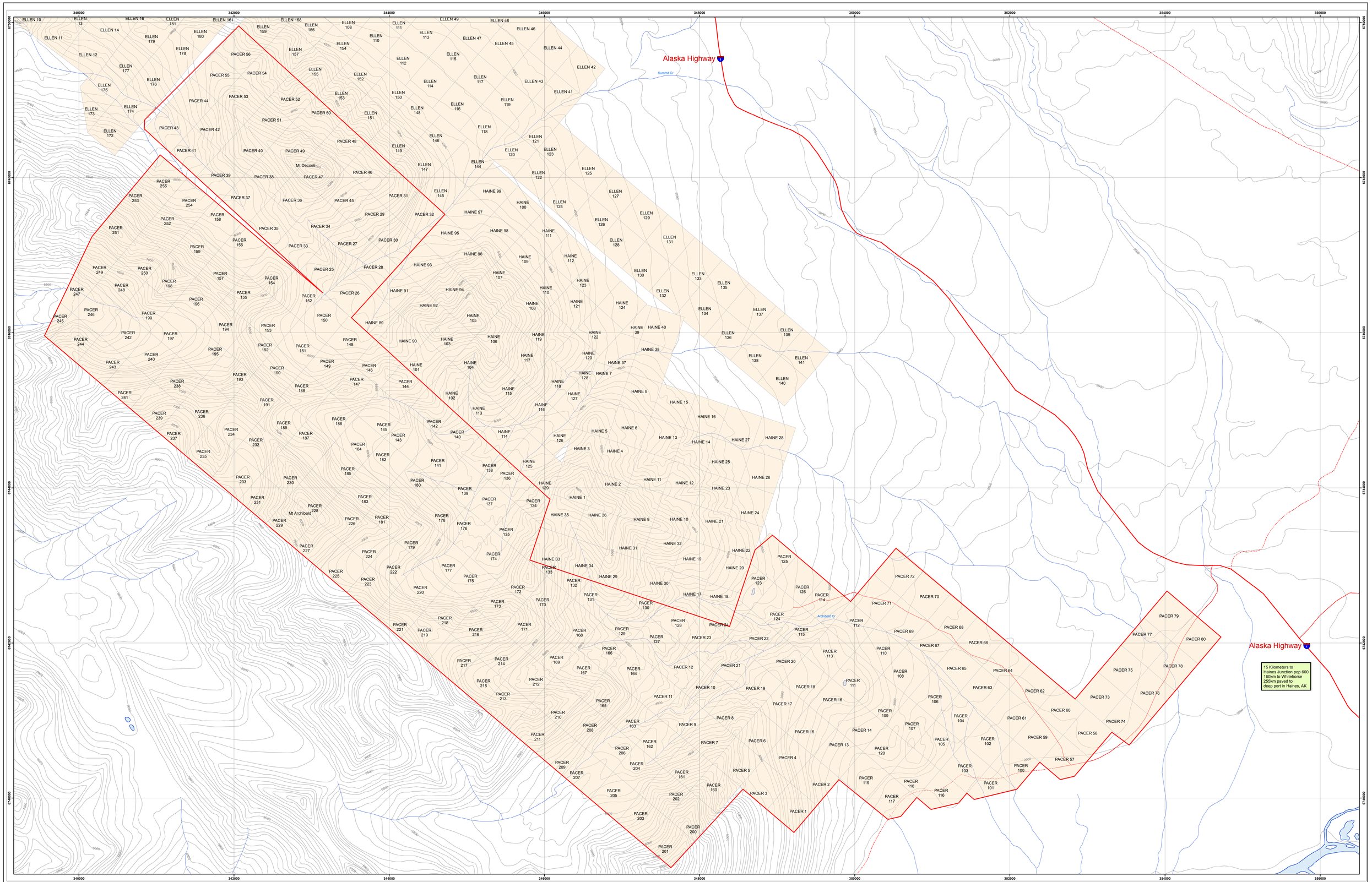
						Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
						Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Pd	Pt
						Unit	KG	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	%	PPB	PPM	PPM	PPM	PPB	PPB
						MDL	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	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	10	2
ACME ID	FIELD ID	DESCRIPTION	ZONE	X UTM	Y	Type																																							
1494851	QH1313		8 V	343994	6743510	Rock	2.25	0.55	21.66	5.13	25.6	30	12.5	5.9	480	1.44	2.3	0.1	0.9	0.5	182	0.08	0.07	0.07	36	4.69	0.041	2.8	24.9	0.51	14.7	0.11	<1	1.28	0.032	0.04	0.2	4.1	<0.02	<0.02	16	0.5	0.03	4.3	<10	<2
1494852	QH1314	laminated hornfels MS fine desem sulph	8 V	344059	6743494	Rock	2.18	0.62	82.86	8	65.9	80	26.7	10.2	577	3.28	5.9	0.3	<0.2	1.3	117.7	0.08	0.2	0.18	45	2.64	0.06	4.9	23.3	1.37	94.7	0.165	2	2.52	0.009	0.33	0.2	4	0.06	<0.02	14	<0.1	<0.02	6.4	<10	<2
1494853	QH13-02-01-1	green grey aponitic biotite sulphide weakly magnetic silica-chlorite ash flow tuff?	8 V	343523	6745308	Rock	2.3	0.81	35.26	3.92	73.2	48	20.3	15	611	3.86	3.8	0.2	1	0.7	21.9	0.05	0.13	0.08	51	0.96	0.075	2.8	30.2	1.4	62.4	0.176	<1	2.37	0.024	0.18	0.2	4	<0.02	0.08	19	<0.1	<0.02	6.1	<10	<2
1494854	QH13-02-01-2	Red oxidized colourless sulphide QTZ vein	8 V	343523	6745308	Rock	2.11	0.23	17.5	2.05	32.4	47	9.7	5.4	493	1.09	2.8	0.2	6.2	0.7	188.2	0.09	0.33	0.07	32	8.05	0.032	2.9	19.2	0.42	36.5	0.147	256	0.92	0.01	0.08	0.4	3.7	<0.02	<0.02	15	0.1	0.03	2.6	<10	<2
1494855	QH13-02-01-3	tuffaceous breccia magnetic. 1-3% suplides	8 V	343523	6745308	Rock	1.75	0.3	30.26	4.48	82.7	60	20.2	17.2	902	4.67	2.9	0.2	0.4	0.6	24.2	0.04	0.04	0.18	80	1.44	0.059	2.5	39.7	1.72	43	0.208	<1	3.03	0.029	0.09	0.2	4.8	<0.02	0.04	7	0.3	<0.02	8.3	<10	<2
1494856	QH13-02-02-1	hornfels MS w/ QTZ+calcit veins and stringers	8 V	343532	6745318	Rock	2.38	0.36	53.17	15.44	62	124	17.2	9.6	476	2.5	4.6	0.2	0.5	0.4	50.5	0.1	0.07	0.22	31	1.3	0.042	1.7	14.6	0.82	110.6	0.141	1	1.38	0.027	0.24	0.2	2.2	0.04	<0.02	<5	<0.1	0.08	3.3	<10	<2
1494857	QH13-02-02-2	Red oxideized colourless massive QTZ vein	8 V	343532	6745318	Rock	2.04	0.09	3.17	1.46	14.4	15	2	1.6	419	0.54	0.8	<0.1	1.6	<0.1	61.6	0.01	0.19	0.04	12	2.35	0.005	<0.5	3	0.08	9.1	0.021	445	0.41	0.015	0.02	<0.1	0.9	<0.02	0.03	5	0.3	0.05	0.9	<10	<2
1494858	QH13-02-03-1	Hornblende tuff with 1% sulphides	8 V	343582	6745301	Rock	2.13	0.89	49.83	10.31	63.9	106	34.6	15.4	419	2.59	7.4	0.2	0.3	0.5	55.5	0.36	0.13	0.13	53	2.05	0.051	2.1	38.8	0.99	65.1	0.185	2	2.01	0.039	0.16	0.1	3.4	<0.02	<0.02	9	0.4	0.06	4.1	<10	3
1494859	QH13-02-05-1	Dark Grey Aphonitic sulphide basalt/gabbro with strong FeO stain, limonite and MnO	8 V	343667	6745319	Rock	2.09	0.63	26.92	10.07	71.7	95	6.7	5	1185	3.77	5.3	0.3	0.6	1	94.4	0.09	0.12	0.18	20	4.31	0.055	5.5	8.6	1.2	56.1	0.171	1	2.3	0.013	0.19	0.2	1.8	0.03	0.04	23	0.3	0.12	3.7	<10	<2
1494860	QH13-02-06-1	Heavily oxidized aphonitic mafic rock basalt?MS?	8 V	343839	6745300	Rock	1.2	0.59	71.03	6.36	102	215	22.5	13	1618	4.34	12	0.2	<0.2	0.7	18.5	0.18	0.07	0.13	45	0.31	0.049	2.8	20	1.54	81.8	0.121	<1	2.63	0.025	0.17	0.1	3	0.03	0.05	9	0.2	0.08	7	<10	<2
1494861	QH13-02-07-1	small pyrite amygdoloidal basalt	8 V	343868	6745223	Rock	1.82	0.71	19.02	2.7	35.2	72	8.7	7.5	5775	2.76	4.5	0.1	0.5	0.4	230.1	0.1	0.14	0.07	31	22.06	0.183	5.6	5.6	0.57	32.4	0.062	4	1.37	0.006	0.07	0.3	2.6	<0.02	0.22	9	0.3	0.04	3.4	<10	<2
1494862	QH13-02-08-1	pyrite-phyric gabbro with intense MnO+FeO	8 V	343941	6745163	Rock	1.11	0.7	52.68	6.49	92.4	116	18	11.8	1093	4.15	5.7	0.2	1	0.5	23.3	0.09	0.17	0.1	27	0.41	0.062	3.1	14.3	1.25	73.2	0.112	3	2.23	0.023	0.18	<0.1	1.8	0.03	0.54	6	0.9	0.08	4.2	<10	2
1494901	JR-13-001-01-01	Greenstone with minor carbonate veining, 5% 2mm cubic pyrite	8 V	350749	6740141	Rock	1.25	0.07	63.65	91.03	43.6	876	136.4	29.4	553	3.39	1.6	<0.1	1	<0.1	18.2	0.05	0.43	0.03	79	1.33	0.05	0.7	427.6	1.91	6	0.246	<1	2.05	0.033	<0.01	<0.1	4.7	<0.02	<0.02	<5	<0.1	0.03	3.8	<10	3
1494902	JR-13-001-01-02	Volcanic Breccia (perhaps large float)	8 V	350685	6740186	Rock	2.01	3.59	10.69	17	14.8	206	9.7	3	294	3.68	43.9	1.1	1.7	0.4	62.3	0.35	1.18	0.03	34	35.46	0.021	4	9.1	0.13	11.1	0.02	2	0.1	0.001	0.02	0.6	2.6	0.02	<0.02	65	<0.1	<0.02	0.5	<10	<2
1494903	JR-13-002-01-01	Greenstone, 5-10% deseminated sulphides throughout, minor Qtz veining	8 V	349674	6741628	Rock	0.53	0.05	94.35	8.52	39.8	112	53.1	19.7	365	2.45	0.7	<0.1	1.8	<0.1	26.4	0.06	0.05	<0.02	60	1.1	0.062	0.9	138.9	1.23	11.7	0.322	2	1.54	0.04	0.05	<0.1	3.5	<0.02	<0.02	6	<0.1	<0.02	3	<10	2
1494904	JR-13-002-03-01	Massive sulphide veins in Greenstone	8 V	349955	6741574	Rock	1	0.09	479.44	3.78	104.8	158	108.6	38.7	1044	6.4	0.3	<0.1	1.5	<0.1	15.7	0.06	0.05	<0.02	126	1.01	0.082	<0.5	147.9	2.44	31.2	0.614	2	2.86	0.025	0.08	<0.1	2	<0.02	<0.02	9	<0.1	0.04	9.5	<10	7
1494905	JR-13-002-04-01	Greenstone with increasedd QTZ-Carb veining, desseminated sulphides	8 V	350179	6741225	Rock	1.19	0.38	165.7	5.46	80.9	73	194	47.6	855	8.01	10.1	<0.1	4.3	0.1	53.3	0.09	0.16	<0.02	265	6.65	0.111	4.5	434.3	4	37.1	0.025	6	3.91	0.02	0.01	<0.1	26.3	<0.02	<0.02	30	<0.1	<0.02	12.6	15	4
1494906	JR-13-002-05-01	Qtz vein in greenstone	8 V	349893	6741310	Rock	1.35	0.1	18.25	10.46	7.1	99	2.8	1	153	0.42	0.5	<0.1	0.4	<0.1	17	0.02	0.07	<0.02	13	2.07	0.01	<0.5	10.7	0.06	5	0.093	<1	0.18	0.013	<0.01	<0.1	0.5	<0.02	<0.02	<5	<0.1	<0.02	0.6	<10	<2
1494909	JR-13-004-01-01	Smokey qtz vein, limonite staining, coarse texture	8 V	342900	6747471	Rock	2.46	0.62	7.37	6.49	27.6	90	3.6	1.3	284	0.43	0.7	<0.1	<0.2	0.1	30.8	0.38	0.09	<0.02	3	0.81	0.01	0.9	2.1	0.04	24.9	0.002	1	0.09	0.007	0.02	<0.1	0.9	<0.02	<0.02	7	<0.1	0.02	0.3	<10	<2
1494910	JR-13-004-01-02	quartzite	8 V	342900	6747471	Rock	1.42	0.04	175.04	8.07	73.7	316	43.8	36.7	1197	5.84	1.5	0.1	<0.2	0.5	731.2	0.14	0.24	<0.02	136	4.01	0.275	3.2	96.1	3.79	25.6	0.122	<1	3.4	0.005	<0.01	<0.1	7	<0.02	0.07	0.75	<5	0.2	0.07	6.8	12	5
1494911	JR-13-004-01-03	carbonaceous intrusive	8 V	342900	6747471	Rock	1.95	0.06	14.38	13.64	18.7	119	4.3	1.6	1752	1.02	0.5	0.1	<0.2	0.5	1036.7	0.08	0.05	0.03	19	7.98	0.03	5.6	4.4	0.23	53.6	0.002	1	0.37	0.034	0.08	<0.1	2.9	<0.02	0.06	5	0.4	<0.02	1.9	<10	<2
1494912	JR-13-004-02-01	Greenstone in float with massive pyrite veins	8 V	342911	6747531	Rock	0.75	0.2	313.69	1.87	53	145	86	24.8	476	3.09	0.3	<0.1	<0.2	<0.1	13.4	0.14	0.03	<0.02	65	0.94	0.059	0.6	198.4	1.8	4.9	0.288	1	1.9	0.028	<0.01	<0.1	1.8	<0.02	0.03	8	<0.1	0.06	3	<10	4
1494913	JR-13-004-03-01	Qtz vein with fiberous serpentinite, 10% deseminated pyrite 3mm cubes, silicified clasts of greenstone	8 V	343041	6747590	Rock	0.58	0.09	332.99	1.36	17.4	341	23.2	9.2	303	1.69	2.3	<0.1	0.9	<0.1	9.3	0.17	0.05	<0.02	21	1.14	0.002	<0.5	64.9	0.79	1.6	0.021	<1	0.79	<0.001	<0.01	<0.1	1.1	<0.02	0.14	<5	0.6	<0.02	1.2	<10	<2
1494914	JR-13-004-03-02	Greenstone with large pyrite crystals, minor quartz veining with malachite staining	8 V	343041	6747590	Rock	0.45	0.15	1151.55	1.74	127.2	1008	115.3	55.6	1741	8.38	0.8	<0.1	1.2	<0.1	13.6	0.44	0.02	<0.02	130	0.98	0.012	<0.5	253.6	5.63	8.1	0.103	1	5.42	<0.001	0.02	<0.1	5.5	<0.02	0.04	<5	0.8	0.07	7.7	20	15
1494915	JR-13-004-03-03	Hematite stained highly siliceous vein material, massive sulphide	8 V	343041	6747590	Rock	1.12	9.53	192.8	2.4	439.4	468	8.9	5.6	340	3.18	1.4	<0.1	572.6	<0.1	2.5	1.74	0.2	<0.02	22	0.01	0.002	<0.5	27.6	0.38	8	0.027	<1	0.57	<0.001	0.04	<0.1	2.4	<0.02	1.17	62	1.4	0.08	1.2	<10	2
1494916	JR-13-004-03-04	Hematite stained greenstone with massive sulphide veining	8 V	343041	6747590	Rock	1.35	0.73	1844.98	1.15	134.5	1303	72.1	51.4	1692	13.88	<0.1	0.3	6.1	<0.1	2.8	0.25	0.08	0.04	194	0.12	0.014	<0.5	182.5	4.98	8.7	0.074	4	6.03	<0.001	<0.01	<0.1	12.3	<0.02	1.07	7	6.5	0.13	9.7	28	8
1494917	JR-13-004-05-01	Hematite stained intrusive, heavy quartz-carbonate veining, massive featureless and blocky, finegrained	8 V	343194	6747515	Rock	0.77	0.14	138.66	1.71	43.4	110	33.2	19.8	542	3.82	0.1	<0.1	4.8	<0.1	10.2	0.08	0.07	<0.02	76	0.67	0.02	<0.5	32.3	1.46	8.1	0.197	2	1.99	0.017	<0.01	<0.1	4.7	<0.02	0.04	<5	0.5	<0.02	3.5	<10	<2
1494918	JR-13-004-06-01	Highly siliceous mildy carbanceous, 20% pyrite, malachite stanied, intrusive	8 V	343275	6747477	Rock	1.39	2.22	313.11	1.67	127.4	534	25.2	16.2	405	3.03	0.9	<0.1	425.8	<0.1	1.8	1.52	0.13	<0.02	35	0.72	0.004	<0.5	38.2	1.08	9.3	0.043	<1	0.99	0.004	0.03	<0.1	2.5	<0.02	1.83	26	2.3	0.03	1.9	<10	2
1494919	JR-13-004-07-01	Malachite stained greenstone, mildly carbonaceous, 1-5% deseminated pyrite	8 V	343293	6747484	Rock	0.54	0.93	6511.86	0.82	255.7	2265	43.4	32.1	724	3.04	<0.1	<0.1	33.3	<0.1	5.9	2.02	0.07	<0.02	48	1.09	0.005	<0.5	96.6	2.12	7.1	0.041	<1	1.72	<0.001	0.01	<0.1	2.8	<0.02	0.54	8	5.4	0.03	2.9	<10	4
1494920	JR-13-004-08-01	altered and metamorphosed mudstone with weathered out pyrite crystals, iron staining	8 V	343340	6747490	Rock	1.32	5.66	29.87	8.32	40.9	663	10.8	1.4	226	2.25	13.6	0.5	2.4	1.5	4.6	0.03	4.1	0.13	19	0.04	0.033	1.6	7.4	0.45	140.8	0.014	2	0.66	0.011	0.08	<0.1	2.1	0.12	0.1	85	7.4	0.12	2.2	<10	<2
1494921	JR-13-004-09-01	Qtz-carb vein in altered and metamorphosed ms near Greenstone contact	8 V	343360	6747454	Rock	1.62	0.21	13.16	0.99	60.2	39	5.5	1.5	815	0.4	0.3	0.2	4.1	<0.1	364.9	1.47	0.08	<0.02	<2	5.8	0.006	2	1.6	0.38	27.8	<0.001	<1	0.04	0.007	<0.01	<0.1	2.1	<0.02	<0.02	8	0.4	<0.02	0.1	<10	<2
1494922	JR-13-004-11-01	Qtz Carbonate vein in greenstone	8 V	343530	6747164	Rock	2.71	0.24	29.59	4.22	21.9	23	1.8	5.7	1366	2.5	<0.1	<0.1	2.5	0.3	300.8	0.13	<0.02	<0.02	24	5.85	0.087	4.5	1.2	0.81	246	0.096	<1	0.71	0.048	0.14	<0.1	2.2	<0.02	<0.02	12	0.5	<0.02	2.1	<10	<2
1494923	JR-13-004-12-01	Qtz Carbonate vein in greenstone	8 V	343514	6747077	Rock	2.57	0.04	51.32	0.96	8.7	45	10.5	4	367	0.96	0.3	<0.1	1.8	<0.1	159.4	0.03	0.03	0.16	22	7.47	0.007	<0.5	18.8	0.96	19.7	0.019	<1	0.2	0.054	0.01	<0.1	1.8	<0.02	<0.02	<5	0.1	<0.02	0.6	<10	<2
1494924	JR-13-004-13-01	silicified greenstone	8 V	343556	6747054	Rock	1.25	0.54	55.87	1.2	39.2	35	27.9	20.8	1706	2.31	15.7	0.3	1.6	0.3	283	0.37	0.06	0.05	56	24.5	0.034	2.1	20.7	1.14	16	0.133	<1	1.22	0.002	0.03	<0.1	3.4	<0.02	0.14	6	0.9	0.05	4.2	<10	<2
1494925	JR-13-004-13-02	silicified greenstone	8 V	343556	6747054	Rock	1.12	1.08	32.89	0.91	17.2	46	13.8	8	953	1.54	1.6	0.9	1.3	<0.1	242.5	0.13	0.08	<0.02	42	25.66	0.014	0.8	18	0.89	13.7	0.104	<1	0.85	0.002	0.01	<0.1	1.9	<0.02	0.05	6	0.2	<0.02	2.9	<10	3
1494926	JR-13-004-14-01	hematite stained quartzite with minor vis. sulphides	8 V	343422	6746930	Rock	1.16	0.64	39.5	5.45	70.8	108	17.8	12.9	615	3.61	0.6	0.1	1.6	0.4	81.5	0.09	0.34	0.06	31	0.97	0.061	2	11.6	1.2	95.6	0.116	<1	1.71	0.029	0.15	<0.1	1.2	0.04	0.52	<5	1.1	0.05	3.7	<10	<2
1494927	JR-13-004-15-01	pyrite rich felsic intrusive in float	8 V	343350	6746898	Rock	1.34	0.06	17.65	14.71	22.7	83	1.8	1.3	483	0.59	0.3	0.5	2.1	0.8	161	0.15	0.07	0.05	3	1.15	0.031	4.4	1.7	0.05	135.6	0.013	<1	0.34	0.045	0.16	<0.1	0.3	0.04	0.16	7	0.9	<0.02	1.4	<10	<2
1494928	JR-13-004-16-01	hematite in carbonate veins within felsic intrusive	8 V	343200	6746924	Rock	0.76	0.02	19.49	4.15	70.5	44	5.1	11.3	1708	2.7	0.2	0.2	0.9	0.4	278.2	0.02	0.08	<0.02	47	4.95	0.098	3.2	4.9	1.1	37.1	0.066	<1	1.51	0.029	0.14	<0.1	1.9	<0.02	0.29	<5	0.3	0.05	5.6	<10	<2
1494929	JR-13-004-17-01	hematite stained qtz vein in felsic intrusive	8 V	343186	6746929	Rock	2.1	0.05	2.67	1.75	9.1	21	1	0.5	166	0.49	0.4	<0.1	<0.2	<0.1	16.4	0.05	0.05	<0.02	5	0.12	0.006	0.7	2.3	0.11	12.8	<0.001	<1	0.15	0.011	0.01	<0.1	0.3	<0.02	0.05	<5	0.2	<0.02	0.7	<10	<2
1494930	JR-13-005-01-01	chlorotized greenstone in float, desem sulphides and frequent vuggy qtz veins 3cmD	8 V	342801	6747609	Rock	2.15	0.04	52.84	9.13	67.1	123	10.1	11.1	886	2.13	2.4	<0.1	<0.2	0.1	196.3	0.16	0.12	<0.02	37	1.3	0.085	1.2	20.3	1.13	40.6	0.078	<1	1.41	0.052	0.05	<0.1	1.6	<0.02	0.25	5	0.2	0.03	5	<10	2
1494931	JR-13-005-03-01	schist with qtzcarb veins with pyrite	8 V	342785	6747699	Rock	1.46	5.48	43.78	5.54	232.7	456	33.9	8.9	662	2.09	6.7	0.9	<0.2	1.4	99	3	1.02	0.07	31	1.39	0.07	2.6	12.6	0.34	212.2	0.074	2	0.66	0.019	0.11	0.1	2.8	0.09	0.06	26	4.9	0.03	1.9	<10	<2
1494932	JR-13-005-04-01	granular felsic intrusive with minor deseminated sulphides	8 V	342779	6747865	Rock	1.24	0.03	33.11	4.14	24.4	35	6.4	2.2	573	0.41	<0.1	<0.1	<0.2	<0.1	139.9	0.04	<0.02	<0.02	2	1.9	0.034	<0.5	4	0.04	115.5	0.023	<1	0.28	0.03	0.26	<0.1	0.3	0.08	<0.02	<5	0.5	<0.02	1.1	<10	<2
1494933	JR-13-005-05-01	Malachite stanied greenstone, mildly carbonaceous, some azurite. Float	8 V	342818	6747887	Rock	1.67	0.1	2763.53	1.11	87.9	37	83.1	27.4	739	3.46	0.3	<0.1	0.5	<0.1	13.4	0.41	<0.02	<0.02	62	0.66	0.035	0.5	148.9	2.04	4.2	0.203	<1	2.28	0.016	<0.01	<0.1	3.9	<0.02	0.02	<5	1.1	0.09	3.3	17	11
1494934	JR-13-005-06-01	malachite staining in silicieous greenstone in o/c and float	8 V	342835	6747901	Rock	1.54	0.21	2989.63	2.8	124.3	105	148.1	44.9	1058	4.84	0.4	<0.1	2.3	0.1	5.4	0.65	0.07	0.14	106	0.59	0.063	0.7	269.2	2.49	2.7	0.331	<1	2.84	0.031	<0.01	<0.1	3.6	<0.02	<0.02	9	0.6	<0.02	4.8	15	6
1494935	JR-13-005-06-02	qtz veins in greenstone 4-5cmD 5%vis. Sulphides partially weathered	8 V	342835	6747901	Rock	0.81	0.15	560.74	1.38	2260.1	336	21.6	7.9	159	0.81	0.2	<0.1	180.4	<0.1	3.5	15.41	0.04	0.06	9	1.3	0.001	<0.5	24.8	0.32	2.4	0.02	<1	0.32	0.008	<0.01	<0.1	0.7	<0.02	0.21	147	0.6	<0.02	0.6	<10	<2
1494936	JR-13-005-06-03	qtz vein float, malachite. <5% vis. Sulphides	8 V	342835	6747901	Rock	0.76	0.09	2542.15	0.89	2917.9	2668	13.1	7.6	623	1.09	<0.1	<0.1	141.8	<0.1	8.1	14.78	0.05	0.05	13	6.31	0.001	<0.5	21.6	0.49	2.9	0.014	<1	0.4	0.004	<0.01	<0.1	1.3	<0.02	0.37	203	3.6	<0.02	0.8	<10	<2
1494937	JR-13-005-06-04	greenstone, highly serpentinized. Near asbestos	8 V	342835	6747901	Rock	1.56	0.11	81.02	0.77	28.5	57	44.9	15.4	339	1.88	0.8	<0.1	1.3	0.1	23.8	0.09	0.04	0.03	45	4.22	0.05	1	121	1.02	2.4	0.253	<1	1.3	0.024	<0.01	<0.1	2.5	<0.02	<0.02	6	0.2	<0.02	2.5	10	3
1494938	JR-13-005-06-05	hematite stained qtz vein 15-20cmD in greenstone	8 V	342835	6747901	Rock	0.7	0.11	150.98	0.89	39.2	56	62.2	28.3	444	2.78	0.2	<0.1	10	<0.1	8.1	0.06	0.03	0.02	46	0.74	0.014	<0.5	42.1	0.97	2.1	0.15	<1	1.26	0.029	<0.01	<0.1	3	<0.02	0.42	8	1	0.03	2	24	9
1494939	JR-13-005-07-01	malachite stained greenstone	8 V	342854	6747900	Rock	2.15	0.02	1190.77	1.08	412.2	74	86.5	40.4	771	3.48	0.3	<0.1	3.2	<0.1	6.7	2.2	0.04	<0.02	59	0.46	0.012	<0.5	107.8	2.21	2.1	0.146	<1	2.27	0.017	<0.01	<0.1	2.9	<0.02	<0.02	9	0.2	<0.02	2.7	22	13
1494940	JR-13-005-08-01	massive sulphide float	8 V	343064	6747968	Rock	1.91	0.08	58.86	0.78	13.6	26	10	21.6	236	3.73	0.3	<0.1	9.5	<0.1	11.3	0.01	0.03	0.02	48	0.54	0.012	<0.5	3.1	0.45	1.8	0.161	<1	0.82	0.011	<0.01	<0.1	2.4	<0.02	2.25	7	2.1	0.02	2.1	<10	<2
1494941	JR-13-005-08-02	massive sulphide float	8 V	343064	6747968	Rock	1.69	0.05	7.3	0.82	28.4	26	35.1	28.5	346	11	0.6	<0.1	5	<0.1	10.4	0.02	0.13	0.05	49	0.41	0.006	<0.5	14	0.99	1.7	0.138	<1	1.21	0.003	<0.01	<0.1	3	<0.02	9.08	<5	3.8	0.16	2.3	24	11
1494942	JR-13-005-08-03	massive sulphide float	8 V	343064	6747968	Rock	1.2	0.11	21.59	0.68	45	23	53.1	53.5	639	7.9	0.8	<0.1	9.6	<0.1	13.6	0.02	0.14	0.03	73	0.59	0.014	<0.5	24.5	1.61	1.5	0.147	<1	1.97	0.004	<0.01	<0.1	3.9	<0.02	4.04	5	2.9	0.09	3.2	28	16
1494943	JR-13-005-08-04	massive sulphide float	8 V	343064	6747968	Rock	1.57	0.17	22.66	0.65	6.2	17	18.2	27.3	162	2.67	0.2	<0.1	5.6	<0.1	8.3	<0.01	<0.02	<0.02	38	0.49	0.024	<0.5	1.5	0.33	1.2	0.171	<1	0.5	0.006	<0.01	<0.1	2.6

						Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
						Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
						Unit	KG	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	%	PPB	PPM	PPM	PPM	PPB	PPB
						MDL	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	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	10	2
ACME ID	FIELD ID	DESCRIPTION	ZONE	X UTM	Y	Type																																							
1494963	JR-13-008-01-03	felsic dyke, 10-15%desem sulphides, 60cmD	8 V	343768	6745338	Rock	1.29	0.14	126.38	4.98	79.7	129	30	33.4	1239	6.21	24.2	<0.1	0.1	0.9	0.3	125.3	0.1	0.14	0.04	139	1.82	0.126	2.2	132	3.49	20.3	0.098	<1	4.25	0.011	<0.01	<0.1	8.5	<0.02	0.04	<5	0.3	<0.02	5.9	<10	6
1494964	JR-13-008-02-01	oxidized qtz carb vein stock work 20cmD vis sulphides	8 V	343815	6745390	Rock	1.32	0.03	6.02	0.42	17.9	13	12.6	3.2	893	0.65	1	1	<0.2	<0.1	538.6	0.55	0.04	<0.02	23	12.84	0.012	2.7	16.7	2.33	82.1	<0.001	<1	0.08	0.018	<0.01	<0.1	4.7	<0.02	<0.02	5	0.2	<0.02	0.3	<10	2
1494965	JR-13-008-02-03	intrusive withstringer veins ands 1-5% 5mm pyrite	8 V	343815	6745390	Rock	1.08	1.35	11.08	2.05	42.1	53	8.2	8.4	3325	3.48	1.2	1	1.3	1.3	240.5	0.08	0.17	0.03	49	15.01	0.151	9.1	14.2	1.44	87.4	0.003	2	0.8	0.06	0.07	<0.1	9.9	<0.02	0.24	<5	0.1	<0.02	3.3	<10	<2
1494966	JR-13-008-02-04	sulphide rich metaseds	8 V	343815	6745390	Rock	1.61	0.95	39.94	3.42	58	106	13.1	7.9	435	3.29	0.2	0.4	<0.2	1.2	9.2	0.08	0.3	0.09	46	0.1	0.047	3.1	25.7	1.16	78.2	0.01	<1	1.69	0.034	0.09	<0.1	4.1	0.03	0.25	15	1	0.04	4.7	<10	<2
1494967	JR-13-008-02-06	mafic intrusive with visible sulphides	8 V	343815	6745390	Rock	1.01	1.67	59.82	7.77	97.5	170	32.9	20.5	1613	3.62	14.8	0.4	0.8	1.8	45.4	0.16	0.31	0.09	35	2.1	0.064	12.3	15	0.92	127.7	0.004	2	1.92	0.034	0.19	<0.1	4.2	0.02	0.59	9	1.6	0.08	4.1	<10	<2
1494968	JR-13-008-02-07	qtz carbonate vein 10cmD, minor 3mm pyrite crystals, Mn staining	8 V	343815	6745390	Rock	0.88	0.11	66.26	0.59	141.5	75	20.2	16.1	1086	3.39	3.7	0.5	0.3	0.5	238.4	2.4	0.05	<0.02	80	10.01	0.071	6.9	2.3	0.69	72.1	0.003	<1	1.19	0.014	0.04	<0.1	8.5	<0.02	0.82	5	4.3	<0.02	3.1	<10	<2
1494969	JR-13-008-03-01	Host mudstone, desem sulphides, hem and weathered	8 V	343924	6745444	Rock	2.3	1.16	15.61	7.86	48.6	448	13	8.3	515	3.16	16.9	<0.1	<0.2	1	16.4	0.02	0.76	0.26	34	0.35	0.03	2.4	12.7	0.74	268.9	0.002	<1	1.65	0.028	0.19	<0.1	2	0.04	0.46	23	3.2	0.25	4	<10	<2
1494970	JR-13-008-03-02	felsic intrusive contact with MS, sulphides up to 70%	8 V	343924	6745444	Rock	1.73	1.16	26.28	6.88	20.4	153	8.4	9.7	1756	1.98	8.6	<0.1	4	0.2	687.4	0.27	0.26	0.12	11	12.7	0.022	5.2	3	0.27	87.1	0.001	<1	0.41	0.005	0.04	<0.1	9.9	0.02	1.27	<5	5.9	0.13	1.2	<10	<2
1494971	JR-13-008-03-03	Felsic intrusive with desem pyrite	8 V	343924	6745444	Rock	1.62	0.26	105.56	2.74	96	218	14.1	23.5	1551	5.85	4	0.1	0.8	1.7	268.1	0.24	0.22	0.04	181	5.31	0.217	14.5	9.3	2.36	74.7	0.007	<1	3.52	0.045	0.06	<0.1	11.9	<0.02	1.1	23	3.5	0.06	10.8	<10	<2
1494972	JR-13-008-03-04	silicified greenstone with desem sulphides	8 V	343924	6745444	Rock	1	0.06	90.04	1.11	76	147	11	25.6	1336	5.69	0.5	<0.1	14.8	0.5	87.6	0.14	0.05	0.07	170	7.55	0.213	3.4	12.4	2.57	19.1	0.073	<1	2.96	0.028	0.02	<0.1	3.9	<0.02	0.85	86	0.7	0.24	10.8	<10	4
1494973	JR-13-008-03-05	chloritized greenstone with desem sulphides 5-15%, hosting qtz carb veins	8 V	343924	6745444	Rock	0.81	0.03	138.79	2.61	53.7	214	72.2	42.5	933	4.91	4.8	<0.1	2.6	<0.1	37.2	0.03	0.07	0.06	131	4.98	0.018	<0.5	87.6	2.58	25.4	0.133	<1	2.66	0.044	0.01	<0.1	8.5	<0.02	1.22	9	9.8	0.39	5.9	14	9
1494974	JR-13-008-03-06	qtz carb veins in mudstone, 25cmD	8 V	343924	6745444	Rock	0.75	0.68	11.19	2.61	93.3	51	12.6	8.7	1414	0.75	5.6	0.2	<0.2	0.2	721.3	0.84	0.15	0.03	5	12.8	0.012	2.9	2.5	0.12	34.6	0.005	<1	0.19	0.007	0.02	<0.1	7.4	<0.02	0.31	15	2.1	0.11	0.6	<10	<2
1494975	JR-13-008-03-07	siliceous vein material, oxidized iron stained, desem sulphides	8 V	343924	6745444	Rock	0.98	0.18	18.3	1.47	112.6	27	18.5	11.3	809	1.88	1	0.2	1.1	0.2	152	0.47	0.12	0.03	17	3.05	0.055	1.5	16.1	0.41	113.3	0.017	<1	0.67	0.053	0.08	<0.1	1.5	0.05	1.01	33	2.6	0.21	2.5	<10	<2
1494976	JR-13-008-03-08	intrusive with sulphides deseminated	8 V	343924	6745444	Rock	0.41	0.19	75.07	2.26	90.8	102	35.3	17.5	877	3.77	0.6	0.2	<0.2	0.3	97.3	2.14	0.04	<0.02	115	2.36	0.088	2.2	82.3	2.09	42.7	0.097	<1	2.82	0.04	0.03	<0.1	4.7	<0.02	0.09	<5	0.5	<0.02	8.3	<10	<2
1494977	JR-13-008-04-01	coarse grained dyke, 5-10%pyrite <1cmD, chlorite weinlets in fabic.	8 V	344067	6745405	Rock	0.88	0.17	9.62	12.45	58	38	7.3	4.6	555	1.68	1.9	0.3	0.8	0.6	133.8	0.18	0.08	0.04	11	1.58	0.091	3.6	2.8	0.44	202.2	0.013	<1	1.04	0.069	0.16	<0.1	1.3	0.07	0.45	9	0.4	0.03	4.3	<10	<2
1494978	JR-13-008-05-01	massive sulphide within greenstone, part of stockwork, 70-80%sulphides	8 V	344170	6745383	Rock	0.96	2.45	21.29	6	44.8	785	36.7	13.5	244	3.64	8.3	<0.1	2964.1	<0.1	24.6	0.22	0.62	0.06	47	0.35	0.004	<0.5	94.7	0.75	7.2	0.178	<1	0.87	0.021	0.02	<0.1	3.4	<0.02	2.48	85	8.5	0.56	1.8	20	7
1494979	JR-13-008-06-02	qtz vein in greenstone 5-10% sulphides	8 V	344183	6745366	Rock	1.46	0.08	35.57	0.45	4.3	21	36.2	5.5	766	0.6	<0.1	<0.1	39	<0.1	77.2	0.14	0.05	0.11	10	19.62	0.002	<0.5	86.8	0.74	6.9	0.007	<1	0.46	0.003	<0.01	<0.1	2	<0.02	0.02	<5	0.4	<0.02	0.8	<10	<2
1494980	JR-13-009-01-01	serpentinite, siliceous chloritized	8 V	350848	6740189	Rock	1.28	0.1	90.26	0.16	47.7	30	144.9	28.5	634	4.2	4.6	<0.1	7	<0.1	9.9	0.11	0.08	0.08	161	1.98	0.051	0.5	385.2	1.8	6.9	0.34	1	3.17	0.022	0.01	<0.1	3.7	<0.02	0.03	11	0.5	0.06	6.1	<10	4
1494981	JR-13-009-01-02	peridotite, plagiopheric, 5% desem sulphides	8 V	350848	6740189	Rock	1.29	0.12	87.61	0.17	49.5	25	142.7	28.1	698	4.38	0.2	<0.1	1.1	<0.1	4.4	0.09	0.07	0.05	177	2.26	0.047	<0.5	344	2.02	11.4	0.262	2	3.75	0.008	0.08	<0.1	3.5	<0.02	<0.02	<5	0.4	<0.02	7	11	5
1494982	JR-13-009-01-03	Qtz Carb vein 5cmD	8 V	350848	6740189	Rock	0.79	0.05	4.46	0.13	4.6	2	22.9	3.3	1368	0.62	<0.1	<0.1	1.4	<0.1	177.7	0.14	<0.02	0.03	19	24.19	0.006	4.7	75.2	0.42	4.9	<0.001	<1	0.33	<0.001	0.01	<0.1	4.2	<0.02	<0.02	<5	0.3	<0.02	0.8	12	<2
1494983	JR-13-009-01-04	gabbro dyke	8 V	350848	6740189	Rock	1.06	0.15	106.25	0.16	34.3	21	189	25.4	527	3.23	0.7	<0.1	0.4	0.2	32.2	0.07	0.03	0.03	104	2.78	0.059	3.3	566.7	2.8	15	0.217	3	3.06	0.012	0.13	<0.1	5.3	<0.02	<0.02	<5	0.4	<0.02	5	15	6
1494984	JR-13-009-02-01	greenstone, epidote rich 1-5% finely desem sulphides	8 V	351188	6740206	Rock	0.97	0.04	246.71	0.26	50.1	26	83.1	22.5	443	4.81	0.3	<0.1	7.2	<0.1	11.1	0.03	0.04	0.02	76	1.4	0.168	1	258.4	1.42	8.4	0.23	2	1.48	0.028	0.06	<0.1	2.1	<0.02	<0.02	8	0.3	0.05	4.7	<10	<2
1494985	JR-13-010-03-01	conglomerate	8 V	348642	6741502	Rock	0.96	0.68	110.58	20.86	164.8	94	51.7	15	1096	4.46	9.5	0.5	1.3	1.6	38.8	1.49	0.94	0.21	52	0.76	0.059	10.5	25	1.24	247.6	0.002	4	1.7	0.004	0.3	<0.1	5.2	0.07	0.55	42	1	0.16	3.9	<10	<2
1494986	JR-13-010-03-02	hematite and Mn stained, altered seds	8 V	348642	6741502	Rock	1.86	7.75	95.77	5.35	203.4	366	45.9	7.1	394	4.06	32.8	1.4	<0.2	3	74.7	2.68	2.42	0.12	38	2.9	0.101	8.7	12.3	0.57	45.9	0.002	3	1.11	0.014	0.11	<0.1	4.9	0.31	3.07	104	10	0.06	2.2	<10	<2
1494987	JR-13-010-03-03	heavily chloritized, sericitized qtz carbonate zone	8 V	348642	6741502	Rock	1.66	18.75	40.92	8.45	81.9	1074	31.8	3.6	202	2.47	19.8	1.2	<0.2	1.7	48.5	1	3.67	0.2	42	1.48	0.038	9.1	9	0.62	47.8	<0.001	6	0.91	0.029	0.13	0.1	2	0.66	2.92	232	13.5	0.1	2.4	<10	6
1494988	JR-13-010-01-04	desem pyrite in mafic intrusive	8 V	340856	6746828	Rock	1.6	9.61	29.03	11.11	50.4	102	8.3	13.8	792	4.4	3.3	0.3	0.8	1.5	47.4	0.16	1.06	0.12	26	3.07	0.116	3.6	6.6	0.34	67.7	0.141	4	1.77	0.007	0.18	0.5	2.7	0.04	2.79	6	1.8	0.13	3.5	<10	<2
1494989	JR-13-010-01-05	lg pyrite(4cm) 30% in Quartzite	8 V	340856	6746828	Rock	0.43	7.89	20.51	6.57	47.9	81	4.7	9.4	683	4.64	1.6	0.6	1.6	3.2	29.2	0.06	0.68	0.14	14	0.36	0.041	4.4	6.3	1.21	90.3	0.185	4	1.99	0.014	0.23	0.2	1.9	0.05	1.63	9	0.7	0.16	3.1	<10	<2
1494990	JR-13-010-02-01	qtz carbonate veining	8 V	344107	6745481	Rock	0.68	0.12	47.3	2.96	29.5	113	17.4	3.5	340	1.01	0.2	0.2	0.5	0.5	97.8	0.11	0.1	0.04	5	2.78	0.02	2.1	3.7	0.47	23.6	0.016	<1	0.54	0.002	0.03	<0.1	1.2	<0.02	0.11	6	2.4	<0.02	1.5	<10	<2
1494991	JR-13-010-02-02	desem sulphides mineralized host mud stone	8 V	344107	6745481	Rock	0.38	1.34	36.23	13.8	46.1	850	52.7	12.1	174	3.77	0.4	0.7	3.4	1.2	33.7	0.18	1.96	0.21	10	0.74	0.014	4.9	8.6	0.67	53.2	0.015	2	0.89	0.003	0.14	<0.1	1.5	0.27	2.72	151	14.5	0.13	2.2	<10	<2

ACME ID	ZONE	X	Y	MoPPM	CuPPM	PbPPM	ZnPPM	AgPPB	NiPPM	CoPPM	MnPPM	FePER	AsPPM	UPPM	AuPPB	ThPPM	SrPPM	CdPPM	SbPPM	BiPPM	VPPM	CaPER	PPER	LaPPM	CrPPM	MgPER	BaPPM	TiPER	BPPM	AlPER	NaPER	KPER	WPPM	ScPPM	TlPPM	SPER	HgPPB	SePPM	TePPM	GaPPM	PdPPB	PtPPB
1494616	8 V	349548	6741157	0.76	290.94	7.9	81	133	58	21.5	699	3.31	7	0.3	9.1	0.9	44	0.48	0.57	0.24	66	1.24	0.081	4.9	119.4	1.35	102.7	0.118	4	1.82	0.008	0.06	0.2	3.9	0.03	0.02	112	1.6	0.06	4.9	59	6
1494628	8 V	343288	6747098	7.8	134.59	41.3	266.1	658	69.6	30.4	1063	5.16	147.8	1.6	4.9	2.5	70.6	2.16	53.94	0.4	52	0.27	0.113	17.6	58.7	0.89	158	0.026	6	1.25	0.016	0.05	0.1	6.5	0.09	0.23	105	7.6	0.17	3.2	11	<2
1494633	8 V	343534	6746887	6.69	109.14	13.84	219.7	441	57.4	22.8	856	4.46	90.1	1.3	4.6	1.3	46.1	1.49	28.45	0.3	51	0.25	0.107	14.1	68.8	0.92	165.8	0.016	3	1.42	0.008	0.05	0.2	5.3	0.09	0.11	70	4.1	0.16	3.6	<10	<2
1494637	8 V	343653	6746958	10.54	143.09	13.21	380.7	556	84.8	29.5	941	4.96	33.2	1.6	0.4	1.9	47.8	4.62	11.73	0.25	56	0.63	0.073	10.4	73.1	0.86	127	0.027	6	0.92	0.005	0.04	0.1	6.8	0.19	0.52	125	9.4	0.11	2.3	<10	<2
1494639	8 V	343780	6747033	4.47	235.68	9.17	181.7	242	74.3	32.3	932	5.14	21.3	0.6	14.8	1	25.6	1.23	3.41	0.14	87	0.44	0.07	6.2	94.8	1.56	105.7	0.077	8	1.68	0.004	0.05	0.1	7.3	0.04	0.08	79	2.7	0.03	4.9	<10	7
1494651	8 V	352400	6740936	0.85	59.77	7.22	70.3	120	34.2	16.6	644	3.24	5.4	0.3	2.9	1.4	121.4	0.22	0.39	0.12	61	3.13	0.092	6.8	41.6	1.33	42.8	0.094	8	1.82	0.012	0.08	0.1	4.4	0.04	0.05	26	0.2	0.12	5	<10	<2
1494652	8 V	350261	6739863	0.81	48.28	9.12	73.8	133	30.3	14.4	537	2.78	3.7	0.6	12.1	0.7	117.9	0.2	0.75	0.1	49	1.99	0.082	6	57.8	1	69.1	0.075	12	1.59	0.009	0.08	0.2	3.6	0.03	0.13	38	6.4	0.04	4.6	13	<2
1494654	8 V	350471	6739972	0.36	51.06	5.26	40.7	63	33	7.7	276	1.64	1.6	0.2	9	0.8	217.8	0.53	0.28	0.05	32	14.38	0.047	4.6	37.6	0.72	92.7	0.059	9	0.92	0.022	0.07	<0.1	2.9	0.03	0.1	45	1.5	0.07	2.3	13	<2
1494676	8 V	348607	6741503	2.82	97.61	11.72	136.5	227	49.2	25.4	717	4.26	12	0.7	2.7	1.9	81	0.63	1.14	0.16	70	1.67	0.095	8.6	54.9	1.43	78	0.174	5	2.1	0.012	0.08	0.2	5.7	0.08	0.2	35	2.2	0.09	6.1	<10	<2
1494677	8 V	348642	6741514	9.02	84.95	11.87	203.8	477	47.5	21.6	671	4.48	24.8	1.1	1.2	2.1	65.4	1.79	3.11	0.2	48	0.72	0.087	10.9	31.6	0.94	140.6	0.083	6	1.48	0.012	0.09	0.1	4.3	0.31	0.4	119	9.1	0.1	4.3	<10	<2
1494678	8 V	348665	6741566	8.24	111.11	11.32	310.8	465	61.2	23.4	633	5.17	33.7	1.1	0.4	1.9	53.9	3.08	3.23	0.18	60	0.87	0.082	8.2	41.4	1.18	108.4	0.066	8	1.49	0.01	0.07	0.1	5.9	0.28	1.01	135	12.2	0.13	4.3	<10	3

ACME ID	ZONE	X	Y	MoPPM	CuPPM	PbPPM	ZnPPM	AgPPB	NiPPM	CoPPM	MnPPM	FePER	AsPPM	UPPM	AuPPB	ThPPM	SrPPM	CdPPM	SbPPM	BiPPM	VPPM	CaPER	PPER	LaPPM	CrPPM	MgPER	BaPPM	TiPER	BPPM	AlPER	NaPER	KPER	WPPM	ScPPM	TiPPM	SPER	HgPPB	SePPM	TePPM	GaPPM	PdPPB	PtPPB
1494601	8 V	350653	6740270	0.81	56.08	7.36	61.4	135	45.3	17.8	475	3.13	10.4	0.4	2.4	1.6	71.7	0.19	0.59	0.1	66	2.3	0.079	10.8	54.1	1.05	76.8	0.11	5	1.52	0.018	0.15	0.1	5	0.05	0.03	20	0.6	0.04	4.5	10	14
1494602	8 V	350774	6740278	0.76	51.69	7.18	56.3	128	37.9	15.2	507	2.58	9.5	0.5	14.2	1.1	65.5	0.26	0.56	0.08	55	1.89	0.072	8.5	53.1	0.9	92.9	0.081	6	1.28	0.019	0.07	0.1	3.5	0.05	0.06	24	0.4	0.03	3.5	<10		3
1494603	8 V	350835	6740380	1.08	59.21	12.12	49.8	91	47.7	16.9	342	3.52	11.7	0.7	4.4	2.3	36	0.06	0.49	0.09	82	0.6	0.029	12.9	66.6	1.03	68.7	0.155	2	2.05	0.02	0.11	0.1	6.6	0.07	<0.02	18	0.3	<0.02	5.9	<10		5
1494605	8 V	350931	6740467	1.05	53.22	14.01	50.6	151	45.9	18.2	669	3.48	11.9	0.5	27.2	2.1	33.7	0.13	0.51	0.09	79	0.61	0.037	10.4	60.9	0.95	83.1	0.145	3	1.79	0.019	0.11	0.1	5.7	0.06	<0.02	8	0.1	<0.02	5.2	<10		81
1494606	8 V	349591	6742151	0.8	67.36	10.54	73.6	66	62.4	19.4	608	3.92	9.8	0.4	13.6	1.3	30.1	0.07	0.42	0.08	83	0.77	0.057	5.5	95.7	1.4	70.1	0.206	3	2.44	0.005	0.07	0.1	4.7	0.03	<0.02	13	0.3	<0.02	6.4	<10	<2	
1494607	8 V	349554	6742055	1.39	83.3	12.01	79.2	399	48.5	21.5	698	3.96	23.1	0.6	4	1.1	41.5	0.18	0.72	0.14	84	0.81	0.076	8.3	79.2	1.1	135.1	0.109	1	2.13	0.009	0.08	0.2	5.1	0.04	<0.02	23	0.6	0.05	6.4	<10	<2	
1494608	8 V	349552	6741952	1.47	47.84	12.69	94.3	255	42.8	21.8	760	4.18	20.9	0.5	5.7	1.3	33.5	0.28	0.8	0.14	88	0.69	0.056	6.7	76.1	1.14	121.7	0.158	3	2	0.008	0.09	0.2	4.9	0.04	<0.02	<5	0.3	<0.02	6.3	<10	<2	
1494609	8 V	349552	6741849	1.16	43.87	9.84	71.2	145	48.7	21.5	669	4.03	18.4	0.4	2.2	1.3	28.1	0.16	0.57	0.11	85	0.6	0.04	5.8	83.4	1.3	75.2	0.18	2	2.22	0.006	0.09	0.1	4.9	0.03	<0.02	17	0.2	0.05	6.3	<10	<2	
1494610	8 V	349583	6741761	1.19	69.1	10.56	107.2	294	45.4	25.3	756	4.04	15.9	0.7	4.8	1.7	32.9	0.15	0.61	0.13	84	0.65	0.065	9.9	73.3	1.16	153.2	0.117	2	2.39	0.008	0.06	0.2	5.5	0.06	<0.02	11	0.2	0.03	6.5	<10	<2	
1494611	8 V	349626	6741664	0.5	159.13	7.65	54.2	96	65.4	16.8	552	3.81	10	0.4	13.8	1.2	26.7	0.05	0.34	0.07	84	0.82	0.025	6.9	108	1.43	59.8	0.202	2	2.48	0.004	0.05	0.2	5.4	0.03	<0.02	17	0.5	0.03	5.8	<10	<2	
1494612	8 V	349635	6741531	0.93	158.32	8.42	68.5	143	63.1	20.4	639	3.87	19.1	0.6	4.7	1.2	46.1	0.18	0.62	0.1	80	1.06	0.044	9.4	86.6	1.31	76.5	0.168	3	2.08	0.012	0.07	0.1	5.9	0.04	0.03	20	0.8	<0.02	5.7	11	2	
1494613	8 V	349625	6741416	1.49	87.48	12.45	67.3	155	51.6	20.8	601	3.67	19.2	0.6	1.6	1.9	46.3	0.19	0.83	0.12	76	0.9	0.045	9.3	70.2	1.17	87.5	0.15	2	1.95	0.015	0.1	0.2	5.6	0.05	0.03	22	0.5	0.05	5.4	<10	<2	
1494614	8 V	349616	6741318	1	128.44	8.57	70.4	91	69.5	21.7	738	4.16	11.7	0.4	3.7	1.4	42.7	0.13	0.5	0.09	82	1.18	0.073	9	106.2	1.48	78.4	0.195	4	2.29	0.012	0.1	0.2	6.4	0.04	<0.02	17	0.5	<0.02	6	12	<2	
1494615	8 V	349592	6741218	0.82	42.59	7.52	61.1	90	54.8	19.2	590	3.93	11.5	0.4	6.8	1.3	26.3	0.05	0.42	0.08	80	0.7	0.022	4.2	90.8	1.35	37.8	0.257	3	2.21	0.005	0.1	0.1	4.5	0.02	<0.02	12	0.5	<0.02	6.1	<10	<2	
1494617	8 V	349531	6741138	1.3	51.83	11.91	85.3	181	46.5	24.4	750	3.97	13	0.5	1	1.3	37	0.24	0.74	0.13	80	0.73	0.097	7.2	68	1.08	93	0.111	2	2.08	0.008	0.09	0.1	4.7	0.04	<0.02	8	0.3	<0.02	6.1	<10		4
1494618	8 V	349491	6741053	1.11	187.95	10.36	93.7	251	51.5	25.4	1438	3.76	11.5	0.6	1.7	1.6	42.8	0.26	0.71	0.12	78	0.86	0.1	10	61.7	0.98	340.9	0.094	2	2.2	0.017	0.09	0.1	5.8	0.05	<0.02	23	0.9	0.03	5.9	<10	<2	
1494619	8 V	349319	6741154	1.43	96.63	11.41	76.1	149	46.5	22.4	575	4.36	16	0.4	4.8	1.2	29.8	0.12	0.67	0.32	95	0.69	0.032	5.5	70.7	1.27	49.4	0.25	2	2.27	0.006	0.11	0.3	4.7	0.02	<0.02	9	0.3	<0.02	6.5	<10		21
1494620	8 V	349376	6741289	0.31	153.41	5.78	54	98	99.4	33.2	675	4.3	4.6	0.2	1.1	0.3	15.6	0.06	0.21	0.07	104	1.2	0.023	2.7	254.3	2.12	17.9	0.355	2	2.81	<0.001	0.05	<0.1	4.1	<0.02	<0.02	12	0.5	0.06	4.7	13	6	
1494621	8 V	349483	6741406	1.25	69.67	9.33	64.8	176	50.1	23.1	617	3.92	14.7	0.7	8.2	1.3	36.9	0.17	0.71	0.24	83	0.85	0.049	7.4	76.2	1.23	72.7	0.156	2	2.09	0.011	0.1	0.2	5.5	0.04	<0.02	27	0.5	0.05	5.9	<10	<2	
1494622	8 V	349458	6741609	1.11	74.1	8.98	75.6	87	51.2	19.1	627	4.39	18.5	0.4	4.3	1.2	25.7	0.09	0.53	0.14	96	0.61	0.034	5	88.8	1.41	90	0.215	3	2.52	0.003	0.06	0.2	5.4	0.04	<0.02	12	0.4	0.13	6.9	<10		3
1494623	8 V	349422	6741791	1.66	57.26	15.4	82.4	205	46.4	22.2	688	4.28	16.8	0.5	4.6	1.7	33.1	0.1	0.88	0.13	93	0.62	0.038	6.7	70.8	1.32	96.7	0.188	3	2.6	0.004	0.07	0.2	5.5	0.05	<0.02	14	0.6	0.08	7.3	<10	<2	
1494624	8 V	349445	6741886	1.18	57.13	9.78	86.1	108	49.9	20.8	521	4.15	15.1	0.5	6	1.6	35.2	0.14	0.67	0.13	90	0.76	0.047	7.2	79.8	1.27	86.8	0.174	2	2.48	0.007	0.07	0.2	5.2	0.04	<0.02	11	0.3	0.07	7.2	<10	<2	
1494625	8 V	349467	6741977	0.94	52.73	15.87	75.8	183	52.2	20.5	620	3.78	12	0.5	35.7	1.1	36.1	0.09	0.47	0.1	84	0.77	0.064	6.6	78.1	1.32	72.8	0.153	2	2.25	0.006	0.08	0.2	5.1	0.03	<0.02	17	0.5	0.05	6.3	<10		2
1494626	8 V	349467	6741977	1.03	51.72	7.59	72.7	96	56.7	20	606	4.02	11.3	0.5	5.2	1.1	35.3	0.08	0.5	0.1	88	0.77	0.051	6.5	91.9	1.47	71.8	0.181	1	2.4	0.005	0.08	0.1	5.2	0.03	<0.02	12	0.5	0.04	6.6	<10	<2	
1494627	8 V	343249	6747128	6.76	121.08	24.01	256.4	743	59.4	23.6	980	4.78	145	1.7	4.2	2	71.8	2.59	58.11	0.44	50	0.43	0.118	20.5	49.5	0.77	208.5	0.02	5	1.26	0.018	0.06	0.1	6.5	0.08	0.21	114	7.3	0.2	2.9	<10		3
1494630	8 V	343327	6747067	4.57	116.89	18.41	215.5	536	62	25	1437	5.09	131.8	1.6	3.3	2.4	73.4	1.58	55.58	0.3	72	0.4	0.11	16.1	78.1	1.13	199.4	0.043	2	1.58	0.012	0.07	0.1	7.2	0.1	0.11	98	3.9	0.21	4.5	<10		3
1494631	8 V	343384	6746983	5.94	86.3	15.13	169.4	530	44.6	14.8	702	4.36	126.4	1.5	3.9	0.9	69.6	0.42	33.39	0.28	57	0.44	0.11	15.3	59.3	0.87	275.9	0.015	3	1.59	0.01	0.05	0.1	5.2	0.11	0.11	108	5	0.22	4	<10		3
1494632	8 V	343463	6746937	5.27	86.24	21.65	173.3	410	46.8	17.3	943	4.48	112.1	1.6	3.3	1.4	69	0.57	35.46	0.25	58	0.43	0.102	15.5	57.5	0.85	290.4	0.013	2	1.67	0.008	0.06	0.1	5.6	0.11	0.09	65	3.9	0.18	4.2	<10		4
1494634	8 V	343547	6746871	6.31	102.99	13.68	211.7	501	53.1	19.8	885	4.82	105.6	1.4	3.4	1.6	41.7	0.72	27.86	0.25	62	0.19	0.096	15.8	70.8	0.95	140.1	0.023	1	1.64	0.008	0.05	0.1	6.9	0.1	0.08	78	5.2	0.16	4.1	<10		2
1494635	8 V	343621	6746937	8.85	113.82	14.18	278.7	536	63.7	20.8	904	5.04	90.4	1.6	4.2	1.7	38.9	1.17	45.19	0.25	70	0.2	0.097	15.9	66	0.94	269.6	0.016	2	1.63	0.007	0.04	0.1	7.7	0.15	0.1	82	7.2	0.21	4.1	<10		4
1494636	8 V	343541	6746984	7.05	115.81	11.92	249.2	438	66.5	22.6	826	4.79	82	1.4	9.6	1.8	46.4	1.56	25.09	0.21	65	0.29	0.097	14.3	82.7	1.14	167.2	0.038	2	1.6	0.009	0.06	0.1	7.1	0.09	0.12	72	5.4	0.12	3.7	<10		3
1494638	8 V	343711	6746997	2.91	282.84	6.44	114.5	316	64.1	23.5	719	4.79	15.9	0.6	5.9	0.5	31.9	0.37	2.64	0.18	100	1	0.07	7	94.9	1.58	164	0.085	5	2.01	0.004	0.05	<0.1	7.1	0.04	0.11	53	3	<0.02	6.1	14	6	
1494640	8 V	343783	6747064	3.59	229.41	7.87	187.5	367	85.4	34.6	1189	6.03	19.2	0.7	6.3	0.9	29	1.27	2.51	0.15	112	0.57	0.069	8.1	132.3	2	215.3	0.084	4	2.44	0.004	0.06	<0.1	9.9	0.07	0.07	160	2.6	0.13	6.2	20	7	
1494641	8 V	343853	6747137	3.39	181.04	7.85	158.7	295	81.2	22.6	956	4.35	23	0.5	8.5	1.2	21.1	1.16	8.37	0.13	76	0.41	0.065	7.4	94.1	1.41	96.1	0.11	3	1.56	0.003	0.05	<0.1	6.7	0.04	0.03	74	1.9	0.07	4.1	11	4	
1494642	8 V	343931	6747230	2	186.12	5.2	116.8	184	99.9	24.4	786	4.8	14.6	0.4	7.3	0.7	20.9	0.48	1.8	0.08	109	0.56	0.049	5.6	137.3	2.18	118.6	0.178	4	2.23	0.003	0.06	0.1	7.6	0.03	0.03	52	1.2	0.05	6.8	11	4	
1494643	8 V	344010	6747264	2.56	195.31	18.03	124.1	346	124	31.4	956	4.71	16.8	0.6	7.7	0.7	38.9	0.68	2.5	0.1	96	0.9	0.071	8.5	129.6	1.78	140.8	0.072	7	1.88	0.008	0.07	0.2	8.8	0.05	0.11	93	1.9	0.05	5.3	<10	<2	
1494644	8 V	344093	6747341	2.61	165.16	8.45	105.5	215	97.3	23.9	797	4.22	14.9	0.6	3.9	0.5	43.9	0.54	2.03	0.09	88	0.98	0.077	6.9	114.6	1.45	111.9	0.079	6	1.65	0.008	0.07	0.2	7.2	0.05	0.12	91	1.7	0.07	5	<10		3
1494645	8 V	344133	6747287	2.42	204.9	12.39	120.4	289	109.5	32.5	1239	4.95	16.9	0.6	5	0.8	40.1	0.76	2.09	0.08	109	0.92	0.061	8.4	114.7	1.67	136.7	0.077	6	1.94	0.008	0.09	0.2	12.4	0.05	0.1	107	1.9	0.07	5.6	11	3	
1494646	8 V	344098	6747198	2.97	233.97	6.89	114	301	86.6	22.3	747	4.59	19.1	0.6	5	0.5	38.6	0.45	3.23	0.11	93	0.93	0.099	8.9	115.8	1.48	135	0.037	5	1.94	0.007	0.07	0.1	7.9	0.06	0.1	483	2.3	0.05	5.5	20	4	
1494647	8 V	344040	6747118	3.51	192.63	8.89	157	288	69.1	27.1	865	4.91	25	0.6	4	0.7	41.2	1.04	2.76	0.08	100	1.1	0.064	8.1	84.9	1.45	182.4	0.066	8	1.83	0.009	0.07	0.1	9.5	0.05	0.12	93	2.7	0.07	5.7	13	4	
1494648	8 V	343949	6747061	2.42	196.24	6.51	116.9	233	119.7	23.7	781	4.79	14.7	0.6	5.2	0.9	23.1	0.27	3.77	0.09	100	0.48	0.043	6.9	156.8	2.26	169.5	0.129	3	2.28	0.002	0.05	0.1	8.2	0.04	0.02	113	1.1	0.07	6.2	13	5	
1494649	8 V	343872	6746991	3.04	153.69	7.97	131.7	263	61.5	26.1	779	5.02	18.7	0.4	10.5	0.7	22.9	0.69	2.27	0.07	102	0.49	0.053	6.1	100.7	1.67	162.4	0.127	4	2.13	0.003	0.05	<0.1	6.8	0.04	0.05	47	2	0.03	5.9	11	3	
1494650	8 V	343737	6746948	3.6	243.58	7.84	161.1	340	75	35.5	1077	5.39	24.6	0.6	5.6	0.7	31.4	0.98	5.85	0.1	109	0.57	0.079	8.4	107.3	1.85	141.6	0.111	4	2.27	0.003	0.07	<0.1	8.1	0.05	0.06	52	2.3	0.06	6.9	16	<2	
1494653	8 V	350285	6739906	1.39	37.6	17.59	49.4	298	27.8	15.3	493	2.38	4.5	0.8	72.3	0.7	149.2	0.28	0.36	0.06	51	2.5	0.07	6.9	35.6	0.84	73.5	0.093	15	1.17	0.016	0.09	0.1	3.5	0.05	0.11	39	1.3	0.04	3.3	<10	<2	
1494655	8 V	349712	6741618	1.4	63.06	9.52	78.7	221	58.3	22.7	826	3.96	20	0.5	11.5	1.2	43.9	0.18	0.72	0.12	86	0.88	0.065	7	83	1.27	84	0.17	3	2.1	0.01	0.12	0.1	5.1	0.03	<0.02	13	0.6	0.04	6	<10	<2	
1494656	8 V	349869	6741604	1.52	61.53	9.16	62.7	231	44.1	19.9	412	3.67	16.3	0.7	11.8	1.6	41.3	0.07	0.47	0.13	86	0.79	0.083	9.5	78.7	1.2	116.4	0.113	2	2.49	0.008	0.06	0.1	5.6	0.07	<0.02	22	0.5	<0.02	7	<10	<2	
1494657	8 V	349985	6741577	0.84	112.5	26.35	62.5	286	132	24	581	4.09	15.6	0.5	27.5	1.7	39.4	0.09	0.52	0.09	95	0.92	0.022	8.7	143.4	1.71	93.3	0.237	2	2.41	0.015	0.09	0.1	6.6	0.03	0.02	12	0.4	<0.02	6	<10	<2	
1494658	8 V	350069	6741438	0.83	115.01	7.53	61.5	48	160.6	29.5	649	4.43	9.1	0.4	6.1	1.4	36.6	0.05	0.37	0.07	114	0.99	0.017	5.7	198.7	2.3	88.8	0.354	3	2.84	0.008	0.05	<0.1	5.7	0.03	<0.02	8	0.5	0.02	7.2	<10	<2	
1494659	8 V	350152	6741250	1.2	50.75	11.87	65.9	101	65	22	642	3.96	10.8	0.6	4.8	1.8	38.5	0.06	0.53	0.1	96	0.7	0.048	8.3	99.6	1.4	136.4	0.176	2	2.36	0.012	0.06	0.1	6	0.04	<0.02	16	0.5	0.03	6.5	<10	<2	
1494660	8 V	350164	6741148	0.5	116.01	6.32	42.5	94	57.3	16.4	448	3.44	8.4	0.5	8.4	2.9	33.5	0.06	0.34	0.06	86	0.58	0.024	14.1	67.8	0.85	48.6	0.161	3	1.56	0.033	0.11	<0.1	8.1	0.07	<0.02	79	0.2	<0.02	4.4	<10	<2	
1494661	8 V	350054	6741121	0.91	102.37	24.66	58.5	242	150.8	29	593	4.17	15.5	0.5	9.4	1.5	35.8	0.1	0.48	0.09	97	1.03	0.021	6.8	189.9	2.07	70.7	0.278	3	2.33	0.009	0.08	0.1	6.3	0.04	0.02	20	0.4	0.03	5.9	<10		2
1494662	8 V	350000	6741248	0.76	165.26	7.36	54.9	158	127.1	25.2	638	3.62	9.7	0.3	7.2	1.1	119.5	0.08	0.5	0.08	82	4.99	0.05	8.7	121.9	1.89	111.2	0.185	4	2.06	0.02	0.06	0.1	5	0.03	0.03	35	0.8	0.04	5.1	<10		6
1494663	8 V	349815	6741406	0.66	223.22	11.81	74.6	106	103.5	26.8	857	4.59	12.7	0.4	10.1	1.6	40.1	0.05	0.42	0.09	107	1.02	0.06	9.3	149.7	2.06	109.9	0.268	5	2.82	0.011	0.06	0.1	8.1	0.03	<0.02	47	0.3	0.06	7.5	<10	<2	
1494664	8 V	349741	6741461	1.26	62.93	9.76	68.4	130	64.6	24.4	554	3.97	15.9	0.5	20.7	1.6	35.4	0.12	0.59	0.1	90	0.82	0.033	5.7	98.8	1.34	65	0.245	2	2.29	0.009	0.13	0.1	5	0.03	<0.02	15	0.5	0.03	6.8	<10	<2	
1494665	8 V	344748	6744799	3.88	79.73	11.44	152.4	288	49.9	20.8	805	4.22	15.4	0.7	0.7	0.6	45.3	0.65	1.78	0.18	52	0.58	0.117	10.7	75.3	1.03	208.3	0.017	<1	1.69	0.01	0.06	0.1	3.3	0.07	0.14	36	2	0.06	4.1	<10	<2	
1494666	8 V	344825	6744800	5.35	152.95	10.36	178.5	355	111.1	31.3	869	4.98	11.2	0.7	5.7	1.1	33.1	0.84	1.65	0.11	66	0.57	0.043	9.6	181.4	2.16	128.7	0.074	1	2.45	0.003	0.07	0.1	6.4	0.06	0.06	47	2.6	0.13	4.7	16	6	
1494667	8 V	344898	6744799	2.39	112.85	7.79	130.9	208	77.4	26.4	736	3.55	8.1	0.4	9.5	0.5	42.5	0.88	1.09	0.08	51	1.18	0.065	5.4	135.2	1.63	130.3	0.048	2	1.79	0.007	0.05	0.2	4	0.04	0.15	36	1.4	0.06	3.7	<10		3	
1494668	8 V	344974	6744800	5.27	150.26	10.45	212.5	526	86.5	25.7	751	4.18	35.5	1.7	3.2	1.2	44	1.45	2.06	0.27	50	1.26	0.077	11.9	108.2	1.44	172.1	0.022	3	1.83	0.006	0.06	0.2	5.2	0.05	0.11	70	7.3	0.15	3.9	<10		2	
1494669	8 V	345025	6744797	4.91	186.73	9.56	181.3	256	104.7	34.1	887	4.62	12.3	0.8	15.1	1	31.1	0.61	1.63	0.24	65	0.47	0.052	8.1	213.7	2.33	195.7	0.048	2	2.41	0.005	0.05	0.2	6.3	0.04	0.02	81	1.8	0.28	5.3	12	3	
1494670	8 V	344971	6744753	3.24	194.91	17.28	194.6	352	90.3	35.3	1012	4.57	16.1	0.6	8.8	1.2	37.1	0.91	1.69	0.24	57	0.69	0.062	12.8	155.3	1.9	168.9	0.037	2	2.24	0.007	0.05	0.1	5.3	0.04	0.06	65	2	0.22	5.3	10	5	
1494671	8 V	344855	6744758	4.64	130.97	14.37	174.2	366	63.3	29.7	982	4.38	22.1	0.8	8.7	1.7	37.5	0.95	2.61	0.25	47	0.56	0.106	15.4	68.7	1.02	210.4	0.019	1	1.62	0.007	0.06	0.2	5.3	0.07	0.05	86	1.8	0.14	3.8	<10	<2	
1494672	8 V	344754	6744752	4.18	137.4	19.44	141	390	74.8	28.9	1605	5.4	19.3	0.7	5.2	1.4	46.3	0.34	1.72	0.27	49	0.49	0.082	13.8	70.9	1.24	196.4	0.04	<1	2.13	0.009	0.05	0.1	4.9	0.04	0.08	57	1.6	0.19	5.6	<10	<2	
1494673	8 V	344698	6744710	4.64	136.94	17.78	173.5	338	70.1	28.9	1126	5.39	23	0.8	6.2	1.6	38.3	0.52	2.66	0.26	50	0.39	0.097	15.6	66	1.19	222.3	0.02	1	2.07	0.009	0.06	0.1	5.2	0.07	0.08	49	2.1	0.15	5.2	<10	<2	
1494674	8 V	344603	6744696	4.69	119.69	19.13	145.7	597	63.6	21.2	796	4.54	21.5	0.9	5.3	1.6	52.5	0.42	2.1	0.22	49	0.63	0.089	14.4	76	1.07	309.3	0.013	1	1.75	0.013	0.05	0.1	5.8	0.07	0.1	56	3.3	0.15	4.3	<10	<2	
1494701	8 V	343011	6747115	1.01	115.03	41.89	131.9	540	39.2	19.3	939	3.49	10.9	1.1	3.9	6.8	29.1	0.4	0.97	0.33	27	0

ACME ID	ZONE	X	Y	MoPPM	CuPPM	PbPPM	ZnPPM	AgPPB	NiPPM	CoPPM	MnPPM	FePER	AsPPM	UPPM	AuPPB	ThPPM	SrPPM	CdPPM	SbPPM	BiPPM	VPPM	CaPER	PPER	LaPPM	CrPPM	MgPER	BaPPM	TiPER	BPPM	AlPER	NaPER	KPER	WPPM	ScPPM	TIPPM	SPER	HgPPB	SePPM	TePPM	GaPPM	PdPPB	PtPPB
1494716	8 V	342724	6747172	5.32	145.9	51.87	304.9	1138	76.5	43.7	1195	6.98	39.9	1.4	1	4.1	42.7	2.94	2.63	0.46	49	1.27	0.121	37.8	25.6	0.55	162.1	0.003	2	1.05	0.008	0.04	0.1	8.7	0.04	0.13	54	7	0.44	2.8	<10	<2
1494717	8 V	342775	6747251	11.16	104.4	30.73	337.6	1034	51.6	16.5	601	5.59	41.1	2.1	1.7	3.3	67.3	2.37	3.76	0.37	54	0.15	0.104	20.1	32.7	0.41	155.5	0.01	3	0.85	0.034	0.05	0.1	6.7	0.08	0.21	94	7.1	0.25	2.2	<10	<2
1494718	8 V	342851	6747313	6.88	93.49	19.18	233.2	1117	42	26.4	4575	7.02	71.2	2.7	1.2	4	108.6	3.5	2.34	0.27	51	1.15	0.159	56.1	16.7	0.65	473.4	0.002	2	1.63	0.025	0.06	0.1	11.8	0.09	0.23	184	4.9	0.17	4.4	<10	3
1494719	8 V	344300	6743218	1.89	70.78	14.84	78.1	153	37.1	21.5	652	3.57	14	0.8	2.7	0.8	72.3	0.1	0.93	0.32	63	1.02	0.109	10.4	36.2	1.04	127.8	0.049	3	2.01	0.013	0.06	0.2	3.9	0.07	0.07	41	0.6	0.03	5.2	<10	<2
1494720	8 V	344269	6743191	1.77	60.94	15.23	81.5	184	33.9	18.7	688	3.55	17	0.8	3.8	0.9	73.8	0.19	0.88	0.23	61	1.11	0.096	10.2	37.5	1.07	104.3	0.059	2	1.88	0.014	0.08	0.1	3.9	0.06	0.08	51	0.5	0.04	5.1	<10	2
1494721	8 V	344222	6743194	1.91	62.33	14.93	73.2	156	32.7	20.7	692	3.55	10.4	0.7	2.1	0.8	71.7	0.09	0.89	0.2	63	1.16	0.102	8.7	36	1.03	151.5	0.054	<1	1.9	0.011	0.06	0.2	3.8	0.06	0.07	29	0.3	<0.02	5	<10	2
1494722	8 V	344125	6743188	2.25	84.04	18.04	99.3	282	42	24.9	704	3.85	13.2	0.7	4.8	1.6	70.3	0.36	1	0.17	68	1.05	0.108	11.4	36.1	1.26	70.7	0.106	2	2.08	0.012	0.09	0.2	5.1	0.05	0.05	47	0.5	0.03	5.8	<10	<2
1494723	8 V	344088	6743172	2.58	153.13	28.75	131.1	329	61.3	33.1	805	4.56	19.9	0.7	7.1	2.2	71.6	0.21	1.42	0.27	76	0.87	0.09	10.5	43.2	1.47	77.8	0.135	2	2.41	0.008	0.07	0.2	5.5	0.05	0.03	59	0.7	0.05	6.1	<10	<2
1494724	8 V	344336	6743240	1.93	65.72	16.48	85.2	115	40	22.6	719	3.95	14.1	0.8	4.6	1	61.1	0.13	1.01	0.19	69	0.76	0.12	10.3	40.1	1.14	113.6	0.049	1	2.25	0.01	0.06	0.2	4.1	0.08	0.07	44	0.4	0.03	5.4	<10	<2
1494725	8 V	344370	6743253	1.9	62.23	17.46	78.8	164	35.3	21.9	693	3.48	12	0.8	3.4	0.7	66.7	0.12	0.9	0.17	61	0.95	0.121	9.8	36.7	0.96	116.5	0.043	2	1.88	0.013	0.06	0.1	3.2	0.08	0.08	36	0.7	<0.02	5	<10	3
1494726	8 V	344639	6745112	0.79	211.31	7.26	76.6	147	133.3	38.8	869	4.36	3.4	0.2	2.7	0.3	17.3	0.33	0.36	0.03	70	0.82	0.033	2.2	271	3.25	44.4	0.164	2	2.86	0.003	0.02	<0.1	6.4	<0.02	0.05	16	0.7	0.05	3.5	11	5
1494727	8 V	344604	6745072	1.23	157.92	6.72	109.9	141	99.7	34.3	822	3.89	5.5	0.2	4.3	0.4	23.8	0.64	0.59	0.07	66	0.82	0.073	3.1	231.2	2.32	55.7	0.055	2	2.25	0.008	0.07	1.4	5.7	<0.02	0.11	14	0.8	0.04	3.5	11	3
1494728	8 V	344582	6744984	3.44	175.02	8.44	164.9	291	89.4	34.5	975	4.32	9.7	0.5	7.8	0.6	36.4	1.3	1.12	0.11	63	1.27	0.085	6.5	171.4	1.84	148.6	0.05	3	1.98	0.012	0.06	<0.1	5.8	0.05	0.2	49	2.3	0.1	3.7	14	5
1494729	8 V	344637	6744974	2.32	155.16	7.31	128.7	221	85.4	29.8	958	3.89	7.6	0.4	22.8	0.5	37.1	0.92	0.88	0.08	58	1.36	0.089	5.3	160.3	1.81	107.2	0.04	3	1.91	0.011	0.07	<0.1	5.2	0.04	0.19	56	1.7	0.19	3.7	<10	2
1494730	8 V	344679	6744938	4.96	106.82	13.27	179.5	360	71.5	24.5	871	3.95	12.2	0.7	8.7	0.9	35.7	1.38	1.51	0.13	49	0.86	0.073	10.5	97.1	1.25	224.8	0.033	2	1.55	0.008	0.07	<0.1	4.8	0.06	0.17	39	2.5	0.15	3.4	<10	6
1494731	8 V	344600	6744898	4.73	114.66	9.95	183.1	261	81.5	26.2	767	4.16	10.6	0.6	5.7	0.8	31	1.49	1.23	0.12	50	1.11	0.065	8.9	119.7	1.51	142	0.046	2	1.64	0.007	0.06	<0.1	5.1	0.04	0.17	49	2.1	0.09	3.5	13	5
1494732	8 V	344653	6744899	3.8	127.95	9.29	141.5	328	71.6	24.9	812	4.12	12.8	0.7	2.6	0.6	39.3	0.8	1.51	0.12	53	0.83	0.096	10.1	112.4	1.38	198.1	0.028	4	1.75	0.012	0.06	0.1	4.8	0.07	0.16	53	2.7	0.09	3.7	11	<2
1494733	8 V	344700	6744897	3	123.58	14.1	157.7	327	65.2	29.5	1065	4.32	17.5	0.7	1.7	1.8	39.3	0.88	1.51	0.17	49	0.62	0.081	20	83.8	1.26	201.4	0.029	<1	1.84	0.01	0.06	0.1	5.3	0.05	0.1	36	2.3	0.1	4.2	<10	2
1494734	8 V	344749	6744900	6.93	151.53	22.32	213.3	577	82.6	34	1704	5.53	21.1	1.1	1.7	1.8	41.8	1.36	2.27	0.22	51	0.7	0.112	20.1	83.7	1.33	171.8	0.032	2	2.01	0.006	0.07	0.1	6.3	0.06	0.08	54	2.9	0.2	4.7	<10	<2
1494735	8 V	344800	6744900	1.87	179	7.32	143.6	158	137.2	37	848	5.18	5.3	0.4	6.2	0.7	35.1	0.34	0.72	0.07	77	0.8	0.06	5.2	265.2	3.08	159.6	0.122	<1	2.97	0.005	0.07	0.1	6.2	0.02	0.05	22	1.2	0.1	5.9	11	11
1494736	8 V	344851	6744899	17.6	167.36	15.32	413.6	784	110.9	26	860	5.36	27.7	1.2	0.4	1.6	27.4	4.04	4	0.21	56	0.66	0.071	18.1	101.3	1.39	220.9	0.04	<1	1.63	0.005	0.07	0.3	5.5	0.12	0.19	92	5.8	0.21	3.5	<10	6
1494737	8 V	344899	6744900	5.46	173.45	7.86	255.9	288	120.4	33.6	873	5.07	13	0.4	5	0.9	31.5	1.85	1.74	0.1	66	0.82	0.055	8.3	204.1	2.2	203	0.071	3	2.33	0.004	0.08	0.3	6	0.05	0.09	81	2.3	0.04	4.6	<10	8
1494738	8 V	344821	6744969	0.42	184.38	2.61	72.4	78	132.7	45.2	868	4.88	0.4	<0.1	13.8	<0.1	30.4	0.18	0.13	0.03	87	0.88	0.044	0.6	284.6	3.7	30.7	0.152	1	3.22	<0.001	0.04	<0.1	5.9	<0.02	<0.02	14	0.3	0.04	5.2	21	6
1494739	8 V	344753	6744952	0.58	184.07	8.2	84.7	104	121.4	44.9	951	5.94	1.1	<0.1	23.7	0.1	37.8	0.13	0.18	0.03	104	1.04	0.047	0.8	225.2	3.58	62.7	0.1	2	3.54	<0.001	0.06	0.1	10	<0.02	0.02	29	0.6	0.11	6.3	22	4
1494740	8 V	344949	6744850	9.11	149.54	10.74	231.3	460	98.8	26	787	4.66	17.9	1.1	5.6	0.8	37.4	1.26	2.31	0.14	62	0.75	0.074	9.2	141.9	1.69	247.8	0.031	1	2.02	0.006	0.06	0.2	5.7	0.08	0.09	64	2.6	0.08	4.2	13	2
1494741	8 V	344900	6744850	7.17	127.34	10.01	209	352	80.1	22.6	655	4.12	17.1	0.6	5.3	0.8	36.2	1.35	2.31	0.14	52	0.89	0.067	8.3	97.1	1.39	190.8	0.029	2	1.63	0.008	0.06	0.2	4.6	0.07	0.15	98	3	0.05	3.3	<10	3
1494742	8 V	344850	6744850	9.28	179.5	19.23	474.6	631	129.6	31.3	833	5.18	20.3	0.6	0.6	1.7	31.2	4.5	2.81	0.17	66	0.65	0.059	10.5	148.7	1.96	154.9	0.097	<1	2.12	0.002	0.06	0.2	5.8	0.08	0.09	104	3.3	0.11	4.2	<10	7
1494743	8 V	344799	6744850	10	149.32	11.8	293.3	512	118.6	31.4	871	5.37	17	0.9	<0.2	1.6	24.6	3.47	2.61	0.16	64	0.45	0.075	13.9	163.5	1.92	111.3	0.081	1	1.99	0.003	0.06	0.1	6.1	0.08	0.14	70	4.7	0.1	4	<10	4
1494744	8 V	344750	6744850	3.97	96.62	14.42	155.9	353	53.2	24.2	919	4.18	15.5	0.8	2	0.7	50.4	1.05	1.57	0.17	49	0.68	0.143	12.5	70.5	1.02	279.8	0.019	2	1.71	0.013	0.06	0.1	3.9	0.08	0.15	43	2.1	0.06	4.1	<10	<2
1494745	8 V	344704	6744844	3.88	95.98	12.84	151	326	70.1	27.9	961	4.52	16.3	0.8	1.7	1.4	36.1	0.65	1.56	0.31	57	0.43	0.078	11.8	105.8	1.46	190.5	0.035	2	2.01	0.009	0.08	0.1	5.6	0.05	0.09	29	1.8	0.13	4.3	<10	<2
1494746	8 V	344650	6744848	4.51	115.87	9.05	145.8	317	73.2	24.1	791	4.15	12.9	0.8	3.8	0.9	34.9	0.66	1.51	0.21	54	0.73	0.078	10.2	118.2	1.43	268.4	0.026	1	1.88	0.009	0.05	<0.1	5.1	0.07	0.14	35	2.1	0.18	4.1	<10	5
1494747	8 V	344601	6744850	3.31	123.41	8.88	131.8	337	98.3	32.6	946	4.8	10.8	0.5	7.2	0.8	32.6	0.49	1.19	0.13	68	0.64	0.064	8	187.2	2.04	189	0.044	<1	2.38	0.006	0.05	0.1	6.4	0.05	0.1	32	1.4	0.1	4.1	<10	8
1494748	8 V	344604	6744798	3.36	130.27	15.29	179.5	382	73.4	31.9	1251	4.73	21.7	0.8	1.9	1.7	42.5	1.28	1.99	0.2	49	0.8	0.084	15	72.1	1.32	220.6	0.029	3	2.01	0.009	0.1	0.1	5.2	0.06	0.12	58	1.5	0.12	4.7	<10	3
1494749	8 V	344650	6744800	4.26	122.97	12.62	154.7	356	75	26.4	823	4.41	15.2	0.8	4.6	0.8	40.6	0.85	1.58	0.15	56	0.73	0.089	10.1	122.7	1.46	211.5	0.023	2	1.91	0.01	0.06	0.1	5.3	0.06	0.13	34	2.5	0.02	4.1	12	5
1494750	8 V	344699	6744801	4.31	124.2	17.45	157.8	495	62.2	27.9	1012	5	24	0.8	3.3	1.2	43.3	0.51	2.94	0.22	51	0.54	0.096	13.7	64.4	1.18	341.4	0.025	1	2.04	0.006	0.07	0.1	5.4	0.06	0.08	35	1.8	0.18	5.1	<10	4



N

W E

S

Kilometers

0 1 2 3 4

Legend

- Claim Boundary
- Active Quartz Claims
- waterbody
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse

Pacer

September 17, 2013 Active Quartz Claims

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

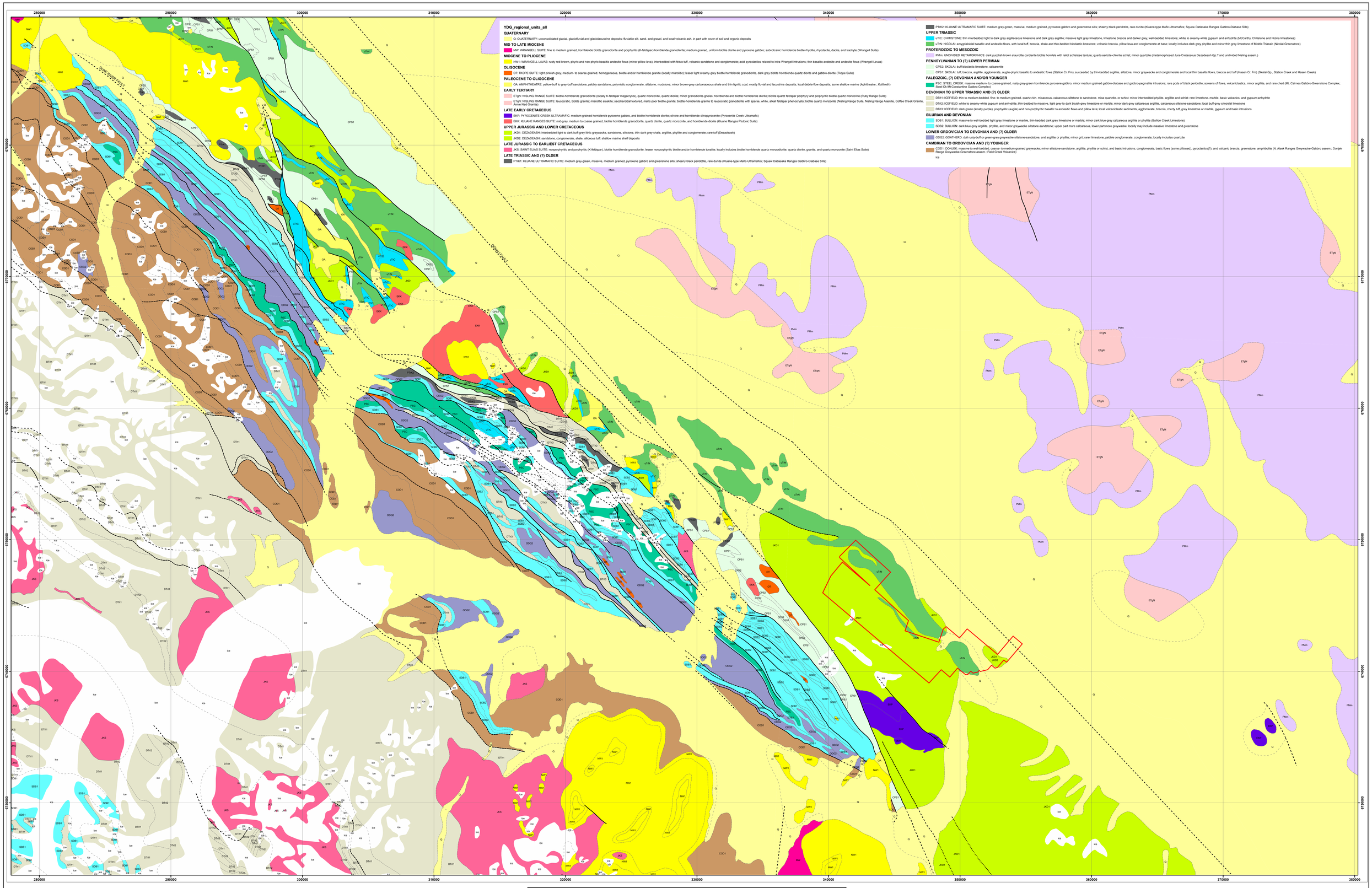
Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD



YDG_regional_units_all

QUATERNARY
- Q: QUATERNARY; unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel; and local volcanic ash, in part with cover of soil and organic deposits

MID TO LATE MIOCENE
- MW: WRANGELL SUITE: fine to medium grained, hornblende biotite granodiorite and porphyritic (K-feldspar) hornblende granodiorite; medium grained, uniform biotite diorite and pyroxene gabbro; subvolcanic hornblende biotite rhyolite, rhyodacite, dacite, and trachyte (Wrangell Suite)

MIOCENE TO PLIOCENE
- NW1: WRANGELL LAVAS: rusty red-brown, phyric and non-phyric basaltic andesite flows (minor pillow lava), interbedded with felsic tuff, volcanic sandstone and conglomerate; acid pyroclastics related to intra-Wrangell intrusions; thin basaltic andesite and andesite flows (Wrangell Lavas)

OLIGOCENE
- QT: TKOPE SUITE: light pinkish-grey, medium- to coarse-grained, homogeneous, biotite and/or hornblende granite (locally miarolitic); lesser light creamy-grey biotite hornblende granodiorite, dark grey biotite hornblende quartz diorite and gabbro-diorite (Tkope Suite)

PALEOCENE TO OLIGOCENE
- OA: AMPHITHEATRE: yellow-buff to grey-buff sandstone, pebbly sandstone, polymictic conglomerate, siltstone, mudstone; minor brown-grey carbonaceous shale and thin lignitic coal; mostly fluvial and lacustrine deposits, local debris-flow deposits; some shallow marine (Aphitheatre ; Kuitheth)

EARLY TERTIARY
- ETgN: NISLING RANGE SUITE: biotite-hornblende granodiorite (locally K-feldspar megacrysts), quartz monzonite, quartz diorite; minor granodiorite-gneiss; hornblende and biotite hornblende diorite; biotite quartz feldspar porphyry and porphyritic biotite quartz monzonite (Ruby Range Suite)
- ETgN: NISLING RANGE SUITE: leucocratic, biotite granite; miarolitic alaskite; saccharoidal textured, mafic-poor biotite granite; biotite-hornblende granite to leucocratic granodiorite with sparse, white, alkali feldspar phenocrysts; biotite quartz monzonite (Nisling Range Suite, Nisling Range Alaskite, Coffee Creek Granite, Annie Ned Granite)

LATE EARLY CRETACEOUS
- EKP: PYROXENITE CREEK ULTRAMAFIC: medium grained hornblende pyroxene gabbro, and biotite hornblende diorite; olivine and hornblende clinopyroxenite (Pyroxenite Creek Ultramafic)
- EKK: KLUANE RANGES SUITE: mid-grey, medium to coarse grained, biotite hornblende granodiorite, quartz diorite, quartz monzonite, and hornblende diorite (Kluane Ranges Plutonic Suite)

UPPER JURASSIC AND LOWER CRETACEOUS
- JKD1: DEZADEASH: interbedded light to dark buff-grey lithic greywacke, sandstone, siltstone, thin dark grey shale, argillite, phyllite and conglomerate; rare tuff (Dezadeash)
- JKD2: DEZADEASH: sandstone, conglomerate, shale, siliceous tuff: shallow marine shelf deposits

LATE JURASSIC TO EARLIEST CRETACEOUS
- JKS: SAINT ELIAS SUITE: nonporphyritic and porphyritic (K-feldspar), biotite hornblende granodiorite; lesser nonporphyritic biotite and/or hornblende tonalite; locally includes biotite hornblende quartz monzodiorite, quartz diorite, granite, and quartz monzonite (Saint Elias Suite)

LATE TRIASSIC AND (?) OLDER
- PTrK1: KLUANE ULTRAMAFIC SUITE: medium grey-green, massive, medium grained, pyroxene gabbro and greenstone sills; sheeny black peridotite, rare dunite (Kluane-type Mafic-Ultramafics; Squaw Dattaseka Ranges Gabbro-Diabase Sills)
- PTrK2: KLUANE ULTRAMAFIC SUITE: medium grey-green, massive, medium grained, pyroxene gabbro and greenstone sills; sheeny black peridotite, rare dunite (Kluane-type Mafic-Ultramafics; Squaw Dattaseka Ranges Gabbro-Diabase Sills)

UPPER TRIASSIC
- uTrC: CHITISTONE: thin interbedded light to dark grey argillaceous limestone and dark grey argillite; massive light grey limestone, limestone breccia and darker grey, well-bedded limestone; white to creamy-white gypsum and anhydrite (McCarthy, Chilkitsone and Nizina limestones)
- uTrN: NICOLAI: amygdaloidal basaltic and andesitic flows, with local tuff, breccia, shale and thin-bedded biodiastic limestone; volcanic breccia, pillow lava and conglomerate at base; locally includes dark grey phyllite and minor thin grey limestone of Middle Triassic (Nicolai Greenstone)

PROTEROZOIC TO MESOZOIC
- PMm: UNDIVIDED METAMORPHICS: dark purplish brown staurolite cordierite biotite hornfels with relict schistose texture; quartz-sericite-chlorite schist; minor quartzite (metamorphosed Jura-Cretaceous Dezadeash Gp.? and undivided Nisling assem.)

PENNSYLVANIAN TO (?) LOWER PERMIAN
- CPS2: SKOLAI: buff bioclastic limestone, calcarenite
- CPS1: SKOLAI: tuff, breccia, argillite, agglomerate, augite-phyric basaltic to andesitic flows (Station Cr. Frn); succeeded by thin-bedded argillite, siltstone, minor greywacke and conglomerate and local thin basaltic flows, breccia and tuff (Hasen Cr. Frn) (Skolai Gp., Station Creek and Hasen Creek)

PALEOZOIC, (?) DEVONIAN AND/OR YOUNGER
- PSC, STEEL CREEK: massive medium- to coarse-grained, rusty grey-green hornblende pyroxene gabbro, minor medium grained gabbro-diabase and gabbro-pegmatite intrusions; rare pods of black peridotite; screens of flows, volcaniclastics, minor argillite, and rare chert (Mt. Cairnes Gabbro-Greenstone Complex; Steel Ck-Mt Constantine Gabbro Complex)

DEVONIAN TO UPPER TRIASSIC AND (?) OLDER
- DTrI1: ICEFIELD: thin to medium-bedded, fine- to medium-grained, quartz-rich, micaceous, calcareous siltstone to sandstone, mica quartzite, or schist; minor interbedded phyllite, argillite and schist; rare limestone, marble, basic volcanics, and gypsum-anhydrite
- DTrI2: ICEFIELD: white to creamy-white gypsum and anhydrite; thin-bedded to massive, light grey to dark bluish-grey limestone or marble; minor dark grey calcareous argillite; calcareous siltstone-sandstone; local buff-grey crinoidal limestone
- DTrI3: ICEFIELD: dark green (locally purple), porphyritic (augite) and non-porphyritic basaltic to andesitic flows and pillow lava; local volcaniclastic sediments, agglomerate, breccia, cherty tuff, grey limestone or marble, gypsum and basic intrusions

SILURIAN AND DEVONIAN
- SDB1: BULLION: massive to well-bedded light grey limestone or marble, thin-bedded dark grey limestone or marble; minor dark blue-grey calcareous argillite or phyllite (Bullion Creek Limestone)
- SDB2: BULLION: dark blue-grey argillite, phyllite, and minor greywacke siltstone-sandstone; upper part more calcareous, lower part more greywacke; locally may include massive limestone and greenstone

LOWER ORDOVICIAN TO DEVONIAN AND (?) OLDER
- ODG2: GOATHERD: dull rusty-buff or green-grey greywacke siltstone-sandstone, and argillite or phyllite; minor grit; rarer limestone, pebble conglomerate, conglomerate; locally includes quartzite

CAMBRIAN TO ORDOVICIAN AND (?) YOUNGER
- COD1: DONJEK: massive to well-bedded, coarse- to medium-grained greywacke; minor siltstone-sandstone, argillite, phyllite or schist, and basic intrusions; conglomerate, basic flows (some pillowed), pyroclastics(?), and volcanic breccia; greenstone, amphibolite (N. Alsek Ranges Greywacke-Gabbro assem.; Donjek Range Greywacke-Greenstone assem.; Field Creek Volcanics)

ice

N
W E
S

Kilometers
0 5 10 15 20

Legend

Claim Boundary

ydg_contacts
- INTRUSIVE: defined; approximate; assumed; extrapolated
- STRATIGRAPHIC: defined; approximate; assumed
- extrapolated

ydg_faults

SURFICIAL	DEXTRAL	SINISTRAL
defined	defined	defined
approximate	approximate	extrapolated
extrapolated	assumed	
UNKNOWN	extrapolated	
defined		
approximate		
assumed		
extrapolated		

NORMAL / REVERSE	THRUST UPRIGHT	THRUST OVERTURNED	MOVEMENT UNDEFINED
defined	defined	defined	defined
approximate	approximate	approximate	approximate
assumed	assumed	assumed	assumed
extrapolated	extrapolated	extrapolated	extrapolated

Pacer	**YGS Regional Geology**
	Yukon Quartz Claim Group Grassroots Au, Ni, Cu, PGE
Date: 23/09/2013	Coordinate System: WGS 1984 UTM Zone 8N Projection: Transverse Mercator Datum: WGS 1984 False Easting: 500,000.0000 False Northing: 0.0000 Central Meridian: -135.0000 Scale Factor: 0.9996 Latitude Of Origin: 0.0000 Units: Meter
Author: James Rogers	
Magnetic Declination: 20° 59' East	
1:88,542	
Longford Exploration Services LTD	

WELLGREEN DEPOSIT

PACER CLAIM GROUP

YDG_regional_units_all

QUATERNARY

Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID TO LATE MIOCENE

MW: WRANGELL SUITE: fine to medium grained, hornblende biotite granodiorite and porphyritic (K-feldspar) hornblende granodiorite; medium grained, uniform biotite diorite and pyroxene gabbro; subvolcanic hornblende biotite rhyolite, rhyodacite, dacite, and trachyte (Wrangell Suite)

MIOCENE TO PLIOCENE

NW1: WRANGELL LAVAS: rusty red-brown, phyric and non-phyric basaltic andesite flows (minor pillow lava), interbedded with felsic tuff, volcanic sandstone and conglomerate; acid pyroclastics related to intra-Wrangell intrusions; thin basaltic andesite and andesite flows (Wrangell Lavas)

NW2: WRANGELL LAVAS: volcanic conglomerate; clasts all Wrangell derived (Wrangell Lavas)

OLIGOCENE

OT: TKOPE SUITE: light pinkish-grey, medium- to coarse-grained, homogeneous, biotite and/or hornblende granite (locally miarolitic); lesser light creamy-grey biotite hornblende granodiorite, dark grey biotite hornblende quartz diorite and gabbro-diorite (Tkope Suite)

LOWER EOCENE

IES2: SKUKUM: heterogeneous intermediate to felsic, hornblende-feldspar porphyritic tuff, flow breccia; volcaniclastic mudstone, sandstone and conglomerate; aphanitic to feldspar porphyritic dacite flows and dykes; flow-banded rhyolite and felsic dykes and sills (Mount Creedon Volcanics, some strata formerly mapped as Mt. Nansen Gp.)

PALEOCENE TO OLIGOCENE

OA: AMPHITHEATRE: yellow-buff to grey-buff sandstone, pebbly sandstone, polymictic conglomerate, siltstone, mudstone; minor brown-grey carbonaceous shale and thin lignitic coal; mostly fluvial and lacustrine deposits, local debris-flow deposits; some shallow marine (Aphitheatre ; Kulthieth)

EARLY TERTIARY

ETN: NISLING RANGE SUITE: orange and buff weathering light-coloured feldspar porphyry dyke and flow rocks of intermediate to acid composition

ETqN: NISLING RANGE SUITE: biotite-hornblende granodiorite (locally K-feldspar megacrysts), quartz monzonite, quartz diorite; minor granodiorite-gneiss; hornblende and biotite hornblende diorite; biotite quartz feldspar porphyry and porphyritic biotite quartz monzonite (Ruby Range Suite)

ETqN: NISLING RANGE SUITE: leucocratic, biotite granite, miarolitic alaskite, saccharoidal textured, mafic-poor biotite granite; biotite-hornblende granite to leucocratic granodiorite with sparse, white, alkali feldspar phenocrysts; biotite quartz monzonite (Nisling Range Suite, Nisling Range Alaskite, Coffee Creek Granite, Annie Ned Granite)

LATE EARLY CRETACEOUS

EKP: PYROXENITE CREEK ULTRAMAFIC: medium grained hornblende pyroxene gabbro, and biotite hornblende diorite; olivine and hornblende clinopyroxenite (Pyroxenite Creek Ultramafic)

EKK: KLUANE RANGES SUITE: mid-grey, medium to coarse grained, biotite hornblende granodiorite, quartz diorite, quartz monzonite, and hornblende diorite (Kluane Ranges Plutonic Suite)

UPPER CRETACEOUS

uKC2: CARMACKS: acid vitric crystal tuff, lapilli tuff and welded tuff including feeder plugs and necks; felsic volcanic flow rocks and quartz feldspar porphyries; green and purple massive tuff-breccia with feldspar phyric fragments (Carmacks Gp., Donjek Volcanics, some rocks formerly mapped as Mt. Nansen Gp.; the felsic part of the Carmacks Gp. is difficult to distinguish from similar Tertiary and mid-Cretaceous (Mt. Nansen) felsic volcanic strata)

UPPER JURASSIC AND LOWER CRETACEOUS

JKD1: DEZADEASH: interbedded light to dark buff-grey lithic greywacke, sandstone, siltstone, thin dark grey shale, argillite, phyllite and conglomerate; rare tuff (Dezadeash)

JKD2: DEZADEASH: sandstone, conglomerate, shale, siliceous tuff: shallow marine shelf deposits

LATE JURASSIC TO EARLIEST CRETACEOUS

JKS: SAINT ELIAS SUITE: nonporphyritic and porphyritic (K-feldspar), biotite hornblende granodiorite; lesser nonporphyritic biotite and/or hornblende tonalite; locally includes biotite hornblende quartz monzodiorite, quartz diorite, granite, and quartz monzonite (Saint Elias Suite)

EARLY JURASSIC

EdgA: AISHIHIK SUITE: medium- to coarse- grained, foliated biotite-hornblende granodiorite; biotite-rich screens and gneissic schlieren; foliated hornblende diorite to monzodiorite with local K-feldspar megacrysts; may include unfoliated monzonite of the Long Lake Suite (Aishihik Suite)

LATE TRIASSIC AND (?) OLDER

PTrK1: KLUANE ULTRAMAFIC SUITE: medium grey-green, massive, medium grained, pyroxene gabbro and greenstone sills; sheeny black peridotite, rare dunite (Kluane-type Mafic-Ultramafics; Squaw Dataisaka Ranges Gabbro-Diabase Sills)

PTrK2: KLUANE ULTRAMAFIC SUITE: medium grey-green, massive, medium grained, pyroxene gabbro and greenstone sills; sheeny black peridotite, rare dunite (Kluane-type Mafic-Ultramafics; Squaw Dataisaka Ranges Gabbro-Diabase Sills)

UPPER TRIASSIC

uTrC: CHITISTONE: thin interbedded light to dark grey argillaceous limestone and dark grey argillite; massive light grey limestone, limestone breccia and darker grey, well-bedded limestone; white to creamy-white gypsum and anhydrite (McCarthy, Chitistone and Nizina limestones)

uTrN: NICOLAI: amygdaloidal basaltic and andesitic flows, with local tuff, breccia, shale and thin-bedded bioclastic limestone; volcanic breccia, pillow lava and conglomerate at base; locally includes dark grey phyllite and minor thin grey limestone of Middle Triassic (Nicolai Greenstone)

PROTEROZOIC TO MESOZOIC

PMm: UNDIVIDED METAMORPHICS: dark purplish brown staurolite cordierite biotite hornfels with relict schistose texture; quartz-sericite-chlorite schist; minor quartzite (metamorphosed Jura-Cretaceous Dezadeash Gp.? and undivided Nisling assem.)

DEVONIAN TO CRETACEOUS?

PMW4: WINDY: thin-bedded limestone and marble

PMW5: WINDY: quartz-chlorite-sericite schist, epidote-actinolite greenschist, quartzite, slate, quartz-mica schist, limestone

LATE PENNSYLVANIAN TO EARLY PERMIAN

CPI: ICEFIELD RANGES SUITE (270-290 MA): mid- to dark greenish-grey, medium grained, nonfoliated and foliated, biotite hornblende quartz monzodiorite-quartz diorite-diorite, veined and intruded by leucocratic granodiorite and quartz syenite (agmatite); pink hornblende syenite (cofield Ranges Suite)

PENNSYLVANIAN TO (?) LOWER PERMIAN

CPS2: SKOLAI: buff bioclastic limestone, calcarenite

CPS1: SKOLAI: tuff, breccia, argillite, agglomerate, augite-phyric basaltic to andesitic flows (Station Cr. Fm); succeeded by thin-bedded argillite, siltstone, minor greywacke and conglomerate and local thin basaltic flows, breccia and tuff (Hasen Cr. Fm) (Skolai Gp., Station Creek and Hasen Creek)

PALEOZOIC, (?) DEVONIAN AND/OR YOUNGER

PSC: STEEL CREEK: massive medium- to coarse-grained, rusty grey-green hornblende pyroxene gabbro, minor medium grained gabbro-diabase and gabbro-pegmatite intrusions; rare pods of black peridotite; screens of flows, volcaniclastics, minor argillite, and rare chert (Mt. Cairnes Gabbro-Greenstone Complex; Steel Ck-Mt Constantine Gabbro Complex)

DEVONIAN TO UPPER TRIASSIC AND (?) OLDER

DTrI1: ICEFIELD: thin to medium-bedded, fine- to medium-grained, quartz-rich, micaceous, calcareous siltstone to sandstone, mica quartzite, or schist; minor interbedded phyllite, argillite and schist; rare limestone, marble, basic volcanics, and gypsum-anhydrite

DTrI2: ICEFIELD: white to creamy-white gypsum and anhydrite; thin-bedded to massive, light grey to dark bluish-grey limestone or marble; minor dark grey calcareous argillite, calcareous siltstone-sandstone; local buff-grey crinoidal limestone

DTrI3: ICEFIELD: dark green (locally purple), porphyritic (augite) and non-porphyritic basaltic to andesitic flows and pillow lava; local volcaniclastic sediments, agglomerate, breccia, cherty tuff, grey limestone or marble, gypsum and basic intrusions

DEVONIAN, MISSISSIPPIAN AND(?) OLDER

DMN3: NASINA: quartzite, micaceous quartzite, quartz muscovite (chlorite; feldspar augen) schist, and minor metaconglomerate and metagrit as in (1), but may locally include significant Nisling Assemblage

LATE PROTEROZOIC AND PALEOZOIC

PPN1: NISLING: dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor(?) two-mica gneiss and hornblende diorite gneiss; may include Nasina Assem. (Nisling assem.)

PPN2: NISLING: bleached white-weathering, white to grey, coarsely crystalline, flow banded, fetid marble; graphite, chert, metabasite and calc-silicate lamina are common (Nisling assem.)

SILURIAN AND DEVONIAN

SDB1: BULLION: massive to well-bedded light grey limestone or marble, thin-bedded dark grey limestone or marble; minor dark blue-grey calcareous argillite or phyllite (Bullion Creek Limestone)

SDB2: BULLION: dark blue-grey argillite, phyllite, and minor greywacke siltstone-sandstone; upper part more calcareous, lower part more greywacke; locally may include massive limestone and greenstone

LOWER ORDOVICIAN TO DEVONIAN AND (?) OLDER

ODG2: GOATHERD: dull-rusty-buff or green-grey greywacke siltstone-sandstone, and argillite or phyllite; minor grit; rarer limestone, pebble conglomerate, conglomerate; locally includes quartzite

CAMBRIAN TO ORDOVICIAN AND (?) YOUNGER

COD1: DONJEK: massive to well-bedded, coarse- to medium-grained greywacke; minor siltstone-sandstone, argillite, phyllite or schist, and basic intrusions; conglomerate, basic flows (some pillowed), pyroclastics(?), and volcanic breccia; greenstone, amphibolite (N. Alsek Ranges Greywacke-Gabbro assem.; Donjek Range Greywacke-Greenstone assem.; Field Creek Volcanics)

Ice

Legend

Claim Boundary

ydg_contacts

INTRUSIVE: defined, approximate, assumed, extrapolated

STRATIGRAPHIC: defined, approximate, assumed, extrapolated

SURFICIAL: defined, approximate, extrapolated

UNKNOWN: defined, approximate, assumed, extrapolated

ydg_faults

DEXTRAL: defined, approximate, assumed, extrapolated

SINISTRAL: defined, approximate, assumed, extrapolated

NORMAL / REVERSE: defined, approximate, assumed, extrapolated

THRUST OVERTURNED: defined, approximate, assumed, extrapolated

THRUST UPRIGHT: defined, approximate, assumed, extrapolated

MOVEMENT UNDEFINED: defined, approximate, assumed, extrapolated

N W E S

Kilometers

0 7.5 15 22.5 30

Pacer

YGS Regional Geology

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 23/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:125,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD

Legend

- Claim Boundary
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse
- waterbody

Bedrock Geology

Yukon Minfile

- 115A036 Archibald
- 115A053 BH
- 115A040Decoeli

Strike and Dip Measurements

- antiform
- bedding
- bedding o/t
- cleavage
- contact
- contact vertical
- dyke
- fault
- fault vertical
- flow banding
- flow banding horizontal
- flow banding vertical
- schistocity
- vein

Faults

U/K Movement

- Confirmed
- Approximate
- Inferred

Lithology

Unit Name

- Gos: Gossen
- JKp: Jura-Cretaceous intrusive dykes
- JKsD1: Dezadeash Formation
- JKsD2: Highly deformed Dezadeash Formation
- JKsD3: Bear Creek Formation
- PTrKg: Gabbro of the Kluane Mafic-Ultramafic Complex
- PTrKp: Peridotite of the Kluane Mafic-Ultramafic Complex
- Phy: Phyllite
- Q: Quaternary sediments
- QzCb: Quartz Carbonate vein
- Sh: Shale
- mKp: Mid-Cretaceous intrusive
- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

U/K

3071

2668

1303

337.8

304.9

251.4

2265

413.6

474.6

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
2.5% Cu

15 Kilometers to
Haines Junction pop 600
160km to Whitehorse
255km paved to
deep port in Haines, AK

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample AgPPB	Soil Sample AgPPB	Sediment Sample AgPPB
0-75	48-140	63-130
75-200	140-300	130-230
200-700	300-450	230-500
700-1300	450-750	500-575
1300-3071	750-1138	575-658

Pacer

2013 Ag Assays PPB

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

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Longford Exploration Services LTD

Bedrock Geology

Legend

- Claim Boundary
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- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

2.144% Cu

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
2.5% Cu

15 Kilometers to
Haines Junction pop 600
160km to Whitehorse
255km paved to
deep port in Haines, AK

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample AsPPM	Soil Sample AsPPM	Sediment Sample AsPPM
0-2	0-14	0-7
2-5	14-25	7-12
5-10	25-50	12-25
10-20	50-90	25-35
20-43.9	90-145	35-147.8

Pacer

2013 As Assays PPM

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

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1:15,000

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Longford Exploration Services LTD

Legend

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Bedrock Geology

Yukon Minfile

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- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

U/K

572.6

425.8

2964.1

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
2.5% Cu

15 Kilometers to
Haines Junction pop 600
160km to Whitehorse
255km paved to
deep port in Haines, AK

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample AuPPB	Soil Sample AuPPB	Sediment Sample AuPPB
0-15	0-4	0-1
15-40	4-8	1-3
40-100	8-16	3-5
100-400	16-32	5-10
400-2964.1	32-72.3	10-14.8

Pacer

2013 Au Assays PPB

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
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Scale Factor: 0.9996
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Units: Meter

Longford Exploration Services LTD

Legend

- Claim Boundary
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse
- waterbody

Bedrock Geology

Yukon Minfile

- 115A036 Archibald
- 115A053 BH
- 115A040Decoeli

Strike and Dip Measurements

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- Sh: Shale
- mKp: Mid-Cretaceous intrusive
- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

U/K

2.144% Cu

2989.63

uTrN

JKsD1

Mt Decoeli

2763.63

6631.86

Sh

2542.15

JKp

QtzCb

PTrKg

JKsD2

17g/t Au
1.42% Cu
2480ppm Ni

Q

Mt Archibald

Gos

Archibald Cr

JKsD3

18.7g/t Au
2.5% Cu

PTrKp

Alaska Highway

15 Kilometers to
Haines Junction pop 600
160km to Whitehorse
255km paved to
deep port in Haines, AK

340000 342000 344000 346000 348000 350000 352000 354000 356000

6742000 6744000 6746000 6748000 6750000

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample CuPPM	Soil Sample CuPPM	Sediment Sample CuPPM
0-150	0-100	40-60
150-1000	100-150	60-100
500-1000	150-200	100-200
1000-2500	200-250	200-250
2500+	250-300	250-300

Pacer

2013 Cu Assays PPM

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD

Bedrock Geology

Legend

- Claim Boundary
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse
- waterbody

Yukon Minfile

- 115A036 Archibald
- 115A053 BH
- 115A040Decoeli

Strike and Dip Measurements

- antiform
- bedding
- bedding o/t
- cleavage
- contact
- contact vertical
- dyke
- fault
- fault vertical
- flow banding
- flow banding horizontal
- flow banding vertical
- schistocity
- vein

Faults

U/K Movement

- Confirmed
- Approximate
- Inferred

Lithology

Unit Name

- Gos: Gossen
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- mKp: Mid-Cretaceous intrusive
- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

U/K

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
2.5% Cu

15 Kilometers to
Haines Junction pop 600
160km to Whitehorse
255km paved to
deep port in Haines, AK

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample MnPPM		Soil Sample MnPPM		Sediment Sample MnPPM	
0-250	▲	342-700	●	276-650	■
250-600	▲	700-1000	●	500-650	■
600-1000	▲	1000-1250	●	650-750	■
1000-1780	▲	1250-2000	●	750-900	■
1780-5775	▲	2000-4575	●	900-7063	■

Pacer

2013 Mn Assays PPM

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD

Legend

- Claim Boundary
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse
- waterbody

Bedrock Geology

Yukon Minfile

- 115A036 Archibald
- 115A053 BH
- 115A040Decoeli

Strike and Dip Measurements

- antiform
- bedding
- bedding o/t
- cleavage
- contact
- contact vertical
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- fault
- fault vertical
- flow banding
- flow banding horizontal
- flow banding vertical
- schistocity
- vein

Faults

U/K Movement

- Confirmed
- Approximate
- Inferred

Lithology

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- Sh: Shale
- mKp: Mid-Cretaceous intrusive
- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

U/K

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
2.5% Cu

15 Kilometers to
Haines Junction pop 600
160km to Whitehorse
255km paved to
deep port in Haines, AK

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample NiPPM	Soil Sample NiPPM	Sediment Sample NiPPM
0-10	0-30	30-35
10-30	30-60	35-45
30-60	60-100	45-55
60-120	100-150	55-65
120-194	150-160	65-84.8

Pacer

2013 Ni Assays PPM

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
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Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD

Legend

- Claim Boundary
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse
- waterbody

Bedrock Geology

Yukon Minfile

- 115A036 Archibald
- 115A053 BH
- 115A040Decoeli

Strike and Dip Measurements

- antiform
- bedding
- bedding o/t
- cleavage
- contact
- contact vertical
- dyke
- fault
- fault vertical
- flow banding
- flow banding horizontal
- flow banding vertical
- schistocity
- vein

Faults

U/K Movement

- Confirmed
- Approximate
- Inferred

Lithology

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- QzCb: Quartz Carbonate vein
- Sh: Shale
- mKp: Mid-Cretaceous intrusive
- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

U/K

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
2.5% Cu

15 Kilometers to
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160km to Whitehorse
255km paved to
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N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample PdPPB	Soil Sample PdPPB	Sediment Sample PdPPB
0	0	0
0-13	0-9	0-11
13-17	9-12	11-14
17-24	12-15	59
24-28	15-22	

Pacer

2013 Pd Assays PPB

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

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Longford Exploration Services LTD

Legend

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Bedrock Geology

Yukon Minfile

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Faults

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Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

U/K

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
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81

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255km paved to
deep port in Haines, AK

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample PtPPB	Soil Sample PtPPB	Sediment Sample PtPPB
0	0	0
0-4	0-4	0-3
4-8	4-11	3-6
8-11	11-21	6-7
11-16	21-81	

Pacer

2013 Pt Assays PPB

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

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- fault
- fault vertical
- flow banding
- flow banding horizontal
- flow banding vertical
- schistocity
- vein

Faults

U/K Movement

- Confirmed
- Approximate
- Inferred

Lithology

Unit Name

- Gos: Gossen
- JKp: Jura-Cretaceous intrusive dykes
- JKsD1: Dezadeash Formation
- JKsD2: Highly deformed Dezadeash Formation
- JKsD3: Bear Creek Formation
- PTrKg: Gabbro of the Kluane Mafic-Ultramafic Complex
- PTrKp: Peridotite of the Kluane Mafic-Ultramafic Complex
- Phy: Phyllite
- Q: Quaternary sediments
- QzCb: Quartz Carbonate vein
- Sh: Shale
- mKp: Mid-Cretaceous intrusive
- uTrN: Upper-Triassic Nikolai Formation

Alaska Highway

Summit Cr

Archibald Cr

Mt Decoeli

Mt Archibald

U/K

2268.1

2917.9

337.8

304.9

251.4

413.6

474.6

17g/t Au
1.42% Cu
2480ppm Ni

19.7g/t Au
2.5% Cu

15 Kilometers to
Haines Junction pop 600
160km to Whitehorse
255km paved to
deep port in Haines, AK

N
W E
S

Kilometers
0 1 2 3 4

2013 Assay Results

Grab Sample ZnPPM	Soil Sample ZnPPM	Sediment Sample ZnPPM
0-35	0-100	0-40
35-100	100-150	40-80
100-250	150-200	80-150
250-2000	200-300	150-250
2000-2917.9	300-474.6	250-380.7

Pacer

2013 Zn Assays PPM

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 22/09/2013

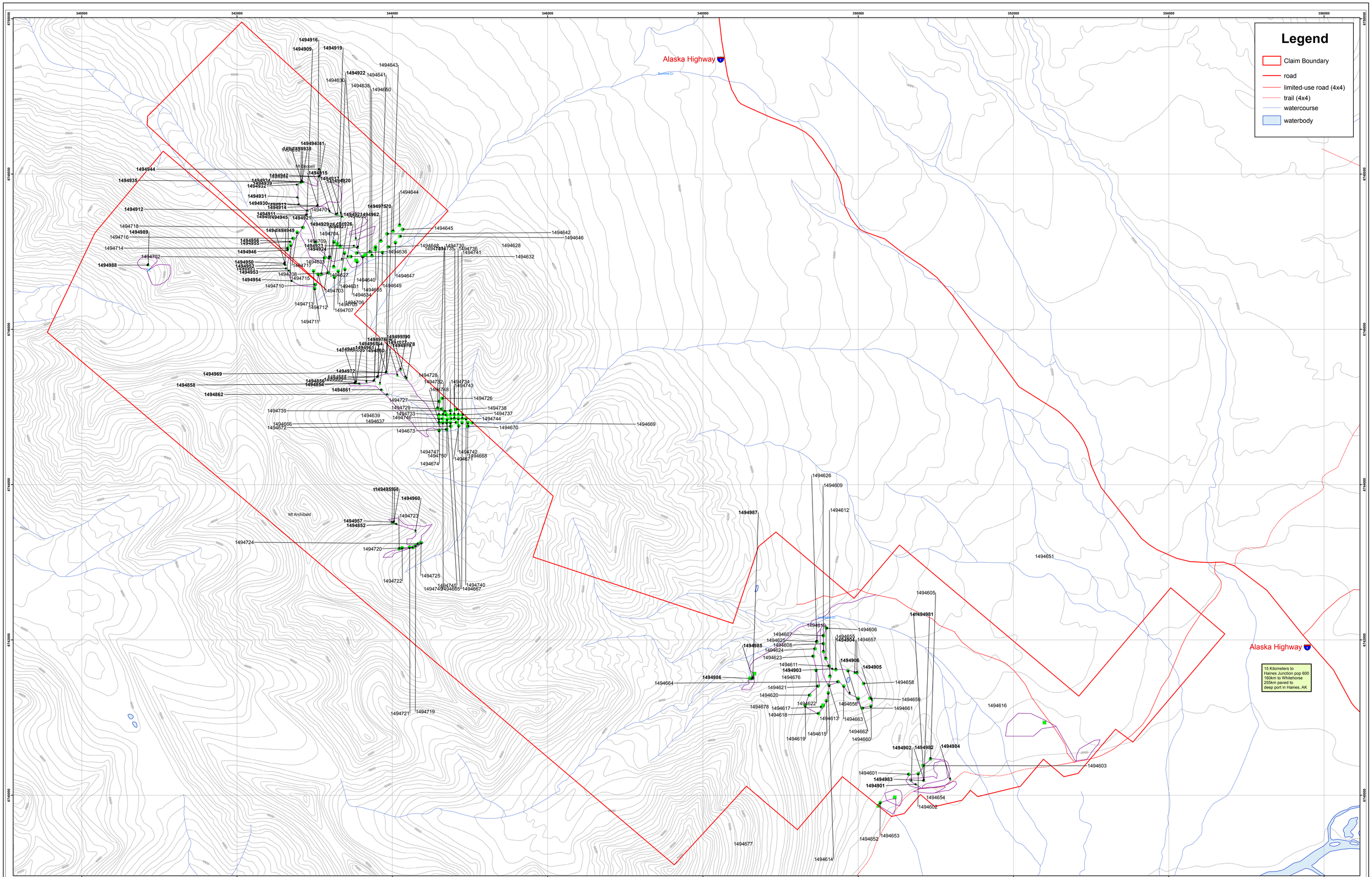
Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD



N

W E

S

Kilometers

0 1 2 3 4

2013 Sample and Travers Locations

2013 Traverses **Soil Sample** **Sediment Sample**

Grab Sample Soil Sample Sediment Sample

Grab Sample

Pacer

2013 Sample and Travers Locations

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 28/04/2014

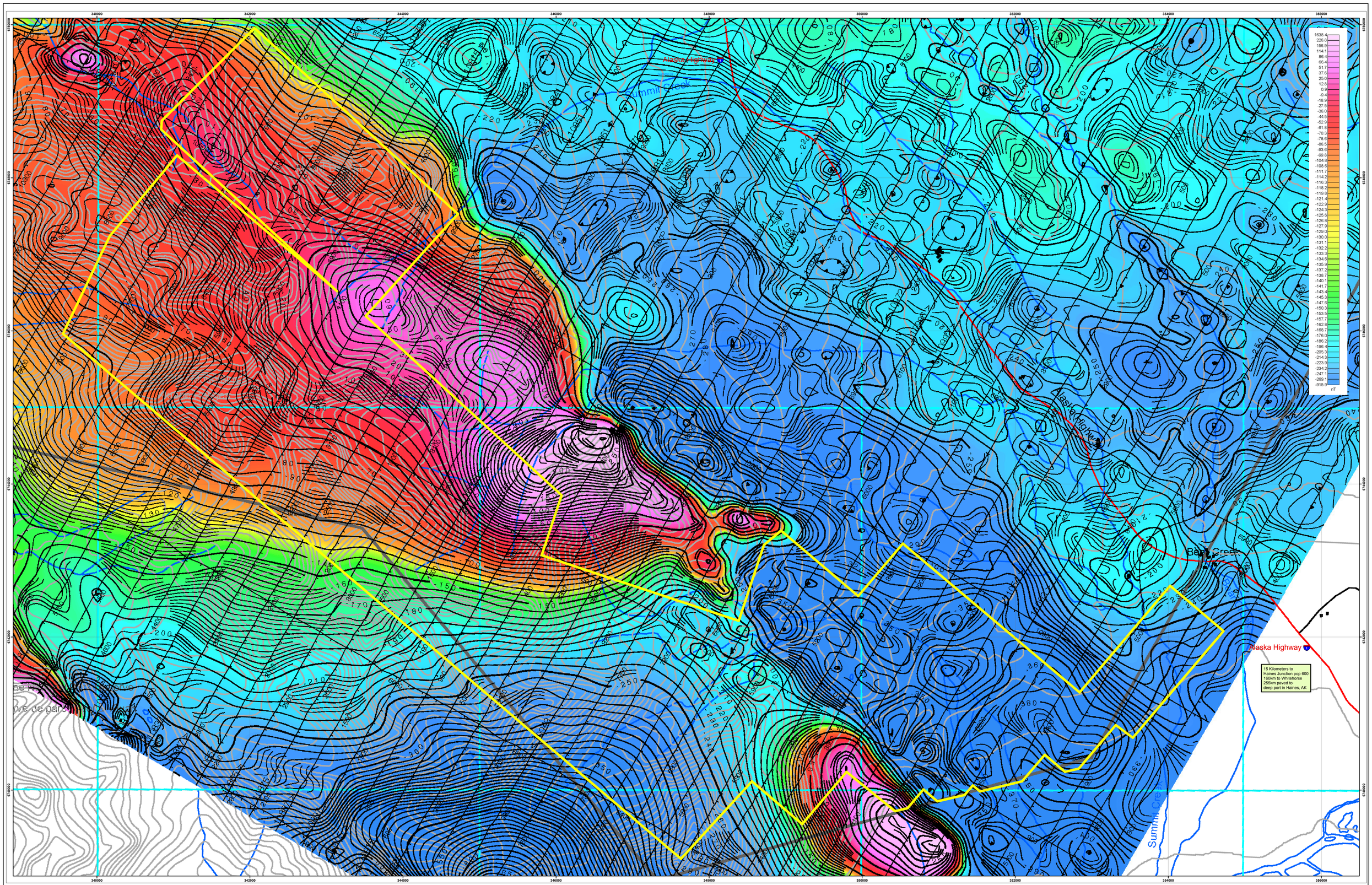
Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,000

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD



N
W E
S

Kilometers

0 1 2 3 4

Legend

- Claim Boundary
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse
- waterbody

Pacer

2011 Regional AeroMag

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 23/09/2013

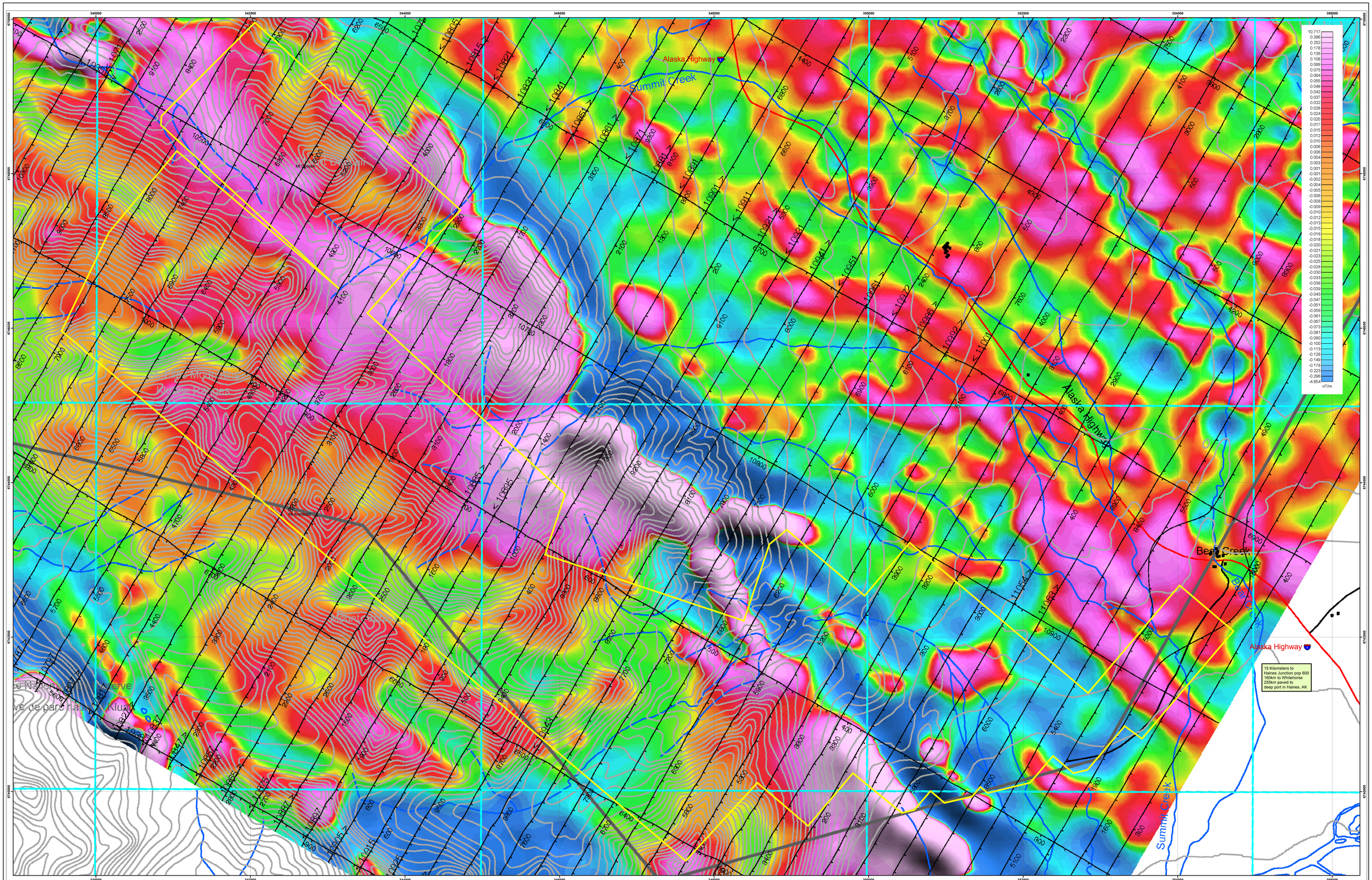
Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,203

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD



N
W E
S

Kilometers

0 1 2 3 4

Legend

- Claim Boundary
- road
- limited-use road (4x4)
- trail (4x4)
- watercourse
- waterbody

Pacer

2011 Regional First Vertical Derivative

Yukon Quartz Claim Group
Grassroots Au, Ni, Cu, PGE

Date: 23/09/2013

Author: James Rogers

Magnetic Declination: 20° 59' East

1:15,086

Coordinate System: WGS 1984 UTM Zone 8N
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -135.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meter

Longford Exploration Services LTD

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: June 14, 2013
Report Date: July 29, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS WHI13000031.3

CLIENT JOB INFORMATION

Project: Pacer
Shipment ID:
P.O. Number
Number of Samples: 56

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT Dispose of Reject After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	56	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1F02-1F08	56	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
7TD1	1	4-acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS

Version 2 : 7TD-Cu included.

Invoice To: Longford Exploration Services Ltd.
6970 Napier Street
Burnaby BC V5B 2C4
CANADA

CC:

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

CERTIFICATE OF ANALYSIS WHI13000031.3

Method		WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.01	0.01	0.01	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
1494901	Rock	1.25	0.07	63.65	91.03	43.6	876	136.4	29.4	553	3.39	1.6	<0.1	1.0	<0.1	18.2	0.05	0.43	0.03	79	1.33
1494902	Rock	2.01	3.59	10.69	17.00	14.8	206	9.7	3.0	294	3.68	43.9	1.1	1.7	0.4	62.3	0.35	1.18	0.03	34	35.46
1494903	Rock	0.53	0.05	94.35	8.52	39.8	112	53.1	19.7	365	2.45	0.7	<0.1	1.8	<0.1	26.4	0.06	0.05	<0.02	60	1.10
1494904	Rock	1.00	0.09	479.4	3.78	104.8	158	108.6	38.7	1044	6.40	0.3	<0.1	1.5	<0.1	15.7	0.06	0.05	<0.02	126	1.01
1494905	Rock	1.19	0.38	165.7	5.46	80.9	73	194.0	47.6	855	8.01	10.1	<0.1	4.3	0.1	53.3	0.09	0.16	<0.02	265	6.65
1494906	Rock	1.35	0.10	18.25	10.46	7.1	99	2.8	1.0	153	0.42	0.5	<0.1	0.4	<0.1	17.0	0.02	0.07	<0.02	13	2.07
1494907	Rock	0.91	0.80	50.12	8.52	75.7	110	30.4	14.2	621	4.07	4.4	0.5	<0.2	1.7	111.6	0.10	0.29	0.08	94	3.15
1494908	Rock	0.89	0.86	51.71	8.53	75.0	134	32.6	14.0	606	4.26	4.4	0.5	1.4	1.7	103.9	0.12	0.28	0.09	107	3.18
1494909	Rock	2.46	0.62	7.37	6.49	27.6	90	3.6	1.3	284	0.43	0.7	<0.1	<0.2	0.1	30.8	0.38	0.09	<0.02	3	0.81
1494910	Rock	1.42	0.04	175.0	8.07	73.7	316	43.8	36.7	1197	5.84	1.5	0.1	<0.2	0.5	731.2	0.14	0.24	<0.02	136	4.01
1494911	Rock	1.95	0.06	14.38	13.64	18.7	119	4.3	1.6	1752	1.02	0.5	0.1	<0.2	0.5	1037	0.08	0.05	0.03	19	7.98
1494912	Rock	0.75	0.20	313.7	1.87	53.0	145	86.0	24.8	476	3.09	0.3	<0.1	<0.2	<0.1	13.4	0.14	0.03	<0.02	65	0.94
1494913	Rock	0.58	0.09	333.0	1.36	17.4	341	23.2	9.2	303	1.69	2.3	<0.1	0.9	<0.1	9.3	0.17	0.05	<0.02	21	1.14
1494914	Rock	0.45	0.15	1152	1.74	127.2	1008	115.3	55.6	1741	8.38	0.8	<0.1	1.2	<0.1	13.6	0.44	0.02	<0.02	130	0.98
1494915	Rock	1.12	9.53	192.8	2.40	439.4	468	8.9	5.6	340	3.18	1.4	<0.1	572.6	<0.1	2.5	1.74	0.20	<0.02	22	0.01
1494916	Rock	1.35	0.73	1845	1.15	134.5	1303	72.1	51.4	1692	13.88	<0.1	0.3	6.1	<0.1	2.8	0.25	0.08	0.04	194	0.12
1494917	Rock	0.77	0.14	138.7	1.71	43.4	110	33.2	19.8	542	3.82	0.1	<0.1	4.8	<0.1	10.2	0.08	0.07	<0.02	76	0.67
1494918	Rock	1.39	2.22	313.1	1.67	127.4	534	25.2	16.2	405	3.03	0.9	<0.1	425.8	<0.1	1.8	1.52	0.13	<0.02	35	0.72
1494919	Rock	0.54	0.93	6512	0.82	255.7	2265	43.4	32.1	724	3.04	<0.1	<0.1	33.3	<0.1	5.9	2.02	0.07	<0.02	48	1.09
1494920	Rock	1.32	5.66	29.87	8.32	40.9	663	10.8	1.4	226	2.25	13.6	0.5	2.4	1.5	4.6	0.03	4.10	0.13	19	0.04
1494921	Rock	1.62	0.21	13.16	0.99	60.2	39	5.5	1.5	815	0.40	0.3	0.2	4.1	<0.1	364.9	1.47	0.08	<0.02	<2	5.80
1494922	Rock	2.71	0.24	29.59	4.22	21.9	23	1.8	5.7	1366	2.50	<0.1	<0.1	2.5	0.3	300.8	0.13	<0.02	<0.02	24	5.85
1494923	Rock	2.57	0.04	51.32	0.96	8.7	45	10.5	4.0	367	0.96	0.3	<0.1	1.8	<0.1	159.4	0.03	0.03	0.16	22	7.47
1494924	Rock	1.25	0.54	55.87	1.20	39.2	35	27.9	20.8	1706	2.31	15.7	0.3	1.6	0.3	283.0	0.37	0.06	0.05	56	24.50
1494925	Rock	1.12	1.08	32.89	0.91	17.2	46	13.8	8.0	953	1.54	1.6	0.9	1.3	<0.1	242.5	0.13	0.08	<0.02	42	25.66
1494926	Rock	1.16	0.64	39.50	5.45	70.8	108	17.8	12.9	615	3.61	0.6	0.1	1.6	0.4	81.5	0.09	0.34	0.06	31	0.97
1494927	Rock	1.34	0.06	17.65	14.71	22.7	83	1.8	1.3	483	0.59	0.3	0.5	2.1	0.8	161.0	0.15	0.07	0.05	3	1.15
1494928	Rock	0.76	0.02	19.49	4.15	70.5	44	5.1	11.3	1708	2.70	0.2	0.2	0.9	0.4	278.2	0.02	0.08	<0.02	47	4.95
1494929	Rock	2.10	0.05	2.67	1.75	9.1	21	1.0	0.5	166	0.49	0.4	<0.1	<0.2	<0.1	16.4	0.05	0.05	<0.02	5	0.12
1494930	Rock	2.15	0.04	52.84	9.13	67.1	123	10.1	11.1	886	2.13	2.4	<0.1	<0.2	0.1	196.3	0.16	0.12	<0.02	37	1.30

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

CERTIFICATE OF ANALYSIS WHI13000031.3

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
		MDL	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	10	2
1494901	Rock		0.050	0.7	427.6	1.91	6.0	0.246	<1	2.05	0.033	<0.01	<0.1	4.7	<0.02	<0.02	<5	<0.1	0.03	3.8	<10	3
1494902	Rock		0.021	4.0	9.1	0.13	11.1	0.020	2	0.10	0.001	0.02	0.6	2.6	0.02	<0.02	65	<0.1	<0.02	0.5	<10	<2
1494903	Rock		0.062	0.9	138.9	1.23	11.7	0.322	2	1.54	0.040	0.05	<0.1	3.5	<0.02	<0.02	6	<0.1	<0.02	3.0	<10	2
1494904	Rock		0.082	<0.5	147.9	2.44	31.2	0.614	2	2.86	0.025	0.08	<0.1	2.0	<0.02	<0.02	9	<0.1	0.04	9.5	<10	7
1494905	Rock		0.111	4.5	434.3	4.00	37.1	0.025	6	3.91	0.020	0.01	<0.1	26.3	<0.02	<0.02	30	<0.1	<0.02	12.6	15	4
1494906	Rock		0.010	<0.5	10.7	0.06	5.0	0.093	<1	0.18	0.013	<0.01	<0.1	0.5	<0.02	<0.02	<5	<0.1	<0.02	0.6	<10	<2
1494907	Rock		0.093	7.1	52.1	1.76	79.7	0.232	5	2.49	0.033	0.24	0.3	5.4	0.04	0.12	21	0.5	0.07	7.6	<10	<2
1494908	Rock		0.089	7.0	49.9	1.76	73.0	0.230	4	2.49	0.031	0.22	0.2	5.7	0.04	0.12	29	0.3	0.05	7.6	<10	<2
1494909	Rock		0.010	0.9	2.1	0.04	24.9	0.002	1	0.09	0.007	0.02	<0.1	0.9	<0.02	<0.02	7	<0.1	0.02	0.3	<10	<2
1494910	Rock		0.275	3.2	96.1	3.79	25.6	0.122	<1	3.40	0.005	<0.01	<0.1	7.0	<0.02	0.75	<5	0.2	0.07	6.8	12	5
1494911	Rock		0.030	5.6	4.4	0.23	53.6	0.002	1	0.37	0.034	0.08	<0.1	2.9	<0.02	0.06	5	0.4	<0.02	1.9	<10	<2
1494912	Rock		0.059	0.6	198.4	1.80	4.9	0.288	1	1.90	0.028	<0.01	<0.1	1.8	<0.02	0.03	8	<0.1	0.06	3.0	<10	4
1494913	Rock		0.002	<0.5	64.9	0.79	1.6	0.021	<1	0.79	<0.001	<0.01	<0.1	1.1	<0.02	0.14	<5	0.6	<0.02	1.2	<10	<2
1494914	Rock		0.012	<0.5	253.6	5.63	8.1	0.103	1	5.42	<0.001	0.02	<0.1	5.5	<0.02	0.04	<5	0.8	0.07	7.7	20	15
1494915	Rock		0.002	<0.5	27.6	0.38	8.0	0.027	<1	0.57	<0.001	0.04	<0.1	2.4	<0.02	1.17	62	1.4	0.08	1.2	<10	2
1494916	Rock		0.014	<0.5	182.5	4.98	8.7	0.074	4	6.03	<0.001	<0.01	<0.1	12.3	<0.02	1.07	7	6.5	0.13	9.7	28	8
1494917	Rock		0.020	<0.5	32.3	1.46	8.1	0.197	2	1.99	0.017	<0.01	<0.1	4.7	<0.02	0.04	<5	0.5	<0.02	3.5	<10	<2
1494918	Rock		0.004	<0.5	38.2	1.08	9.3	0.043	<1	0.99	0.004	0.03	<0.1	2.5	<0.02	1.83	26	2.3	0.03	1.9	<10	2
1494919	Rock		0.005	<0.5	96.6	2.12	7.1	0.041	<1	1.72	<0.001	0.01	<0.1	2.8	<0.02	0.54	8	5.4	0.03	2.9	<10	4
1494920	Rock		0.033	1.6	7.4	0.45	140.8	0.014	2	0.66	0.011	0.08	<0.1	2.1	0.12	0.10	85	7.4	0.12	2.2	<10	<2
1494921	Rock		0.006	2.0	1.6	0.38	27.8	<0.001	<1	0.04	0.007	<0.01	<0.1	2.1	<0.02	<0.02	8	0.4	<0.02	0.1	<10	<2
1494922	Rock		0.087	4.5	1.2	0.81	246.0	0.096	<1	0.71	0.048	0.14	<0.1	2.2	<0.02	<0.02	12	0.5	<0.02	2.1	<10	<2
1494923	Rock		0.007	<0.5	18.8	0.96	19.7	0.019	<1	0.20	0.054	0.01	<0.1	1.8	<0.02	<0.02	<5	0.1	<0.02	0.6	<10	<2
1494924	Rock		0.034	2.1	20.7	1.14	16.0	0.133	<1	1.22	0.002	0.03	<0.1	3.4	<0.02	0.14	6	0.9	0.05	4.2	<10	<2
1494925	Rock		0.014	0.8	18.0	0.89	13.7	0.104	<1	0.85	0.002	0.01	<0.1	1.9	<0.02	0.05	6	0.2	<0.02	2.9	<10	3
1494926	Rock		0.061	2.0	11.6	1.20	95.6	0.116	<1	1.71	0.029	0.15	<0.1	1.2	0.04	0.52	<5	1.1	0.05	3.7	<10	<2
1494927	Rock		0.031	4.4	1.7	0.05	135.6	0.013	<1	0.34	0.045	0.16	<0.1	0.3	0.04	0.16	7	0.9	<0.02	1.4	<10	<2
1494928	Rock		0.098	3.2	4.9	1.10	37.1	0.066	<1	1.51	0.029	0.14	<0.1	1.9	<0.02	0.29	<5	0.3	0.05	5.6	<10	<2
1494929	Rock		0.006	0.7	2.3	0.11	12.8	<0.001	<1	0.15	0.011	0.01	<0.1	0.3	<0.02	0.05	<5	0.2	<0.02	0.7	<10	<2
1494930	Rock		0.085	1.2	20.3	1.13	40.6	0.078	<1	1.41	0.052	0.05	<0.1	1.6	<0.02	0.25	5	0.2	0.03	5.0	<10	2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

CERTIFICATE OF ANALYSIS WHI13000031.3

		Method	7TD
		Analyte	Cu
		Unit	%
		MDL	0.001
1494901	Rock		
1494902	Rock		
1494903	Rock		
1494904	Rock		
1494905	Rock		
1494906	Rock		
1494907	Rock		
1494908	Rock		
1494909	Rock		
1494910	Rock		
1494911	Rock		
1494912	Rock		
1494913	Rock		
1494914	Rock		
1494915	Rock		
1494916	Rock		
1494917	Rock		
1494918	Rock		
1494919	Rock		
1494920	Rock		
1494921	Rock		
1494922	Rock		
1494923	Rock		
1494924	Rock		
1494925	Rock		
1494926	Rock		
1494927	Rock		
1494928	Rock		
1494929	Rock		
1494930	Rock		

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Report Date: July 29, 2013

CERTIFICATE OF ANALYSIS WHI13000031.3

Method		WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.01	0.01	0.01	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
1494931	Rock	1.46	5.48	43.78	5.54	232.7	456	33.9	8.9	662	2.09	6.7	0.9	<0.2	1.4	99.0	3.00	1.02	0.07	31	1.39
1494932	Rock	1.24	0.03	33.11	4.14	24.4	35	6.4	2.2	573	0.41	<0.1	<0.1	<0.2	<0.1	139.9	0.04	<0.02	<0.02	2	1.90
1494933	Rock	1.67	0.10	2764	1.11	87.9	37	83.1	27.4	739	3.46	0.3	<0.1	0.5	<0.1	13.4	0.41	<0.02	<0.02	62	0.66
1494934	Rock	1.54	0.21	2990	2.80	124.3	105	148.1	44.9	1058	4.84	0.4	<0.1	2.3	0.1	5.4	0.65	0.07	0.14	106	0.59
1494935	Rock	0.81	0.15	560.7	1.38	2260	336	21.6	7.9	159	0.81	0.2	<0.1	180.4	<0.1	3.5	15.41	0.04	0.06	9	1.30
1494936	Rock	0.76	0.09	2542	0.89	2918	2668	13.1	7.6	623	1.09	<0.1	<0.1	141.8	<0.1	8.1	14.78	0.05	0.05	13	6.31
1494937	Rock	1.56	0.11	81.02	0.77	28.5	57	44.9	15.4	339	1.88	0.8	<0.1	1.3	0.1	23.8	0.09	0.04	0.03	45	4.22
1494938	Rock	0.70	0.11	151.0	0.89	39.2	56	62.2	28.3	444	2.78	0.2	<0.1	10.0	<0.1	8.1	0.06	0.03	0.02	46	0.74
1494939	Rock	2.15	0.02	1191	1.08	412.2	74	86.5	40.4	771	3.48	0.3	<0.1	3.2	<0.1	6.7	2.20	0.04	<0.02	59	0.46
1494940	Rock	1.91	0.08	58.86	0.78	13.6	26	10.0	21.6	236	3.73	0.3	<0.1	9.5	<0.1	11.3	0.01	0.03	0.02	48	0.54
1494941	Rock	1.69	0.05	7.30	0.82	28.4	26	35.1	28.5	346	11.00	0.6	<0.1	5.0	<0.1	10.4	0.02	0.13	0.05	49	0.41
1494942	Rock	1.20	0.11	21.59	0.68	45.0	23	53.1	53.5	639	7.90	0.8	<0.1	9.6	<0.1	13.6	0.02	0.14	0.03	73	0.59
1494943	Rock	1.57	0.17	22.66	0.65	6.2	17	18.2	27.3	162	2.67	0.2	<0.1	5.6	<0.1	8.3	<0.01	<0.02	<0.02	38	0.49
1494944	Rock	1.20	5.14	>10000	1.32	409.3	3071	79.5	68.5	1780	9.28	<0.1	<0.1	99.8	<0.1	70.2	1.51	0.03	0.07	65	0.54
1494945	Rock	1.84	0.52	74.91	3.83	229.5	128	25.9	17.1	877	3.62	13.2	0.1	<0.2	0.6	56.6	1.27	0.24	0.06	17	1.84
1494946	Rock	0.90	0.87	83.35	10.91	122.4	118	17.1	10.1	1487	1.72	5.9	<0.1	<0.2	0.8	307.6	2.25	0.12	0.10	5	9.54
1494947	Rock	1.55	0.31	105.0	1.84	149.2	167	39.7	30.0	1386	6.93	2.1	0.7	0.3	3.6	180.4	0.23	0.05	0.04	200	5.64
1494948	Rock	1.86	0.05	30.10	0.87	39.1	24	8.8	6.9	1315	1.26	0.8	<0.1	<0.2	0.2	426.8	0.55	0.02	<0.02	19	12.77
1494949	Rock	1.13	0.93	44.35	1.61	42.6	44	29.4	6.1	886	1.68	0.6	0.1	<0.2	0.5	251.4	0.75	0.08	<0.02	19	8.85
1494950	Rock	4.04	0.06	89.92	1.60	108.6	135	17.3	26.3	1394	6.64	1.3	0.1	0.5	0.7	178.5	0.19	0.08	<0.02	176	4.29
1494951	Rock	0.91	4.94	21.82	11.61	32.2	625	11.1	2.1	108	1.98	24.4	0.3	<0.2	0.9	14.6	0.12	4.65	0.14	15	0.08
1494952	Rock	1.01	1.62	59.76	8.37	113.4	206	22.7	16.5	676	5.34	10.4	<0.1	<0.2	0.9	25.0	0.40	0.65	0.13	26	0.73
1494953	Rock	0.49	0.03	141.1	1.69	135.8	204	82.8	33.3	1550	7.17	8.1	0.2	<0.2	1.2	201.0	0.47	0.07	0.03	273	3.37
1494954	Rock	0.87	0.52	47.82	2.87	99.4	101	21.7	12.0	680	4.27	<0.1	<0.1	<0.2	0.9	24.5	0.17	0.21	0.04	25	0.49
1494955	Rock	1.16	0.18	11.37	1.40	48.1	51	17.2	1.5	672	0.40	0.3	0.3	0.4	0.3	112.8	1.79	0.04	<0.02	<2	3.67
1494956	Rock	1.60	0.09	8.56	24.21	40.8	84	2.1	1.1	705	0.67	<0.1	<0.1	<0.2	<0.1	328.5	0.45	0.03	0.11	3	7.38

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www.acmelab.com

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

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

CERTIFICATE OF ANALYSIS WHI13000031.3

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
MDL		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	10	2
1494931	Rock	0.070	2.6	12.6	0.34	212.2	0.074	2	0.66	0.019	0.11	0.1	2.8	0.09	0.06	26	4.9	0.03	1.9	<10	<2
1494932	Rock	0.034	<0.5	4.0	0.04	115.5	0.023	<1	0.28	0.030	0.26	<0.1	0.3	0.08	<0.02	<5	0.5	<0.02	1.1	<10	<2
1494933	Rock	0.035	0.5	148.9	2.04	4.2	0.203	<1	2.28	0.016	<0.01	<0.1	3.9	<0.02	0.02	<5	1.1	0.09	3.3	17	11
1494934	Rock	0.063	0.7	269.2	2.49	2.7	0.331	<1	2.84	0.031	<0.01	<0.1	3.6	<0.02	<0.02	9	0.6	<0.02	4.8	15	6
1494935	Rock	0.001	<0.5	24.8	0.32	2.4	0.020	<1	0.32	0.008	<0.01	<0.1	0.7	<0.02	0.21	147	0.6	<0.02	0.6	<10	<2
1494936	Rock	0.001	<0.5	21.6	0.49	2.9	0.014	<1	0.40	0.004	<0.01	<0.1	1.3	<0.02	0.37	203	3.6	<0.02	0.8	<10	<2
1494937	Rock	0.050	1.0	121.0	1.02	2.4	0.253	<1	1.30	0.024	<0.01	<0.1	2.5	<0.02	<0.02	6	0.2	<0.02	2.5	10	3
1494938	Rock	0.014	<0.5	42.1	0.97	2.1	0.150	<1	1.26	0.029	<0.01	<0.1	3.0	<0.02	0.42	8	1.0	0.03	2.0	24	9
1494939	Rock	0.012	<0.5	107.8	2.21	2.1	0.146	<1	2.27	0.017	<0.01	<0.1	2.9	<0.02	<0.02	9	0.2	<0.02	2.7	22	13
1494940	Rock	0.012	<0.5	3.1	0.45	1.8	0.161	<1	0.82	0.011	<0.01	<0.1	2.4	<0.02	2.25	7	2.1	0.02	2.1	<10	<2
1494941	Rock	0.006	<0.5	14.0	0.99	1.7	0.138	<1	1.21	0.003	<0.01	<0.1	3.0	<0.02	9.08	<5	3.8	0.16	2.3	24	11
1494942	Rock	0.014	<0.5	24.5	1.61	1.5	0.147	<1	1.97	0.004	<0.01	<0.1	3.9	<0.02	4.04	5	2.9	0.09	3.2	28	16
1494943	Rock	0.024	<0.5	1.5	0.33	1.2	0.171	<1	0.50	0.006	<0.01	<0.1	2.6	<0.02	1.11	5	1.5	<0.02	1.3	<10	<2
1494944	Rock	0.007	<0.5	182.4	3.18	18.4	0.061	<1	4.06	0.002	0.04	<0.1	3.9	<0.02	0.71	37	18.4	0.17	5.4	<10	11
1494945	Rock	0.021	10.3	10.2	0.78	122.3	0.002	1	1.42	0.016	0.07	<0.1	2.4	0.03	1.67	17	2.8	0.04	3.8	<10	<2
1494946	Rock	0.029	14.4	2.4	0.42	125.4	0.001	<1	0.83	0.017	0.05	<0.1	1.6	0.02	0.57	23	1.4	<0.02	1.8	<10	<2
1494947	Rock	0.316	33.4	103.8	3.11	62.5	0.008	<1	4.58	0.013	0.03	<0.1	9.6	<0.02	0.57	17	1.3	<0.02	10.7	12	7
1494948	Rock	0.040	5.9	3.6	0.31	19.9	0.009	<1	0.43	0.009	0.01	<0.1	4.3	<0.02	0.71	<5	1.5	<0.02	1.2	<10	<2
1494949	Rock	0.037	13.5	49.9	0.62	48.2	0.002	<1	0.97	0.006	0.03	<0.1	3.8	<0.02	0.27	21	0.7	<0.02	2.1	<10	<2
1494950	Rock	0.198	9.1	18.4	2.44	42.9	0.065	<1	3.51	0.023	0.03	<0.1	9.1	<0.02	1.93	9	5.3	<0.02	11.3	<10	2
1494951	Rock	0.038	0.9	7.5	0.31	156.1	0.001	1	0.52	0.027	0.08	<0.1	1.1	0.29	1.25	161	8.9	0.04	2.5	<10	<2
1494952	Rock	0.017	8.7	11.7	0.99	58.1	0.002	1	1.81	0.021	0.07	<0.1	3.6	0.03	2.77	25	5.1	0.02	4.8	<10	<2
1494953	Rock	0.221	14.1	204.6	4.25	13.0	0.127	<1	5.26	0.017	<0.01	<0.1	21.3	<0.02	0.36	11	0.9	<0.02	16.3	13	8
1494954	Rock	0.022	4.4	9.8	1.13	116.7	0.002	<1	1.98	0.018	0.06	<0.1	2.7	<0.02	1.13	7	2.1	<0.02	4.9	<10	<2
1494955	Rock	0.004	9.7	1.7	0.04	22.2	<0.001	<1	0.13	0.004	0.01	<0.1	0.8	<0.02	0.05	5	0.5	<0.02	0.2	<10	<2
1494956	Rock	0.005	<0.5	2.7	0.12	59.2	<0.001	<1	0.19	0.006	<0.01	<0.1	0.8	<0.02	<0.02	7	1.5	<0.02	0.6	<10	<2

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PHONE (604) 253-3158

www.acmelab.com

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Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

CERTIFICATE OF ANALYSIS WHI13000031.3

		Method	7TD
		Analyte	Cu
		Unit	%
		MDL	0.001
1494931	Rock		
1494932	Rock		
1494933	Rock		
1494934	Rock		
1494935	Rock		
1494936	Rock		
1494937	Rock		
1494938	Rock		
1494939	Rock		
1494940	Rock		
1494941	Rock		
1494942	Rock		
1494943	Rock		
1494944	Rock		2.144
1494945	Rock		
1494946	Rock		
1494947	Rock		
1494948	Rock		
1494949	Rock		
1494950	Rock		
1494951	Rock		
1494952	Rock		
1494953	Rock		
1494954	Rock		
1494955	Rock		
1494956	Rock		

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6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

QUALITY CONTROL REPORT WHI13000031.3

	Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	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
Pulp Duplicates																					
1494906	Rock	1.35	0.10	18.25	10.46	7.1	99	2.8	1.0	153	0.42	0.5	<0.1	0.4	<0.1	17.0	0.02	0.07	<0.02	13	2.07
REP 1494906	QC		0.10	17.98	10.60	6.9	86	2.9	0.9	156	0.45	0.7	<0.1	0.6	<0.1	18.4	0.03	0.08	<0.02	15	2.10
1494938	Rock	0.70	0.11	151.0	0.89	39.2	56	62.2	28.3	444	2.78	0.2	<0.1	10.0	<0.1	8.1	0.06	0.03	0.02	46	0.74
REP 1494938	QC		0.07	157.7	0.92	39.7	48	63.3	30.3	454	2.79	<0.1	<0.1	2.3	<0.1	8.6	0.05	0.04	<0.02	47	0.78
1494944	Rock	1.20	5.14	>10000	1.32	409.3	3071	79.5	68.5	1780	9.28	<0.1	<0.1	99.8	<0.1	70.2	1.51	0.03	0.07	65	0.54
REP 1494944	QC																				
1494956	Rock	1.60	0.09	8.56	24.21	40.8	84	2.1	1.1	705	0.67	<0.1	<0.1	<0.2	<0.1	328.5	0.45	0.03	0.11	3	7.38
REP 1494956	QC		0.12	8.74	24.67	43.2	96	1.8	1.3	702	0.67	<0.1	<0.1	<0.2	<0.1	336.5	0.39	0.02	0.12	4	7.41
Core Reject Duplicates																					
1494929	Rock	2.10	0.05	2.67	1.75	9.1	21	1.0	0.5	166	0.49	0.4	<0.1	<0.2	<0.1	16.4	0.05	0.05	<0.02	5	0.12
DUP 1494929	QC		0.07	1.83	2.00	10.1	21	1.3	0.7	170	0.52	0.5	<0.1	0.7	<0.1	16.7	0.03	0.05	<0.02	5	0.13
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS9	Standard		12.91	107.3	133.2	311.2	1861	40.5	7.8	579	2.39	25.8	3.0	106.1	7.2	78.7	2.37	5.90	6.60	41	0.73
STD DS9	Standard		12.99	109.8	133.9	310.4	1772	39.8	7.3	550	2.36	25.4	3.0	109.6	7.0	78.6	2.28	5.75	6.61	39	0.73
STD DS9	Standard		12.58	111.1	128.4	299.7	1834	39.9	7.6	575	2.33	25.9	2.8	117.7	6.3	69.0	2.46	6.34	6.95	40	0.71
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
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<0.01	0.14	<0.01	<0.1	6	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	7	<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
BLK	Blank		<0.01	0.06	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
BLK	Blank																				
Prep Wash																					
G1-WHI	Prep Blank		0.13	4.81	3.50	43.0	13	2.7	4.2	599	1.94	0.8	2.1	2.1	6.1	52.4	0.02	0.03	0.11	36	0.59
G1-WHI	Prep Blank		0.09	4.03	3.63	45.5	20	3.3	4.1	576	1.97	0.8	2.0	0.4	6.3	63.0	0.01	<0.02	0.09	37	0.55

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

QUALITY CONTROL REPORT WHI13000031.3

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
		MDL	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	10	2
Pulp Duplicates																						
1494906	Rock		0.010	<0.5	10.7	0.06	5.0	0.093	<1	0.18	0.013	<0.01	<0.1	0.5	<0.02	<0.02	<5	<0.1	<0.02	0.6	<10	<2
REP 1494906	QC		0.011	<0.5	11.5	0.06	5.2	0.098	<1	0.20	0.015	<0.01	<0.1	0.5	<0.02	<0.02	<5	<0.1	0.03	0.7	<10	2
1494938	Rock		0.014	<0.5	42.1	0.97	2.1	0.150	<1	1.26	0.029	<0.01	<0.1	3.0	<0.02	0.42	8	1.0	0.03	2.0	24	9
REP 1494938	QC		0.016	<0.5	42.7	0.97	2.0	0.156	<1	1.28	0.030	<0.01	<0.1	3.2	<0.02	0.41	<5	0.9	0.03	2.0	25	10
1494944	Rock		0.007	<0.5	182.4	3.18	18.4	0.061	<1	4.06	0.002	0.04	<0.1	3.9	<0.02	0.71	37	18.4	0.17	5.4	<10	11
REP 1494944	QC																					
1494956	Rock		0.005	<0.5	2.7	0.12	59.2	<0.001	<1	0.19	0.006	<0.01	<0.1	0.8	<0.02	<0.02	7	1.5	<0.02	0.6	<10	<2
REP 1494956	QC		0.005	<0.5	2.6	0.12	60.9	<0.001	<1	0.19	0.006	<0.01	<0.1	0.8	<0.02	<0.02	<5	2.0	<0.02	0.6	<10	<2
Core Reject Duplicates																						
1494929	Rock		0.006	0.7	2.3	0.11	12.8	<0.001	<1	0.15	0.011	0.01	<0.1	0.3	<0.02	0.05	<5	0.2	<0.02	0.7	<10	<2
DUP 1494929	QC		0.006	0.7	2.9	0.12	12.9	<0.001	<1	0.15	0.011	0.01	<0.1	0.3	<0.02	0.05	<5	0.1	<0.02	0.6	<10	<2
Reference Materials																						
STD CDN-ME-14	Standard																					
STD CDN-ME-9	Standard																					
STD DS9	Standard		0.086	15.1	114.6	0.62	305.8	0.118	2	0.98	0.087	0.40	3.0	2.4	5.22	0.17	227	5.9	5.54	4.6	116	368
STD DS9	Standard		0.081	14.6	113.0	0.62	297.2	0.120	3	0.96	0.083	0.39	3.1	2.2	5.11	0.17	205	5.4	5.09	4.7	122	333
STD DS9	Standard		0.082	13.1	117.6	0.62	297.4	0.112	2	0.93	0.082	0.40	3.2	2.6	5.34	0.17	201	5.2	5.37	4.4	105	368
STD DS9 Expected			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	120	350
STD CDN-ME-14 Expected																						
STD CDN-ME-9 Expected																						
BLK	Blank		<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	<10	<2
BLK	Blank		<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	0.3	<0.02	<0.1	<10	<2
BLK	Blank		<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	<10	<2
BLK	Blank																					
Prep Wash																						
G1-WHI	Prep Blank		0.078	14.4	6.8	0.56	169.4	0.120	<1	0.95	0.094	0.49	<0.1	2.5	0.32	<0.02	<5	<0.1	<0.02	4.4	<10	3
G1-WHI	Prep Blank		0.078	13.6	6.9	0.54	185.4	0.134	2	1.10	0.135	0.56	0.1	3.2	0.36	<0.02	<5	<0.1	<0.02	4.7	<10	<2

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www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 29, 2013

QUALITY CONTROL REPORT WHI13000031.3

		Method	7TD
		Analyte	Cu
		Unit	%
		MDL	0.001
Pulp Duplicates			
1494906	Rock		
REP 1494906	QC		
1494938	Rock		
REP 1494938	QC		
1494944	Rock		2.144
REP 1494944	QC		2.129
1494956	Rock		
REP 1494956	QC		
Core Reject Duplicates			
1494929	Rock		
DUP 1494929	QC		
Reference Materials			
STD CDN-ME-14	Standard		1.294
STD CDN-ME-9	Standard		0.657
STD DS9	Standard		
STD DS9	Standard		
STD DS9	Standard		
STD DS9 Expected			
STD CDN-ME-14 Expected			1.221
STD CDN-ME-9 Expected			0.654
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		<0.001
Prep Wash			
G1-WHI	Prep Blank		
G1-WHI	Prep Blank		

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www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: June 14, 2013
Report Date: July 08, 2013
Page: 1 of 4

CERTIFICATE OF ANALYSIS WHI13000032.1

CLIENT JOB INFORMATION

Project: Pacer
Shipment ID:
P.O. Number
Number of Samples: 72

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	72	Dry at 60C			WHI
SS80	72	Dry at 60C sieve 100g to -80 mesh			WHI
1F02-1F08	72	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Longford Exploration Services Ltd.
6970 Napier Street
Burnaby BC V5B 2C4
CANADA

CC:

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000032.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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
1494701	Soil	1.01	115.0	41.89	131.9	540	39.2	19.3	939	3.49	10.9	1.1	3.9	6.8	29.1	0.40	0.97	0.33	27	0.29	0.048
1494702	Soil	2.08	182.1	31.47	152.1	629	37.4	29.7	2706	5.08	17.4	1.5	8.3	2.2	160.6	0.81	3.60	0.21	78	0.78	0.143
1494703	Soil	2.65	146.5	41.48	157.8	777	40.8	35.2	3176	5.92	32.1	1.5	7.8	1.9	97.5	0.77	6.68	0.29	80	0.45	0.052
1494704	Soil	4.03	82.41	29.52	145.0	415	37.2	17.3	1400	4.42	26.5	1.4	4.0	1.3	66.6	0.52	4.35	0.25	57	0.39	0.092
1494705	Soil	2.24	99.74	28.45	136.0	313	31.7	15.4	1151	3.91	31.4	1.1	3.2	1.3	39.1	0.39	4.84	0.23	50	0.31	0.080
1494706	Soil	3.06	67.32	18.95	130.3	198	38.2	16.7	961	3.76	27.6	1.0	3.1	0.6	45.9	0.43	6.66	0.19	47	0.27	0.059
1494707	Soil	2.16	144.4	54.32	138.4	928	130.6	46.6	2337	5.62	12.0	0.6	9.7	1.2	138.8	0.74	1.25	0.81	108	1.01	0.135
1494708	Soil	3.62	108.7	27.79	162.1	448	53.0	19.3	1089	4.96	25.9	1.2	2.5	1.4	65.1	0.51	5.13	0.25	73	0.34	0.072
1494709	Soil	5.48	102.1	21.03	202.9	564	72.2	22.8	989	5.08	26.5	1.2	2.3	1.6	59.6	0.94	4.45	0.25	70	0.33	0.089
1494710	Soil	3.88	108.5	21.53	209.8	363	52.8	26.8	885	4.84	20.0	0.7	3.9	1.6	67.5	1.09	1.61	0.19	43	0.53	0.089
1494711	Soil	6.61	67.95	19.45	143.8	426	35.9	14.5	575	4.43	24.4	0.9	5.3	0.8	42.2	0.43	2.76	0.21	50	0.33	0.111
1494712	Soil	9.20	84.46	14.74	218.8	785	40.6	16.8	604	4.88	32.0	1.3	3.5	0.8	37.6	0.93	4.20	0.23	52	0.16	0.099
1494713	Soil	12.40	97.36	13.01	253.8	709	41.7	16.5	589	5.16	35.8	1.5	13.5	1.7	33.9	1.65	5.14	0.22	43	0.16	0.098
1494714	Soil	9.62	95.68	35.61	278.5	994	51.8	16.3	625	4.78	29.4	1.6	2.4	2.1	55.0	2.13	3.74	0.23	47	0.32	0.095
1494715	Soil	11.67	81.44	22.78	311.4	657	64.4	23.5	1111	7.35	51.6	1.9	3.6	3.9	25.2	3.58	2.44	0.56	33	0.25	0.099
1494716	Soil	5.32	145.9	51.87	304.9	1138	76.5	43.7	1195	6.98	39.9	1.4	1.0	4.1	42.7	2.94	2.63	0.46	49	1.27	0.121
1494717	Soil	11.16	104.4	30.73	337.6	1034	51.6	16.5	601	5.59	41.1	2.1	1.7	3.3	67.3	2.37	3.76	0.37	54	0.15	0.104
1494718	Soil	6.88	93.49	19.18	233.2	1117	42.0	26.4	4575	7.02	71.2	2.7	1.2	4.0	108.6	3.50	2.34	0.27	51	1.15	0.159
1494601	Soil	0.81	56.08	7.36	61.4	135	45.3	17.8	475	3.13	10.4	0.4	2.4	1.6	71.7	0.19	0.59	0.10	66	2.30	0.079
1494602	Soil	0.76	51.69	7.18	56.3	128	37.9	15.2	507	2.58	9.5	0.5	14.2	1.1	65.5	0.26	0.56	0.08	55	1.89	0.072
1494603	Soil	1.08	59.21	12.12	49.8	91	47.7	16.9	342	3.52	11.7	0.7	4.4	2.3	36.0	0.06	0.49	0.09	82	0.60	0.029
1494605	Soil	1.05	53.22	14.01	50.6	151	45.9	18.2	669	3.48	11.9	0.5	27.2	2.1	33.7	0.13	0.51	0.09	79	0.61	0.037
1494606	Soil	0.80	67.36	10.54	73.6	66	62.4	19.4	608	3.92	9.8	0.4	13.6	1.3	30.1	0.07	0.42	0.08	83	0.77	0.057
1494607	Soil	1.39	83.30	12.01	79.2	399	48.5	21.5	698	3.96	23.1	0.6	4.0	1.1	41.5	0.18	0.72	0.14	84	0.81	0.076
1494608	Soil	1.47	47.84	12.69	94.3	255	42.8	21.8	760	4.18	20.9	0.5	5.7	1.3	33.5	0.28	0.80	0.14	88	0.69	0.056
1494609	Soil	1.16	43.87	9.84	71.2	145	48.7	21.5	669	4.03	18.4	0.4	2.2	1.3	28.1	0.16	0.57	0.11	85	0.60	0.040
1494610	Soil	1.19	69.10	10.56	107.2	294	45.4	25.3	756	4.04	15.9	0.7	4.8	1.7	32.9	0.15	0.61	0.13	84	0.65	0.065
1494611	Soil	0.50	159.1	7.65	54.2	96	65.4	16.8	552	3.81	10.0	0.4	13.8	1.2	26.7	0.05	0.34	0.07	84	0.82	0.025
1494612	Soil	0.93	158.3	8.42	68.5	143	63.1	20.4	639	3.87	19.1	0.6	4.7	1.2	46.1	0.18	0.62	0.10	80	1.06	0.044
1494613	Soil	1.49	87.48	12.45	67.3	155	51.6	20.8	601	3.67	19.2	0.6	1.6	1.9	46.3	0.19	0.83	0.12	76	0.90	0.045

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6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000032.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
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	10	2
1494701	Soil	24.8	12.3	0.91	62.8	<0.001	3	1.71	0.002	0.11	<0.1	4.0	0.03	<0.02	122	0.7	0.19	3.8	<10	<2
1494702	Soil	19.7	42.8	1.13	626.0	0.026	3	1.78	0.009	0.08	0.2	6.8	0.06	0.16	87	2.2	0.21	6.3	<10	<2
1494703	Soil	23.6	33.4	0.98	277.3	0.034	2	2.00	0.007	0.06	0.2	9.0	0.09	0.10	131	2.6	0.15	6.4	<10	<2
1494704	Soil	18.6	45.6	0.80	243.8	0.018	3	1.69	0.009	0.06	0.1	4.9	0.12	0.08	60	2.8	0.10	4.6	<10	<2
1494705	Soil	15.6	37.2	0.76	170.2	0.044	2	1.33	0.005	0.06	0.2	4.5	0.06	0.03	64	2.2	0.15	3.9	<10	<2
1494706	Soil	8.8	49.4	0.79	208.8	0.027	1	1.34	0.004	0.06	0.6	3.1	0.07	0.05	40	1.9	0.05	3.8	<10	<2
1494707	Soil	23.5	362.4	2.27	275.7	0.011	2	2.28	0.005	0.05	0.1	10.7	0.06	0.17	50	2.3	0.43	7.0	<10	3
1494708	Soil	12.7	104.6	1.02	162.3	0.018	2	1.68	0.005	0.05	0.1	7.0	0.08	0.06	50	2.8	0.10	4.7	<10	<2
1494709	Soil	15.2	110.8	0.93	276.0	0.017	1	1.64	0.006	0.05	<0.1	8.0	0.11	0.06	61	3.1	0.10	4.5	<10	<2
1494710	Soil	7.5	27.9	0.80	68.0	0.113	2	1.58	0.005	0.05	0.1	4.6	0.08	0.04	51	1.7	0.11	3.6	<10	<2
1494711	Soil	11.6	34.8	0.58	187.4	0.016	<1	1.38	0.010	0.03	0.1	3.5	0.18	0.13	60	5.3	0.14	3.3	<10	<2
1494712	Soil	11.5	32.1	0.56	180.9	0.016	2	1.33	0.010	0.03	0.1	4.2	0.19	0.10	95	7.1	0.15	3.3	<10	<2
1494713	Soil	11.6	21.5	0.34	142.7	0.008	1	0.89	0.012	0.04	0.1	4.9	0.24	0.11	92	7.8	0.12	2.0	<10	<2
1494714	Soil	17.2	29.3	0.47	214.0	0.023	2	1.03	0.019	0.05	0.1	6.0	0.19	0.15	78	6.9	0.11	2.7	<10	3
1494715	Soil	28.9	13.6	0.17	179.5	0.006	3	0.48	0.008	0.03	<0.1	9.1	0.07	0.17	61	9.0	0.30	1.5	<10	<2
1494716	Soil	37.8	25.6	0.55	162.1	0.003	2	1.05	0.008	0.04	0.1	8.7	0.04	0.13	54	7.0	0.44	2.8	<10	<2
1494717	Soil	20.1	32.7	0.41	155.5	0.010	3	0.85	0.034	0.05	0.1	6.7	0.08	0.21	94	7.1	0.25	2.2	<10	<2
1494718	Soil	56.1	16.7	0.65	473.4	0.002	2	1.63	0.025	0.06	0.1	11.8	0.09	0.23	184	4.9	0.17	4.4	<10	3
1494601	Soil	10.8	54.1	1.05	76.8	0.110	5	1.52	0.018	0.15	0.1	5.0	0.05	0.03	20	0.6	0.04	4.5	10	14
1494602	Soil	8.5	53.1	0.90	92.9	0.081	6	1.28	0.019	0.07	0.1	3.5	0.05	0.06	24	0.4	0.03	3.5	<10	3
1494603	Soil	12.9	66.6	1.03	68.7	0.155	2	2.05	0.020	0.11	0.1	6.6	0.07	<0.02	18	0.3	<0.02	5.9	<10	5
1494605	Soil	10.4	60.9	0.95	83.1	0.145	3	1.79	0.019	0.11	0.1	5.7	0.06	<0.02	8	0.1	<0.02	5.2	<10	81
1494606	Soil	5.5	95.7	1.40	70.1	0.206	3	2.44	0.005	0.07	0.1	4.7	0.03	<0.02	13	0.3	<0.02	6.4	<10	<2
1494607	Soil	8.3	79.2	1.10	135.1	0.109	1	2.13	0.009	0.08	0.2	5.1	0.04	<0.02	23	0.6	0.05	6.4	<10	<2
1494608	Soil	6.7	76.1	1.14	121.7	0.158	3	2.00	0.008	0.09	0.2	4.9	0.04	<0.02	<5	0.3	<0.02	6.3	<10	<2
1494609	Soil	5.8	83.4	1.30	75.2	0.180	2	2.22	0.006	0.09	0.1	4.9	0.03	<0.02	17	0.2	0.05	6.3	<10	<2
1494610	Soil	9.9	73.3	1.16	153.2	0.117	2	2.39	0.008	0.06	0.2	5.5	0.06	<0.02	11	0.2	0.03	6.5	<10	<2
1494611	Soil	6.9	108.0	1.43	59.8	0.202	2	2.48	0.004	0.05	0.2	5.4	0.03	<0.02	17	0.5	0.03	5.8	<10	<2
1494612	Soil	9.4	86.6	1.31	76.5	0.168	3	2.08	0.012	0.07	0.1	5.9	0.04	0.03	20	0.8	<0.02	5.7	11	2
1494613	Soil	9.3	70.2	1.17	87.5	0.150	2	1.95	0.015	0.10	0.2	5.6	0.05	0.03	22	0.5	0.05	5.4	<10	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000032.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	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
1494614	Soil	1.00	128.4	8.57	70.4	91	69.5	21.7	738	4.16	11.7	0.4	3.7	1.4	42.7	0.13	0.50	0.09	82	1.18	0.073
1494615	Soil	0.82	42.59	7.52	61.1	90	54.8	19.2	590	3.93	11.5	0.4	6.8	1.3	26.3	0.05	0.42	0.08	80	0.70	0.022
1494617	Soil	1.30	51.83	11.91	85.3	181	46.5	24.4	750	3.97	13.0	0.5	1.0	1.3	37.0	0.24	0.74	0.13	80	0.73	0.097
1494618	Soil	1.11	187.9	10.36	93.7	251	51.5	25.4	1438	3.76	11.5	0.6	1.7	1.6	42.8	0.26	0.71	0.12	78	0.86	0.100
1494619	Soil	1.43	96.63	11.41	76.1	149	46.5	22.4	575	4.36	16.0	0.4	4.8	1.2	29.8	0.12	0.67	0.32	95	0.69	0.032
1494620	Soil	0.31	153.4	5.78	54.0	98	99.4	33.2	675	4.30	4.6	0.2	1.1	0.3	15.6	0.06	0.21	0.07	104	1.20	0.023
1494621	Soil	1.25	69.67	9.33	64.8	176	50.1	23.1	617	3.92	14.7	0.7	8.2	1.3	36.9	0.17	0.71	0.24	83	0.85	0.049
1494622	Soil	1.11	74.10	8.98	75.6	87	51.2	19.1	627	4.39	18.5	0.4	4.3	1.2	25.7	0.09	0.53	0.14	96	0.61	0.034
1494627	Soil	6.76	121.1	24.01	256.4	743	59.4	23.6	980	4.78	145.0	1.7	4.2	2.0	71.8	2.59	58.11	0.44	50	0.43	0.118
1494630	Soil	4.57	116.9	18.41	215.5	536	62.0	25.0	1437	5.09	131.8	1.6	3.3	2.4	73.4	1.58	55.58	0.30	72	0.40	0.110
1494631	Soil	5.94	86.30	15.13	169.4	530	44.6	14.8	702	4.36	126.4	1.5	3.9	0.9	69.6	0.42	33.39	0.28	57	0.44	0.110
1494632	Soil	5.27	86.24	21.65	173.3	410	46.8	17.3	943	4.48	112.1	1.6	3.3	1.4	69.0	0.57	35.46	0.25	58	0.43	0.102
1494634	Soil	6.31	103.0	13.68	211.7	501	53.1	19.8	885	4.82	105.6	1.4	3.4	1.6	41.7	0.72	27.86	0.25	62	0.19	0.096
1494635	Soil	8.85	113.8	14.18	278.7	536	63.7	20.8	904	5.04	90.4	1.6	4.2	1.7	38.9	1.17	45.19	0.25	70	0.20	0.097
1494636	Soil	7.05	115.8	11.92	249.2	438	66.5	22.6	826	4.79	82.0	1.4	9.6	1.8	46.4	1.56	25.09	0.21	65	0.29	0.097
1494638	Soil	2.91	282.8	6.44	114.5	316	64.1	23.5	719	4.79	15.9	0.6	5.9	0.5	31.9	0.37	2.64	0.18	100	1.00	0.070
1494640	Soil	3.59	229.4	7.87	187.5	367	85.4	34.6	1189	6.03	19.2	0.7	6.3	0.9	29.0	1.27	2.51	0.15	112	0.57	0.069
1494641	Soil	3.39	181.0	7.85	158.7	295	81.2	22.6	956	4.35	23.0	0.5	8.5	1.2	21.1	1.16	8.37	0.13	76	0.41	0.065
1494642	Soil	2.00	186.1	5.20	116.8	184	99.9	24.4	786	4.80	14.6	0.4	7.3	0.7	20.9	0.48	1.80	0.08	109	0.56	0.049
1494643	Soil	2.56	195.3	18.03	124.1	346	124.0	31.4	956	4.71	16.8	0.6	7.7	0.7	38.9	0.68	2.50	0.10	96	0.90	0.071
1494644	Soil	2.61	165.2	8.45	105.5	215	97.3	23.9	797	4.22	14.9	0.6	3.9	0.5	43.9	0.54	2.03	0.09	88	0.98	0.077
1494645	Soil	2.42	204.9	12.39	120.4	289	109.5	32.5	1239	4.95	16.9	0.6	5.0	0.8	40.1	0.76	2.09	0.08	109	0.92	0.061
1494646	Soil	2.97	234.0	6.89	114.0	301	86.6	22.3	747	4.59	19.1	0.6	5.0	0.5	38.6	0.45	3.23	0.11	93	0.93	0.099
1494647	Soil	3.51	192.6	8.89	157.0	288	69.1	27.1	865	4.91	25.0	0.6	4.0	0.7	41.2	1.04	2.76	0.08	100	1.10	0.064
1494648	Soil	2.42	196.2	6.51	116.9	233	119.7	23.7	781	4.79	14.7	0.6	5.2	0.9	23.1	0.27	3.77	0.09	100	0.48	0.043
1494649	Soil	3.04	153.7	7.97	131.7	263	61.5	26.1	779	5.02	18.7	0.4	10.5	0.7	22.9	0.69	2.27	0.07	102	0.49	0.053
1494650	Soil	3.60	243.6	7.84	161.1	340	75.0	35.5	1077	5.39	24.6	0.6	5.6	0.7	31.4	0.98	5.85	0.10	109	0.57	0.079
1494623	Soil	1.66	57.26	15.40	82.4	205	46.4	22.2	688	4.28	16.8	0.5	4.6	1.7	33.1	0.10	0.88	0.13	93	0.62	0.038
1494624	Soil	1.18	57.13	9.78	86.1	108	49.9	20.8	521	4.15	15.1	0.5	6.0	1.6	35.2	0.14	0.67	0.13	90	0.76	0.047
1494625	Soil	0.94	52.73	15.87	75.8	183	52.2	20.5	620	3.78	12.0	0.5	35.7	1.1	36.1	0.09	0.47	0.10	84	0.77	0.064

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000032.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	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	10	2
1494614	Soil	9.0	106.2	1.48	78.4	0.195	4	2.29	0.012	0.10	0.2	6.4	0.04	<0.02	17	0.5	<0.02	6.0	12	<2
1494615	Soil	4.2	90.8	1.35	37.8	0.257	3	2.21	0.005	0.10	0.1	4.5	0.02	<0.02	12	0.5	<0.02	6.1	<10	<2
1494617	Soil	7.2	68.0	1.08	93.0	0.111	2	2.08	0.008	0.09	0.1	4.7	0.04	<0.02	8	0.3	<0.02	6.1	<10	4
1494618	Soil	10.0	61.7	0.98	340.9	0.094	2	2.20	0.017	0.09	0.1	5.8	0.05	<0.02	23	0.9	0.03	5.9	<10	<2
1494619	Soil	5.5	70.7	1.27	49.4	0.250	2	2.27	0.006	0.11	0.3	4.7	0.02	<0.02	9	0.3	<0.02	6.5	<10	21
1494620	Soil	2.7	254.3	2.12	17.9	0.355	2	2.81	<0.001	0.05	<0.1	4.1	<0.02	<0.02	12	0.5	0.06	4.7	13	6
1494621	Soil	7.4	76.2	1.23	72.7	0.156	2	2.09	0.011	0.10	0.2	5.5	0.04	<0.02	27	0.5	0.05	5.9	<10	<2
1494622	Soil	5.0	88.8	1.41	90.0	0.215	3	2.52	0.003	0.06	0.2	5.4	0.04	<0.02	12	0.4	0.13	6.9	<10	3
1494627	Soil	20.5	49.5	0.77	208.5	0.020	5	1.26	0.018	0.06	0.1	6.5	0.08	0.21	114	7.3	0.20	2.9	<10	3
1494630	Soil	16.1	78.1	1.13	199.4	0.043	2	1.58	0.012	0.07	0.1	7.2	0.10	0.11	98	3.9	0.21	4.5	<10	3
1494631	Soil	15.3	59.3	0.87	275.9	0.015	3	1.59	0.010	0.05	0.1	5.2	0.11	0.11	108	5.0	0.22	4.0	<10	3
1494632	Soil	15.5	57.5	0.85	290.4	0.013	2	1.67	0.008	0.06	0.1	5.6	0.11	0.09	65	3.9	0.18	4.2	<10	4
1494634	Soil	15.8	70.8	0.95	140.1	0.023	1	1.64	0.008	0.05	0.1	6.9	0.10	0.08	78	5.2	0.16	4.1	<10	2
1494635	Soil	15.9	66.0	0.94	269.6	0.016	2	1.63	0.007	0.04	0.1	7.7	0.15	0.10	82	7.2	0.21	4.1	<10	4
1494636	Soil	14.3	82.7	1.14	167.2	0.038	2	1.60	0.009	0.06	0.1	7.1	0.09	0.12	72	5.4	0.12	3.7	<10	3
1494638	Soil	7.0	94.9	1.58	164.0	0.085	5	2.01	0.004	0.05	<0.1	7.1	0.04	0.11	53	3.0	<0.02	6.1	14	6
1494640	Soil	8.1	132.3	2.00	215.3	0.084	4	2.44	0.004	0.06	<0.1	9.9	0.07	0.07	160	2.6	0.13	6.2	20	7
1494641	Soil	7.4	94.1	1.41	96.1	0.110	3	1.56	0.003	0.05	<0.1	6.7	0.04	0.03	74	1.9	0.07	4.1	11	4
1494642	Soil	5.6	137.3	2.18	118.6	0.178	4	2.23	0.003	0.06	0.1	7.6	0.03	0.03	52	1.2	0.05	6.8	11	4
1494643	Soil	8.5	129.6	1.78	140.8	0.072	7	1.88	0.008	0.07	0.2	8.8	0.05	0.11	93	1.9	0.05	5.3	<10	<2
1494644	Soil	6.9	114.6	1.45	111.9	0.079	6	1.65	0.008	0.07	0.2	7.2	0.05	0.12	91	1.7	0.07	5.0	<10	3
1494645	Soil	8.4	114.7	1.67	136.7	0.077	6	1.94	0.008	0.09	0.2	12.4	0.05	0.10	107	1.9	0.07	5.6	11	3
1494646	Soil	8.9	115.8	1.48	135.0	0.037	5	1.94	0.007	0.07	0.1	7.9	0.06	0.10	483	2.3	0.05	5.5	20	4
1494647	Soil	8.1	84.9	1.45	182.4	0.066	8	1.83	0.009	0.07	0.1	9.5	0.05	0.12	93	2.7	0.07	5.7	13	4
1494648	Soil	6.9	156.8	2.26	169.5	0.129	3	2.28	0.002	0.05	0.1	8.2	0.04	0.02	113	1.1	0.07	6.2	13	5
1494649	Soil	6.1	100.7	1.67	162.4	0.127	4	2.13	0.003	0.05	<0.1	6.8	0.04	0.05	47	2.0	0.03	5.9	11	3
1494650	Soil	8.4	107.3	1.85	141.6	0.111	4	2.27	0.003	0.07	<0.1	8.1	0.05	0.06	52	2.3	0.06	6.9	16	<2
1494623	Soil	6.7	70.8	1.32	96.7	0.188	3	2.60	0.004	0.07	0.2	5.5	0.05	<0.02	14	0.6	0.08	7.3	<10	<2
1494624	Soil	7.2	79.8	1.27	86.8	0.174	2	2.48	0.007	0.07	0.2	5.2	0.04	<0.02	11	0.3	0.07	7.2	<10	<2
1494625	Soil	6.6	78.1	1.32	72.8	0.153	2	2.25	0.006	0.08	0.2	5.1	0.03	<0.02	17	0.5	0.05	6.3	<10	2

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

www.acmelab.com

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6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000032.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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
1494626	Soil	1.03	51.72	7.59	72.7	96	56.7	20.0	606	4.02	11.3	0.5	5.2	1.1	35.3	0.08	0.50	0.10	88	0.77	0.051
1494653	Soil	1.39	37.60	17.59	49.4	298	27.8	15.3	493	2.38	4.5	0.8	72.3	0.7	149.2	0.28	0.36	0.06	51	2.50	0.070
1494655	Soil	1.40	63.06	9.52	78.7	221	58.3	22.7	826	3.96	20.0	0.5	11.5	1.2	43.9	0.18	0.72	0.12	86	0.88	0.065
1494656	Soil	1.52	61.53	9.16	62.7	231	44.1	19.9	412	3.67	16.3	0.7	11.8	1.6	41.3	0.07	0.47	0.13	86	0.79	0.083
1494657	Soil	0.84	112.5	26.35	62.5	286	132.0	24.0	581	4.09	15.6	0.5	27.5	1.7	39.4	0.09	0.52	0.09	95	0.92	0.022
1494658	Soil	0.83	115.0	7.53	61.5	48	160.6	29.5	649	4.43	9.1	0.4	6.1	1.4	36.6	0.05	0.37	0.07	114	0.99	0.017
1494659	Soil	1.20	50.75	11.87	65.9	101	65.0	22.0	642	3.96	10.8	0.6	4.8	1.8	38.5	0.06	0.53	0.10	96	0.70	0.048
1494660	Soil	0.50	116.0	6.32	42.5	94	57.3	16.4	448	3.44	8.4	0.5	8.4	2.9	33.5	0.06	0.34	0.06	86	0.58	0.024
1494661	Soil	0.91	102.4	24.66	58.5	242	150.8	29.0	593	4.17	15.5	0.5	9.4	1.5	35.8	0.10	0.48	0.09	97	1.03	0.021
1494662	Soil	0.76	165.3	7.36	54.9	158	127.1	25.2	638	3.62	9.7	0.3	7.2	1.1	119.5	0.08	0.50	0.08	82	4.99	0.050
1494663	Soil	0.66	223.2	11.81	74.6	106	103.5	26.8	857	4.59	12.7	0.4	10.1	1.6	40.1	0.05	0.42	0.09	107	1.02	0.060
1494664	Soil	1.26	62.93	9.76	68.4	130	64.6	24.4	554	3.97	15.9	0.5	20.7	1.6	35.4	0.12	0.59	0.10	90	0.82	0.033

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PHONE (604) 253-3158

www.acmelab.com

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Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000032.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	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	10	2
1494626	Soil	6.5	91.9	1.47	71.8	0.181	1	2.40	0.005	0.08	0.1	5.2	0.03	<0.02	12	0.5	0.04	6.6	<10	<2
1494653	Soil	6.9	35.6	0.84	73.5	0.093	15	1.17	0.016	0.09	0.1	3.5	0.05	0.11	39	1.3	0.04	3.3	<10	<2
1494655	Soil	7.0	83.0	1.27	84.0	0.170	3	2.10	0.010	0.12	0.1	5.1	0.03	<0.02	13	0.6	0.04	6.0	<10	<2
1494656	Soil	9.5	78.7	1.20	116.4	0.113	2	2.49	0.008	0.06	0.1	5.6	0.07	<0.02	22	0.5	<0.02	7.0	<10	<2
1494657	Soil	8.7	143.4	1.71	93.3	0.237	2	2.41	0.015	0.09	0.1	6.6	0.03	0.02	12	0.4	<0.02	6.0	<10	<2
1494658	Soil	5.7	198.7	2.30	88.8	0.354	3	2.84	0.008	0.05	<0.1	5.7	0.03	<0.02	8	0.5	0.02	7.2	<10	<2
1494659	Soil	8.3	99.6	1.40	136.4	0.176	2	2.36	0.012	0.06	0.1	6.0	0.04	<0.02	16	0.5	0.03	6.5	<10	<2
1494660	Soil	14.1	67.8	0.85	48.6	0.161	3	1.56	0.033	0.11	<0.1	8.1	0.07	<0.02	79	0.2	<0.02	4.4	<10	<2
1494661	Soil	6.8	189.9	2.07	70.7	0.278	3	2.33	0.009	0.08	0.1	6.3	0.04	0.02	20	0.4	0.03	5.9	<10	2
1494662	Soil	8.7	121.9	1.89	111.2	0.185	4	2.06	0.020	0.06	0.1	5.0	0.03	0.03	35	0.8	0.04	5.1	<10	6
1494663	Soil	9.3	149.7	2.06	109.9	0.268	5	2.82	0.011	0.06	0.1	8.1	0.03	<0.02	47	0.3	0.06	7.5	<10	<2
1494664	Soil	5.7	98.8	1.34	65.0	0.245	2	2.29	0.009	0.13	0.1	5.0	0.03	<0.02	15	0.5	0.03	6.8	<10	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000032.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	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																					
1494601	Soil	0.81	56.08	7.36	61.4	135	45.3	17.8	475	3.13	10.4	0.4	2.4	1.6	71.7	0.19	0.59	0.10	66	2.30	0.079
REP 1494601	QC	0.85	56.60	7.33	60.1	113	46.1	18.6	449	3.16	10.6	0.4	3.0	1.6	71.9	0.20	0.52	0.10	66	2.36	0.079
1494648	Soil	2.42	196.2	6.51	116.9	233	119.7	23.7	781	4.79	14.7	0.6	5.2	0.9	23.1	0.27	3.77	0.09	100	0.48	0.043
REP 1494648	QC	2.32	200.4	6.97	118.7	221	117.8	22.5	691	4.72	14.4	0.6	5.6	0.9	22.5	0.27	3.71	0.09	99	0.48	0.042
Reference Materials																					
STD DS11	Standard	13.67	149.2	137.8	324.7	1877	77.4	12.6	1021	3.06	43.2	2.7	107.2	8.1	68.7	2.40	8.93	12.23	49	1.03	0.075
STD DS11	Standard	14.32	159.1	137.6	340.7	1812	80.3	13.7	1000	3.07	42.1	2.6	79.9	8.0	69.7	2.18	8.32	11.45	48	1.02	0.071
STD DS9	Standard	13.09	107.0	125.9	312.9	1936	39.7	7.5	577	2.33	25.3	2.9	122.8	6.7	77.1	2.29	5.99	6.77	40	0.74	0.084
STD DS9	Standard	13.58	114.6	130.5	307.0	1845	39.4	8.1	595	2.35	25.9	3.0	119.8	7.4	79.8	2.25	5.90	6.92	39	0.73	0.083
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	9	<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	<0.01	0.02	<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

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000032.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	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	10	2
Pulp Duplicates																				
1494601	Soil	10.8	54.1	1.05	76.8	0.110	5	1.52	0.018	0.15	0.1	5.0	0.05	0.03	20	0.6	0.04	4.5	10	14
REP 1494601	QC	10.7	51.6	1.05	78.7	0.108	5	1.54	0.018	0.15	0.1	4.8	0.05	0.03	15	0.6	0.04	4.3	<10	<2
1494648	Soil	6.9	156.8	2.26	169.5	0.129	3	2.28	0.002	0.05	0.1	8.2	0.04	0.02	113	1.1	0.07	6.2	13	5
REP 1494648	QC	6.7	150.5	2.17	163.7	0.132	4	2.21	0.003	0.05	0.1	8.6	0.03	0.02	93	1.2	0.02	5.7	11	4
Reference Materials																				
STD DS11	Standard	19.2	56.1	0.84	374.1	0.096	6	1.13	0.067	0.40	3.1	3.1	4.81	0.28	295	2.4	4.63	4.9	107	171
STD DS11	Standard	18.4	55.7	0.82	373.1	0.096	7	1.11	0.068	0.39	2.9	3.0	4.56	0.27	253	2.3	4.59	5.0	101	171
STD DS9	Standard	15.1	114.3	0.62	297.6	0.120	3	0.97	0.086	0.40	3.0	2.5	5.27	0.17	204	5.3	4.70	4.6	112	356
STD DS9	Standard	15.1	119.1	0.61	319.8	0.122	3	0.95	0.086	0.40	3.0	2.1	5.07	0.17	191	5.5	5.34	4.4	114	365
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	120	350
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	<10	<2
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	<10	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: June 14, 2013
Report Date: July 08, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI13000033.1

CLIENT JOB INFORMATION

Project: Pacer
Shipment ID:
P.O. Number
Number of Samples: 8

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	8	Dry at 60C			WHI
SS80	8	Dry at 60C sieve 100g to -80 mesh			WHI
1F02-1F08	8	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Longford Exploration Services Ltd.
6970 Napier Street
Burnaby BC V5B 2C4
CANADA

CC:

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000033.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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
1494616	Sediment	0.76	290.9	7.90	81.0	133	58.0	21.5	699	3.31	7.0	0.3	9.1	0.9	44.0	0.48	0.57	0.24	66	1.24	0.081
1494628	Sediment	7.80	134.6	41.30	266.1	658	69.6	30.4	1063	5.16	147.8	1.6	4.9	2.5	70.6	2.16	53.94	0.40	52	0.27	0.113
1494633	Sediment	6.69	109.1	13.84	219.7	441	57.4	22.8	856	4.46	90.1	1.3	4.6	1.3	46.1	1.49	28.45	0.30	51	0.25	0.107
1494637	Sediment	10.54	143.1	13.21	380.7	556	84.8	29.5	941	4.96	33.2	1.6	0.4	1.9	47.8	4.62	11.73	0.25	56	0.63	0.073
1494639	Sediment	4.47	235.7	9.17	181.7	242	74.3	32.3	932	5.14	21.3	0.6	14.8	1.0	25.6	1.23	3.41	0.14	87	0.44	0.070
1494651	Sediment	0.85	59.77	7.22	70.3	120	34.2	16.6	644	3.24	5.4	0.3	2.9	1.4	121.4	0.22	0.39	0.12	61	3.13	0.092
1494652	Sediment	0.81	48.28	9.12	73.8	133	30.3	14.4	537	2.78	3.7	0.6	12.1	0.7	117.9	0.20	0.75	0.10	49	1.99	0.082
1494654	Sediment	0.36	51.06	5.26	40.7	63	33.0	7.7	276	1.64	1.6	0.2	9.0	0.8	217.8	0.53	0.28	0.05	32	14.38	0.047

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000033.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
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	10	2
1494616	Sediment	4.9	119.4	1.35	102.7	0.118	4	1.82	0.008	0.06	0.2	3.9	0.03	0.02	112	1.6	0.06	4.9	59	6
1494628	Sediment	17.6	58.7	0.89	158.0	0.026	6	1.25	0.016	0.05	0.1	6.5	0.09	0.23	105	7.6	0.17	3.2	11	<2
1494633	Sediment	14.1	68.8	0.92	165.8	0.016	3	1.42	0.008	0.05	0.2	5.3	0.09	0.11	70	4.1	0.16	3.6	<10	<2
1494637	Sediment	10.4	73.1	0.86	127.0	0.027	6	0.92	0.005	0.04	0.1	6.8	0.19	0.52	125	9.4	0.11	2.3	<10	<2
1494639	Sediment	6.2	94.8	1.56	105.7	0.077	8	1.68	0.004	0.05	0.1	7.3	0.04	0.08	79	2.7	0.03	4.9	<10	7
1494651	Sediment	6.8	41.6	1.33	42.8	0.094	8	1.82	0.012	0.08	0.1	4.4	0.04	0.05	26	0.2	0.12	5.0	<10	<2
1494652	Sediment	6.0	57.8	1.00	69.1	0.075	12	1.59	0.009	0.08	0.2	3.6	0.03	0.13	38	6.4	0.04	4.6	13	<2
1494654	Sediment	4.6	37.6	0.72	92.7	0.059	9	0.92	0.022	0.07	<0.1	2.9	0.03	0.10	45	1.5	0.07	2.3	13	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000033.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	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
Reference Materials																					
STD DS11	Standard	13.58	158.2	150.7	334.7	1903	84.2	13.9	997	2.98	41.7	2.5	73.6	7.4	70.1	2.33	10.27	13.38	46	1.01	0.071
STD DS9	Standard	12.18	112.7	133.9	319.3	1784	41.4	7.5	630	2.29	24.8	2.8	120.9	6.2	74.0	2.27	6.32	7.57	37	0.68	0.079
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	0.06	0.02	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

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PHONE (604) 253-3158

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Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000033.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	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	10	2
Reference Materials																				
STD DS11	Standard	18.1	57.4	0.82	351.2	0.085	7	1.05	0.062	0.38	3.2	2.8	4.69	0.28	292	2.1	4.94	4.3	103	196
STD DS9	Standard	12.7	116.8	0.59	288.4	0.103	3	0.88	0.074	0.38	3.2	2.2	5.12	0.17	218	5.1	5.05	4.4	108	351
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	120	350
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	<10	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: June 24, 2013
Report Date: July 08, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS WHI13000054.1

CLIENT JOB INFORMATION

Project: Pacer
Shipment ID:
P.O. Number
Number of Samples: 46

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	46	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1F02-1F08	46	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

PICKUP-PLP	Client to Pickup Pulps
DISP-RJT	Dispose of Reject After 90 days

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

ADDITIONAL COMMENTS

Invoice To: Longford Exploration Services Ltd.
6970 Napier Street
Burnaby BC V5B 2C4
CANADA

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
Country Manager - Canada

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000054.1

Method		WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.01	0.01	0.01	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
1494851	Rock	2.25	0.55	21.66	5.13	25.6	30	12.5	5.9	480	1.44	2.3	0.1	0.9	0.5	182.0	0.08	0.07	0.07	36	4.69
1494852	Rock	2.18	0.62	82.86	8.00	65.9	80	26.7	10.2	577	3.28	5.9	0.3	<0.2	1.3	117.7	0.08	0.20	0.18	45	2.64
1494853	Rock	2.30	0.81	35.26	3.92	73.2	48	20.3	15.0	611	3.86	3.8	0.2	1.0	0.7	21.9	0.05	0.13	0.08	51	0.96
1494854	Rock	2.11	0.23	17.50	2.05	32.4	47	9.7	5.4	493	1.09	2.8	0.2	6.2	0.7	188.2	0.09	0.33	0.07	32	8.05
1494855	Rock	1.75	0.30	30.26	4.48	82.7	60	20.2	17.2	902	4.67	2.9	0.2	0.4	0.6	24.2	0.04	0.04	0.18	80	1.44
1494856	Rock	2.38	0.36	53.17	15.44	62.0	124	17.2	9.6	476	2.50	4.6	0.2	0.5	0.4	50.5	0.10	0.07	0.22	31	1.30
1494857	Rock	2.04	0.09	3.17	1.46	14.4	15	2.0	1.6	419	0.54	0.8	<0.1	1.6	<0.1	61.6	0.01	0.19	0.04	12	2.35
1494858	Rock	2.13	0.89	49.83	10.31	63.9	106	34.6	15.4	419	2.59	7.4	0.2	0.3	0.5	55.5	0.36	0.13	0.13	53	2.05
1494859	Rock	2.09	0.63	26.92	10.07	71.7	95	6.7	5.0	1185	3.77	5.3	0.3	0.6	1.0	94.4	0.09	0.12	0.18	20	4.31
1494860	Rock	1.20	0.59	71.03	6.36	102.0	215	22.5	13.0	1618	4.34	12.0	0.2	<0.2	0.7	18.5	0.18	0.07	0.13	45	0.31
1494861	Rock	1.82	0.71	19.02	2.70	35.2	72	8.7	7.5	5775	2.76	4.5	0.1	0.5	0.4	230.1	0.10	0.14	0.07	31	22.06
1494862	Rock	1.11	0.70	52.68	6.49	92.4	116	18.0	11.8	1093	4.15	5.7	0.2	1.0	0.5	23.3	0.09	0.17	0.10	27	0.41
1494957	Rock	4.25	0.34	83.69	7.70	89.1	96	34.3	17.9	782	4.51	3.4	0.2	0.5	0.9	74.6	0.07	0.12	0.11	77	1.50
1494958	Rock	1.43	0.27	26.35	3.24	38.7	37	14.6	8.2	474	2.09	3.5	0.2	0.6	0.8	132.7	0.10	0.13	0.03	30	3.32
1494959	Rock	0.92	3.18	106.0	9.84	74.8	135	20.0	16.0	704	5.21	0.2	0.5	0.6	1.3	31.4	0.17	0.38	0.07	148	1.55
1494961	Rock	1.57	0.03	8.46	7.18	28.6	39	23.5	13.9	992	2.67	12.8	<0.1	0.2	0.1	474.7	0.05	0.08	0.03	79	17.18
1494962	Rock	1.28	0.62	29.06	3.94	54.6	70	9.3	6.3	484	3.42	2.8	0.3	0.7	1.0	21.6	0.04	0.16	0.08	41	0.20
1494963	Rock	1.29	0.14	126.4	4.98	79.7	129	30.0	33.4	1239	6.21	24.2	<0.1	0.9	0.3	125.3	0.10	0.14	0.04	139	1.82
1494964	Rock	1.32	0.03	6.02	0.42	17.9	13	12.6	3.2	893	0.65	1.0	1.0	<0.2	<0.1	538.6	0.55	0.04	<0.02	23	12.84
1494965	Rock	1.08	1.35	11.08	2.05	42.1	53	8.2	8.4	3325	3.48	1.2	1.0	1.3	1.3	240.5	0.08	0.17	0.03	49	15.01
1494966	Rock	1.61	0.95	39.94	3.42	58.0	106	13.1	7.9	435	3.29	0.2	0.4	<0.2	1.2	9.2	0.08	0.30	0.09	46	0.10
1494967	Rock	1.01	1.67	59.82	7.77	97.5	170	32.9	20.5	1613	3.62	14.8	0.4	0.8	1.8	45.4	0.16	0.31	0.09	35	2.10
1494968	Rock	0.88	0.11	66.26	0.59	141.5	75	20.2	16.1	1086	3.39	3.7	0.5	0.3	0.5	238.4	2.40	0.05	<0.02	80	10.01
1494969	Rock	2.30	1.16	15.61	7.86	48.6	448	13.0	8.3	515	3.16	16.9	<0.1	<0.2	1.0	16.4	0.02	0.76	0.26	34	0.35
1494970	Rock	1.73	1.16	26.28	6.88	20.4	153	8.4	9.7	1756	1.98	8.6	<0.1	4.0	0.2	687.4	0.27	0.26	0.12	11	12.70
1494971	Rock	1.62	0.26	105.6	2.74	96.0	218	14.1	23.5	1551	5.85	4.0	0.1	0.8	1.7	268.1	0.24	0.22	0.04	181	5.31
1494972	Rock	1.00	0.06	90.04	1.11	76.0	147	11.0	25.6	1336	5.69	0.5	<0.1	14.8	0.5	87.6	0.14	0.05	0.07	170	7.55
1494973	Rock	0.81	0.03	138.8	2.61	53.7	214	72.2	42.5	933	4.91	4.8	<0.1	2.6	<0.1	37.2	0.03	0.07	0.06	131	4.98
1494974	Rock	0.75	0.68	11.19	2.61	93.3	51	12.6	8.7	1414	0.75	5.6	0.2	<0.2	0.2	721.3	0.84	0.15	0.03	5	12.80
1494975	Rock	0.98	0.18	18.30	1.47	112.6	27	18.5	11.3	809	1.88	1.0	0.2	1.1	0.2	152.0	0.47	0.12	0.03	17	3.05

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www.acmelab.com

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

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000054.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
MDL		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	10	2
1494851	Rock	0.041	2.8	24.9	0.51	14.7	0.110	<1	1.28	0.032	0.04	0.2	4.1	<0.02	<0.02	16	0.5	0.03	4.3	<10	<2
1494852	Rock	0.060	4.9	23.3	1.37	94.7	0.165	2	2.52	0.009	0.33	0.2	4.0	0.06	<0.02	14	<0.1	<0.02	6.4	<10	<2
1494853	Rock	0.075	2.8	30.2	1.40	62.4	0.176	<1	2.37	0.024	0.18	0.2	4.0	<0.02	0.08	19	<0.1	<0.02	6.1	<10	<2
1494854	Rock	0.032	2.9	19.2	0.42	36.5	0.147	256	0.92	0.010	0.08	0.4	3.7	<0.02	<0.02	15	0.1	0.03	2.6	<10	<2
1494855	Rock	0.059	2.5	39.7	1.72	43.0	0.208	<1	3.03	0.029	0.09	0.2	4.8	<0.02	0.04	7	0.3	<0.02	8.3	<10	<2
1494856	Rock	0.042	1.7	14.6	0.82	110.6	0.141	1	1.38	0.027	0.24	0.2	2.2	0.04	<0.02	<5	<0.1	0.08	3.3	<10	<2
1494857	Rock	0.005	<0.5	3.0	0.08	9.1	0.021	445	0.41	0.015	0.02	<0.1	0.9	<0.02	0.03	5	0.3	0.05	0.9	<10	<2
1494858	Rock	0.051	2.1	38.8	0.99	65.1	0.185	2	2.01	0.039	0.16	0.1	3.4	<0.02	0.09	10	0.4	0.06	4.1	<10	3
1494859	Rock	0.055	5.5	8.6	1.20	56.1	0.171	1	2.30	0.013	0.19	0.2	1.8	0.03	0.04	23	0.3	0.12	3.7	<10	<2
1494860	Rock	0.049	2.8	20.0	1.54	81.8	0.121	<1	2.63	0.025	0.17	0.1	3.0	0.03	0.05	9	0.2	0.08	7.0	<10	<2
1494861	Rock	0.183	5.6	5.6	0.57	32.4	0.062	4	1.37	0.006	0.07	0.3	2.6	<0.02	0.22	9	0.3	0.04	3.4	<10	<2
1494862	Rock	0.062	3.1	14.3	1.25	73.2	0.112	3	2.23	0.023	0.18	<0.1	1.8	0.03	0.54	6	0.9	0.08	4.2	<10	2
1494957	Rock	0.065	3.5	25.1	1.90	82.0	0.183	<1	3.11	0.023	0.25	0.2	4.6	0.03	<0.02	12	0.1	0.07	7.3	<10	<2
1494958	Rock	0.056	3.8	14.4	0.64	79.7	0.115	5	1.52	0.017	0.25	0.2	3.4	0.03	<0.02	39	<0.1	<0.02	4.5	<10	<2
1494959	Rock	0.072	5.1	47.1	1.52	27.6	0.230	<1	3.09	0.028	0.09	<0.1	7.5	0.03	0.18	19	1.6	0.08	9.1	<10	<2
1494961	Rock	0.042	1.9	88.6	1.86	7.6	0.023	<1	2.20	0.002	<0.01	<0.1	8.9	<0.02	<0.02	7	<0.1	0.06	3.8	<10	7
1494962	Rock	0.050	4.9	23.7	0.92	101.6	0.014	<1	1.69	0.040	0.12	<0.1	4.4	<0.02	0.04	28	0.5	0.07	4.5	<10	<2
1494963	Rock	0.126	2.2	132.0	3.49	20.3	0.098	<1	4.25	0.011	<0.01	<0.1	8.5	<0.02	0.04	<5	0.3	<0.02	5.9	<10	6
1494964	Rock	0.012	2.7	16.7	2.33	82.1	<0.001	<1	0.08	0.018	<0.01	<0.1	4.7	<0.02	<0.02	5	0.2	<0.02	0.3	<10	2
1494965	Rock	0.151	9.1	14.2	1.44	87.4	0.003	2	0.80	0.060	0.07	<0.1	9.9	<0.02	0.24	<5	0.1	<0.02	3.3	<10	<2
1494966	Rock	0.047	3.1	25.7	1.16	78.2	0.010	<1	1.69	0.034	0.09	<0.1	4.1	0.03	0.25	15	1.0	0.04	4.7	<10	<2
1494967	Rock	0.064	12.3	15.0	0.92	127.7	0.004	2	1.92	0.034	0.19	<0.1	4.2	0.02	0.59	9	1.6	0.08	4.1	<10	<2
1494968	Rock	0.071	6.9	2.3	0.69	72.1	0.003	<1	1.19	0.014	0.04	<0.1	8.5	<0.02	0.82	5	4.3	<0.02	3.1	<10	<2
1494969	Rock	0.030	2.4	12.7	0.74	268.9	0.002	<1	1.65	0.028	0.19	<0.1	2.0	0.04	0.46	23	3.2	0.25	4.0	<10	<2
1494970	Rock	0.022	5.2	3.0	0.27	87.1	0.001	<1	0.41	0.005	0.04	<0.1	9.9	0.02	1.27	<5	5.9	0.13	1.2	<10	<2
1494971	Rock	0.217	14.5	9.3	2.36	74.7	0.007	<1	3.52	0.045	0.06	<0.1	11.9	<0.02	1.10	23	3.5	0.06	10.8	<10	<2
1494972	Rock	0.213	3.4	12.4	2.57	19.1	0.073	<1	2.96	0.028	0.02	<0.1	3.9	<0.02	0.85	86	0.7	0.24	10.8	<10	4
1494973	Rock	0.018	<0.5	87.6	2.58	25.4	0.133	<1	2.66	0.044	0.01	<0.1	8.5	<0.02	1.22	9	9.8	0.39	5.9	14	9
1494974	Rock	0.012	2.9	2.5	0.12	34.6	0.005	<1	0.19	0.007	0.02	<0.1	7.4	<0.02	0.31	15	2.1	0.11	0.6	<10	<2
1494975	Rock	0.055	1.5	16.1	0.41	113.3	0.017	<1	0.67	0.053	0.08	<0.1	1.5	0.05	1.01	33	2.6	0.21	2.5	<10	<2

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PHONE (604) 253-3158

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000054.1

Method		WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.01	0.01	0.01	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
1494976	Rock	0.41	0.19	75.07	2.26	90.8	102	35.3	17.5	877	3.77	0.6	0.2	<0.2	0.3	97.3	2.14	0.04	<0.02	115	2.36
1494977	Rock	0.88	0.17	9.62	12.45	58.0	38	7.3	4.6	555	1.68	1.9	0.3	0.8	0.6	133.8	0.18	0.08	0.04	11	1.58
1494978	Rock	0.96	2.45	21.29	6.00	44.8	785	36.7	13.5	244	3.64	8.3	<0.1	2964	<0.1	24.6	0.22	0.62	0.06	47	0.35
1494979	Rock	1.46	0.08	35.57	0.45	4.3	21	36.2	5.5	766	0.60	<0.1	<0.1	39.0	<0.1	77.2	0.14	0.05	0.11	10	19.62
1494980	Rock	1.28	0.10	90.26	0.16	47.7	30	144.9	28.5	634	4.20	4.6	<0.1	7.0	<0.1	9.9	0.11	0.08	0.08	161	1.98
1494981	Rock	1.29	0.12	87.61	0.17	49.5	25	142.7	28.1	698	4.38	0.2	<0.1	1.1	<0.1	4.4	0.09	0.07	0.05	177	2.26
1494982	Rock	0.79	0.05	4.46	0.13	4.6	2	22.9	3.3	1368	0.62	<0.1	<0.1	1.4	<0.1	177.7	0.14	<0.02	0.03	19	24.19
1494983	Rock	1.06	0.15	106.3	0.16	34.3	21	189.0	25.4	527	3.23	0.7	<0.1	0.4	0.2	32.2	0.07	0.03	0.03	104	2.78
1494984	Rock	0.97	0.04	246.7	0.26	50.1	26	83.1	22.5	443	4.81	0.3	<0.1	7.2	<0.1	11.1	0.03	0.04	0.02	76	1.40
1494985	Rock	0.96	0.68	110.6	20.86	164.8	94	51.7	15.0	1096	4.46	9.5	0.5	1.3	1.6	38.8	1.49	0.94	0.21	52	0.76
1494986	Rock	1.86	7.75	95.77	5.35	203.4	366	45.9	7.1	394	4.06	32.8	1.4	<0.2	3.0	74.7	2.68	2.42	0.12	38	2.90
1494987	Rock	1.66	18.75	40.92	8.45	81.9	1074	31.8	3.6	202	2.47	19.8	1.2	<0.2	1.7	48.5	1.00	3.67	0.20	42	1.48
1494988	Rock	1.60	9.61	29.03	11.11	50.4	102	8.3	13.8	792	4.40	3.3	0.3	0.8	1.5	47.4	0.16	1.06	0.12	26	3.07
1494989	Rock	0.43	7.89	20.51	6.57	47.9	81	4.7	9.4	683	4.64	1.6	0.6	1.6	3.2	29.2	0.06	0.68	0.14	14	0.36
1494990	Rock	0.68	0.12	47.30	2.96	29.5	113	17.4	3.5	340	1.01	0.2	0.2	0.5	0.5	97.8	0.11	0.10	0.04	5	2.78
1494991	Rock	0.38	1.34	36.23	13.80	46.1	850	52.7	12.1	174	3.77	0.4	0.7	3.4	1.2	33.7	0.18	1.96	0.21	10	0.74

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	MDL	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	10	2
1494976	Rock	0.088	2.2	82.3	2.09	42.7	0.097	<1	2.82	0.040	0.03	<0.1	4.7	<0.02	0.09	<5	0.5	<0.02	8.3	<10	<2
1494977	Rock	0.091	3.6	2.8	0.44	202.2	0.013	<1	1.04	0.069	0.16	<0.1	1.3	0.07	0.45	9	0.4	0.03	4.3	<10	<2
1494978	Rock	0.004	<0.5	94.7	0.75	7.2	0.178	<1	0.87	0.021	0.02	<0.1	3.4	<0.02	2.48	85	8.5	0.56	1.8	20	7
1494979	Rock	0.002	<0.5	86.8	0.74	6.9	0.007	<1	0.46	0.003	<0.01	<0.1	2.0	<0.02	0.02	<5	0.4	<0.02	0.8	<10	<2
1494980	Rock	0.051	0.5	385.2	1.80	6.9	0.340	1	3.17	0.022	0.01	<0.1	3.7	<0.02	0.03	11	0.5	0.06	6.1	<10	4
1494981	Rock	0.047	<0.5	344.0	2.02	11.4	0.262	2	3.75	0.008	0.08	<0.1	3.5	<0.02	<0.02	<5	0.4	<0.02	7.0	11	5
1494982	Rock	0.006	4.7	75.2	0.42	4.9	<0.001	<1	0.33	<0.001	0.01	<0.1	4.2	<0.02	<0.02	<5	0.3	<0.02	0.8	12	<2
1494983	Rock	0.059	3.3	566.7	2.80	15.0	0.217	3	3.06	0.012	0.13	<0.1	5.3	<0.02	<0.02	<5	0.4	<0.02	5.0	15	6
1494984	Rock	0.168	1.0	258.4	1.42	8.4	0.230	2	1.48	0.028	0.06	<0.1	2.1	<0.02	<0.02	8	0.3	0.05	4.7	<10	<2
1494985	Rock	0.059	10.5	25.0	1.24	247.6	0.002	4	1.70	0.004	0.30	<0.1	5.2	0.07	0.55	42	1.0	0.16	3.9	<10	<2
1494986	Rock	0.101	8.7	12.3	0.57	45.9	0.002	3	1.11	0.014	0.11	<0.1	4.9	0.31	3.07	104	10.0	0.06	2.2	<10	<2
1494987	Rock	0.038	9.1	9.0	0.62	47.8	<0.001	6	0.91	0.029	0.13	0.1	2.0	0.66	2.92	232	13.5	0.10	2.4	<10	6
1494988	Rock	0.116	3.6	6.6	0.34	67.7	0.141	4	1.77	0.007	0.18	0.5	2.7	0.04	2.79	6	1.8	0.13	3.5	<10	<2
1494989	Rock	0.041	4.4	6.3	1.21	90.3	0.185	4	1.99	0.014	0.23	0.2	1.9	0.05	1.63	9	0.7	0.16	3.1	<10	<2
1494990	Rock	0.020	2.1	3.7	0.47	23.6	0.016	<1	0.54	0.002	0.03	<0.1	1.2	<0.02	0.11	6	2.4	<0.02	1.5	<10	<2
1494991	Rock	0.014	4.9	8.6	0.67	53.2	0.015	2	0.89	0.003	0.14	<0.1	1.5	0.27	2.72	151	14.5	0.15	2.2	<10	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000054.1

	Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	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
Pulp Duplicates																					
1494856	Rock	2.38	0.36	53.17	15.44	62.0	124	17.2	9.6	476	2.50	4.6	0.2	0.5	0.4	50.5	0.10	0.07	0.22	31	1.30
REP 1494856	QC		0.30	51.49	14.44	60.5	115	16.7	9.4	451	2.36	4.6	0.2	1.3	0.5	49.8	0.11	0.07	0.18	31	1.23
1494975	Rock	0.98	0.18	18.30	1.47	112.6	27	18.5	11.3	809	1.88	1.0	0.2	1.1	0.2	152.0	0.47	0.12	0.03	17	3.05
REP 1494975	QC		0.15	17.94	1.44	107.9	18	17.9	10.7	771	1.85	1.1	0.2	1.2	0.2	152.3	0.49	0.10	0.02	17	3.06
1494986	Rock	1.86	7.75	95.77	5.35	203.4	366	45.9	7.1	394	4.06	32.8	1.4	<0.2	3.0	74.7	2.68	2.42	0.12	38	2.90
REP 1494986	QC		7.37	96.05	5.44	212.6	358	46.7	7.1	401	3.99	32.7	1.3	<0.2	2.9	73.8	2.84	2.52	0.11	38	2.88
1494991	Rock	0.38	1.34	36.23	13.80	46.1	850	52.7	12.1	174	3.77	0.4	0.7	3.4	1.2	33.7	0.18	1.96	0.21	10	0.74
REP 1494991	QC		1.40	36.24	13.85	49.5	845	51.5	12.9	175	3.77	<0.1	0.7	3.0	1.3	34.1	0.19	2.17	0.21	10	0.74
Core Reject Duplicates																					
1494977	Rock	0.88	0.17	9.62	12.45	58.0	38	7.3	4.6	555	1.68	1.9	0.3	0.8	0.6	133.8	0.18	0.08	0.04	11	1.58
DUP 1494977	QC		0.20	9.50	12.74	61.7	44	7.4	4.4	562	1.70	2.0	0.3	<0.2	0.6	136.5	0.20	0.07	0.04	12	1.60
Reference Materials																					
STD DS9	Standard		13.38	105.6	143.7	329.7	1945	39.4	7.0	559	2.35	25.7	3.3	135.1	7.5	76.3	2.39	5.82	6.63	39	0.73
STD DS9	Standard		12.35	106.3	127.3	308.3	1800	39.0	7.2	532	2.24	25.6	2.9	112.7	6.0	66.2	2.25	5.78	6.36	37	0.66
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
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
BLK	Blank		<0.01	<0.01	0.02	<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
Prep Wash																					
G1-WHI	Prep Blank		0.10	3.41	2.94	48.6	11	4.2	4.3	551	1.94	0.4	1.4	1.9	4.2	63.3	0.02	0.02	0.16	35	0.49
G1-WHI	Prep Blank		0.09	5.30	2.68	46.7	9	9.5	4.0	505	1.85	0.2	1.4	2.1	4.4	60.7	0.02	0.03	0.10	34	0.49

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000054.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	MDL	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	10	2
Pulp Duplicates																					
1494856	Rock	0.042	1.7	14.6	0.82	110.6	0.141	1	1.38	0.027	0.24	0.2	2.2	0.04	<0.02	<5	<0.1	0.08	3.3	<10	<2
REP 1494856	QC	0.040	1.6	13.3	0.80	104.4	0.133	<1	1.35	0.025	0.24	0.1	2.2	0.04	<0.02	24	<0.1	0.09	3.1	<10	2
1494975	Rock	0.055	1.5	16.1	0.41	113.3	0.017	<1	0.67	0.053	0.08	<0.1	1.5	0.05	1.01	33	2.6	0.21	2.5	<10	<2
REP 1494975	QC	0.053	1.4	16.3	0.40	111.2	0.016	<1	0.67	0.052	0.08	<0.1	1.4	0.05	0.99	17	2.5	0.20	2.5	<10	<2
1494986	Rock	0.101	8.7	12.3	0.57	45.9	0.002	3	1.11	0.014	0.11	<0.1	4.9	0.31	3.07	104	10.0	0.06	2.2	<10	<2
REP 1494986	QC	0.092	9.1	11.7	0.56	40.2	0.002	3	1.11	0.014	0.10	0.1	4.8	0.30	3.00	112	9.2	0.05	2.3	<10	<2
1494991	Rock	0.014	4.9	8.6	0.67	53.2	0.015	2	0.89	0.003	0.14	<0.1	1.5	0.27	2.72	151	14.5	0.15	2.2	<10	<2
REP 1494991	QC	0.015	5.0	8.5	0.67	65.9	0.015	3	0.89	0.003	0.14	<0.1	1.5	0.25	2.73	164	14.3	0.17	2.2	<10	4
Core Reject Duplicates																					
1494977	Rock	0.091	3.6	2.8	0.44	202.2	0.013	<1	1.04	0.069	0.16	<0.1	1.3	0.07	0.45	9	0.4	0.03	4.3	<10	<2
DUP 1494977	QC	0.088	3.8	3.2	0.46	223.5	0.015	<1	1.11	0.084	0.17	<0.1	1.5	0.07	0.43	8	0.2	0.10	4.3	<10	<2
Reference Materials																					
STD DS9	Standard	0.079	15.5	116.2	0.61	305.2	0.115	1	0.95	0.085	0.40	3.1	2.6	5.41	0.16	200	5.6	5.25	4.8	130	405
STD DS9	Standard	0.078	12.6	114.2	0.60	285.1	0.106	<1	0.91	0.078	0.38	3.0	2.1	5.11	0.16	212	5.7	5.22	4.1	103	351
STD DS9 Expected		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	120	350
BLK	Blank	<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	<10	<2
BLK	Blank	<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	7	<0.1	<0.02	<0.1	<10	<2
Prep Wash																					
G1-WHI	Prep Blank	0.076	9.2	7.3	0.59	238.0	0.122	<1	1.02	0.091	0.51	<0.1	2.3	0.30	<0.02	10	0.2	<0.02	5.1	<10	<2
G1-WHI	Prep Blank	0.072	8.8	7.7	0.59	225.8	0.109	<1	0.96	0.087	0.50	<0.1	1.9	0.29	<0.02	<5	<0.1	<0.02	4.7	<10	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: June 24, 2013
Report Date: July 08, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS WHI13000055.1

CLIENT JOB INFORMATION

Project: Pacer
Shipment ID:
P.O. Number
Number of Samples: 45

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	45	Dry at 60C			WHI
SS80	45	Dry at 60C sieve 100g to -80 mesh			WHI
1F02-1F08	45	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Longford Exploration Services Ltd.
6970 Napier Street
Burnaby BC V5B 2C4
CANADA

CC:

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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

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Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000055.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
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
1494719	Soil	1.89	70.78	14.84	78.1	153	37.1	21.5	652	3.57	14.0	0.8	2.7	0.8	72.3	0.10	0.93	0.32	63	1.02	0.109
1494720	Soil	1.77	60.94	15.23	81.5	184	33.9	18.7	688	3.55	17.0	0.8	3.8	0.9	73.8	0.19	0.88	0.23	61	1.11	0.096
1494721	Soil	1.91	62.33	14.93	73.2	156	32.7	20.7	692	3.55	10.4	0.7	2.1	0.8	71.7	0.09	0.89	0.20	63	1.16	0.102
1494722	Soil	2.25	84.04	18.04	99.3	282	42.0	24.9	704	3.85	13.2	0.7	4.8	1.6	70.3	0.36	1.00	0.17	68	1.05	0.108
1494723	Soil	2.58	153.1	28.75	131.1	329	61.3	33.1	805	4.56	19.9	0.7	7.1	2.2	71.6	0.21	1.42	0.27	76	0.87	0.090
1494724	Soil	1.93	65.72	16.48	85.2	115	40.0	22.6	719	3.95	14.1	0.8	4.6	1.0	61.1	0.13	1.01	0.19	69	0.76	0.120
1494725	Soil	1.90	62.23	17.46	78.8	164	35.3	21.9	693	3.48	12.0	0.8	3.4	0.7	66.7	0.12	0.90	0.17	61	0.95	0.121
1494726	Soil	0.79	211.3	7.26	76.6	147	133.3	38.8	869	4.36	3.4	0.2	2.7	0.3	17.3	0.33	0.36	0.03	70	0.82	0.033
1494727	Soil	1.23	157.9	6.72	109.9	141	99.7	34.3	822	3.89	5.5	0.2	4.3	0.4	23.8	0.64	0.59	0.07	66	0.82	0.073
1494728	Soil	3.44	175.0	8.44	164.9	291	89.4	34.5	975	4.32	9.7	0.5	7.8	0.6	36.4	1.30	1.12	0.11	63	1.27	0.085
1494729	Soil	2.32	155.2	7.31	128.7	221	85.4	29.8	958	3.89	7.6	0.4	22.8	0.5	37.1	0.92	0.88	0.08	58	1.36	0.089
1494730	Soil	4.96	106.8	13.27	179.5	360	71.5	24.5	871	3.95	12.2	0.7	8.7	0.9	35.7	1.38	1.51	0.13	49	0.86	0.073
1494731	Soil	4.73	114.7	9.95	183.1	261	81.5	26.2	767	4.16	10.6	0.6	5.7	0.8	31.0	1.49	1.23	0.12	50	1.11	0.065
1494732	Soil	3.80	127.9	9.29	141.5	328	71.6	24.9	812	4.12	12.8	0.7	2.6	0.6	39.3	0.80	1.51	0.12	53	0.83	0.096
1494733	Soil	3.00	123.6	14.10	157.7	327	65.2	29.5	1065	4.32	17.5	0.7	1.7	1.8	39.3	0.88	1.51	0.17	49	0.62	0.081
1494734	Soil	6.93	151.5	22.32	213.3	577	82.6	34.0	1704	5.53	21.1	1.1	1.7	1.8	41.8	1.36	2.27	0.22	51	0.70	0.112
1494735	Soil	1.87	179.0	7.32	143.6	158	137.2	37.0	848	5.18	5.3	0.4	6.2	0.7	35.1	0.34	0.72	0.07	77	0.80	0.060
1494736	Soil	17.60	167.4	15.32	413.6	784	110.9	26.0	860	5.36	27.7	1.2	0.4	1.6	27.4	4.04	4.00	0.21	56	0.66	0.071
1494737	Soil	5.46	173.4	7.86	255.9	288	120.4	33.6	873	5.07	13.0	0.4	5.0	0.9	31.5	1.85	1.74	0.10	66	0.82	0.055
1494738	Soil	0.42	184.4	2.61	72.4	78	132.7	45.2	868	4.88	0.4	<0.1	13.8	<0.1	30.4	0.18	0.13	0.03	87	0.88	0.044
1494739	Soil	0.58	184.1	8.20	84.7	104	121.4	44.9	951	5.94	1.1	<0.1	23.7	0.1	37.8	0.13	0.18	0.03	104	1.04	0.047
1494740	Soil	9.11	149.5	10.74	231.3	460	98.8	26.0	787	4.66	17.9	1.1	5.6	0.8	37.4	1.26	2.31	0.14	62	0.75	0.074
1494741	Soil	7.17	127.3	10.01	209.0	352	80.1	22.6	655	4.12	17.1	0.6	5.3	0.8	36.2	1.35	2.31	0.14	52	0.89	0.067
1494742	Soil	9.28	179.5	19.23	474.6	631	129.6	31.3	833	5.18	20.3	0.6	0.6	1.7	31.2	4.50	2.81	0.17	66	0.65	0.059
1494743	Soil	10.00	149.3	11.80	293.3	512	118.6	31.4	871	5.37	17.0	0.9	<0.2	1.6	24.6	3.47	2.61	0.16	64	0.45	0.075
1494744	Soil	3.97	96.62	14.42	155.9	353	53.2	24.2	919	4.18	15.5	0.8	2.0	0.7	50.4	1.05	1.57	0.17	49	0.68	0.143
1494745	Soil	3.88	95.98	12.84	151.0	326	70.1	27.9	961	4.52	16.3	0.8	1.7	1.4	36.1	0.65	1.56	0.31	57	0.43	0.078
1494746	Soil	4.51	115.9	9.05	145.8	317	73.2	24.1	791	4.15	12.9	0.8	3.8	0.9	34.9	0.66	1.51	0.21	54	0.73	0.078
1494747	Soil	3.31	123.4	8.88	131.8	337	98.3	32.6	946	4.80	10.8	0.5	7.2	0.8	32.6	0.49	1.19	0.13	68	0.64	0.064
1494748	Soil	3.36	130.3	15.29	179.5	382	73.4	31.9	1251	4.73	21.7	0.8	1.9	1.7	42.5	1.28	1.99	0.20	49	0.80	0.084

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000055.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	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	10	2
1494719	Soil	10.4	36.2	1.04	127.8	0.049	3	2.01	0.013	0.06	0.2	3.9	0.07	0.07	41	0.6	0.03	5.2	<10	<2
1494720	Soil	10.2	37.5	1.07	104.3	0.059	2	1.88	0.014	0.08	0.1	3.9	0.06	0.08	51	0.5	0.04	5.1	<10	2
1494721	Soil	8.7	36.0	1.03	151.5	0.054	<1	1.90	0.011	0.06	0.2	3.8	0.06	0.07	29	0.3	<0.02	5.0	<10	2
1494722	Soil	11.4	36.1	1.26	70.7	0.106	2	2.08	0.012	0.09	0.2	5.1	0.05	0.05	47	0.5	0.03	5.8	<10	<2
1494723	Soil	10.5	43.2	1.47	77.8	0.135	2	2.41	0.008	0.07	0.2	5.5	0.05	0.03	59	0.7	0.05	6.1	<10	<2
1494724	Soil	10.3	40.1	1.14	113.6	0.049	1	2.25	0.010	0.06	0.2	4.1	0.08	0.07	44	0.4	0.03	5.4	<10	<2
1494725	Soil	9.8	36.7	0.96	116.5	0.043	2	1.88	0.013	0.06	0.1	3.2	0.08	0.08	36	0.7	<0.02	5.0	<10	3
1494726	Soil	2.2	271.0	3.25	44.4	0.164	2	2.86	0.003	0.02	<0.1	6.4	<0.02	0.05	16	0.7	0.05	3.5	11	5
1494727	Soil	3.1	231.2	2.32	55.7	0.055	2	2.25	0.008	0.07	1.4	5.7	<0.02	0.11	14	0.8	0.04	3.5	11	3
1494728	Soil	6.5	171.4	1.84	148.6	0.050	3	1.98	0.012	0.06	<0.1	5.8	0.05	0.20	49	2.3	0.10	3.7	14	5
1494729	Soil	5.3	160.3	1.81	107.2	0.040	3	1.91	0.011	0.07	<0.1	5.2	0.04	0.19	56	1.7	0.19	3.7	<10	2
1494730	Soil	10.5	97.1	1.25	224.8	0.033	2	1.55	0.008	0.07	<0.1	4.8	0.06	0.17	39	2.5	0.15	3.4	<10	6
1494731	Soil	8.9	119.7	1.51	142.0	0.046	2	1.64	0.007	0.06	<0.1	5.1	0.04	0.17	49	2.1	0.09	3.5	13	5
1494732	Soil	10.1	112.4	1.38	198.1	0.028	4	1.75	0.012	0.06	0.1	4.8	0.07	0.16	53	2.7	0.09	3.7	11	<2
1494733	Soil	20.0	83.8	1.26	201.4	0.029	<1	1.84	0.010	0.06	0.1	5.3	0.05	0.10	36	2.3	0.10	4.2	<10	2
1494734	Soil	20.1	83.7	1.33	171.8	0.032	2	2.01	0.006	0.07	0.1	6.3	0.06	0.08	54	2.9	0.20	4.7	<10	<2
1494735	Soil	5.2	265.2	3.08	159.6	0.122	<1	2.97	0.005	0.07	0.1	6.2	0.02	0.05	22	1.2	0.10	5.9	11	11
1494736	Soil	18.1	101.3	1.39	220.9	0.040	<1	1.63	0.005	0.07	0.3	5.5	0.12	0.19	92	5.8	0.21	3.5	<10	6
1494737	Soil	8.3	204.1	2.20	203.0	0.071	3	2.33	0.004	0.08	0.3	6.0	0.05	0.09	81	2.3	0.04	4.6	<10	8
1494738	Soil	0.6	284.6	3.70	30.7	0.152	1	3.22	<0.001	0.04	<0.1	5.9	<0.02	<0.02	14	0.3	0.04	5.2	21	6
1494739	Soil	0.8	225.2	3.58	62.7	0.100	2	3.54	<0.001	0.06	0.1	10.0	<0.02	0.02	29	0.6	0.11	6.3	22	4
1494740	Soil	9.2	141.9	1.69	247.8	0.031	1	2.02	0.006	0.06	0.2	5.7	0.08	0.09	64	2.6	0.08	4.2	13	2
1494741	Soil	8.3	97.1	1.39	190.8	0.029	2	1.63	0.008	0.06	0.2	4.6	0.07	0.15	98	3.0	0.05	3.3	<10	3
1494742	Soil	10.5	148.7	1.96	154.9	0.097	<1	2.12	0.002	0.06	0.2	5.8	0.08	0.09	104	3.3	0.11	4.2	<10	7
1494743	Soil	13.9	163.5	1.92	111.3	0.081	1	1.99	0.003	0.06	0.1	6.1	0.08	0.14	70	4.7	0.10	4.0	<10	4
1494744	Soil	12.5	70.5	1.02	279.8	0.019	2	1.71	0.013	0.06	0.1	3.9	0.08	0.15	43	2.1	0.06	4.1	<10	<2
1494745	Soil	11.8	105.8	1.46	190.5	0.035	2	2.01	0.009	0.08	0.1	5.6	0.05	0.09	29	1.8	0.13	4.3	<10	<2
1494746	Soil	10.2	118.2	1.43	268.4	0.026	1	1.88	0.009	0.05	<0.1	5.1	0.07	0.14	35	2.1	0.18	4.1	<10	5
1494747	Soil	8.0	187.2	2.04	189.0	0.044	<1	2.38	0.006	0.05	0.1	6.4	0.05	0.10	32	1.4	0.10	4.1	<10	8
1494748	Soil	15.0	72.1	1.32	220.6	0.029	3	2.01	0.009	0.10	0.1	5.2	0.06	0.12	58	1.5	0.12	4.7	<10	3

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000055.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	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
1494749	Soil	4.26	123.0	12.62	154.7	356	75.0	26.4	823	4.41	15.2	0.8	4.6	0.8	40.6	0.85	1.58	0.15	56	0.73	0.089
1494750	Soil	4.31	124.2	17.45	157.8	495	62.2	27.9	1012	5.00	24.0	0.8	3.3	1.2	43.3	0.51	2.94	0.22	51	0.54	0.096
1494665	Soil	3.88	79.73	11.44	152.4	288	49.9	20.8	805	4.22	15.4	0.7	0.7	0.6	45.3	0.65	1.78	0.18	52	0.58	0.117
1494666	Soil	5.35	153.0	10.36	178.5	355	111.1	31.3	869	4.98	11.2	0.7	5.7	1.1	33.1	0.84	1.65	0.11	66	0.57	0.043
1494667	Soil	2.39	112.9	7.79	130.9	208	77.4	26.4	736	3.55	8.1	0.4	9.5	0.5	42.5	0.88	1.09	0.08	51	1.18	0.065
1494668	Soil	5.27	150.3	10.45	212.5	526	86.5	25.7	751	4.18	35.5	1.7	3.2	1.2	44.0	1.45	2.06	0.27	50	1.26	0.077
1494669	Soil	4.91	186.7	9.56	181.3	256	104.7	34.1	887	4.62	12.3	0.8	15.1	1.0	31.1	0.61	1.63	0.24	65	0.47	0.052
1494670	Soil	3.24	194.9	17.28	194.6	352	90.3	35.3	1012	4.57	16.1	0.6	8.8	1.2	37.1	0.91	1.69	0.24	57	0.69	0.062
1494671	Soil	4.64	131.0	14.37	174.2	366	63.3	29.7	982	4.38	22.1	0.8	8.7	1.7	37.5	0.95	2.61	0.25	47	0.56	0.106
1494672	Soil	4.18	137.4	19.44	141.0	390	74.8	28.9	1605	5.40	19.3	0.7	5.2	1.4	46.3	0.34	1.72	0.27	49	0.49	0.082
1494673	Soil	4.64	136.9	17.78	173.5	338	70.1	28.9	1126	5.39	23.0	0.8	6.2	1.6	38.3	0.52	2.66	0.26	50	0.39	0.097
1494674	Soil	4.69	119.7	19.13	145.7	597	63.6	21.2	796	4.54	21.5	0.9	5.3	1.6	52.5	0.42	2.10	0.22	49	0.63	0.089
1494676	Sediment	2.82	97.61	11.72	136.5	227	49.2	25.4	717	4.26	12.0	0.7	2.7	1.9	81.0	0.63	1.14	0.16	70	1.67	0.095
1494677	Sediment	9.02	84.95	11.87	203.8	477	47.5	21.6	671	4.48	24.8	1.1	1.2	2.1	65.4	1.79	3.11	0.20	48	0.72	0.087
1494678	Sediment	8.24	111.1	11.32	310.8	465	61.2	23.4	633	5.17	33.7	1.1	0.4	1.9	53.9	3.08	3.23	0.18	60	0.87	0.082

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

CERTIFICATE OF ANALYSIS WHI13000055.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	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	10	2
1494749	Soil	10.1	122.7	1.46	211.5	0.023	2	1.91	0.010	0.06	0.1	5.3	0.06	0.13	34	2.5	0.02	4.1	12	5
1494750	Soil	13.7	64.4	1.18	341.4	0.025	1	2.04	0.006	0.07	0.1	5.4	0.06	0.08	35	1.8	0.18	5.1	<10	4
1494665	Soil	10.7	75.3	1.03	208.3	0.017	<1	1.69	0.010	0.06	0.1	3.3	0.07	0.14	36	2.0	0.06	4.1	<10	<2
1494666	Soil	9.6	181.4	2.16	128.7	0.074	1	2.45	0.003	0.07	0.1	6.4	0.06	0.06	47	2.6	0.13	4.7	16	6
1494667	Soil	5.4	135.2	1.63	130.3	0.048	2	1.79	0.007	0.05	0.2	4.0	0.04	0.15	36	1.4	0.06	3.7	<10	3
1494668	Soil	11.9	108.2	1.44	172.1	0.022	3	1.83	0.006	0.06	0.2	5.2	0.05	0.11	70	7.3	0.15	3.9	<10	2
1494669	Soil	8.1	213.7	2.33	195.7	0.048	2	2.41	0.005	0.05	0.2	6.3	0.04	0.02	81	1.8	0.28	5.3	12	3
1494670	Soil	12.8	155.3	1.90	168.9	0.037	2	2.24	0.007	0.05	0.1	5.3	0.04	0.06	65	2.0	0.22	5.3	10	5
1494671	Soil	15.4	68.7	1.02	210.4	0.019	1	1.62	0.007	0.06	0.2	5.3	0.07	0.05	86	1.8	0.14	3.8	<10	<2
1494672	Soil	13.8	70.9	1.24	196.4	0.040	<1	2.13	0.009	0.05	0.1	4.9	0.04	0.08	57	1.6	0.19	5.6	<10	<2
1494673	Soil	15.6	66.0	1.19	222.3	0.020	1	2.07	0.009	0.06	0.1	5.2	0.07	0.08	49	2.1	0.15	5.2	<10	<2
1494674	Soil	14.4	76.0	1.07	309.3	0.013	1	1.75	0.013	0.05	0.1	5.8	0.07	0.10	56	3.3	0.15	4.3	<10	<2
1494676	Sediment	8.6	54.9	1.43	78.0	0.174	5	2.10	0.012	0.08	0.2	5.7	0.08	0.20	35	2.2	0.09	6.1	<10	<2
1494677	Sediment	10.9	31.6	0.94	140.6	0.083	6	1.48	0.012	0.09	0.1	4.3	0.31	0.40	119	9.1	0.10	4.3	<10	<2
1494678	Sediment	8.2	41.4	1.18	108.4	0.066	8	1.49	0.010	0.07	0.1	5.9	0.28	1.01	135	12.2	0.13	4.3	<10	3

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000055.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	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																					
1494735	Soil	1.87	179.0	7.32	143.6	158	137.2	37.0	848	5.18	5.3	0.4	6.2	0.7	35.1	0.34	0.72	0.07	77	0.80	0.060
REP 1494735	QC	1.87	186.7	7.49	157.3	164	136.9	40.0	906	5.42	4.9	0.4	5.1	0.7	37.6	0.48	0.78	0.07	80	0.82	0.065
1494677	Sediment	9.02	84.95	11.87	203.8	477	47.5	21.6	671	4.48	24.8	1.1	1.2	2.1	65.4	1.79	3.11	0.20	48	0.72	0.087
REP 1494677	QC	8.92	84.50	11.64	203.5	455	46.4	21.5	650	4.46	24.6	1.1	<0.2	2.1	66.9	1.87	3.13	0.20	47	0.72	0.088
Reference Materials																					
STD DS11	Standard	15.05	143.7	144.0	340.7	1813	78.7	13.5	1012	3.10	41.4	2.6	78.7	8.0	67.7	2.16	8.89	10.81	48	1.03	0.063
STD DS11	Standard	14.46	158.9	148.4	332.3	1802	86.3	14.2	990	3.12	40.8	2.7	152.0	8.4	71.1	2.31	9.37	12.08	47	1.02	0.065
STD DS9	Standard	14.14	109.3	134.2	314.6	1777	43.9	7.8	583	2.39	24.5	3.1	113.5	6.7	76.6	2.42	5.99	6.30	40	0.75	0.083
STD DS9	Standard	13.17	111.2	133.7	307.2	1741	42.4	8.1	553	2.35	25.0	3.0	113.7	6.8	76.7	2.18	5.97	6.66	39	0.71	0.076
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	4	0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	0.02	<0.02	0.05	<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

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6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: Pacer
Report Date: July 08, 2013

QUALITY CONTROL REPORT WHI13000055.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	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	10	2
Pulp Duplicates																				
1494735	Soil	5.2	265.2	3.08	159.6	0.122	<1	2.97	0.005	0.07	0.1	6.2	0.02	0.05	22	1.2	0.10	5.9	11	11
REP 1494735	QC	5.5	275.8	3.12	161.2	0.153	2	2.94	0.005	0.09	0.2	6.3	0.03	0.05	17	0.7	0.18	6.0	<10	3
1494677	Sediment	10.9	31.6	0.94	140.6	0.083	6	1.48	0.012	0.09	0.1	4.3	0.31	0.40	119	9.1	0.10	4.3	<10	<2
REP 1494677	QC	11.2	30.4	0.93	140.1	0.083	6	1.46	0.012	0.09	0.2	4.3	0.31	0.39	134	8.6	0.11	4.1	<10	2
Reference Materials																				
STD DS11	Standard	19.5	56.6	0.83	370.8	0.092	6	1.13	0.066	0.40	3.0	2.9	4.48	0.28	250	1.6	4.77	5.0	106	175
STD DS11	Standard	18.5	57.7	0.82	354.8	0.091	7	1.08	0.068	0.39	3.2	2.9	4.60	0.28	252	2.1	4.30	4.5	99	192
STD DS9	Standard	15.7	115.0	0.63	304.7	0.120	2	0.98	0.085	0.41	3.3	2.4	5.22	0.16	187	5.3	5.03	4.7	124	336
STD DS9	Standard	14.1	114.8	0.61	282.3	0.113	1	0.93	0.085	0.40	3.1	2.1	5.06	0.17	198	5.0	4.88	4.3	123	359
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	120	350
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	<10	<2
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	<10	<2

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

www.acmelab.com

Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: August 16, 2013
Report Date: August 30, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI13000304.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 5

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	5	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1F02-1F08	5	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

PICKUP-PLP	Client to Pickup Pulps
DISP-RJT	Dispose of Reject After 90 days

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

ADDITIONAL COMMENTS

Invoice To: Longford Exploration Services Ltd.
6970 Napier Street
Burnaby BC V5B 2C4
CANADA

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
Country Manager - Canada

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Longford Exploration Services Ltd.**
6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: None Given
Report Date: August 30, 2013

CERTIFICATE OF ANALYSIS WHI13000304.1

Method		WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.01	0.01	0.01	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
1494675	Sediment	0.81	3.01	61.77	6.28	190.5	216	46.9	15.0	758	3.31	11.7	0.6	1.4	1.2	41.9	1.81	1.06	0.13	43	0.81
JR-13-01301	Rock	2.87	1.71	8.79	4.24	18.5	112	4.1	1.1	173	1.05	4.1	0.5	0.4	0.4	40.0	0.03	0.54	0.10	14	0.48
JR-13-01302	Rock	2.81	1.52	17.68	10.85	43.8	192	12.3	4.1	456	3.26	10.8	0.6	0.7	1.2	9.0	0.02	0.24	0.16	50	0.10
JR-13-01303A	Rock	1.14	11.69	100.0	15.21	135.1	148	48.5	15.4	1757	3.57	809.3	1.1	50.6	2.1	89.7	3.45	4.13	0.17	33	1.57
JR-13-01303B	Rock	1.84	8.28	53.07	6.90	178.5	392	25.8	4.7	247	3.80	27.8	0.7	<0.2	1.3	81.8	1.85	1.93	0.17	36	1.44

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6970 Napier Street
Burnaby BC V5B 2C4 CANADA

Project: None Given
Report Date: August 30, 2013

CERTIFICATE OF ANALYSIS WHI13000304.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
MDL		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	10	2
1494675	Sediment	0.058	8.8	65.1	1.03	214.7	0.030	4	1.36	0.019	0.11	<0.1	3.8	0.05	0.17	65	2.3	0.12	3.0	<10	<2
JR-13-01301	Rock	0.028	1.5	5.8	0.20	289.7	0.110	2	0.50	0.023	0.12	0.2	1.6	0.06	0.28	15	1.5	<0.02	1.7	<10	3
JR-13-01302	Rock	0.041	3.0	20.7	0.82	134.7	0.191	2	1.42	0.031	0.12	<0.1	3.0	0.03	0.19	22	3.3	0.09	5.1	<10	2
JR-13-01303A	Rock	0.029	4.7	18.2	0.90	131.9	0.002	2	0.94	0.004	0.12	<0.1	9.5	0.06	0.91	80	0.5	0.20	1.9	<10	4
JR-13-01303B	Rock	0.061	10.2	8.9	0.36	72.0	0.001	9	0.81	0.023	0.18	<0.1	3.0	0.29	2.07	135	10.4	0.12	2.0	<10	<2

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QUALITY CONTROL REPORT WHI13000304.1

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	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	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
Reference Materials																					
STD DS9	Standard		12.28	108.4	127.1	321.9	1863	40.3	7.5	511	2.36	25.3	2.8	113.5	6.2	71.0	2.26	5.53	6.42	41	0.72
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
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
Prep Wash																					
G1-WHI	Prep Blank		0.22	2.68	3.71	45.1	15	3.1	4.1	534	1.94	0.2	2.2	1.0	5.5	52.9	0.03	<0.02	0.09	36	0.50

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Project: None Given
Report Date: August 30, 2013

QUALITY CONTROL REPORT WHI13000304.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Pd	Pt
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppb	ppb
	MDL	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	10	2
Reference Materials																					
STD DS9	Standard	0.084	13.1	115.2	0.62	302.1	0.110	1	0.97	0.083	0.39	3.2	2.6	5.17	0.17	208	5.1	5.23	4.2	154	359
STD DS9 Expected		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	120	350
BLK	Blank	<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	11	<0.1	<0.02	<0.1	<10	<2
Prep Wash																					
G1-WHI	Prep Blank	0.075	11.2	8.7	0.52	153.8	0.116	1	0.98	0.086	0.48	<0.1	2.2	0.34	<0.02	9	<0.1	0.03	4.2	<10	<2

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2011 Geological and Geochemical Survey Report

Pacer Project

Claim Names:

Pacer 1 – 56; Pacer 57 – 80; Pacer 100 – 135; Pacer 136-255

Grant Numbers:

YD90841-YD90996; YD18182-YD18205; YE33064-YE33099; YE33410-YE33529

Grouping Certificate: HW07198

NTS: 115G/09

Latitude 60^0 47' N Longitude 137^0 50' W

Whitehorse Mining District

Field Work Conducted June 22nd to September 20th, 2011

Registered Owner: **Solomon Resources Limited**
PO Box 938,
Vernon, B.C.
V1T 6M8

Report written by: Randall S. Rogers, P.Geo.

March1st, 2012

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Figure 11 2011 Sampling (Zinc ppm) ..... In Pocket

Introduction

The Pacer Project comprises 236 mineral claims located under the *Yukon Quartz Mining Act* 15 kilometers west of Haines Junction.

The 2011 exploration program comprised preliminary geological mapping and stream sediment geochemical surveys on the properties to guide future exploration.

The present report is the summary of the Geological and Geochemical Survey conducted in 2011 on the Pacer Claim Group.

Summary of Previous Investigations

The area surrounding the Pacer Claim Group has been intermittently explored since 1892 during which year Jack Dalton and E.J. Glave made an overland trip with four packhorses from the Chilkat River to the shores of Kluane Lake over a foot path which the Chilkat First Nations had used for the preceding two centuries as a trading route to the interior of the Yukon. Dalton established trading posts and improved the trail as far north as the Nordenskold River. Klondike prospectors used the Dalton Trail extensively during the 1898-1900 period enroute to the goldfields of the Klondike, but prospecting in the Front Ranges was not established until about 1903 when Silver City (or Kluane) was settled at the eastern end of Kluane Lake and became the center of mining activity in the region. Silver City boasted a post office, N.W.M.P. post and a Mining Recorder Office; a wagon road led east through Champagne to Whitehorse. The threat of Japanese invasion sparked the building of the Alaska Highway in 1942 and the Haines Road followed in 1944. Improved access in the post war period brought on an exploration boom, although no lode mining production is known from the immediate area. Placer mining has been discontinuous with limited placer testing reported on Thunderegg Creek and the north flank of Mt. Decoeli; the only recent nearby placer producer being Kimberley Creek.

A number of regional exploration programs focussed on the Front Ranges from 1966 through 1986, including programs conducted by the author on behalf of Noranda Exploration Company Ltd.

Three MINFILE occurrences of note are known in the vicinity of the Pacer Claim Group:

The Archibald showing (MINFILE 115A036) was originally staked in 1966 by Golden Gate Exploration following an airborne magnetic survey. This showing, known locally as the Colton showing, was explored intermittently from 1988 to 1989 in conjunction with work on the northerly Decoeli showing. Gold was reported with pyrrhotite and chalcopyrite in a quartz-carbonate stockwork cutting rusty siliceous argillite in the hanging wall of a serpentinized gabbro-peridotite sill that was found to be 150 meters thick and at least 4000 meters long. A specimen from the main showing assayed 19.7 g/t Au and a nearby quartz-sericite vein returned 2.5% Cu and 1.5 g/t Au. High grade copper float was found in foliated greenstone boulders in what is now known as Thunderegg Creek. Noranda defined a gold in soil geochemical anomaly 1500 meters long

and 20 meters wide with values up to 1270 ppb Au extending north to the Decoeli showing. Rock samples assayed as high as 3.1 g/t Au. Noranda abandoned the option on this showing in 1991 as part of a corporate reorganization. The Archibald showing is now covered by the Pacer Claim Group.

The Decoeli showing (MINFILE 115A040) was initially staked in 1966 and ultimately optioned to Noranda in 1989 following a brief surface exploration program targeting a serpentinized peridotite-dunite-gabbro sill cutting argillite and metavolcanics of Triassic age on the northern flank of Mt. Archibald. Chalcopyrite and pyrrhotite occur in rusty silicified argillite in the hanging wall of a gabbro sill. Gold values of up to 17 g/t Au were reported in this zone by an early worker but due diligence by Noranda in 1990 and 1991 failed to replicate these values and their option was abandoned. The Decoeli showing languished for a number of years, and was staked as the Haine Claims by prospector Shawn Ryan on April 20th, 2007 and is now owned by Ryangold Gold Corp. and 45127 Yukon Inc.

The Kloo showing (MINFILE 115A041) was first staked as the Jude claims in 1953 and optioned to Hudson Bay Mining and Smelting Company Ltd. who drilled five holes and built an access road. The property was restaked as the MC Claims in 1962 by T. Worbetts and optioned to Canadian Barranca Mines Ltd in 1965 who added more claims, improved the road, carried out geochemical soil sampling, geological mapping, geophysical surveying and drilled 3 holes. The property was restaked as the Ellen Claims in 1987 by Ron Stack. The property was inspected in subsequent years by Noranda Exploration Company Ltd., Total Energold Corporation and Placer Dome Exploration Ltd. and both Stack and Graham Davidson added more Ellen claims. In 1993 Probe Resources Ltd. optioned the Ellen claims and carried out rock and soil sampling, geophysical surveys and drilled 5 holes. Davidson tied on the Preston and Jim claims and Stack tied on the Brand claims. In 2001, Stack and Bill Harris of Midnight Mines Ltd. carried out prospecting, hand trenching and geochemical rock sampling of areas of known mineralization and investigated the upland plateau area northwest of the main showing. In 2002 Expatriate Resources Ltd. inspected the property. The Ellen property is underlain by a thick layered felsic to mafic volcanic sequence of the Upper Triassic Nikolai Formation and the volcanics are conformably overlain to the south by limestone, schists and green tuffaceous volcanics of the Upper Jurassic to Lower Cretaceous Dezadeash Formation. Mineralization at the main showing consists of intense malachite staining and massive chalcopyrite/pyrrhotite stringers hosted in a series of thick andesite flows and tuffs. Stringer zones show dark green to black chloritic alteration up to 30 centimeters thick. Surface sampling in 1966 returned 3.0% Cu across a width of 9.1 meters on the north side of the creek gully and 2.0% Cu across 4.6 meters for the south side of the creek gully. The Hudson Bay drilling is rumored to have intersected only minor copper mineralization in graphitic shale. Analysis of samples of the 1966 drill core returned 3.15% Cu over 5.2 meters from Hole MC-1, 1.64% Cu over 10.4 meters (including 6.4 meters of 2.20 % Cu) in Hole MC-2 and 1.20% Cu over 5.2 meters in Hole MC-3. In 1969 Hole MC-7 intersected 1.5 meters of 0.8% Cu below the 1966 holes. Holes MC-5 and 6, stepped out 61 meters along strike to the northwest from the 1966 holes, cut 0.9 meters of 1.1% Cu and 4.3 meters of 0.6% Cu respectively. Core recovery was poor in Holes 5 and 6. Hole MC-4 tested an EM and magnetic anomaly to the east of the main showing and intersected graphite schist and

two bands of serpentine, 7.9 meters and 9.4 meters thick, containing Ni values up to 0.11%. Trenching in 1989 exposed additional massive chalcopyrite in two layers of shale interbedded with andesitic tuff and banded siliceous tuff, and a third pyritic sulphide layer in the metavolcanic rocks over a strike length of approximately 100 meters. A 2.0 meter chip sample across the uppermost layer returned 8.55% Cu and 789 ppb Au. Specimens containing up to 990 ppb Au, 10.1 g/t Ag, 126 ppm Mo and 2,900 ppb Hg were also reported. A fourth massive chalcopyrite layer was found in 1990 and disseminated sulphides were found over a thickness of 152.4 meters. The 1995 drilling by Probe Resources returned one intersection of 5 meters of 1.94% Cu. The other two holes drilled on the main showing returned several intersections, 3 to 7 meters in length which returned 0.5 to 1.96% Cu. The two holes drilled to the northeast intersected a serpentinite sill approximately 30 meters thick, containing disseminated chalcopyrite and pyrrhotite. Exploration in 2001 and 2002 revealed chalcopyrite stringer mineralization with associated quartz/chalcopyrite veins up to 300 meters to the northwest and 200 meters to the southeast. Although these zones are less than a meter thick and less intensely mineralized than the main showing, they demonstrate some continuity. There are indications that the Kloo showing may be a Besshi-style massive sulphide occurrence.

List of Claims

Solomon Resources Limited owns 100% of the Pacer Claim Group.

Solomon geologist Monica Nordling filed an Application to Group Mineral Claims (YQMA Form 12) in respect of these claims on September 7th, 2011 and an Application for a Certificate of Work (YQMA Form 4) on September 20th, 2011. (Appendix II and III)

The 236 mineral claims (see map Appendix I) under Grouping Certificate HW07198 that are subject of this Assessment Report are:

Claims for renewal		**Ownership**	**Expiry Date**
Claim name	**Grant number**		**(Current)**
Pacer 1 – 56	YD90841-YD90996	Solomon Resources Limited	May 11th, 2013
Pacer 57 – 80	YD18182-YD18205	Solomon Resources Limited	May 11th, 2013
Pacer 100 – 135	YE33064-YE33099	Solomon Resources Limited	May 11th, 2013
Pacer 136-255	YE33410-YE33529	Solomon Resources Limited	May 11th, 2013

Table 1: Claims for Renewal

Physiography and Location

The Pacer Claim Group is located 15 kilometers west of the town of Haines Junction. The claims are bounded to the south by Kluane National Park and lie generally southeast of the Jarvis River and north west of the Alsek River. The claims encompass Mt. Decoeli and portions of Mt. Archibald. The ground immediately west of the Pacer Claims is withdrawn from exploration by First Nations Settlement Land CAFN R-47A.

The Kluane Front Ranges in the vicinity of the claims form a narrow front facade to the St. Elias Mountains, rising steeply from the Shakwak Valley to a maximum elevation of 8500 feet. The slopes are steep and uniform with long talus screes; in general terms the Front Ranges comprise two or three major ridges parallel to the main front connected by high saddles and dissected within the claim group by transverse V-shaped valleys containing Thunderegg Creek and other unnamed drainages.

The forest cover of the property is light, with treeline at approximately 4000 feet elevation. Black spruce, white spruce, balsam, poplar and white poplar dominate the forested slopes; alder willow and sub-alpine flora are found at and above the timberline. Game is plentiful as the claims lie wholly within the Kluane Game Sanctuary: dall sheep, mountain goat and grizzly bear were all observed in the 2011 field season.

The claim group is shielded from the Pacific Ocean by the high St. Elias Mountains and thus has a dry continental climate despite the proximity of tidewater. Summers are short and hot with temperatures up to 35 degrees Celsius; winters are severe with short daylight hours and temperatures down to -50 degrees Celsius.

The Alaska Highway runs parallel and approximately 5 kilometers northeast of the claim group, and the Haines Highway extends 192 miles south from Haines Junction to the deepwater port of Haines, Alaska. A four wheel drive road extends from Bear Creek on the Alaska Highway southerly along the Alsek River valley and Thunderegg Creek to the southern portion of the Pacer Claims.

Access to the eastern portion of the claim group via Thunderegg Creek is complicated by the presence of the habitat of a threatened plant species, and mitigation was taken in the present field program to avoid the known, albeit limited, habitat of the plant in accessing the property. According to the YGS Fish and Wildlife Branch, Yukon Draba (*Draba yukonensis*) is a Yukon-endemic plant species currently known to exist in one locale world-wide: the Alsek River Road. While not a scheduled species, Yukon Draba is highly sensitive to disturbance and would certainly be affected by road improvement or increased equipment traffic through its habitat.

Charter helicopter and fixed wing service is available at Haines Junction and seasonally at Silver City. Commercial accommodation is available in Haines Junction and Silver City, and the former remains the best venue for staging exploration on the Pacer Claims with most of the support services and casual labour pool available that early stage exploration requires.

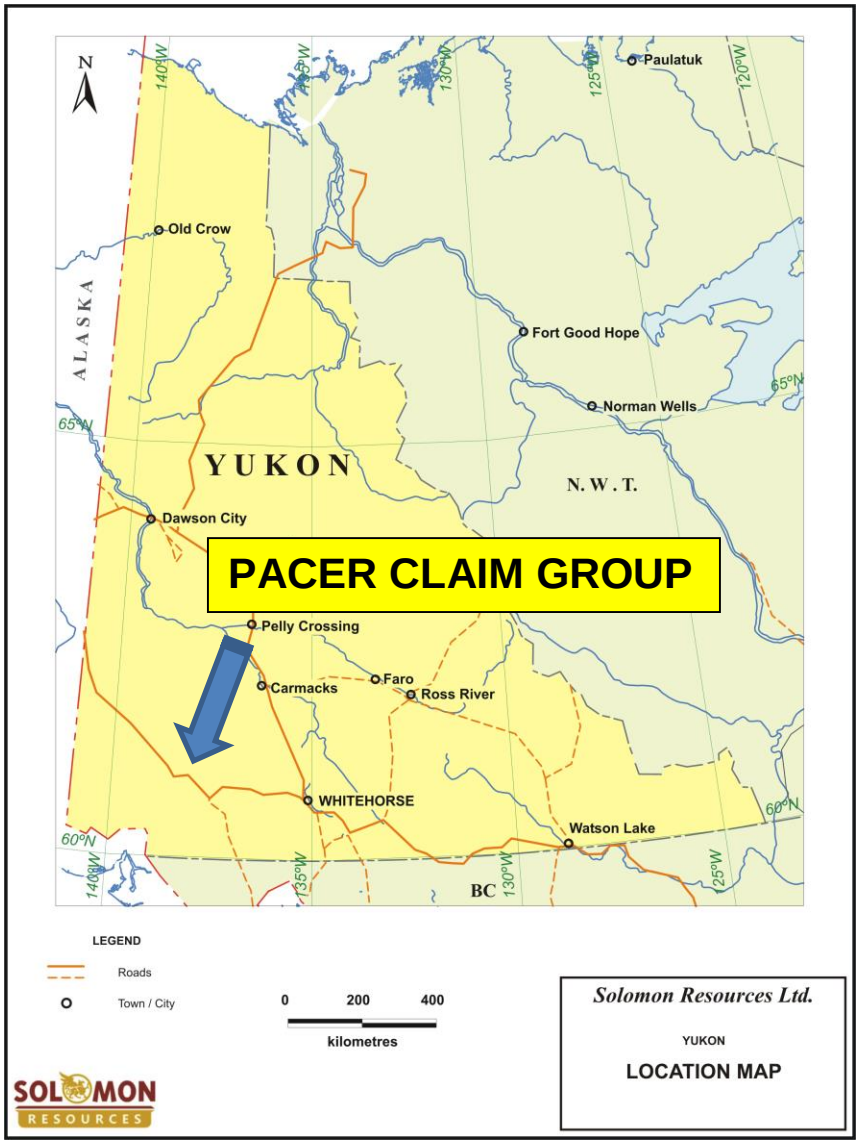

Figure 1: Location Map

Geological Setting

The Pacer Claim Group is located within the Insular Superterrane which is primarily composed of two older terranes, Wrangellia and Alexandria, that were amalgamated about 320 million years. These terranes are composed of island arc and ocean floor volcanic rocks with thick assemblages of overlying oceanic sedimentary rocks that range in age from 400 to 220 million years old.

The Wrangellian Terrane is an extensive accreted oceanic plateau characterized by widespread Triassic flood basalts and complementary intrusive rocks. Flood basalts in this region are believed to have originated by in a mantle plume which erupted onto the extinct Pennsylvanian and Permian Sicker-Skolai island arc.

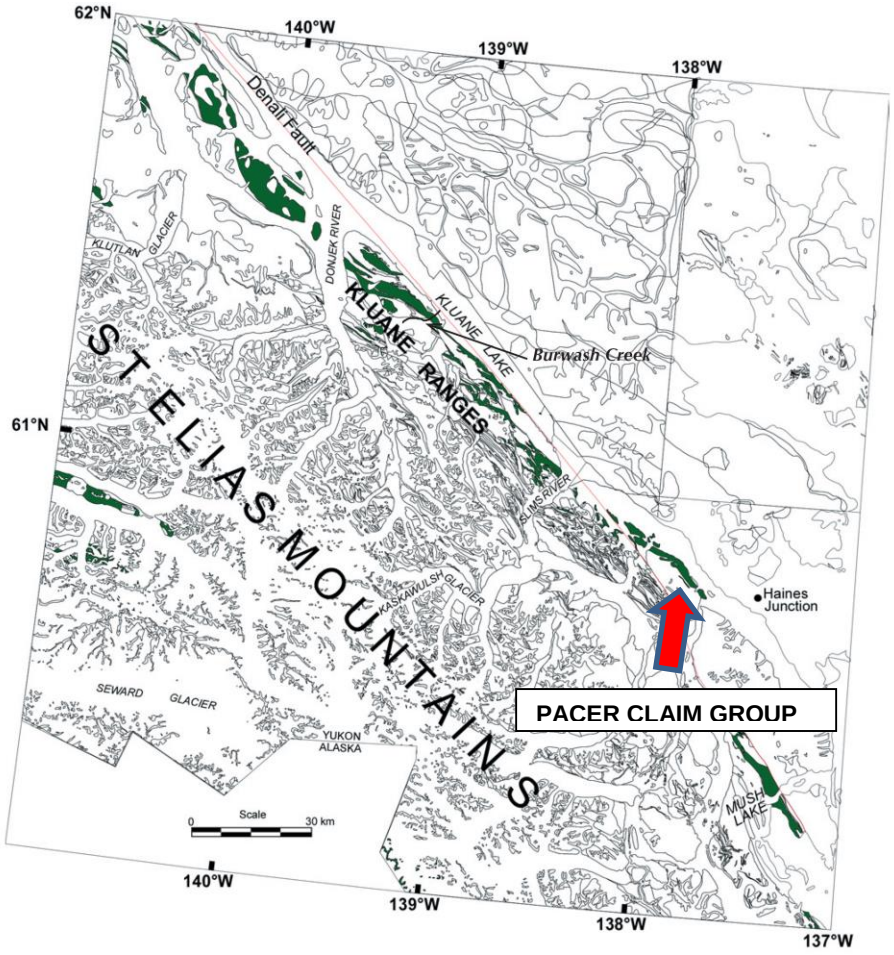

Figure 2. SW Yukon Exposure of Flood Basalt of the Triassic Nikolai Formation *(from Greene, A.R., S. Coates, J.S., Weiss, D., and Israel, S., 2005.)*

The Upper Triassic Nikolai Formation (Figure 2) forms a discontinuous linear belt extending 300 kilometers across southwest Yukon and is characterized by basal conglomerate and/or volcanic breccia, amygdaloidal basalt and andesitic flows and local tuff, breccia, shale and limestone. The Nikolai Formation was initially mapped in the area of the Pacer Claim Group by Kindle (1976) as partly serpentinized peridotite, talc schist and green serpentine schist of Lower Cretaceous or later age.

Mafic rocks of similar age and composition to the Nikolai Formation occur in northwestern BC where they are referred to as the Tats Volcanic Complex.

Several stratigraphic sequences overlie the Alexander Terrane and Wrangellia in Southwest Yukon; the oldest of these overlap assemblages is the Upper Jurassic to Lower Cretaceous turbidites of the Dezadeash Formation, one of several packages of similar age that were deposited in basins that developed between the Insular and Intermontane superterranes during the middle Mesozoic.

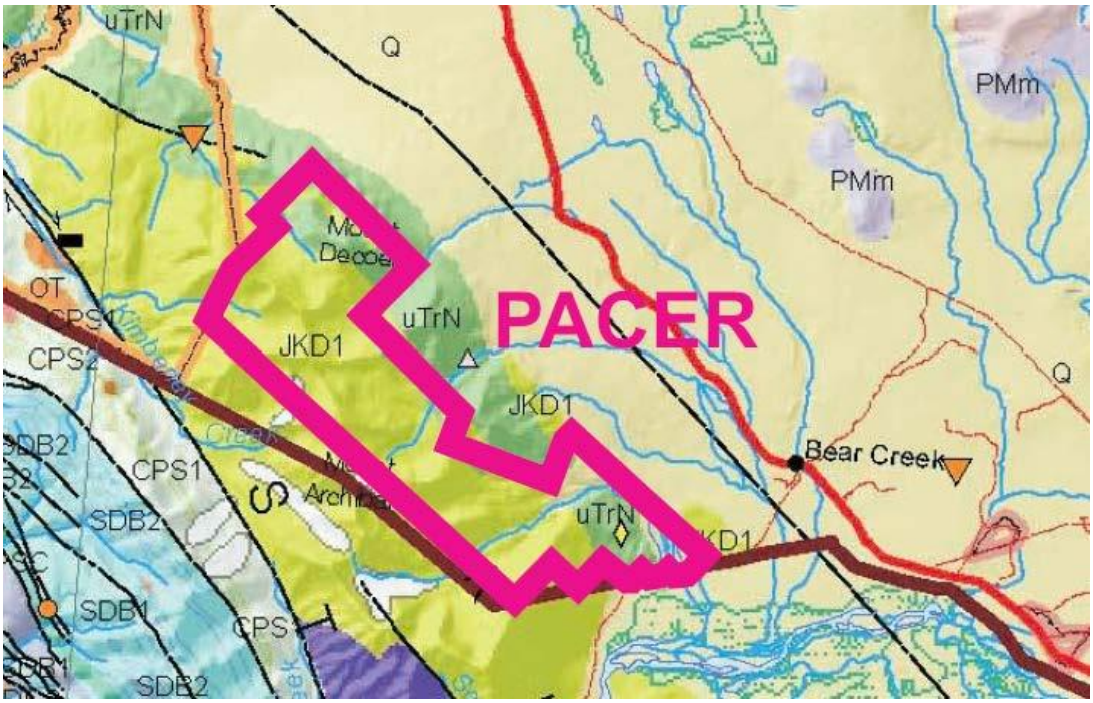

Figure 3: Regional Geological Setting *(After Israel, S. (2004) Geology of Southwestern Yukon (1:250,000 scale. Yukon Geological Survey. Open File 2004-16.) Note MINFILE occurrence 115A036 "Archibald" on the southeastern portion of the claim block.*

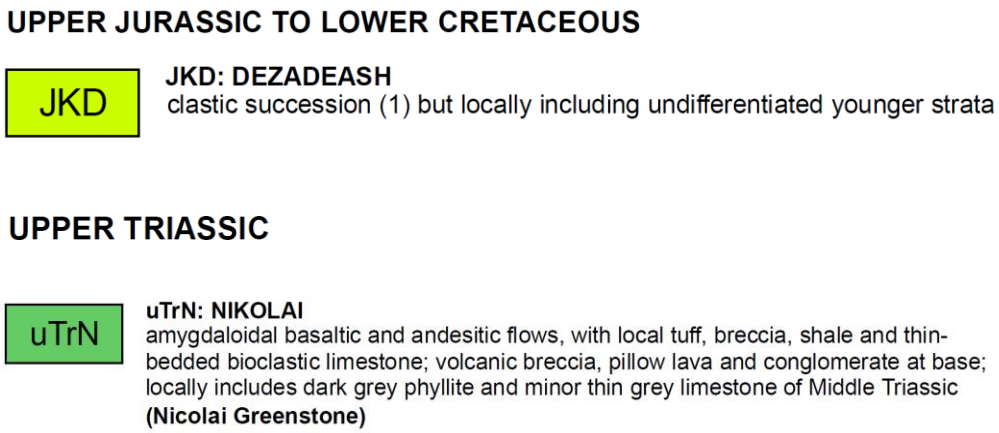

Figure 4: Geological Legend *(After Israel, S. (2004) Geology of Southwestern Yukon 1:250,000 scale. Yukon Geological Survey. Open File 2004-16.)*

The Pacer Claim Group (Figure 3) lies east of the Denali Fault and is primarily underlain by well layered conglomerate, slate, sandstone, tuff, argillite, chert, greywacke and minor coal of the Dezadeash Formation and amygdaloidal basalt and andesitic flows of the Nikolai Formation.

Kindle (1976) also mapped a small intrusive stock of Cretaceous granodiorite on the southern flank of Mt. Decoeli that does not appear in more recent compilations.

Work Program: Geological and Geochemical Survey

Solomon Field Crews conducted geological and geochemical exploration surveys of the Pacer claims from June 22nd to September 20th, 2011. Field personnel included: geologists Randy Rogers and Monica Nordling, project manager James Rogers and field assistant Susan Rogers. Field work was staged out Haines Junction as well as a fly camp on the property and logistical support was provided by Trans North Helicopters based out of Haines Junction.

Geological Survey

Preliminary geological mapping of the Pacer Claim Group was undertaken in the 2011 field season, with access complicated by unseasonably wet and cold weather late in the season.

From June 22nd to June 25th geologist Randy Rogers and Field Assistant Susan Rogers established a temporary trail to the southern portion of the claim group along the western bank of Thunderegg Creek on the Pacer 112, 113, 114 and 115 Claims.

Preliminary geological traverses were conducted by Randy and Susan Rogers from July 16th to July 17th, 2011 and July 27th, 29th, 30th, 2011 directed at two areas of interest on the property: the first area of interest was the extreme western portion of the property where an unnamed stream drains westerly into the Jarvis River and where reconnaissance silt sampling in 2010 returned an anomalous value of .0019 ppm Au, 410 ppm Cu and 12.4 ppm Cd. The second area of interest was the lower drainage of Thunderegg Creek where former operators reported mineralized float in the stream bed.

Figure 5: Thunderegg Creek View South.

Geologist Monica Nordling and Project Manager James Rogers conducted geological mapping on the property from August 8th to August 18th, 2011

The Preliminary Geological Map from the 2011 program appears as Figure 7. (In Pocket)

The Upper Triassic Nikolai Formation occurs in a discontinuous sinuous band on the northeast portion of the Pacer Claim Group. The local colour of this greenstone unit comes mainly from the abundance of chlorite, along with epidote ± serpentine. Small sections of fibrous chlorite and serpentine (almost asbestos-like) are seen in various areas throughout the greenstone. Other mineralization includes quartz and feldspars, both within the rock and as veins, as well as actinolite and stilbite as alteration minerals. Arsenopyrite and pyrite are also seen, generally in the less weathered areas of the greenstone and usually disseminated throughout the rock. Locally, a tectonic breccia was seen in association with the greenstone unit, as well as local flow banding which included layers ridden with fine-grained sulphides.

The Nikolai Formation has been slightly metamorphosed on the claims, and a large variety of structure is seen throughout the property ranging from clean, unaltered greenstone to an almost schistose greenstone. An igneous, porphyritic greenstone is seen at the top of Mt. Decoeli, displaying feldspar and chlorite crystals. Weathered areas are generally very iron-stained with alteration minerals present. This is very much in evidence along the contact with schists of the Dezadeash Formation.

The Upper Jurassic to Lower Cretaceous Dezadeash Formation is the dominant map unit of the Pacer claims. Locally, multiple stages of metamorphism are evident in crenulations and folding and in many instances feldspar pressure solutions are seen along pyrite crystals and may even replace the pyrite. Observed variations in the schist suggest variations in parent material from mudstone (argillite/shale) to a more silicified greywacke to conglomerate. The majority of outcrops are a slightly weathered argillite with fine to medium-grained pyrite crystals.

Weathered exposures of the Dezadeash Formation are most commonly stained a dark red or brown, but can also be yellow, orange, purple, or black. Sulphides are almost always present in with this unit, and fresh rock will generally contain disseminated sulphides (arsenopyrite and pyrite), whereas the more weathered rock displays pyrite, arsenopyrite or even pyrrhotite and chalcopyrite. Quartz veins are seen throughout the unit both cross-cutting and parallel to the schistosity.

The Dezadeash Formation lies in unconformable contact over the Nikolai Formation. Where visible in the field, the contact ranges from unaltered to heavily altered orange and weathered rock.

Geochemical Survey

Solomon Field crews conducted stream sediment surveys on the Pacer Claims in the 2011 field season. A total of 27 stream sediment samples were taken and analyzed at ALS Minerals in North Vancouver, B.C.

The stream sediment and soil sample locations are shown in Figure 8 and the gold, arsenic and zinc analyses appear in Figures 9, 10 and 11.

The analytical data is summarized in Appendix IV and V and the Certificates of Analysis appear in Appendices VI, VII and VIII.

Figure 6: Unnamed Tributary of Jarvis River, View South.

Interpretation and Conclusions

Regional geology, regional stream sediment geochemistry and the exploration history of the Archibald, Decoeli and Kloo and showings make the Pacer Claims a fairly compelling exploration target. A very pronounced first vertical derivative anomaly trending northwesterly across the Pacer 1 -24 claims includes a very prospective outlier extending towards the Alaska Highway under the lacustrine and glacial debris north of the slope break along the drainage of Thunderegg Creek. A pronounced total magnetics and first vertical derivative anomaly leads northwesterly from the flank of Mount Decoeli towards the Jarvis River along the Pacer 25 – 56 claims and extends into the First Nations Settlement lands and the Glen Harris estate claims. This geophysical anomaly is highly prospective and includes a significant stream sediment gold anomaly discovered in the 2010 field season.

Preliminary geological mapping suggests that the geological package is consistent along strike easterly from the Kloo MINFILE occurrence where encouraging Cu and Au values up to 8.55% Cu and 990 ppb Au have been identified. The sampling of up to 19.7 g/T Au and 2.5% Cu from the original Colton (Archibald) showing and the high grade Cu- float sample reported from Thunderegg Creek by earlier operators together with values of up to 17 g/T Au on the Decoeli showing suggest that there may be a larger regional scale Cu-Au mineralizing system extending from Thunderegg Creek to the Jarvis River. In addition to the Cu-Au mineralization known to date, the Nikolai Formation volcanics have the potential to host Ni and PGE mineralization.

Stream sediment geochemistry, while very preliminary, indicates a pronounced anomaly with values up to 8,600 ppm Zn draining the southeastern flank of Mt. Decoeli which appears coincident with the unconformable contact of the Dezadeash Formation with the underlying Nikolai Formation.

A second anomaly located just northwest of the project boundary returned As values up to 343 ppm in a tributary draining a very steep ridge of Dezadeash Formation clastics.

A third very subtle anomaly exists in the upper reaches of Thunderegg Creek with Au values up to 6 ppb also draining a very steep ridge of Dezadeash Formation clastics.

No followup was done on these preliminary anomalies in 2011.

Time constraints in the 2011 field program precluded any substantial rock sampling or trenching for assay and this should be part of the 2012 program.

The results of the 2011 field program suggest that the 2012 field program should include ridge and spur reconnaissance soil geochemistry and the establishment of a soil geochemical grid on the southeastern flank of Mt. Decoeli with sample spacing of 25 meters and 50 meters for a total of 1200 soil samples.

Detailed mapping of the upper drainage of Thunderegg Creek and the southern and eastern slopes of Mt. Decoeli is recommended, with further prospecting traverses to be made in the vicinity of the original Colton showing and the ridge south of anomalous stream sample from the 2010 regional program as well as strike extensions of the Kloo prospect. The intrusive body mapped by Kindle (1976) south of Mt. Decoeli should be examined in terms of any contributing factors to hydrothermal enrichment. Provision should be made for 100 rock samples for assay.

Depending on results of these inquiries, contingency planning might contemplate trenching late in the 2012 field season.

A budget of $ 66,500 is proposed for this followup program.

Item	Notes	Cost
Supervising Geologist	5 days @ 750	3750.00
Project Geologist	15 days @ 400	6000.00
Project Supervisor	15 days @ 350	4750.00
Field Assistant	30 days @ 300	9000.00
Helicopter Support	15 Hr @ 2200	33000.00
Food and Consumable Supplies	20 days @ 150	3000.00
Accommodation	Camp and Commercial	3000.00
Analytical - Soils	1200 @ $25	3000.00
Analytical - Rocks	100 @ $100	1000.00
	TOTAL	**66,500.00**

Table 2: Proposed 2012 Exploration Budget

Statement of Qualifications

I, Randall Stewart Rogers, with business address at Solomon Resources Limited, PO Box 938, Vernon, B.C., V1T 6M8, hereby certify that:

- I am a practising Geologist, resident in Vernon, British Columbia;
- I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (Licence 35584) and the Association of Professional Engineers, Geologists and Geophysicists of Alberta (Licence 36474);
- I hold a Bachelor of Science (Honours) degree in Geology (1980) from the University of British Columbia;
- I hold a Master of Science degree in Mineral Exploration (1981) from Queen's University at Kingston;
- I have practiced my profession as a geologist since graduation;
- I have a direct interest in the operations of Solomon Resources Ltd.: I am the Chief Executive Officer and President of the Company and a shareholder.
- I have based this report on:
    - Field work conducted by exploration contractors under my direct supervision
    - Historical research into past operations on and adjacent to the subject claims
- I consent to the use of this report for any Filing Statement, Statement of Material Facts, or support document.

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Randall S. Rogers M.Sc., P.Geo.

2012-03-01

Statement of Expenditures

An Application for a Certificate of Work (Grouping Certificate HW07199) was filed at Whitehorse Mining Recorder September 20th, 2011 allocating $ 31,380.00 in work to the renewal of these claims.

The Application for Certificate of work and Cost Summary was registry stamped by the Whitehorse Mining Recorder on September 20th, 2011.

Item	Notes	Cost
Geologist	R.S. Rogers M.Sc., P.Geo.	$ 5,622.00
Geologist	M. Nordling	6,800.00
Field Assistant	S. Rogers	2,220.00
Field Assistant	J. Rogers	3,120.00
Field Assistant	P.Maarschalk	177.50
Helicopter Support	Trans North	9,708.00
Food and Consumable Supplies		1,649.57
Accommodation	Camp and Commercial Accommodation	1,797.39
Analytical	ALS Minerals	206.34
	TOTAL	**$ 31,300.80**

Table 3: Statement of Expenditures

Selected References

Cobbett, Rose Natalie (2011) Timing and kinematics of the Duke River fault : insights into the evolution of the Insular Terrane, southwest Yukon. Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Science in the Faculty of Graduate Studies (Geology), The university of British Columbia.

Greene, A.R., S. Coates, J.S., Weiss, D., and Israel, S., (2005) Flood basalts of the Wrangellia Terrane, Southwest Yukon: Implications for the formation of oceanic plateaus, continental crust and Ni-Cu-PGE mineralization. In: Yukon Exploration and Geology 2005, D.S. Emond, L.L. Lewis and G.D. Bradshaw (eds.), Yukon Geological Survey, p. 109-120.

Hulbert, L. and W. Stone (2006) Geology and Metallogeny of the Kluane Mafic –Ultramafic Belt, Yukon Territory, Canada: Eastern Wrangellia – A New Ni-Cu-PGE Metallogenic Terrane. Geological Survey of Canada Bulletin 506, 265 p.

Israel, S. (2004) Geology of Southwestern Yukon (1:250,000 scale. Yukon Geological Survey. Open File 2004-16.

Kindle, E.D. (1953) Dezadeash map-area, Yukon. Geological Survey of Canada, Memoir 268 (Map 1019A).

Muller, J.E., 1967. Kluane Lake map-area, Yukon Territory. Geological Survey of Canada, Memoir 340 (Map 1177A).

Read, P.B. and J.W.H. Monger 1976. Pre-Cenozoic volcanic assemblages of the Kluane and Alsek ranges, southwestern Yukon Territory; in: Read, P.B. and J.W.H. Monger 1976. Pre-Cenozoic volcanic assemblages of the Kluane and Alsek ranges, southwestern Yukon Territory, Geological Survey of Canada, Open File 381.