LONGFORD EXPLORATION

Geochemical Survey Report

On the

Pacer SE Property

Jarvis River, Whitehorse Mining District, Yukon, Canada

Located Within:

NTS Sheet 115A13

Centered at Approximately:

Latitude 60.77° North by Longitude 137.75° West

Claims:

PACER 104-120: YE33068 – YE33084

PCR 1-2: YF45987 – YF45988

Field Work Conducted:

July 9-11, 2018

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traverse the earth

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1 Introduction

The Pacer claim group (NTS 115A13) lies 15 kilometers west of Haines Junction and 160 kilometers west of Whitehorse on the southwest side of the Shakwak Valley in the front ranges of the Kluane Mountains, Yukon Territory. The 1,053 hectare property is underlain by several gold, base metal and platinum-group element occurrences thought to represent magmatic mafic-ultramafic massive sulphide mineralisation. The project consists of 2 claim blocks, the Pacer NW and Pacer SE. This assessment report covers only the Pacer SE claims. The Pacer NW will be included in an assessment report on the 2018 Ellen claim project.

The 2018 work program on the Pacer SE claim group was undertaken from July 9-11 (10 mandays) by Graham Davidson, Ryan Versloot, Sarah Ryan and Matt Martinolich of Longford Exploration Services Ltd. A total of 163 soil samples were collected for analysis during the 2018 season. The purpose of the 2018 program was to provide soil geochemical coverage of 1) an area potentially underlain by gabbro-peridotite dykes and sills within deformed volcano-sedimentary and arc volcanic rocks that display encouraging potential to host Cu-Ni-PGE massive sulphide mineralisation and 2) a possible Cu-Au mineralising system occurring in volcanic rocks. A follow up program is recommended consisting of property-scale mapping, rock sampling and geophysical surveys on prospective targets.

1.1 Abbreviations and Units of Measurement

Metric units are used throughout this report and all dollar amounts are reported in Canadian Dollars (CAD$) unless otherwise stated. Coordinates within this report use EPSG 26909 NAD83 UTM Zone 9N unless otherwise stated. The following is a list of abbreviations which may be used in this report:

Table 1.1 Abbreviations and Units of Measurement.

Abbreviation	Description
%	percent
AA	atomic absorption
Ag	silver
AMSL	above mean sea level
as	arsenic
Au	gold
AuEq	gold equivalent grade
Az	azimuth
b.y.	billion years
CAD$	Canadian dollar
cl	chlorite
cm	centimetre
cm^2	square centimetre
cm^3	cubic centimetre
cc	chalcocite
cp	chalcopyrite
Cu	copper
cy	clay
°C	degree Celsius
°F	degree Fahrenheit
DDH	diamond drill hole

Abbreviation	Description
li	Limonite
m	Metre
m^2	square metre
m^3	cubic metre
Ma	million years ago
mg	Magnetite
mm	Millimetre
mm^2	square millimetre
mm^3	cubic millimetre
mn	Pyrolusite
Mo	Molybdenum
Moz	million troy ounces
ms	Sericite
Mt	million tonnes
mu	Muscovite
m.y.	million years
NAD	North American Datum
NI 43-101	National Instrument 43-101
opt	ounces per short ton
oz	troy ounce (31.1035 grams)
Pb	Lead
pf	Plagioclase

Abbreviation	Description
ep	epidote
ft	feet
ft^2	square feet
ft^3	cubic feet
g	gram
gl	galena
go	goethite
GPS	Global Positioning System
gpt	grams per tonne
ha	hectare
hg	mercury
hm	hematite
ICP	induced coupled plasma
kf	potassic feldspar
kg	kilogram
km	kilometre
km^2	square kilometre
l	litre

Abbreviation	Description
ppb	parts per billion
ppm	parts per million
py	Pyrite
QA	Quality Assurance
QC	Quality Control
qz	Quartz
RC	reverse circulation drilling
RQD	rock quality description
sb	Antimony
Sedar	System for Electronic Document Analysis and Retrieval
SG	specific gravity
sp	Sphalerite
st	short ton (2,000 pounds)
t	tonne (1,000 kg or 2,204.6 lbs)
to	Tourmaline
um	Micron
US$	United States dollar
Zn	Zinc

2 Summary of Previous Investigations

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).

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 en-route 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 to the northwest of the Pacer claims. 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 an active placer mining creek fed partially by the western portion of the Pacer claim group has a history of placer gold production.

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 on the north side of Mt. Decoeli (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, Ron 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 Kloo showing.

The Ellen property is underlain by a thick, layered felsic to mafic volcanic sequence of the Upper Triassic Bear Creek Assemblage. 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 MC66-1, 1.64% Cu over 10.4 meters (including 6.4 meters of 2.20 % Cu) in hole MC66-2 and 1.20% Cu over 5.2 meters in hole MC66-3. In 1969 hole MC69-7 intersected 1.5 meters of 0.8% Cu below the 1966 holes. Holes MC69-5 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 MC66-4 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 at the Ellen 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).

Rock sampling at Ellen in 2006 yielded 7.23% Cu, 1.01 g/t Au, 1.01 g/t Pd over 2.5m at the Kloo occurrence (Pautler 2006).

The most recent program on the Pacer SE, undertaken in 2017 included collection of 9 rock samples and 68 soil samples on prospective areas and preliminary property-scale lithological and structural mapping-prospecting by a Longford Exploration Services field crew led by James Rogers, P. Geo (Davidson, G. 2018). The 2017 work focussed on a recently discovered ultramafic outcrop on a gradual slope in thick brush. Geochemical results from the limited soil sampling program showed elevated copper & nickel values corresponding directly to an aeromagnetic high anomaly. Geochemical results from rock sampling across the ultramafic outcrop show up to 0.23% Ni.

Table 2.1 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 acquires 100% ownership of Pacer claims
2017	During the 2017 field program Longford Exploration collected a total of 16 rock samples and 68 soils for assay in addition to preliminary property-scale lithological and structural mapping and prospecting.

3 Property Description and Location

3.1 Location

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 (Figure 3.1). 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 the Bear Creek subdivision 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 Jet 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 Alsek River Valley is known for strong winds that continue to blow for several days and can hamper exploration work. The exploration season extends from mid-May through early October.

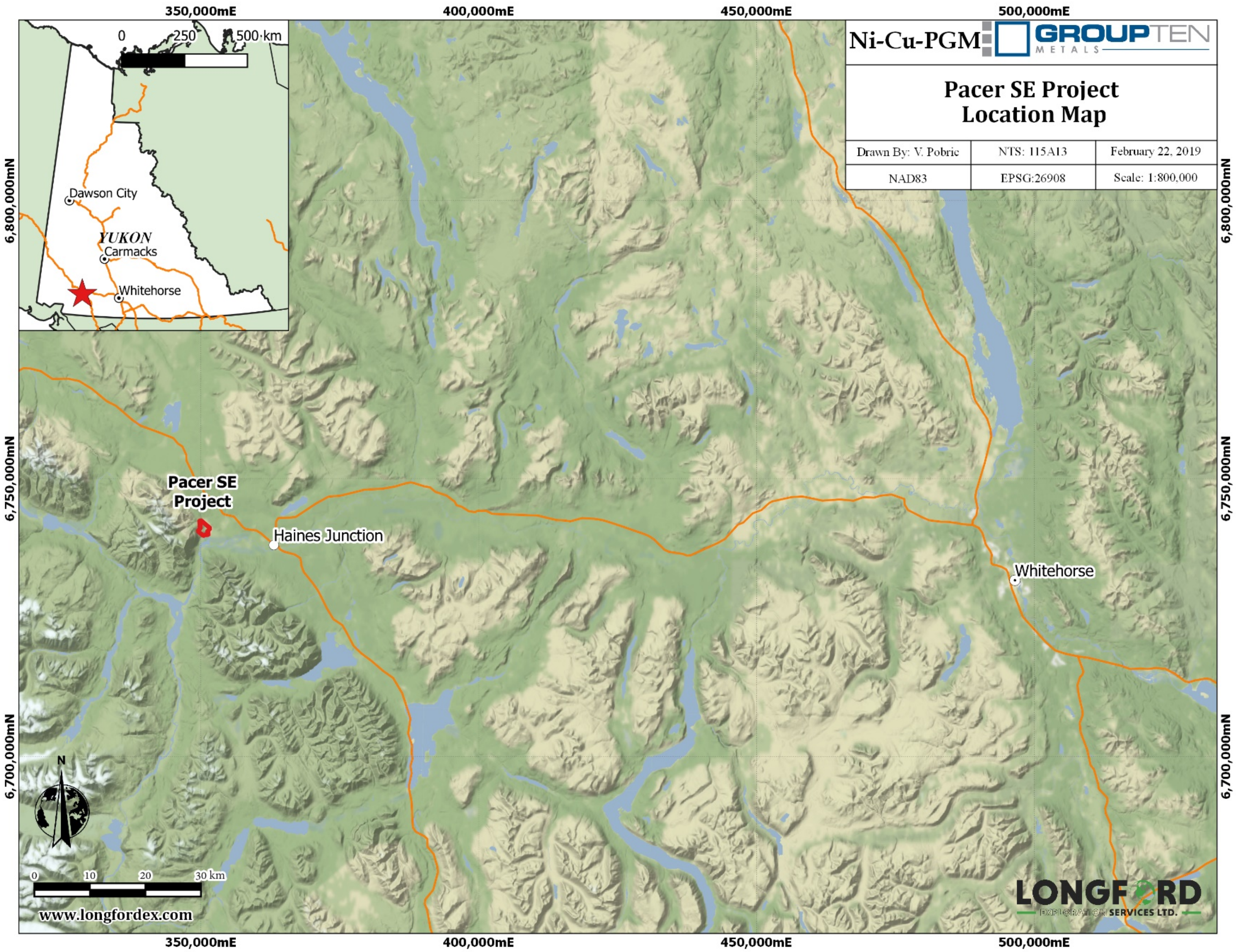

Figure 3.1 Pacer SE project location.

3.2 Mineral Titles

The Pacer SE claim group is comprised of 16 mineral claims in good standing, 100% owned by Longford Exploration Services Ltd. with a corporate address at 460-688 West Hastings St. Vancouver, BC V6B 1P1. The current property boundary is presented in Figure 3.2. The claims were acquired by Longford in 2013 as part of a settlement with the original owner, Solomon Resources and are summarized in Table 3.1. Claims PCR 1 & 2 were added in 2017 to cover the NW extension of the aeromagnetic anomaly.

Table 3.1 Claim summary for the Pacer SE Program.

Claim name	Grant number	Ownership	Expiry Date
PCR 1 – 2	YF45987-YF45988	Longford Exploration Services Ltd. (100%)	November 5, 2026
PACER 105-118	YE33069-YE33082	Longford Exploration Services Ltd. (100%)	November 5, 2026
PACER 104, 119, 120	YE33069, YE33083,	Longford Exploration Services Ltd. (100%)	November 5, 2022

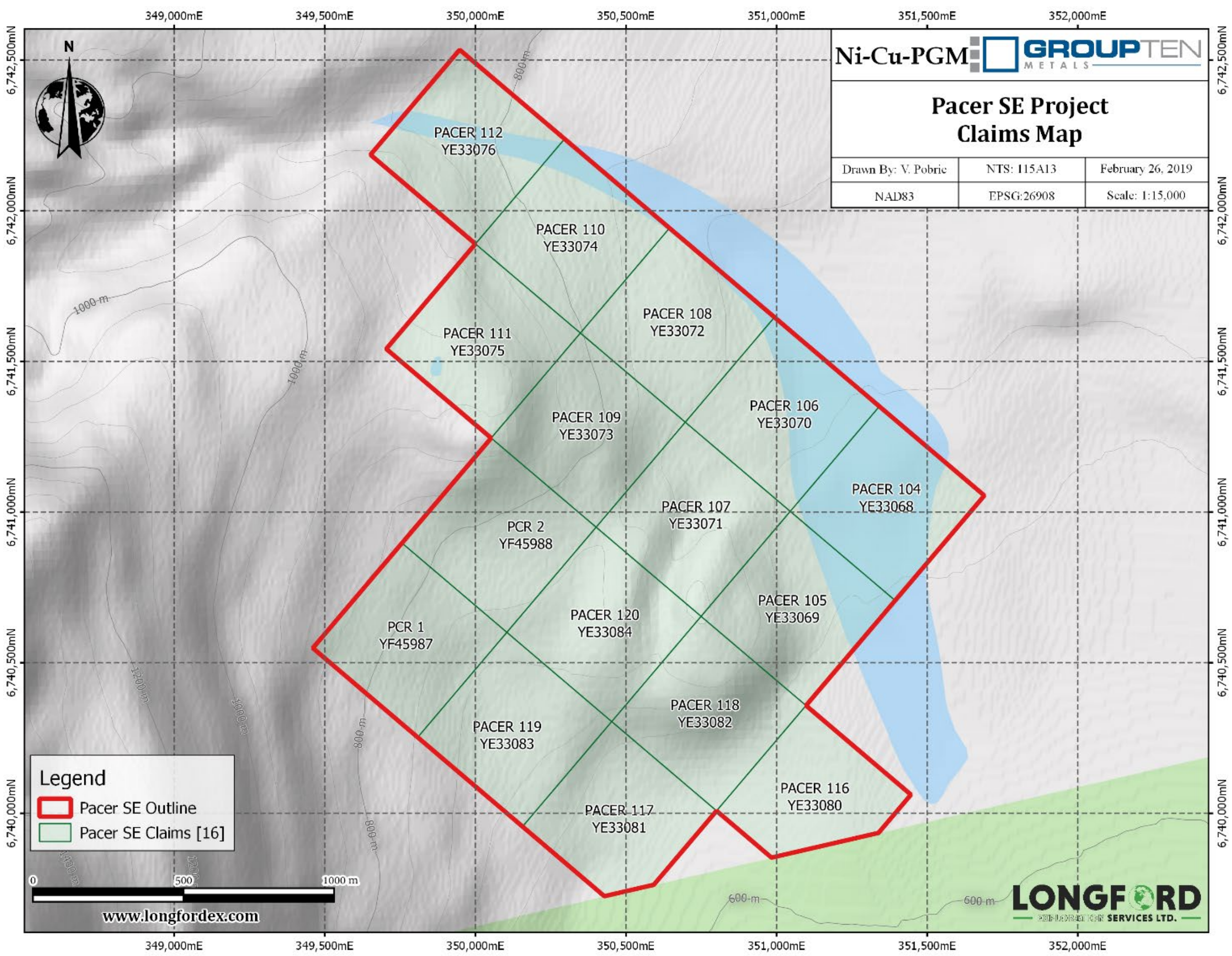

Figure 3.2 Claim map of the Pacer SE project.

4 Geological Setting and Mineralization

4.1 Regional Geology

The Pacer Claim Group is located within the Insular Super-terrane which is primarily composed of two older terranes, Wrangellia and Alexandria, which were amalgamated about 320 million years ago. 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 Wrangell Terrane consists of Devonian to Permian arc volcanic (CS), clastic and platform carbonate rocks (PH) overlain by Triassic oceanic rift tholeiitic basalt (uTN), and carbonate rocks and associated igneous bodies of the Kluane Mafic-Ultramafic Complex (uTu), thought to represent feeders to the Triassic flood basalts. The Alexander terrane to the south is composed of lower Paleozoic volcanic and sedimentary rocks (CPS1, ODG2 and OSDB). The latter includes a large package of limestone (OSDB1). Post accretionary units include Jura-Cretaceous sedimentary rocks (JKD – Dezadeash Group), overlapping Wrangellia and Alexander Terranes, and Tertiary felsic to mafic volcanic rocks with interbedded terrestrial sedimentary rocks (uTB). Post accretionary intrusions in the region include Jura-Cretaceous (JKS), Cretaceous (EKK) and Neogene plutons (EKP).

The Upper Triassic Nikolai Formation (uTN) 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 Kluane Front Ranges by Kindle (1976) as partly serpentinized peridotite, talc schist and green serpentine schist of Lower Cretaceous or later age, and reported upon by Read and Monger (1976) as Upper Triassic and "typically sparsely porphyritic (augite and plagioclase) meta-basalt with large amygdules of chlorite, pumpellyite, prehnite, quartz, albite, epidote and quartz."

Several stratigraphic sequences overlie the Alexander Terrane and Wrangellia in Southwest Yukon; the oldest of these overlap assemblages are 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.

Recent mapping by YGS (Open File 2014-18) covered the Mt. Alexander and Mt. Decolai area grouping the Triassic volcanic and sedimentary units into the "Bear Creek Assemblage" consisting of strongly foliated to massive intermediate to mafic metavolcanic rocks (uTBm) interbedded with meta-siltstone, sandstone and mudstone with phyllitic to schistose beds (uTBs).

The major structural feature of the area is the Denali Fault, a large fault zone that lies southwest of the property. It is a northwest trending strike-slip fault with a dextral sense of motion with an offset in the order of 350 km. The northwest trending Duke River Fault separates Wrangellia from the Alexander Terrane. The area mapped as Upper Triassic Bear Creek Assemblage (uTB) and Dezadeash Group (JKD), northeast of the Denali Fault is considered an overlap assemblage that underlies the Ellen, Pacer and Haine properties (see Table 2 - Table of Formations).

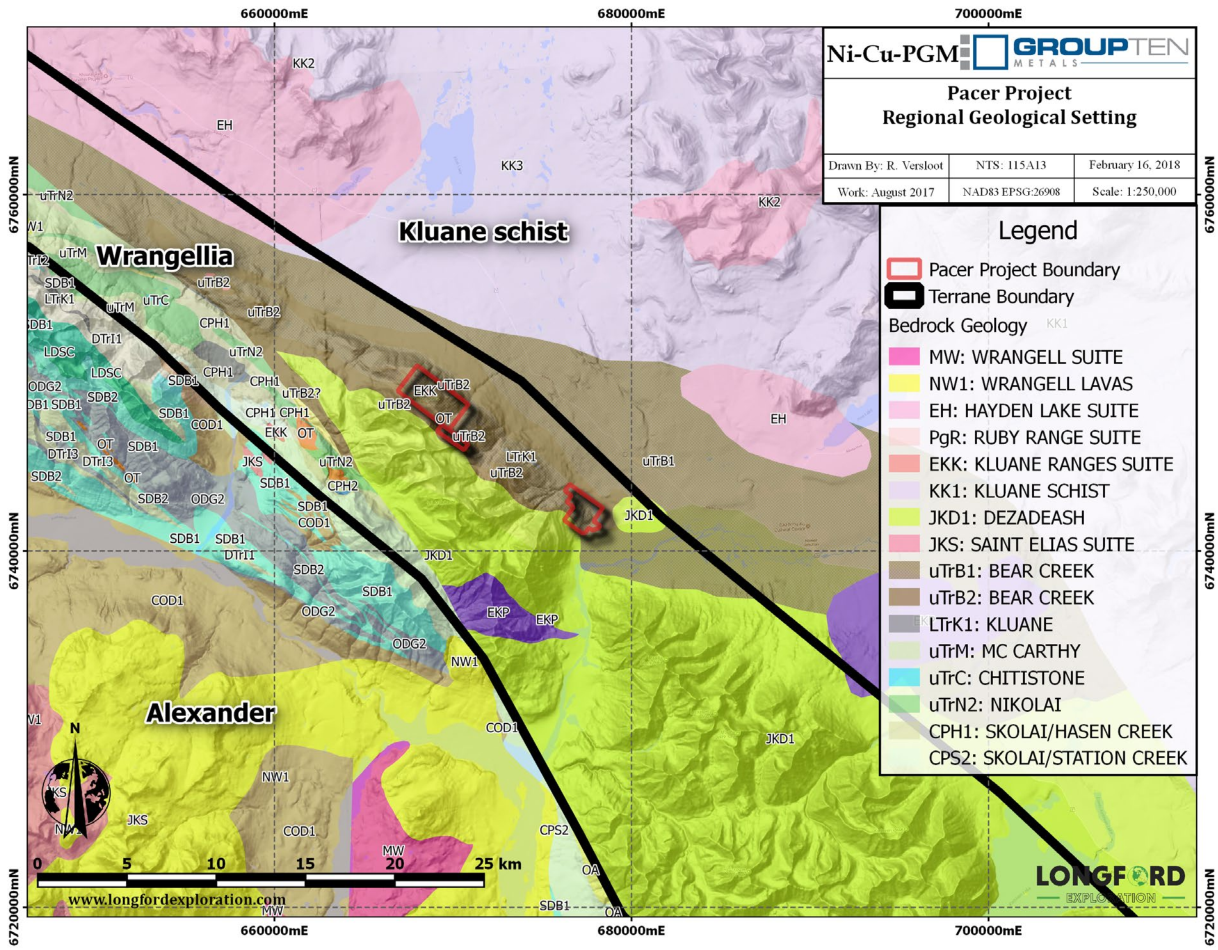

Figure 4.1 Pacer Project regional geological setting.

4.2 Regional Mineralization

There are four main types of Ni-Cu-PGE mineralization in the Kluane Ultramafic Belt found in all the mineralized sills from southeast Alaska to northern B.C. (Hulbert, 1997):

1. Basal accumulations of massive sulphides
2. Disseminated sulphides at the gabbro-ultramafic contact in each intrusion
3. PGE and Au rich zones associated with hydrothermal quartz-carbonate alteration at the edges of the sills and extending into the country rock.
4. Disseminated and lesser net textured or massive sulphides in the ultramafic core of each sill.

Other types of mineralization have a limited range (Hulbert, 1997):

1. Skarn ores developed in Permian carbonates at Wellgreen.
2. Ni-rich ores within the footwall in the White River sill.
3. Cu-rich mineralization in shear zones and deformed intervals of Nikolai basalt.
4. Cyprus type volcanogenic massive sulphide (VMS) mineralization in mafic volcanic rocks.

The Kloo (Ellen), Telluride and Nunatak minfile occurrences in the Jarvis River area represent potential VMS occurrences proximal to ultramafic sills with model characteristics summarized by Pautler J., 2007:

“The main deposit model for the Ellen property is volcanic hosted copper-gold massive sulphide, possibly of the Cyprus type. The following characteristics of the Cyprus massive sulphide deposit model are primarily summarized from Höy (1995).

Deposits of this type typically comprise one or more concordant lenses of massive pyrite and chalcopyrite (sometimes brecciated or banded) hosted by mafic volcanic rocks, underlain by a well developed pipe-shaped stockwork zone. The stockwork zone consists of a cross-cutting zone of intense alteration with disseminated, vein and stockwork mineralization and hydrothermally altered wallrock. The lenses may be overlain by or associated with chert layers, locally brecciated and containing disseminated sulphides. Lenses commonly occur in tholeiitic or calcalkaline marine basalts, commonly pillowed, near a transition with overlying argillaceous sediments generally within ophiolitic complexes formed at oceanic or back-arc spreading ridges and possibly within marginal basins above subduction zones or near volcanic islands within an intraplate environment. Many lenses appear to be structurally controlled, aligned near steep normal faults.

Ore mineralogy includes pyrite, chalcopyrite, magnetite, sphalerite, with lesser marcasite, galena, pyrrhotite, cubanite, stannite-besterite, hematite in a gangue of talc, chert, magnetite and chlorite. Alteration consists of chlorite, talc, carbonate, sericite and quartz veins in the core of the stringer zone, sometimes with an envelope of weak albite with illite alteration. Goethite alteration of the top of the sulphide layer may occur. Pyritic horizons occur distally and can be useful regional indicators.”

The Telluride volcanogenic massive sulphide showing, on the Ultra Property 32km northwest of the Pacer SE property has reported sample values of 3.23% Cu, 6.75% Zn, 17.8 Ag, 0.15 Au over a 4m width and the Nunatak zone 3km along strike to the southeast of the Telluride occurrence has recorded assay values of 11.54% Cu, 1514 ppm Zn and 7.2 g/t Ag over a 3m width (Pautler J., 2007).

The most common sulphide minerals of Ni-Cu-PGE mineralization are pyrrhotite, pyrite, pentlandite and chalcopyrite; the common oxide minerals are magnetite and ilmenite. Figure 4.2 below illustrates a typical, simplified ultramafic sill. The best known deposit and the sole producer in the belt is the Nickel Creek Platinum Corp. Wellgreen Deposit (Minfile 115G024). At Wellgreen the platinum group metals combine with As, Sb, Te, Bi, Ni, S, Co and Fe to form minerals and alloys. Sperrylite ($PtAs_2$) and Sudburyite (PdSb) are two of the more abundant minerals (Hulbert, 1997).

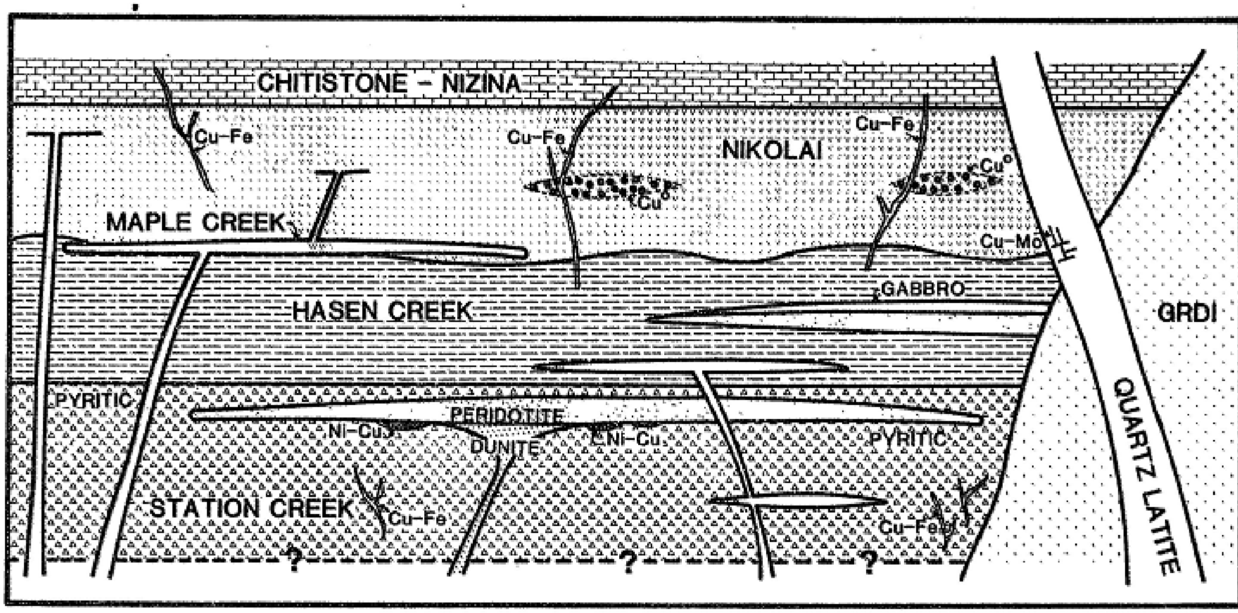

Figure 4.2 Deposit model for the Kluane Belt (modified from Campbell, W., 1981)

4.3 Property Geology

The Pacer claim group is dominated by two main lithological groups (J. Rogers, 2013):

1) The Upper Triassic Nikolai Formation, more recently labelled as the Upper Triassic Bear Creek Assemblage, 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 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 and usually disseminated throughout the rock with larger crystal forms up to 5mm in diameter.

Field mapping observed poly-deformed pillows in the Nikolai Formation on the eastern property margin. 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 are consistent with regional expectations of the Nikolai formation overlying the Hasen formation of the Skolai Group. 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 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.

2) The Upper Jurassic to Lower Cretaceous Dezadeash Formation (JKD) is currently found in the southwest of the Pacer SE 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 (J. Rogers, 2013). 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). 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.

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.

South of the shear zone, between Nikolai and Dezadeash, further evidence of local thrust faulting was observed and an antiform is described proximal to the shear zone in the steeply dipping Nikolai. Nearby, a small massive sulphide lense occurs in greenstone. It is believed that carbonate alteration proximal to the shear zone is responsible for this mineralisation.

Significant copper results were found in several float rocks near the top of and on the eastern slope of Mt. Decoeli in 2013. Malachite stained basalt float returned 2.144% Cu, 3071ppb Ag (sample 1494944; Figure 14a); 6511ppm Cu, 2265ppb Ag (sample 1494919; Figure 14b (J. Rogers, 2013).

Younger intrusives are seen cross cutting and parallel to stratigraphy of the Nikolai and Dezadeash formations. Small felsic dykes 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 Nikolai 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 field 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 (Kiss 2010) and first vertical derivative of the magnetic field (Kiss 2010) 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 the anomaly reflects pyrrhotite-rich ultramafic rocks (J. Rogers, 2013).

Table 4.3 – Table of Formations (after Open File 2014-18, YGS)

Q – Quaternary	Unconsolidated alluvium, colluvium and glacial deposits.
NW, Miocene to Pliocene Wrangell Lavas	NW1 - Extensive volcanic unit, volumetrically significant but not associated with mineralization. Occur on the southwest side of Wrangellia overlapping onto the Alexander Terrane. Abundant west of the Donjek River and typically form piles 400-1000m thick. Mafic to felsic volcanic rock with NW2 – volcanic conglomerate.
MW, Mid to late Miocene Wrangell Suite	MW - Youngest intrusions in the area. Related to the Wrangell Lavas. Felsic to mafic composition.
OT, Oligocene Tkope Suite	OT-Homogeneous granite with lesser granodiorite, diorite and gabbro. Subvolcanic rhyolite, rhyodacite and dacite.
EKK, EKP, Early Cretaceous Kluane Ranges Suite	EKK, EKP - medium to coarse-grained, biotite-hornblende granodiorite, quartz diorite, quartz monzonite and hornblende diorite. Minor diorite and gabbro. Pegmatite and porphyry dykes.
JKD, Early Cretaceous Dezadeash Formation	JKD - lithic greywacke, sandstone, siltstone, shale, argillite and conglomerate, rare tuff.
JKS, Jurassic, ST. Elias Suite	JKS - coarse grained hornblende-biotite granodiorite and quartz diorite.
uTM, Late Triassic McCarthy Fm.	uTM - Conformably overlies the Nikolai Group, varying in thickness from zero to several hundred metres. Argillaceous limestone and argillite; massive limestone, limestone breccia and well-bedded limestone, gypsum and anhydrite. (McCarthy, Chitistone and Nazina limestone).
uTu, Late Triassic Kluane Ultramafic Suite.	Preferentially intrudes at or near the Hasen Creek-Station Creek contact. uTu - peridotite, dunite and clinopyroxenite, layered intrusions, locally with gabbroic chilled margins.(Kluane-type mafic-Ultramafics Gabbro-Diabase Sills) uTmg - Maple Creek gabbro. Fine to coarse grained diabase and gabbro sills and dykes. Intrudes the Skolai Group and locally the Kluane ultramafic suite.
uTN, Late Triassic Nikolai formation	uTN3 – thinly bedded grey limestone and argillite. uTN – dark green to maroon amygdaloidal basalt and basaltic andesite flows, locally pyroxene and plagioclase phyric. (Nicolai Greenstone) uTN1 – light to dark green volcanic breccia, pillow lava and basal conglomerate.
uTB, Late Triassic Bear Creek Assemblage	uTBm - strongly foliated to massive intermediate to mafic metavolcanic rocks, lesser metaclastics, volcaniclastics and carbonate horizons uTBs – meta-siltstone, mudstone and sandstone; phyllitic to schistose, pyritic. uTBv – strongly foliated to intermediate to mafic metavolcanic rocks, greenschist.
PH, Mississippian to Permian Hasen Creek Fm.	PH – fine-grained clastic rocks. Lower part contains volcaniclastics, rare basalts, rare chert beds and chert-pebble conglomerate. PHc – limestone, locally fossiliferous, massive to bedded.
CS, Mississippian to Permian Station Creek Fm.	CS - dark green basalt flows, pillows, pillow breccia, local magnetite-rich jasper. CSvt – bedded to massive chert, tuff. CSv – interbedded volcanic breccia, volcaniclastics; minor basalt flow. CSvt – laminated volcanic tuff and volcanoclastic siltstone.

4.4 Recent Exploration (2017)

A total of 15 rock sample points were collected: 6 from a traverse on Pacer NW (now part of the Ellen project) and 9 from the new showing on Pacer SE. Access to the NW block was limited due to weather on the only day where schedules permitted a visit. The team hiked up a ridge from a much lower elevation off the claims and sought out copper mineralization associated with intrusive rocks, one sample of which returned 0.45% Cu.

On the SE block, a recently discovered showing was dug out for better exposure (Figure 4.3). Increased exposure allowed for multiple samples to be taken across the showing in order to better understand the extent and continuity of nickel mineralization. Results are given in Table 5.1.

Table 5.1 Results from 2017 sampling of Pacer SE showing.

Sample No.	Date	Ni_PPM	Cr_PPM	Mg_per
K896658	8-23-2017	947	635	10.57
K896659	8-23-2017	1838	1090	11.42
K896660	8-23-2017	2184	1216	17.35
K896661	8-23-2017	684	1270	6.71
K896662	8-23-2017	2141	1251	21.81
K896663	8-23-2017	1708	1383	21.08
K896666	8-23-2017	2297	877	20.19
K896669	8-23-2017	1313	667	15.09

Figure 4.3 Site of 2017 samples across new showing.

5 2018 Work Program

During the 2018 field program a total of 163 soils were collected for assay from a GPS grid with line intervals at 100m and sample intervals at 50m.

Longford Field Crews conducted geochemical exploration on the Pacer SE claims from July 9-11th, 2018. Field personnel included: geologists Graham Davidson, Ryan Versloot, Sarah Ryan and field assistant Matt Martinolich. Field work was staged from a camp at Silver City and logistical support was provided by TRK Helicopters based out of Haines Junction. The program focussed on potential ultramafic rock occurrences sampled in 2017 and outlined in part by airborne magnetic surveys.

5.1 Soil Geochemical Survey

During the 2018 work program a total of 163 soil samples were collected on soil lines targeting geochemical and geophysical anomalies on the Pacer SE block. Soil sampling conditions were generally good in the Pacer SE block where abundant vegetation and soft slopes has allowed for a well-developed soil profile. Talus slopes, glacial material and fluvial gravels to the southwest of the grid have hindered soil development and muted the geochemical expression of the underlying geophysical anomaly.

Samples were collected using soil augers in an attempt to sample below organic, ash and permafrost layers. The target soil horizon was the B horizon, but immature soil development in some areas and local fluvial gravel deposits meant that sample quality was not ideal. In some cases, lower slopes of the Alsek Valley the soils were developing on glacial material and were too young to have formed B horizons. Average sample depth was 0.46 m, with a wide range from 0.15 to 1.0 m. It was often necessary to dig several holes to get a good sample. Soil descriptions show that while some samples were from the B horizon, many were mixtures of A, B and C horizons.

The field crew recorded GPS readings at all sample sites and data on the sample site characteristics; including soil type, depth, slope, vegetation and moisture content. After the fieldwork was completed information from the sample form was entered into an MS Excel spreadsheet. The samples were sealed in a kraft bag for delivery directly to Bureau Veritas Laboratories in Whitehorse, Yukon. Samples were dried and sieved to 80 mesh (SS80) and a 0.5 g split was analyzed for 33 elements by Aqua Regia ICP-ES (AQ300) as well as a 30 g split analyzed for Au, Pt, Pd by Fire Assay ICP-ES (FA330). Assay certificates can be found in Appendix B and digital spreadsheets have been submitted electronically.

Results for Ni and Cu soil samples are given in Figures 5.1 – 5.2.

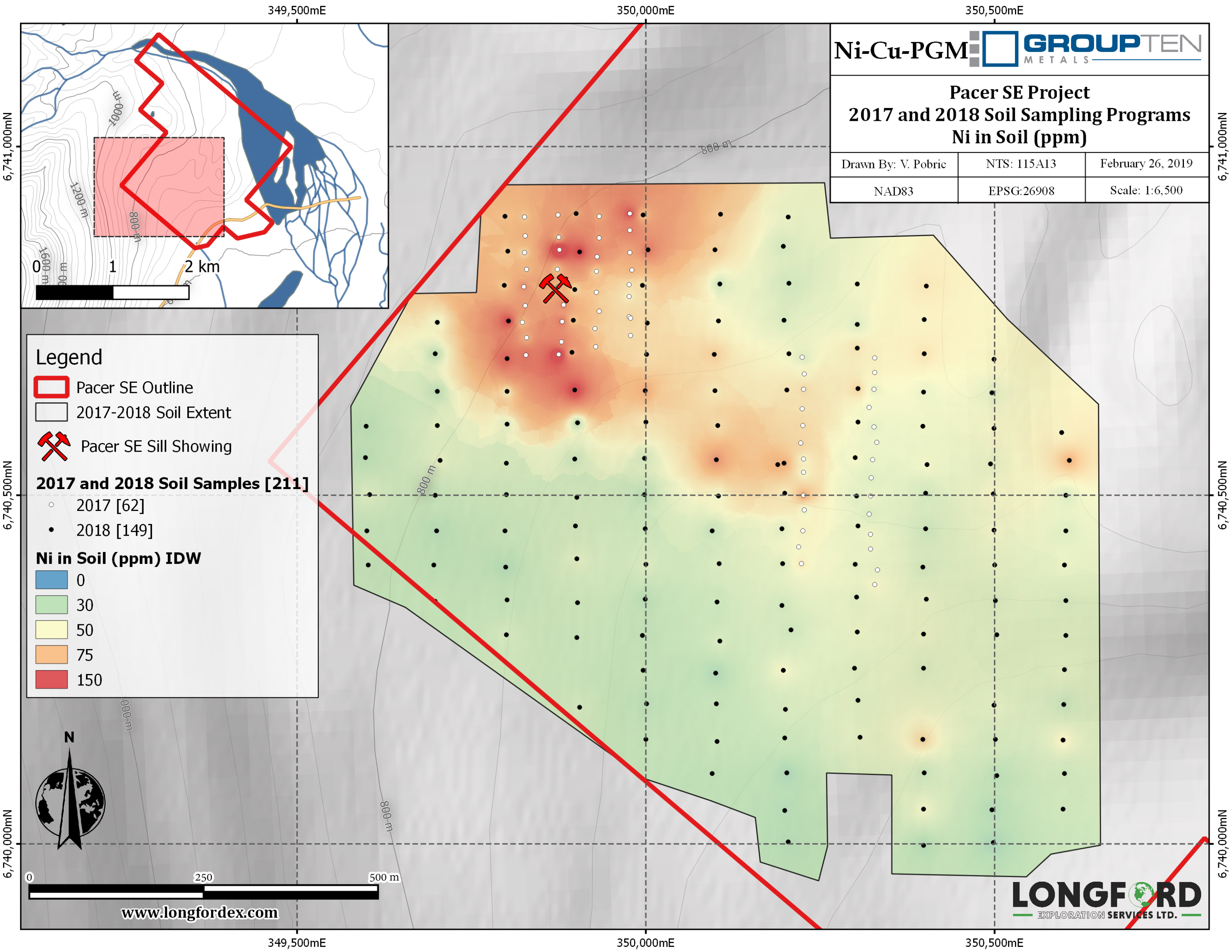

Figure 5.1 2017 and 2018 soil sample results for Ni (ppm).

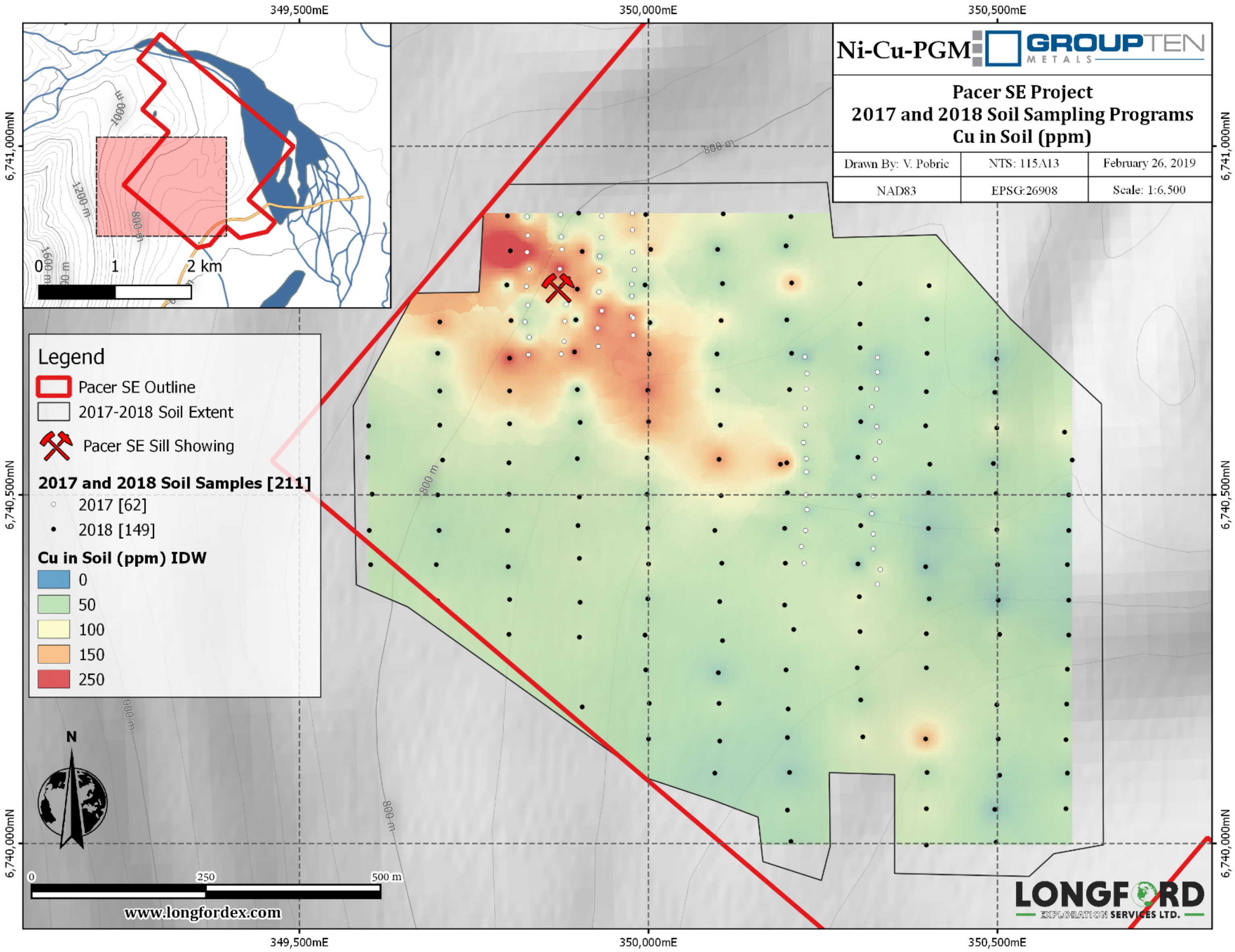

Figure 5.2 2017 and 2018 soil sample results for Cu (ppm).

5.2 Geophysical Surveys

In July 2017, Aurora Geosciences Ltd. released reprocessed geophysical imagery for map sheet 115A. Magnetic highs from this data correspond closely with the ultramafic outcrop which was the subject of investigation within the SE block during the 2017 program and may point to other areas for follow up examination (Figure 5.3).

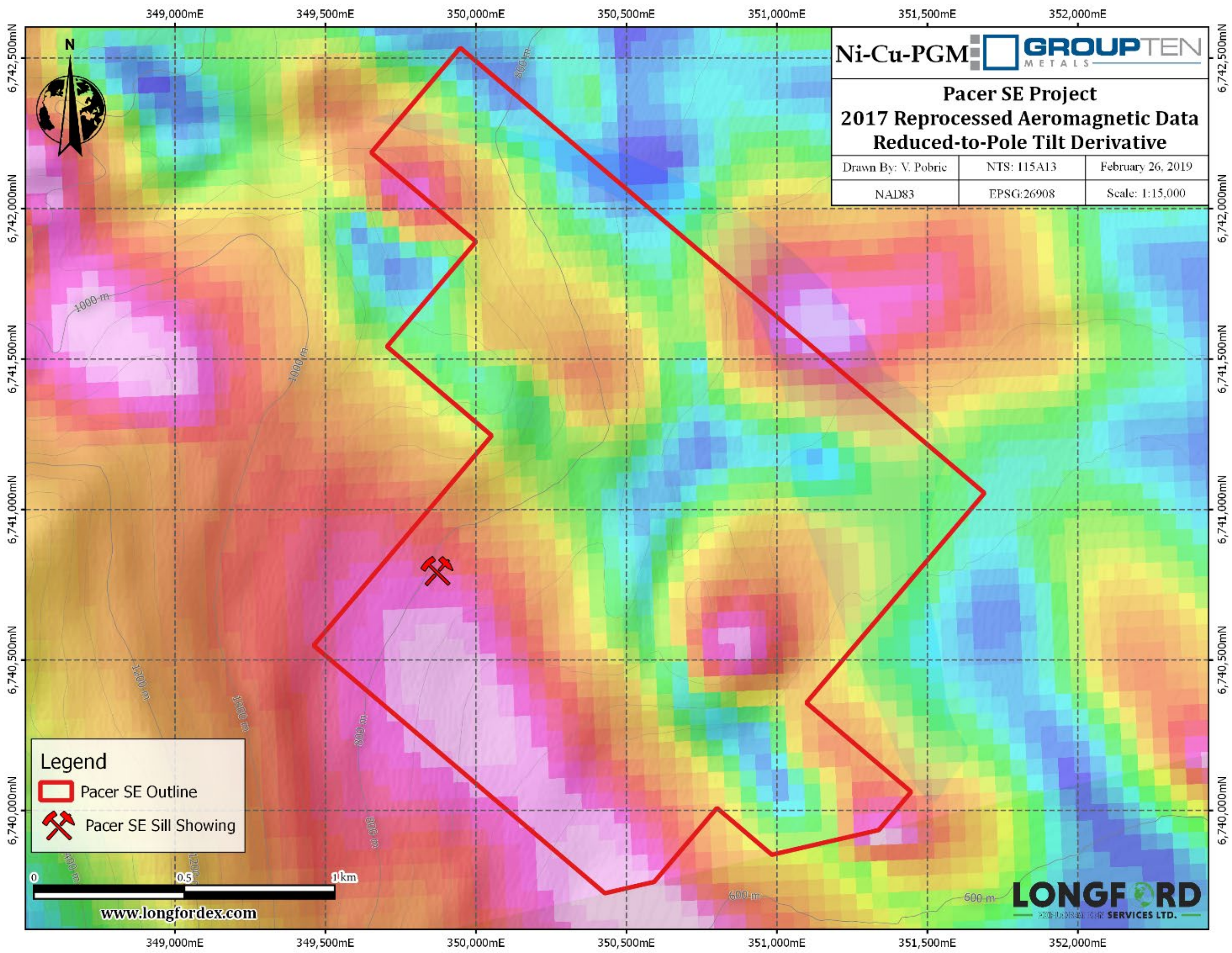

Figure 5.3 Pacer SE Block: 2017 aeromagnetic reprocessing, reduced to pole tilt derivative.

6 Conclusions

The 2018 exploration work on the Pacer SE claims focussed on a recently discovered ultramafic outcrop on a small slope in thick brush. Geochemical results from soil sampling show elevated nickel and copper values correspond directly to the aeromagnetic anomaly and to the outcrop of ultramafic rocks discovered in 2017. Geochemical results from the sampling across the outcrop reported in the 2017 assessment report assayed up to 0.23% Ni, suggesting this to be a compelling target for future work.

7 Recommendations

Soil sample results on the Pacer SE block in 2017 and 2018 were weakly to moderately anomalous in copper and nickel while corresponding to a geophysical anomaly mapped as ultramafic in nature. A limited program of further soil sampling in the northwest of the claim block as well as detailed ground geophysics is recommended. Depending on results from this phase, follow up shallow diamond drilling may be conducted later in the season or the following year.

Phase I $70,000

- Geological mapping and prospecting $10,000
- Geophysics, mag & VLF survey $25,000
- Soil geochemistry $30,000
- Report and compilation, digitization, and interpretation of all available historic data $5,000

Phase II $200,000

- 500m diamond drilling program of ultramafic sill using low impact, track mounted rig.

8 References

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9 Statement of Qualifications

I, Graham Davidson, with business address at 53 Grandin Woods, St. Albert, Alberta T8N 2Y4 hereby certify that:

- I am a practising Geologist, resident in St. Albert, Alberta;
- I am a member in good standing with Association of Professional Engineers, Geologists and Geophysicists of Alberta (# 42308);
- I hold a Bachelor of Science (Honours) degree in Geology (1981) from the University of Western Ontario;
- I have practiced my profession as a geologist since graduation;
- I have no direct or indirect interest in the Pacer SE Project, which is the subject of this report.
- 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.

Graham Davidson P.Geol.

APPENDIX A: Statement of Costs

DATE: July 25, 2018

LONGFORD EXPLORATION

SEND TO:
Group Ten Metals Inc.
#904-409 Granville Street
Vancouver, BC
Canada V6C 1T2
604 357-4790

Longford Exploration Services Ltd.
#460-688 West Hastings Street
Vancouver, BC
Canada V6B 1P1
778-809-7009

PACER SE 2018

Personnel		Days	Rate	Line Total
Pgeo - Davidson	July 9 - 11	3	$ 600.00	$ 1,800.00
Geologist - Versloot	July 9 - 11	3	$ 500.00	$ 1,500.00
Junior Geologist - Ryan	July 9 - 11	3	$ 350.00	$ 1,050.00
Student Geologist - Martinolich	July 9	1	$ 300.00	$ 300.00
	total man days	10	**Cat. Total**	**$ 4,650.00**
Food and Lodging		Units	Rate	Line Total
Food and Groceries		10	$ 60.00	$ 600.00
Silver City B&B		4	$ 250.00	$ 1,000.00
			Cat. Total	**$ 1,600.00**
Transportation		Units/Days	Unit Price	Line Total
Truck	1 ton with safety and recovery gear	9	$ 140.00	$ 1,260.00
Trailer	18' 7000lb covered trailer	3	$ 50.00	$ 150.00
Fuel	per km for truck	790	$ 0.55	$ 434.50
A-Star		0.6	$ 1,775.00	$ 1,065.00
Jet Fuel		114	$ 1.55	$ 176.70
			Cat. Total	**$ 3,086.20**
Equipment Rentals		Units	Unit Price	Line Total
Electronics Kit	Radios, Sat phones, GPS, per man day	10	$ 20.00	$ 200.00
Portable XRF with Stand	Per Day	3	$ 177.42	$ 532.26
Fly Camp	4 person setup, per man day	0	$ 40.00	$ -
			Cat. Total	**$ 732.26**
Consumable		Units	Unit Price	Line Total
Sample Bags		10	$ 5.00	$ 50.00
Flagging Tape		10	$ 5.00	$ 50.00
Office Consumables		10	$ 3.00	$ 30.00
			Cat. Total	**$ 130.00**
Analytical		Units	Unit Price	Line Total
Analysis - Soil	SS80, AQ300 FA330	163	$ 30.25	$ 4,930.75
Analysis - Rock	PRP70-250, FA330, AQ300	0	$ 34.25	$ -
			Cat. Total	**$ 4,930.75**
Post Field		Units	Unit Price	Line Total
Assessment Report prep and work filing		1	$ 2,500.00	$ 2,500.00
			Cat. Total	**$ 2,500.00**
			Estimated Sub Total	**$ 17,629.21**
			Management 15%	**$ 2,644.38**
			SUB TOTAL	**$ 20,273.59**
			GST 5 %	**$ 1,013.68**
			Total	**$ 21,287.27**

APPENDIX B: 2018 Assay Certificates

See data folder for .xls files.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Submitted By:	James Rogers
Receiving Lab:	Canada-Whitehorse
Received:	August 24, 2018
Report Date:	February 15, 2019
Page:	1 of 7

CERTIFICATE OF ANALYSIS WHI18000739.1

CLIENT JOB INFORMATION

Project:	2018-Pacer SE
Shipment ID:	
P.O. Number	
Number of Samples:	162

SAMPLE DISPOSAL

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

Bureau Veritas 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
DY060	162	Dry at 60C			WHI
SS80	162	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	162	Save all or part of Soil Reject			WHI
FA330	158	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	162	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	162	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	162	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1
Canada

CC: Vedran Pobric

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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. Bureau Veritas 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.

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1318051	Soil	4	4	7	<1	90	4	55	0.4	52	20	415	3.61	10	2	37	<0.5	<3	<3	83	0.90
1318052	Soil	5	3	6	1	75	6	76	0.7	80	22	713	3.81	12	<2	43	<0.5	<3	<3	89	1.07
1318053	Soil	5	3	4	<1	41	5	70	0.5	40	19	527	3.59	12	3	50	<0.5	<3	<3	80	1.10
1318054	Soil	4	5	6	<1	41	5	59	0.5	41	18	483	3.52	14	3	40	<0.5	<3	<3	79	0.92
1318055	Soil	5	<3	4	1	40	6	64	0.4	46	23	524	3.93	16	3	34	<0.5	<3	<3	98	0.68
1318056	Soil	5	4	3	1	39	6	79	0.6	40	17	401	3.59	12	3	36	<0.5	<3	<3	83	0.75
1318057	Soil	6	4	5	1	42	7	66	0.5	42	19	503	3.63	13	3	34	<0.5	<3	<3	82	0.65
1318058	Soil	6	14	13	<1	65	5	73	0.4	45	16	544	3.29	10	<2	59	<0.5	<3	<3	66	1.73
1318059	Soil	4	6	14	<1	50	4	72	<0.3	35	16	576	2.95	8	<2	63	<0.5	<3	<3	56	1.61
1318060	Soil	7	<3	8	<1	63	5	73	0.5	53	18	657	3.65	8	<2	70	<0.5	<3	<3	74	2.10
1318061	Soil	3	68	8	<1	43	4	67	0.6	37	16	529	3.30	6	3	52	<0.5	<3	<3	80	1.42
1318062	Soil	9	10	4	<1	59	5	75	0.7	37	21	649	3.43	7	2	57	<0.5	<3	<3	83	1.20
1318101	Soil	10	<3	3	1	90	8	84	<0.3	58	20	599	3.45	18	<2	85	<0.5	<3	<3	73	3.17
1318102	Soil	8	4	<2	1	52	7	69	0.5	53	22	537	3.93	14	3	37	<0.5	<3	<3	92	0.78
1318103	Soil	5	<3	<2	1	53	5	69	<0.3	60	24	551	4.57	18	4	34	<0.5	<3	<3	111	0.74
1318104	Soil	4	4	<2	1	49	6	65	0.6	45	19	423	3.39	13	2	41	<0.5	<3	<3	78	0.93
1318105	Soil	6	6	5	<1	53	5	67	0.4	47	20	428	3.60	14	3	39	<0.5	<3	<3	84	0.98
1318106	Soil	6	12	5	<1	53	6	58	<0.3	49	21	523	3.75	14	3	42	<0.5	<3	<3	82	0.92
1318107	Soil	6	<3	5	1	38	5	89	0.4	38	20	348	3.78	18	2	36	<0.5	<3	<3	77	0.80
1318108	Soil	5	<3	4	<1	34	5	51	0.5	36	13	282	2.86	9	3	35	<0.5	<3	<3	67	0.76
1318109	Soil	6	<3	4	1	32	7	70	0.5	38	17	351	3.38	12	<2	35	<0.5	<3	<3	70	0.80
1318110	Soil	8	<3	6	1	32	6	73	0.5	37	16	361	3.37	12	3	36	<0.5	<3	<3	70	0.82
1318111	Soil	8	<3	3	1	44	6	60	0.4	46	20	435	3.83	11	3	29	<0.5	<3	<3	89	0.56
1318112	Soil	23	<3	5	1	70	5	75	<0.3	47	19	561	3.19	11	<2	67	<0.5	<3	<3	69	1.99
1318113	Soil	6	<3	3	<1	64	5	58	<0.3	41	16	497	2.94	10	<2	49	<0.5	<3	<3	63	1.26
1318114	Soil	6	<3	23	1	155	5	69	0.5	64	13	494	3.00	7	<2	61	0.6	<3	<3	59	1.84
1318115	Soil	9	<3	14	<1	50	5	50	<0.3	36	13	377	2.67	6	<2	95	0.6	<3	<3	52	2.16
1318116	Soil	7	<3	14	<1	79	6	84	0.4	49	17	516	3.56	6	<2	84	<0.5	<3	<3	60	1.59
1318117	Soil	88	<3	2	<1	36	5	68	0.5	28	15	398	2.67	5	<2	59	<0.5	<3	<3	59	1.34
1318118	Soil	5	5	2	<1	48	6	144	<0.3	34	21	678	3.01	7	2	60	0.8	<3	<3	59	1.31

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1318051	Soil	0.062	10	101	1.17	82	0.147	<20	1.91	0.03	0.09	<2	<0.05	<1	<5	<5	6
1318052	Soil	0.103	10	103	1.42	116	0.129	<20	2.17	0.02	0.12	<2	<0.05	<1	<5	<5	6
1318053	Soil	0.108	9	67	1.07	117	0.128	<20	1.94	0.02	0.11	<2	<0.05	<1	<5	<5	5
1318054	Soil	0.075	11	66	0.97	84	0.126	<20	1.88	0.03	0.11	<2	<0.05	<1	<5	<5	6
1318055	Soil	0.060	7	84	1.11	73	0.153	<20	2.02	0.02	0.14	<2	<0.05	<1	<5	<5	6
1318056	Soil	0.072	10	68	1.02	81	0.121	<20	2.04	0.02	0.08	<2	<0.05	<1	<5	<5	5
1318057	Soil	0.060	9	68	1.04	83	0.138	<20	2.06	0.02	0.10	<2	<0.05	<1	<5	<5	6
1318058	Soil	0.091	10	64	1.19	75	0.104	<20	1.59	0.02	0.12	<2	<0.05	<1	<5	<5	<5
1318059	Soil	0.082	8	53	1.00	63	0.101	<20	1.52	0.01	0.11	<2	0.05	<1	<5	<5	<5
1318060	Soil	0.099	9	74	1.45	63	0.139	<20	1.77	0.02	0.14	<2	<0.05	<1	<5	<5	5
1318061	Soil	0.097	8	59	1.14	62	0.131	<20	1.59	0.02	0.14	<2	<0.05	<1	<5	<5	<5
1318062	Soil	0.105	9	60	1.07	84	0.130	<20	1.60	0.03	0.19	<2	<0.05	<1	<5	<5	6
1318101	Soil	0.079	12	58	1.15	111	0.097	<20	2.03	0.02	0.10	<2	0.07	<1	<5	<5	<5
1318102	Soil	0.057	11	78	1.18	104	0.146	<20	2.26	0.02	0.07	<2	<0.05	<1	<5	<5	7
1318103	Soil	0.032	9	109	1.20	71	0.193	<20	2.20	0.02	0.12	<2	<0.05	<1	<5	<5	8
1318104	Soil	0.064	9	83	1.08	78	0.130	<20	1.88	0.02	0.09	<2	<0.05	<1	<5	<5	5
1318105	Soil	0.082	9	84	1.05	119	0.103	<20	1.98	0.02	0.08	<2	<0.05	<1	<5	<5	5
1318106	Soil	0.079	10	78	1.06	134	0.097	<20	2.11	0.03	0.07	<2	<0.05	<1	<5	<5	6
1318107	Soil	0.085	10	64	0.95	122	0.108	<20	1.80	0.02	0.09	<2	<0.05	<1	<5	<5	<5
1318108	Soil	0.070	9	58	0.84	78	0.123	<20	1.59	0.02	0.09	<2	<0.05	<1	<5	<5	<5
1318109	Soil	0.088	9	64	0.96	99	0.112	<20	1.82	0.02	0.09	<2	<0.05	<1	<5	<5	<5
1318110	Soil	0.089	9	63	0.96	100	0.114	<20	1.81	0.02	0.09	<2	<0.05	<1	<5	<5	<5
1318111	Soil	0.031	9	82	1.01	77	0.170	<20	2.08	0.01	0.11	<2	<0.05	<1	<5	<5	7
1318112	Soil	0.082	9	82	1.19	101	0.100	<20	1.68	0.02	0.12	<2	0.06	<1	<5	<5	<5
1318113	Soil	0.093	8	84	1.08	115	0.103	<20	1.54	0.02	0.09	<2	<0.05	<1	<5	<5	<5
1318114	Soil	0.081	8	58	1.04	73	0.111	<20	1.66	0.01	0.10	<2	0.06	<1	<5	<5	<5
1318115	Soil	0.062	8	49	0.92	89	0.104	<20	1.49	0.02	0.09	<2	0.11	<1	<5	<5	<5
1318116	Soil	0.093	8	82	1.26	93	0.113	<20	1.98	0.01	0.10	<2	0.08	<1	<5	<5	5
1318117	Soil	0.078	8	49	0.94	54	0.110	<20	1.44	0.02	0.21	<2	0.06	<1	<5	<5	<5
1318118	Soil	0.145	8	54	0.96	112	0.094	<20	1.57	0.02	0.21	<2	<0.05	<1	<5	<5	<5

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Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1318119	Soil	5	5	2	1	54	8	93	0.5	30	20	660	3.21	8	<2	75	0.6	<3	<3	60	2.00
1318120	Soil	5	<3	2	1	57	7	102	0.4	32	20	669	3.27	8	<2	74	<0.5	<3	<3	61	1.99
1318121	Soil	5	<3	<2	1	50	8	82	0.6	35	22	699	3.64	11	2	48	0.5	<3	<3	63	1.22
1318122	Soil	5	<3	4	1	57	9	90	0.4	33	21	693	3.96	9	<2	47	<0.5	<3	<3	60	1.40
1318123	Soil	5	<3	3	1	47	8	89	0.5	30	21	730	3.69	8	2	42	<0.5	<3	<3	60	1.29
1318124	Soil	4	<3	3	<1	76	6	100	<0.3	42	21	582	3.44	12	<2	46	0.5	<3	<3	59	1.24
1318125	Soil	3	<3	<2	1	63	8	108	0.4	37	21	746	3.93	11	<2	52	0.6	<3	<3	61	1.39
1318126	Soil	6	<3	2	<1	46	9	126	<0.3	30	17	620	3.44	8	<2	79	<0.5	<3	<3	53	1.91
1318127	Soil	6	<3	4	2	82	11	112	0.5	39	26	866	4.42	12	<2	38	<0.5	<3	<3	63	1.15
1318128	Soil	6	5	15	2	180	8	107	0.6	56	22	746	4.22	19	<2	43	<0.5	<3	<3	67	1.14
1318129	Soil	8	6	33	1	220	5	77	0.9	84	26	744	4.11	12	<2	42	<0.5	<3	<3	90	1.13
1318130	Soil	7	4	44	1	317	6	77	1.1	87	26	775	4.01	12	<2	46	<0.5	<3	<3	89	1.22
1318131	Soil	6	<3	35	1	182	5	93	0.5	60	22	712	3.69	12	<2	56	0.6	<3	<3	72	1.59
1318132	Soil	5	<3	3	<1	50	6	93	0.5	63	21	497	3.80	13	<2	41	<0.5	<3	<3	81	0.95
1318133	Soil	5	4	<2	1	50	7	78	<0.3	31	18	626	3.29	8	<2	64	<0.5	<3	<3	54	1.80
1318134	Soil	4	<3	4	1	56	9	86	0.7	31	21	699	3.83	9	<2	48	<0.5	<3	<3	61	1.46
1318135	Soil	5	<3	4	<1	68	7	184	0.7	43	29	915	3.54	8	<2	49	1.0	<3	<3	65	1.06
1318136	Soil	5	3	<2	1	62	9	90	0.7	34	22	719	3.91	10	<2	49	<0.5	<3	<3	61	1.37
1318137	Soil	9	3	3	2	60	9	156	<0.3	33	23	696	3.38	9	<2	77	1.0	<3	<3	55	2.08
1318138	Soil	9	<3	5	1	71	9	132	0.5	35	22	626	3.12	8	<2	65	0.5	<3	<3	61	1.45
1318139	Soil	5	3	5	1	52	7	195	<0.3	32	22	652	2.60	7	<2	82	0.8	<3	<3	52	2.04
1318140	Soil	5	<3	3	1	52	8	232	<0.3	33	22	707	2.89	7	<2	77	0.7	<3	<3	55	1.90
1318141	Soil	6	5	4	1	45	5	78	<0.3	29	15	461	2.28	5	<2	83	<0.5	<3	<3	44	2.21
1318142	Soil	5	<3	<2	1	49	9	81	0.6	33	23	696	3.81	11	<2	51	<0.5	<3	<3	64	1.21
1318143	Soil	6	3	2	1	74	6	295	0.7	46	22	674	3.41	7	<2	70	1.7	<3	<3	68	1.80
1318144	Soil	5	<3	4	<1	71	7	199	0.8	45	25	754	3.65	10	<2	60	0.9	<3	<3	69	1.46
1318145	Soil	5	<3	<2	1	58	9	109	0.5	32	20	709	4.00	9	<2	52	<0.5	<3	<3	65	1.49
1318146	Soil	5	<3	<2	1	56	8	163	0.5	31	20	683	3.78	9	<2	60	0.9	<3	<3	64	1.77
1318147	Soil	8	4	13	2	176	11	138	0.5	46	26	1059	5.11	24	3	42	<0.5	<3	<3	69	1.01
1318148	Soil	8	3	2	1	65	8	162	0.6	40	26	799	3.94	8	<2	57	<0.5	<3	<3	75	1.31

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460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1318119	Soil	0.093	6	43	1.04	61	0.113	<20	1.88	<0.01	0.18	<2	0.07	<1	<5	<5	<5
1318120	Soil	0.092	6	43	1.06	63	0.117	<20	1.94	<0.01	0.18	<2	0.06	<1	<5	<5	<5
1318121	Soil	0.073	8	51	1.09	67	0.121	<20	1.91	0.01	0.19	<2	<0.05	<1	<5	<5	<5
1318122	Soil	0.071	6	44	1.17	62	0.125	<20	2.15	<0.01	0.17	<2	<0.05	<1	<5	<5	5
1318123	Soil	0.071	6	42	1.09	54	0.114	<20	2.07	<0.01	0.16	<2	<0.05	<1	<5	<5	<5
1318124	Soil	0.099	9	56	1.00	77	0.097	<20	1.80	0.01	0.15	<2	<0.05	<1	<5	<5	<5
1318125	Soil	0.081	7	52	1.20	77	0.119	<20	2.15	<0.01	0.15	<2	<0.05	<1	<5	<5	5
1318126	Soil	0.112	5	44	1.09	85	0.101	<20	1.90	<0.01	0.16	<2	0.06	<1	<5	<5	<5
1318127	Soil	0.085	8	46	1.27	53	0.135	<20	2.40	<0.01	0.16	<2	<0.05	<1	<5	<5	6
1318128	Soil	0.094	11	63	1.24	80	0.120	<20	2.15	<0.01	0.09	<2	<0.05	<1	<5	<5	6
1318129	Soil	0.082	8	143	1.72	87	0.241	<20	2.37	0.01	0.11	<2	<0.05	<1	<5	<5	6
1318130	Soil	0.084	8	139	1.65	94	0.235	<20	2.30	0.01	0.11	<2	<0.05	<1	<5	<5	6
1318131	Soil	0.096	7	106	1.41	114	0.146	<20	2.09	0.02	0.13	<2	<0.05	<1	<5	<5	<5
1318132	Soil	0.087	7	94	1.23	99	0.173	<20	1.99	0.01	0.15	<2	<0.05	<1	<5	<5	<5
1318133	Soil	0.087	6	42	1.02	75	0.104	<20	1.80	<0.01	0.17	<2	0.07	<1	<5	<5	<5
1318134	Soil	0.069	6	42	1.14	58	0.133	<20	2.15	<0.01	0.17	<2	<0.05	<1	<5	<5	5
1318135	Soil	0.104	8	55	1.08	114	0.130	<20	1.86	0.02	0.18	<2	<0.05	<1	<5	<5	5
1318136	Soil	0.071	6	44	1.19	63	0.127	<20	2.16	<0.01	0.21	<2	<0.05	<1	<5	<5	5
1318137	Soil	0.101	7	38	1.00	76	0.106	<20	1.90	0.01	0.16	<2	0.09	<1	<5	<5	<5
1318138	Soil	0.106	8	48	1.00	78	0.114	<20	1.78	0.01	0.16	<2	<0.05	<1	<5	<5	<5
1318139	Soil	0.114	6	42	0.83	79	0.079	<20	1.42	0.01	0.20	<2	0.10	<1	<5	<5	<5
1318140	Soil	0.121	6	48	0.89	86	0.088	<20	1.56	0.02	0.20	<2	0.08	<1	<5	<5	<5
1318141	Soil	0.100	5	31	0.75	64	0.087	<20	1.19	0.01	0.19	<2	0.10	<1	<5	<5	<5
1318142	Soil	0.064	6	49	1.15	66	0.137	<20	2.04	<0.01	0.19	<2	<0.05	<1	<5	<5	<5
1318143	Soil	0.139	8	57	1.05	117	0.125	<20	1.93	0.02	0.29	<2	<0.05	<1	<5	<5	<5
1318144	Soil	0.101	8	61	1.13	93	0.133	<20	2.02	0.02	0.21	<2	<0.05	<1	<5	<5	<5
1318145	Soil	0.079	6	45	1.18	69	0.156	<20	2.25	<0.01	0.17	<2	0.05	<1	<5	<5	5
1318146	Soil	0.100	7	47	1.16	68	0.138	<20	2.10	0.01	0.18	<2	0.06	<1	<5	<5	5
1318147	Soil	0.097	12	51	1.20	83	0.121	<20	2.17	<0.01	0.10	<2	<0.05	<1	<5	<5	8
1318148	Soil	0.138	7	57	1.25	76	0.155	<20	2.13	0.01	0.19	<2	<0.05	<1	<5	<5	5

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	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1318149	Soil	6	<3	3	2	64	9	105	0.5	34	24	806	4.23	11	<2	46	<0.5	<3	<3	69	1.25
1318150	Soil	8	<3	<2	2	68	10	111	0.6	35	26	860	4.19	11	<2	49	<0.5	<3	<3	66	1.30
1318151	Soil	7	<3	<2	2	47	8	92	0.5	28	20	678	3.76	9	<2	52	<0.5	<3	<3	62	1.46
1318152	Soil	4	<3	3	1	63	9	132	0.6	36	23	752	4.09	9	<2	51	<0.5	<3	<3	66	1.44
1318153	Soil	6	6	<2	1	57	7	106	0.7	37	21	645	3.58	10	<2	56	<0.5	<3	<3	67	1.33
1318154	Soil	7	<3	2	1	68	8	164	0.7	40	22	708	3.61	10	<2	66	0.9	<3	<3	66	1.61
1318155	Soil	7	<3	4	1	80	7	159	0.6	43	21	660	3.62	9	<2	68	0.8	<3	<3	61	1.80
1318156	Soil	6	<3	12	2	136	9	109	0.6	51	24	776	4.57	12	<2	50	<0.5	<3	<3	76	1.31
1318157	Soil	7	6	50	3	262	9	133	<0.3	138	34	1441	5.45	33	<2	51	<0.5	<3	<3	80	1.32
1318158	Soil	7	11	61	1	129	7	79	0.9	164	24	636	3.82	13	2	60	<0.5	<3	<3	94	1.39
1318159	Soil	13	4	4	1	61	6	78	1.0	64	23	685	4.43	11	<2	45	<0.5	<3	<3	103	0.91
1318160	Soil	6	6	4	1	61	6	76	0.9	66	23	668	4.53	10	<2	44	<0.5	<3	<3	107	0.89
1318161	Soil	7	4	38	<1	633	5	89	0.6	67	20	447	3.96	15	<2	50	0.6	<3	<3	89	1.39
1318162	Soil	6	4	10	1	178	7	97	0.8	70	28	854	4.90	12	<2	63	<0.5	<3	<3	109	1.73
1318201	Soil	5	<3	3	2	76	8	82	0.5	48	23	613	4.32	15	<2	35	<0.5	<3	<3	98	0.69
1318202	Soil	7	<3	6	2	68	7	65	0.6	41	17	419	3.80	15	2	35	<0.5	<3	<3	92	0.88
1318203	Soil	7	4	<2	2	59	6	65	<0.3	59	21	469	4.30	15	2	33	<0.5	<3	<3	98	0.70
1318204	Soil	6	<3	<2	1	62	8	89	0.6	66	23	790	4.03	14	<2	38	<0.5	<3	<3	86	0.76
1318205	Soil	5	<3	2	1	41	8	71	0.5	50	19	443	3.80	15	<2	35	<0.5	<3	<3	86	0.69
1318206	Soil	5	<3	<2	1	41	6	63	0.5	51	18	535	3.77	13	3	33	<0.5	<3	<3	80	0.69
1318207	Soil	5	5	<2	<1	40	6	53	0.6	41	17	370	3.50	11	3	35	<0.5	<3	<3	81	0.69
1318208	Soil	5	<3	<2	1	64	6	45	0.6	45	17	285	3.27	11	3	30	<0.5	<3	<3	79	0.65
1318209	Soil	8	<3	<2	<1	31	5	53	0.5	44	18	406	3.68	11	2	33	<0.5	<3	<3	85	0.73
1318210	Soil	4	3	<2	<1	36	4	50	<0.3	57	19	443	3.81	10	<2	31	<0.5	<3	<3	88	0.73
1318211	Soil	6	5	5	<1	88	6	75	0.6	42	19	627	3.50	11	3	44	<0.5	<3	<3	83	0.93
1318212	Soil	5	<3	2	<1	81	6	72	0.5	46	20	563	3.79	13	<2	43	<0.5	<3	<3	89	0.82
1318213	Soil	6	<3	2	1	58	6	71	0.6	42	18	573	3.51	14	<2	64	<0.5	<3	<3	74	2.14
1318214	Soil	5	<3	2	1	50	8	72	0.5	42	18	515	3.77	12	2	43	<0.5	<3	<3	83	0.86
1318215	Soil	5	<3	3	<1	89	6	88	<0.3	45	19	715	3.45	9	<2	63	<0.5	<3	<3	64	1.77
1318216	Soil	6	<3	<2	1	59	9	112	0.7	39	24	738	4.00	13	<2	45	<0.5	<3	<3	74	1.03

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1318149	Soil	0.089	7	46	1.20	64	0.147	<20	2.32	<0.01	0.16	<2	<0.05	<1	<5	<5	5
1318150	Soil	0.090	8	47	1.17	72	0.136	<20	2.23	<0.01	0.16	<2	<0.05	<1	<5	<5	5
1318151	Soil	0.087	6	45	1.13	59	0.120	<20	2.04	<0.01	0.17	<2	0.05	<1	<5	<5	<5
1318152	Soil	0.100	7	48	1.20	88	0.134	<20	2.29	<0.01	0.16	<2	<0.05	<1	<5	<5	5
1318153	Soil	0.104	8	54	1.11	67	0.130	<20	1.88	0.02	0.22	<2	<0.05	<1	<5	<5	<5
1318154	Soil	0.113	9	57	1.08	108	0.120	<20	1.94	0.02	0.20	<2	<0.05	<1	<5	<5	5
1318155	Soil	0.089	7	50	1.05	88	0.125	<20	1.90	0.01	0.20	<2	<0.05	<1	<5	<5	<5
1318156	Soil	0.069	10	60	1.29	85	0.168	<20	2.46	<0.01	0.16	<2	<0.05	<1	<5	<5	7
1318157	Soil	0.101	15	74	1.27	136	0.112	<20	2.29	<0.01	0.10	<2	<0.05	<1	<5	<5	8
1318158	Soil	0.064	11	76	1.14	192	0.131	<20	2.40	0.02	0.07	<2	<0.05	<1	<5	<5	6
1318159	Soil	0.057	7	97	1.46	91	0.221	<20	2.44	0.02	0.11	<2	<0.05	<1	<5	<5	7
1318160	Soil	0.056	7	99	1.50	85	0.217	<20	2.43	0.01	0.11	<2	<0.05	<1	<5	<5	7
1318161	Soil	0.089	7	111	1.45	97	0.174	<20	2.13	0.01	0.10	<2	<0.05	<1	<5	<5	6
1318162	Soil	0.087	8	119	1.95	90	0.296	<20	2.80	0.02	0.16	<2	<0.05	<1	<5	<5	8
1318201	Soil	0.066	11	85	1.21	109	0.160	<20	2.60	0.02	0.08	<2	<0.05	<1	<5	<5	6
1318202	Soil	0.073	9	84	1.08	137	0.141	<20	2.59	0.02	0.05	<2	<0.05	<1	<5	<5	6
1318203	Soil	0.025	8	84	1.24	59	0.203	<20	2.41	0.02	0.11	<2	<0.05	<1	<5	<5	7
1318204	Soil	0.078	10	81	1.19	90	0.160	<20	2.06	0.02	0.12	<2	<0.05	<1	<5	<5	6
1318205	Soil	0.043	8	76	1.06	94	0.170	<20	2.13	0.02	0.12	<2	<0.05	<1	<5	<5	6
1318206	Soil	0.059	9	79	1.08	60	0.155	<20	1.96	0.02	0.13	<2	<0.05	<1	<5	<5	6
1318207	Soil	0.047	10	75	0.92	71	0.159	<20	1.92	0.02	0.14	<2	<0.05	<1	<5	<5	6
1318208	Soil	0.014	9	91	0.99	57	0.166	<20	1.82	0.02	0.08	<2	<0.05	<1	<5	<5	5
1318209	Soil	0.040	7	112	1.14	58	0.168	<20	2.06	0.02	0.12	<2	<0.05	<1	<5	<5	<5
1318210	Soil	0.034	6	157	1.34	53	0.198	<20	2.23	0.02	0.11	<2	<0.05	<1	<5	<5	5
1318211	Soil	0.074	13	73	1.04	109	0.141	<20	1.99	0.03	0.11	<2	<0.05	<1	<5	<5	7
1318212	Soil	0.071	11	82	1.15	92	0.152	<20	2.08	0.02	0.11	<2	<0.05	<1	<5	<5	6
1318213	Soil	0.071	11	60	1.11	82	0.134	<20	1.89	0.02	0.17	<2	<0.05	<1	<5	<5	5
1318214	Soil	0.063	12	62	1.10	94	0.148	<20	2.10	0.02	0.09	<2	<0.05	<1	<5	<5	7
1318215	Soil	0.107	12	58	1.07	93	0.102	<20	1.61	0.02	0.14	<2	0.05	<1	<5	<5	5
1318216	Soil	0.081	9	59	1.16	79	0.145	<20	2.20	0.01	0.16	<2	<0.05	<1	<5	<5	5

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Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1318217	Soil	5	<3	<2	2	68	9	102	0.7	36	24	785	4.21	11	<2	48	<0.5	<3	<3	66	1.26
1318218	Soil	5	<3	4	2	63	10	98	0.5	37	21	746	4.22	11	<2	45	<0.5	<3	<3	67	1.33
1318219	Soil	5	<3	2	1	72	8	194	0.6	44	26	840	4.08	9	<2	44	0.7	<3	<3	69	1.11
1318220	Soil	5	<3	<2	1	78	9	171	0.7	46	26	879	4.16	12	<2	43	0.8	<3	<3	70	1.09
1318221	Soil	5	<3	<2	1	63	10	122	0.5	39	24	796	3.93	10	<2	57	0.5	<3	<3	61	1.60
1318222	Soil	5	3	2	2	75	13	120	0.6	39	24	801	4.39	12	<2	42	<0.5	<3	<3	66	1.30
1318223	Soil	5	<3	4	1	55	8	119	0.7	36	19	647	3.85	9	<2	46	<0.5	<3	<3	63	1.28
1318224	Soil	5	<3	<2	1	49	7	122	0.5	31	18	622	3.53	9	<2	47	<0.5	<3	<3	59	1.40
1318225	Soil	5	<3	6	<1	45	5	59	0.5	166	21	473	3.56	10	<2	49	<0.5	<3	<3	76	1.37
1318226	Soil	7	<3	33	2	238	10	164	<0.3	77	27	1139	4.25	23	<2	50	0.6	<3	<3	67	1.41
1318227	Soil	6	5	3	<1	42	6	106	0.5	62	22	655	3.38	12	<2	54	<0.5	<3	<3	75	1.27
1319527	Soil	13	4	7	<1	36	6	55	0.6	53	20	467	3.58	13	<2	30	<0.5	<3	<3	88	0.65
1319528	Soil	5	6	2	1	45	6	55	0.6	43	19	545	3.50	15	3	42	<0.5	<3	<3	79	0.98
1319529	Soil	7	6	9	1	90	5	71	0.5	50	20	587	3.61	13	<2	47	<0.5	<3	<3	80	1.08
1319530	Soil	8	<3	9	<1	83	4	67	0.5	49	19	565	3.50	12	<2	44	<0.5	<3	<3	77	0.99
1319531	Soil	6	<3	<2	1	39	4	53	0.6	44	17	359	3.46	11	<2	34	<0.5	<3	<3	82	0.80
1319532	Soil	4	5	<2	1	56	6	69	0.5	51	21	538	3.69	16	2	43	<0.5	<3	<3	84	0.86
1319533	Soil	9	9	7	1	74	5	62	0.6	50	18	431	3.32	14	<2	66	<0.5	<3	<3	77	2.39
1319534	Soil	10	<3	14	<1	44	4	58	0.6	45	18	455	3.50	12	<2	36	<0.5	<3	<3	84	0.71
1319535	Soil	3	47	<2	<1	30	5	57	0.6	40	17	423	3.53	12	2	36	<0.5	<3	<3	82	0.71
1319536	Soil	10	<3	3	<1	64	5	77	<0.3	43	16	575	3.18	11	<2	54	<0.5	<3	<3	68	1.55
1319537	Soil	4	4	6	<1	63	4	57	<0.3	44	14	492	2.64	8	<2	121	<0.5	<3	<3	53	3.91
1319538	Soil	5	<3	5	<1	51	4	67	0.5	39	14	584	3.20	7	<2	63	<0.5	<3	<3	59	1.74
1319539	Soil	13	<3	21	<1	42	3	44	<0.3	30	9	303	2.22	4	<2	75	<0.5	<3	<3	50	2.08
1319540	Soil	6	<3	12	<1	36	4	43	<0.3	28	9	329	2.30	4	<2	71	<0.5	<3	<3	50	2.05
1319541	Soil	6	<3	9	<1	30	5	61	<0.3	28	10	281	2.23	4	<2	71	<0.5	<3	<3	50	1.84
1319542	Soil	4	5	15	<1	47	9	40	<0.3	25	9	328	2.23	3	<2	217	<0.5	<3	<3	48	10.53
1319543	Soil	6	<3	<2	1	50	7	75	0.5	50	18	502	3.81	12	<2	34	<0.5	<3	<3	71	0.85
1319544	Soil	5	<3	<2	1	65	10	91	0.7	36	22	717	4.01	10	<2	37	<0.5	<3	<3	63	1.11
1319545	Soil	5	<3	<2	2	65	10	99	0.6	37	21	709	4.11	11	<2	49	<0.5	<3	<3	64	1.31

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Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1318217	Soil	0.090	7	45	1.18	77	0.134	<20	2.33	0.01	0.16	<2	<0.05	<1	<5	<5	6
1318218	Soil	0.081	6	48	1.22	69	0.146	<20	2.34	0.01	0.17	<2	<0.05	<1	<5	<5	6
1318219	Soil	0.109	8	53	1.18	80	0.134	<20	2.22	0.02	0.19	<2	<0.05	<1	<5	<5	5
1318220	Soil	0.105	10	54	1.19	79	0.131	<20	2.24	0.02	0.17	<2	<0.05	<1	<5	<5	6
1318221	Soil	0.092	8	51	1.15	71	0.114	<20	2.15	0.01	0.16	<2	<0.05	<1	<5	<5	5
1318222	Soil	0.093	8	51	1.25	67	0.135	<20	2.35	0.01	0.15	<2	<0.05	<1	<5	<5	6
1318223	Soil	0.089	6	48	1.14	67	0.135	<20	2.14	0.01	0.14	<2	<0.05	<1	<5	<5	<5
1318224	Soil	0.085	7	45	1.07	66	0.112	<20	1.96	0.01	0.12	<2	<0.05	<1	<5	<5	<5
1318225	Soil	0.039	6	118	1.43	86	0.183	<20	1.89	0.03	0.12	<2	<0.05	<1	<5	<5	5
1318226	Soil	0.107	11	58	1.15	99	0.083	<20	1.96	0.02	0.10	<2	0.05	<1	<5	<5	6
1318227	Soil	0.087	8	69	1.02	157	0.119	<20	1.89	0.03	0.09	<2	<0.05	<1	<5	<5	<5
1319527	Soil	0.055	8	83	1.03	102	0.128	<20	2.07	0.03	0.05	<2	<0.05	<1	<5	<5	<5
1319528	Soil	0.052	10	74	1.06	122	0.127	<20	1.87	0.04	0.07	<2	<0.05	<1	<5	<5	5
1319529	Soil	0.081	10	96	1.21	81	0.123	<20	1.77	0.03	0.10	<2	<0.05	<1	<5	<5	<5
1319530	Soil	0.077	10	94	1.18	76	0.120	<20	1.72	0.03	0.10	<2	<0.05	<1	<5	<5	<5
1319531	Soil	0.050	9	97	1.11	69	0.128	<20	1.96	0.03	0.05	<2	<0.05	<1	<5	<5	5
1319532	Soil	0.038	10	89	1.16	86	0.153	<20	1.87	0.03	0.13	<2	<0.05	<1	<5	<5	6
1319533	Soil	0.045	10	86	1.09	95	0.117	<20	1.80	0.03	0.08	<2	<0.05	<1	<5	<5	<5
1319534	Soil	0.062	9	90	1.09	57	0.145	<20	1.76	0.03	0.14	<2	<0.05	<1	<5	<5	5
1319535	Soil	0.054	8	72	0.96	72	0.147	<20	1.74	0.03	0.17	<2	<0.05	<1	<5	<5	<5
1319536	Soil	0.094	10	70	1.09	124	0.103	<20	1.68	0.03	0.09	<2	<0.05	<1	<5	<5	<5
1319537	Soil	0.079	8	53	0.93	107	0.096	<20	1.30	0.03	0.14	<2	0.06	<1	<5	<5	<5
1319538	Soil	0.078	7	55	1.17	64	0.124	<20	1.69	0.02	0.11	<2	<0.05	<1	<5	<5	<5
1319539	Soil	0.056	7	41	0.87	65	0.108	<20	1.23	0.03	0.09	<2	0.09	<1	<5	<5	<5
1319540	Soil	0.055	6	41	0.89	65	0.109	<20	1.27	0.02	0.09	<2	0.09	<1	<5	<5	<5
1319541	Soil	0.083	7	45	0.88	52	0.102	<20	1.25	0.03	0.11	<2	0.10	<1	<5	<5	<5
1319542	Soil	0.049	5	36	0.86	87	0.092	<20	1.17	0.03	0.07	<2	0.08	<1	<5	<5	<5
1319543	Soil	0.046	6	76	1.09	51	0.143	<20	1.90	0.02	0.18	<2	<0.05	<1	<5	<5	5
1319544	Soil	0.074	8	48	1.17	53	0.128	<20	2.19	0.01	0.16	<2	<0.05	<1	<5	<5	5
1319545	Soil	0.082	7	50	1.23	67	0.128	<20	2.26	0.01	0.14	<2	<0.05	<1	<5	<5	6

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CERTIFICATE OF ANALYSIS WHI18000739.1

Method		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1319546	Soil	4	<3	<2	1	72	14	128	0.7	41	24	738	4.29	11	<2	51	0.6	<3	<3	64	1.55
1319547	Soil	6	<3	<2	<1	45	6	62	0.6	41	17	442	3.32	12	<2	34	<0.5	<3	<3	76	0.73
1319548	Soil	4	<3	<2	<1	47	5	52	0.5	52	17	370	3.50	12	<2	36	<0.5	<3	<3	84	1.00
1319549	Soil	6	5	30	<1	178	7	75	0.6	87	19	342	3.48	10	2	44	<0.5	<3	<3	72	1.03
1319550	Soil	7	5	31	<1	178	7	69	0.6	82	19	371	3.58	11	<2	43	<0.5	<3	<3	73	0.98
1319552	Soil	9	7	5	1	74	6	70	0.7	58	20	643	3.47	14	<2	45	<0.5	<3	<3	74	0.94
1319553	Soil	6	4	2	1	39	7	71	0.7	49	20	532	3.61	13	<2	39	<0.5	<3	<3	81	0.84
1319554	Soil	5	6	12	1	43	6	47	0.7	40	16	325	3.33	11	<2	39	<0.5	<3	<3	76	1.00
1319555	Soil	6	26	242	1	146	5	50	<0.3	37	13	399	2.87	9	<2	58	<0.5	<3	<3	85	1.87
1319556	Soil	5	5	6	1	40	5	60	0.5	39	18	454	3.70	12	<2	36	<0.5	<3	<3	84	0.69
1319557	Soil	6	3	<2	1	72	6	70	0.6	46	18	467	3.46	16	<2	53	<0.5	<3	<3	74	1.33
1319558	Soil	4	33	<2	<1	52	5	62	1.1	81	21	631	4.08	13	<2	34	<0.5	<3	<3	83	0.79
1319559	Soil	13	<3	7	<1	202	3	68	<0.3	172	30	764	4.89	9	<2	27	<0.5	<3	<3	125	1.00
1319560	Soil	7	8	6	<1	125	3	67	<0.3	131	28	706	4.80	11	<2	29	<0.5	<3	<3	116	0.99
1319561	Soil	5	6	49	<1	215	5	71	0.7	58	20	625	3.30	7	<2	50	<0.5	<3	<3	71	1.42
1319562	Soil	5	10	3	1	40	6	59	<0.3	56	20	481	3.71	13	<2	27	<0.5	<3	<3	85	0.72
1319563	Soil	11	4	5	<1	137	3	71	<0.3	126	31	736	4.86	13	<2	29	<0.5	<3	<3	118	1.12
1319564	Soil	9	4	7	<1	106	7	72	0.7	62	23	732	4.22	15	<2	97	<0.5	<3	<3	80	3.66
1319565	Soil	20	18	7	1	101	6	68	0.6	68	22	522	3.77	14	<2	52	<0.5	<3	<3	82	1.45
1319566	Soil	6	12	3	2	39	6	59	1.1	67	20	474	4.00	12	<2	29	<0.5	<3	<3	92	0.71
1319567	Soil	4	6	6	1	44	5	47	<0.3	38	16	381	3.58	12	<2	44	<0.5	<3	<3	84	0.87
1319568	Soil	7	<3	3	1	114	6	70	0.8	51	20	503	4.08	14	3	39	<0.5	<3	<3	87	0.79
1319569	Soil	5	<3	<2	1	50	8	76	0.6	68	20	556	3.91	15	<2	36	<0.5	<3	<3	83	0.74
1319570	Soil	7	<3	4	1	39	7	75	0.6	54	19	701	3.74	14	<2	37	<0.5	<3	<3	80	0.78
1319571	Soil	5	<3	4	1	68	7	80	0.6	55	20	626	3.72	14	<2	44	<0.5	<3	<3	78	0.83
1319572	Soil	6	9	6	1	84	7	81	0.6	60	22	611	3.67	16	<2	45	<0.5	<3	<3	79	0.91
1319573	Soil	6	7	57	1	176	6	70	0.6	103	17	644	3.83	10	<2	46	<0.5	<3	<3	75	1.14
1319574	Soil	7	3	7	1	100	10	131	0.5	48	26	832	4.43	13	<2	55	<0.5	<3	<3	64	1.74
1319575	Soil	5	5	3	1	66	10	101	0.5	34	19	684	4.23	11	<2	44	<0.5	<3	<3	64	1.22
1319576	Soil	6	<3	4	<1	59	7	184	<0.3	41	18	608	2.97	9	<2	82	1.1	<3	<3	54	2.07

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1319546	Soil	0.095	8	54	1.30	65	0.128	<20	2.37	0.01	0.15	<2	<0.05	<1	<5	<5	6
1319547	Soil	0.044	6	86	1.02	71	0.146	<20	1.79	0.02	0.10	<2	<0.05	<1	<5	<5	<5
1319548	Soil	0.023	11	117	1.17	71	0.174	<20	2.00	0.03	0.11	<2	<0.05	<1	<5	<5	6
1319549	Soil	0.045	12	70	0.98	118	0.118	<20	1.93	0.03	0.08	<2	<0.05	<1	<5	<5	5
1319550	Soil	0.051	12	69	0.99	111	0.117	<20	1.93	0.03	0.08	<2	<0.05	<1	<5	<5	5
1319552	Soil	0.057	12	63	1.09	71	0.129	<20	1.75	0.02	0.14	<2	<0.05	<1	<5	<5	5
1319553	Soil	0.066	9	71	1.04	109	0.137	<20	1.92	0.03	0.11	<2	<0.05	<1	<5	<5	5
1319554	Soil	0.030	8	78	1.02	97	0.138	<20	1.86	0.03	0.09	<2	<0.05	<1	<5	<5	<5
1319555	Soil	0.090	8	71	0.94	132	0.091	<20	1.59	0.04	0.08	<2	0.10	<1	<5	<5	<5
1319556	Soil	0.035	7	72	1.10	70	0.177	<20	2.08	0.03	0.13	<2	<0.05	<1	<5	<5	5
1319557	Soil	0.077	10	66	1.19	102	0.121	<20	1.90	0.03	0.10	<2	<0.05	<1	<5	<5	<5
1319558	Soil	0.025	6	112	1.44	58	0.247	<20	2.10	0.02	0.18	<2	<0.05	<1	<5	<5	5
1319559	Soil	0.027	6	245	2.34	58	0.568	<20	2.66	0.02	0.11	<2	<0.05	<1	<5	<5	7
1319560	Soil	0.026	5	200	2.09	61	0.489	<20	2.52	0.01	0.12	<2	<0.05	<1	<5	<5	6
1319561	Soil	0.083	7	112	1.36	81	0.178	<20	1.96	0.02	0.09	<2	<0.05	<1	<5	<5	<5
1319562	Soil	0.039	5	110	1.22	56	0.207	<20	1.96	0.02	0.12	<2	<0.05	<1	<5	<5	<5
1319563	Soil	0.021	5	289	2.30	60	0.490	<20	2.87	0.01	0.10	<2	<0.05	<1	<5	<5	6
1319564	Soil	0.044	9	86	1.57	120	0.165	<20	2.49	0.02	0.14	<2	<0.05	<1	<5	<5	6
1319565	Soil	0.058	9	109	1.44	82	0.192	<20	2.02	0.03	0.12	<2	<0.05	<1	<5	<5	6
1319566	Soil	0.019	5	123	1.39	42	0.267	<20	2.17	0.02	0.13	<2	<0.05	<1	<5	<5	<5
1319567	Soil	0.018	8	66	0.98	74	0.192	<20	1.98	0.03	0.13	<2	<0.05	<1	<5	<5	6
1319568	Soil	0.025	9	94	1.33	92	0.193	<20	2.20	0.03	0.07	<2	<0.05	<1	<5	<5	6
1319569	Soil	0.066	10	76	1.10	86	0.150	<20	2.10	0.02	0.12	<2	<0.05	<1	<5	<5	6
1319570	Soil	0.082	9	73	1.08	112	0.137	<20	1.97	0.02	0.13	<2	<0.05	<1	<5	<5	6
1319571	Soil	0.065	12	64	1.14	90	0.146	<20	1.94	0.03	0.10	<2	<0.05	<1	<5	<5	6
1319572	Soil	0.080	9	77	1.19	78	0.126	<20	1.85	0.02	0.17	<2	<0.05	<1	<5	<5	6
1319573	Soil	0.078	9	99	1.55	76	0.149	<20	1.96	0.02	0.10	<2	<0.05	<1	<5	<5	7
1319574	Soil	0.097	9	55	1.32	77	0.114	<20	2.35	0.01	0.14	<2	<0.05	<1	<5	<5	6
1319575	Soil	0.078	7	48	1.24	65	0.143	<20	2.32	0.01	0.13	<2	<0.05	<1	<5	<5	6
1319576	Soil	0.102	6	54	0.97	116	0.088	<20	1.53	0.02	0.21	<2	0.07	<1	<5	<5	<5

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Client: **Longford Exploration Services Ltd.**
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Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
1319577	Soil	5	<3	4	1	58	9	130	0.7	36	22	701	3.94	9	<2	45	0.6	<3	<3	63	1.34
1319578	Soil	6	3	3	<1	50	5	146	0.3	40	19	558	3.05	8	<2	52	0.9	<3	<3	62	1.23
1319579	Soil	14	8	13	<1	35	6	99	<0.3	26	16	508	2.67	6	<2	58	<0.5	<3	<3	49	1.56
1319580	Soil	24	7	16	<1	41	5	98	<0.3	29	17	562	2.67	6	<2	69	0.5	<3	<3	48	1.91
1319581	Soil	12	10	7	1	61	10	95	0.8	34	23	749	3.80	10	<2	57	<0.5	<3	<3	61	1.55
1319582	Soil	I.S.	I.S.	I.S.	<1	45	5	223	<0.3	35	18	550	2.73	6	<2	69	0.9	<3	<3	55	1.53
1319583	Soil	15	7	8	<1	40	6	79	0.5	32	20	566	2.81	10	<2	65	<0.5	<3	<3	60	1.24
1319584	Soil	12	6	6	<1	51	5	253	0.3	40	19	645	3.10	7	<2	51	1.5	<3	<3	60	1.31
1319585	Soil	I.S.	I.S.	I.S.	<1	41	7	73	0.5	36	19	628	3.46	9	<2	45	<0.5	<3	<3	61	1.06
1319586	Soil	I.S.	I.S.	I.S.	<1	35	5	70	<0.3	26	14	473	2.75	7	<2	56	<0.5	<3	<3	51	1.47
1319587	Soil	I.S.	I.S.	I.S.	1	50	8	90	0.4	29	19	670	3.57	9	<2	49	<0.5	<3	<3	56	1.29
1319588	Soil	13	19	14	1	45	4	62	<0.3	29	14	416	2.61	6	<2	83	<0.5	<3	<3	52	1.57

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Project: 2018-Pacer SE
Report Date: February 15, 2019

CERTIFICATE OF ANALYSIS WHI18000739.1

	Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1319577	Soil	0.080	7	48	1.14	58	0.125	<20	2.16	0.02	0.18	<2	<0.05	<1	<5	<5	5
1319578	Soil	0.130	8	59	0.91	88	0.096	<20	1.59	0.03	0.27	<2	<0.05	<1	<5	<5	<5
1319579	Soil	0.108	5	40	0.86	69	0.082	<20	1.41	0.02	0.16	<2	0.07	<1	<5	<5	<5
1319580	Soil	0.105	5	40	0.87	75	0.079	<20	1.37	0.02	0.19	<2	0.09	<1	<5	<5	<5
1319581	Soil	0.078	7	43	1.07	72	0.124	<20	2.09	0.02	0.17	<2	<0.05	<1	<5	<5	5
1319582	Soil	0.118	7	50	0.90	91	0.091	<20	1.44	0.03	0.21	<2	<0.05	<1	<5	<5	<5
1319583	Soil	0.070	8	49	0.84	66	0.111	<20	1.43	0.03	0.20	<2	<0.05	<1	<5	<5	<5
1319584	Soil	0.135	8	57	0.97	90	0.099	<20	1.62	0.03	0.19	<2	<0.05	<1	<5	<5	<5
1319585	Soil	0.080	7	53	1.06	69	0.116	<20	1.80	0.02	0.19	<2	<0.05	<1	<5	<5	<5
1319586	Soil	0.091	6	39	0.88	70	0.096	<20	1.53	0.02	0.16	<2	0.05	<1	<5	<5	<5
1319587	Soil	0.069	7	42	1.03	66	0.110	<20	1.90	0.01	0.16	<2	<0.05	<1	<5	<5	<5
1319588	Soil	0.077	7	41	0.82	64	0.089	<20	1.39	0.02	0.13	<2	0.07	<1	<5	<5	<5

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Project: 2018-Pacer SE

Report Date: February 15, 2019

QUALITY CONTROL REPORT WHI18000739.1

	Method	FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
1318053	Soil	5	3	4	<1	41	5	70	0.5	40	19	527	3.59	12	3	50	<0.5	<3	<3	80	1.10
REP 1318053	QC				<1	39	6	66	0.6	38	18	504	3.43	12	3	46	<0.5	<3	<3	77	1.05
1318110	Soil	8	<3	6	1	32	6	73	0.5	37	16	361	3.37	12	3	36	<0.5	<3	<3	70	0.82
REP 1318110	QC	9	<3	7																	
1318127	Soil	6	<3	4	2	82	11	112	0.5	39	26	866	4.42	12	<2	38	<0.5	<3	<3	63	1.15
REP 1318127	QC				2	84	11	115	0.5	40	26	891	4.53	12	<2	38	<0.5	<3	<3	65	1.19
1318145	Soil	5	<3	<2	1	58	9	109	0.5	32	20	709	4.00	9	<2	52	<0.5	<3	<3	65	1.49
REP 1318145	QC	7	6	<2																	
1318201	Soil	5	<3	3	2	76	8	82	0.5	48	23	613	4.32	15	<2	35	<0.5	<3	<3	98	0.69
REP 1318201	QC				2	76	8	82	0.6	47	23	615	4.33	15	<2	34	<0.5	<3	<3	97	0.69
1318218	Soil	5	<3	4	2	63	10	98	0.5	37	21	746	4.22	11	<2	45	<0.5	<3	<3	67	1.33
REP 1318218	QC	7	<3	5																	
1319536	Soil	10	<3	3	<1	64	5	77	<0.3	43	16	575	3.18	11	<2	54	<0.5	<3	<3	68	1.55
REP 1319536	QC				<1	64	5	80	<0.3	44	17	591	3.25	11	<2	55	<0.5	<3	<3	70	1.60
1319553	Soil	6	4	2	1	39	7	71	0.7	49	20	532	3.61	13	<2	39	<0.5	<3	<3	81	0.84
REP 1319553	QC	10	<3	<2																	
1319573	Soil	6	7	57	1	176	6	70	0.6	103	17	644	3.83	10	<2	46	<0.5	<3	<3	75	1.14
REP 1319573	QC				1	181	7	72	0.5	112	18	661	3.92	10	<2	47	<0.5	<3	<3	77	1.16
1319584	Soil	12	6	6	<1	51	5	253	0.3	40	19	645	3.10	7	<2	51	1.5	<3	<3	60	1.31
REP 1319584	QC	16	17	11																	
Reference Materials																					
STD DS11	Standard				14	148	135	351	1.9	77	14	1023	3.08	43	8	62	2.4	7	12	50	1.04
STD DS11	Standard				14	151	142	369	1.7	78	14	1066	3.21	48	8	66	2.5	8	12	50	1.11
STD DS11	Standard				14	150	136	362	1.7	77	13	1041	3.19	42	9	66	2.3	7	13	50	1.09
STD DS11	Standard				15	147	136	347	1.7	76	13	1028	3.11	44	9	65	2.2	7	11	49	1.06
STD DS11	Standard				15	152	138	365	1.8	79	13	1037	3.13	43	8	65	2.4	10	12	50	1.09
STD OREAS45EA	Standard				3	738	13	34	0.6	413	53	422	24.54	12	12	4	<0.5	<3	<3	331	0.03
STD OREAS45EA	Standard				3	716	10	32	0.4	382	50	411	24.13	11	11	3	<0.5	<3	<3	311	0.03

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Longford Exploration Services Ltd.**
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Project: 2018-Pacer SE
Report Date: February 15, 2019

QUALITY CONTROL REPORT WHI18000739.1

Method		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates																	
1318053	Soil	0.108	9	67	1.07	117	0.128	<20	1.94	0.02	0.11	<2	<0.05	<1	<5	<5	5
REP 1318053	QC	0.103	9	67	1.02	110	0.120	<20	1.86	0.02	0.11	<2	<0.05	<1	<5	<5	5
1318110	Soil	0.089	9	63	0.96	100	0.114	<20	1.81	0.02	0.09	<2	<0.05	<1	<5	<5	<5
REP 1318110	QC																
1318127	Soil	0.085	8	46	1.27	53	0.135	<20	2.40	<0.01	0.16	<2	<0.05	<1	<5	<5	6
REP 1318127	QC	0.088	8	47	1.30	54	0.142	<20	2.50	<0.01	0.16	<2	<0.05	<1	<5	<5	6
1318145	Soil	0.079	6	45	1.18	69	0.156	<20	2.25	<0.01	0.17	<2	0.05	<1	<5	<5	5
REP 1318145	QC																
1318201	Soil	0.066	11	85	1.21	109	0.160	<20	2.60	0.02	0.08	<2	<0.05	<1	<5	<5	6
REP 1318201	QC	0.066	10	83	1.21	111	0.155	<20	2.57	0.02	0.08	<2	<0.05	<1	<5	<5	6
1318218	Soil	0.081	6	48	1.22	69	0.146	<20	2.34	0.01	0.17	<2	<0.05	<1	<5	<5	6
REP 1318218	QC																
1319536	Soil	0.094	10	70	1.09	124	0.103	<20	1.68	0.03	0.09	<2	<0.05	<1	<5	<5	<5
REP 1319536	QC	0.095	11	73	1.13	127	0.106	<20	1.73	0.04	0.10	<2	<0.05	<1	<5	<5	<5
1319553	Soil	0.066	9	71	1.04	109	0.137	<20	1.92	0.03	0.11	<2	<0.05	<1	<5	<5	5
REP 1319553	QC																
1319573	Soil	0.078	9	99	1.55	76	0.149	<20	1.96	0.02	0.10	<2	<0.05	<1	<5	<5	7
REP 1319573	QC	0.076	9	101	1.58	77	0.151	<20	2.00	0.02	0.10	<2	<0.05	<1	<5	<5	7
1319584	Soil	0.135	8	57	0.97	90	0.099	<20	1.62	0.03	0.19	<2	<0.05	<1	<5	<5	<5
REP 1319584	QC																
Reference Materials																	
STD DS11	Standard	0.067	17	65	0.82	357	0.093	<20	1.13	0.07	0.40	3	0.28	<1	5	<5	<5
STD DS11	Standard	0.071	18	62	0.86	402	0.098	<20	1.20	0.08	0.42	3	0.31	<1	5	<5	<5
STD DS11	Standard	0.067	19	64	0.84	401	0.102	<20	1.21	0.07	0.41	2	0.28	<1	6	<5	<5
STD DS11	Standard	0.067	18	65	0.83	399	0.094	<20	1.16	0.08	0.40	2	0.28	<1	6	<5	<5
STD DS11	Standard	0.070	18	64	0.84	400	0.096	<20	1.17	0.08	0.41	2	0.29	<1	5	<5	<5
STD OREAS45EA	Standard	0.032	9	994	0.11	159	0.114	<20	3.74	0.02	0.06	<2	<0.05	<1	<5	16	91
STD OREAS45EA	Standard	0.030	9	927	0.10	151	0.108	<20	3.52	0.02	0.06	<2	<0.05	<1	<5	14	86

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Project: 2018-Pacer SE
Report Date: February 15, 2019

QUALITY CONTROL REPORT WHI18000739.1

		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
STD OREAS45EA	Standard				3	734	15	34	0.6	400	52	417	23.80	12	11	4	<0.5	<3	<3	322	0.03
STD OREAS45EA	Standard				3	702	12	32	0.5	384	50	405	23.83	13	10	4	<0.5	<3	<3	310	0.03
STD OREAS45EA	Standard				3	689	13	31	0.5	381	49	394	22.26	12	9	4	<0.5	<3	<3	306	0.03
STD PD05	Standard	492	436	607																	
STD PD05	Standard	527	441	634																	
STD PD05	Standard	513	423	614																	
STD PD05	Standard	503	430	609																	
STD PD05	Standard	503	427	614																	
STD PD05	Standard	490	426	615																	
STD PD05	Standard	521	444	628																	
STD PG04	Standard	971	880	1274																	
STD PG04	Standard	979	904	1222																	
STD PG04	Standard	1024	945	1254																	
STD PG04	Standard	1019	948	1268																	
STD PG04	Standard	946	882	1190																	
STD PG04	Standard	948	883	1159																	
STD OREAS45EA Expected					1.6	709	14.3	31.4	0.26	381	52	400	22.65	11	10.7	4.05				303	0.036
STD DS11 Expected					13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063
STD PD05 Expected		519	430	596																	
STD PG04 Expected		1004	903	1196																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank	3	<3	<2																	
BLK	Blank	2	<3	<2																	
BLK	Blank	3	<3	<2																	
BLK	Blank	2	<3	<2																	

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QUALITY CONTROL REPORT WHI18000739.1

		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
STD OREAS45EA	Standard	0.031	9	970	0.11	155	0.114	<20	3.67	0.02	0.06	<2	<0.05	<1	<5	<5	88
STD OREAS45EA	Standard	0.030	8	933	0.10	149	0.106	<20	3.52	0.03	0.06	<2	<0.05	<1	<5	<5	85
STD OREAS45EA	Standard	0.029	8	923	0.10	146	0.104	<20	3.44	0.03	0.06	<2	<0.05	<1	<5	<5	83
STD PD05	Standard																
STD PD05	Standard																
STD PD05	Standard																
STD PD05	Standard																
STD PD05	Standard																
STD PD05	Standard																
STD PD05	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD PG04	Standard																
STD OREAS45EA Expected		0.029	7.06	849	0.095	148	0.0984		3.32	0.02	0.053		0.036			12.4	78
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1
STD PD05 Expected																	
STD PG04 Expected																	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank																
BLK	Blank																
BLK	Blank																
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		FA330	FA330	FA330	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
BLK	Blank	4	<3	<2																	
BLK	Blank	3	<3	2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	2	<3	<2																	
BLK	Blank	<2	<3	<2																	
BLK	Blank	3	<3	2																	
BLK	Blank	2	4	5																	
BLK	Blank	3	<3	<2																	
BLK	Blank	3	<3	<2																	

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		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
BLK	Blank																
BLK	Blank																
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