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BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Diamond Drill Hole Logging of 2007-2008 Program **TOTAL COST:** $71,370.63

AUTHOR(S): James K. Ryley, B.A. Geol **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): **YEAR OF WORK:** 2011

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5156755

PROPERTY NAME: McFarlane

CLAIM NAME(S) (on which the work was done): 513555, 513175

COMMODITIES SOUGHT: Molybdenum, Tungsten

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Ft.Steele **NTS/BCGS:** 82F10/E

LATITUDE: 49 ° 35 '0.3 " **LONGITUDE:** 116 ° 46 '18 " **(at centre of work)**

OWNER(S):
1) Jasper Mining Corporation Ltd. 2)

MAILING ADDRESS:
Suite 500, 888-4th Ave SW Calgary, Alberta, T2P 0V2

OPERATOR(S) [who paid for the work]:
1) Jasper Mining Corporation Ltd. 2)

MAILING ADDRESS:
Suite 500, 888-4th Ave SW Calgary, Alberta, T2P 0V2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Phyllite, quartz monzonite, Cretaceous, Proterozoic, Horsethief Creek Group, Crawford Stock, vein-related, potassic, propyllitic, muscovite, molybdenum, tungsten, north trending, moderate to subvertical

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: AR28909, AR30727

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock			
Other Drill Core		513555, 513175	14424.50
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$71,370.63

2011 ASSESSMENT REPORT

VOLUME 1 - REPORT

ON THE

McFarlane Property
Diamond Drill Hole Logging
of
2007-2008 Diamond Drill Holes

Ft. Steele Mining District
Mapsheet 82F10E
Center of Work
Latitude 49° 35' N, Longitude 116°44' W

Prepared for: Jasper Mining Corporation
Suite 501, 888-4th Ave S.W.
Calgary, Alberta
T2P 0V2

By

James Ryley, B.A. Geol
TerraLogic Exploration Inc.
Suite 200, 44-12th Avenue South
Cranbrook, B.C.
V1C 2R7

Date
November 09, 2011

Summary

TerraLogic Exploration Inc. was commissioned by Jasper Mining Ltd. in the spring of 2011 to log and sample specific diamond drill holes from the 2007-2008 diamond drill program on the McFarlane property in southeastern British Columbia. This report includes detailed drill hole logs, drill core sample analytical results, plan and section maps, and the related expenditures.

The bulk of this report not related to the 2011TerraLogic Exploration Inc. work is from the January 16th, 2009 Assessment Report #30727 'McFarlane/Lydy Property, Soils IP Survey and Diamond Drilling' for Jasper Mining Corporation, written by Richard T. Walker of Dynamic Exploration Ltd. The summary reference is italicized. Certain portions have been removed for brevity.

The McFarlane and Lydy properties are located immediately east of Kootenay Lake in southeastern Britsh Columbia. The McFarlane property comprises a total of 3,057.84 ha (7,556 acres), consisting of 8 Mineral Tenure Online (MTO) Mineral Tenures. The Lydy property is immediately adjacent and contiguous to the east and comprises 1,201.52 ha (2,969.01 acres) over 10 MTO tenures. Access is available along the relatively well maintained Grey Creek Pass Forest Service Road for a total of approximately 75 km west from Cranbrook. Access is also available to the western portion of the property along Anderson Road, south of the Grey Creek Pass Forest Service Road. Several clear cuts are present on the property, together with a number of old logging roads which provide good access to both the eastern and western portions of the property. Active logging can be expected by Wynndel Box and Lumber north of McFarlane Creek.

The claims acquired are located along the eastern edge of a prominent aeromagnetic anomaly associated with the Crawford Stock, a biotite granite intrusion of Cretaceous age correlated to the Bayonne Magmatic Belt. Felsic intrusive lithologies correlated to the Bayonne Magmatic Suite typically have a prominent magnetic signature, either associated with the intrusion or as a halo in the immediately surrounding host rocks. Recent work on the Mount Skelly Pluton, interpreted as a model for the McFarlane property, has distinguished a three phase intrusive complex that consists of fine- to coarse-grained granites correlated to the Cretaceous Bayonne Magmatic Suite. Near contacts with sedimentary strata, the granite appears to be both finer grained and perhaps more mafic, having a darker colour. In addition, there are more xenoliths of (an) earlier phase(s) of intrusive material and rounded sedimentary inclusions. Phenocrysts of alkali feldspar are present, ranging in size from less than a centimetre to approximately 2 centimetres in diameter, within a matrix of plagioclase feldspar, quartz and biotite ± hornblende. The granite has local iron-stained veins with variable amounts of iron sulphide, predominantly as pyrite. The veins appear to occupy apparent discontinuous brittle shear zones which trend essentially north-south (± 20°). The Mount Skelly Pluton (Complex) comprises the exploration model for the properties comprising Jasper Mining Corporation's Cretaceous Granite Project. Anomalous molybdenum, copper, lead, zinc and limited tungsten anomalies have been identified between McFarlane and Birkbeck creeks in a number of programs by different operators since 1979.

The 2008 program included continued soil sampling, a small IP survey and further diamond drilling. Soil sampling consisted of collection of a total of 1,018 samples from infill contour lines over the joint McFarlane / Lydy property. In addition, a short Induced Potential (IP) ground geophysical survey was completed on the McFarlane property. An extensive diamond drill program was completed to test the potential of narrow, high grade molybdenite-bearing veins. A total of 76 NQ holes were completed from multiple pads over the western portion of the McFarlane property in the immediate vicinity to two adits exposing locally high grade molybdenite hosted in relatively thick quartz veins. The 2007 - 08 diamond drill programtotaled 14,587.29 m All drill core samples were submitted to Acme Analytical

Laboratories for processing using R80 preparation and 39 element Group 1DX (ICP) analysis.

The January 2009 R. Walker report was presented as an interim report, filed to cover assessment expenditures did not include the drill hole logging and sampling of a significant number of drill holes.

Walker concluded that a complete report would be forthcoming with core descriptions and analytical results. This report details the results of 17 drill holes, three of which are from the 2007 drill program, and 14 from the 2008 drill campaign.

To this author's knowledge a report including all the data from the 2007-2008 drilll campaign has not been prepared or previously filed.

Table of Contents

List of Figures

List of Tables

List Of Appendices

INTRODUCTION

This report details the geological and geochemical results for seventeen of the 76 NQ holes from the 2007-2008 diamond drill program by Jasper Mining Corporation. The selection of drill holes was through the direction of Mr. Gordon Dixon,Q.C., President and CEO of Jasper Mining Corporation. The selected drill holes were logged and sampled at the TerraLogic Exploration Inc. core facility in Cranbrook, B.C. Logging and sampling occurred during the month of June. David l. Pighin, P. Geo, logged the drill holes, and outlined the intervals to be sampled. Sample selection was based on alteration and associated molybdenum mineralization with the exception of MF08-30 which was sampled in entirety due to the presence of disseminated mineralization. Robert Jordan, geological technician for TerraLogic Exploration Inc. completed geotechnical analysis of the core, including core recovery, as well as sample preparation and collection under the direct supervision of David Pighin, P.Geo.

Samples were sent to Acme Analytical Ltd. of Vancouver, B.C. for analyses. The analytical method used consisted of code 1DO1-32 element ICP-ES and G601 FA-AAS. Standards were inserted every 20th sample with blanks inserted every 40th.

The author coordinated the sampling and logging program, monitored the progress and periodically reported directly to Gordon Dixon, CEO, of Jasper Mining Corporation.

Location and Access

The McFarlane claims are located near the eastern edge of Kootenay Lake in southeastern Britsh Columbia. The McFarlane property comprises a total of 3,057.84 ha (7,556 acres), consisting of 8 Mineral Tenure Online (MTO) Mineral Tenures. Jasper Mining Corporation also hold the contiguous Lydy claims to the east.

Access to the western edge of the property is gained along the Kootenay Lake Shore road approximately 65 km northeast from Creston, then east along the Grey Creek Pass Forestry Service Road. The eastern edge is accessible from Cranbrook, traveling to Marysville then northwest along the St. Mary-Redding Ck-Baker Ck. FSR to the Grey Creek Pass summit. One then descends west to the eastern edge of the claim block.

Access to the south-central portion of the property is available by turning right approximately 1 km up the Gray Creek Road on Jasper Road and following the logging road south across Birkbeck Creek. This road provides access to the area between Birkbeck and McFarlane Creeks. Road access to the area south of McFarlane Creek, immediately east of Kootenay Lake is available to access private lands held by Tembec Industries. All roads are negotiable using a 2WD vehicle although 4WD is recommended for better clearance.

Physiography and Climate

The McFarlane property is located between Kootenay Lake and Grey Creek Pass, on the east side of Kootenay Lake. Relief in the area varies from 680 metres (2,230 feet) along the western slopes above Kootenay Lake to approximately 2,360 metres (7,745 feet) on the eastern edge of the property. Vegetation in the area consists predominantly of coniferous, with deciduous trees preferentially located

along the creeks bottoms. Undergrowth consists largely of small deciduous shrubs.

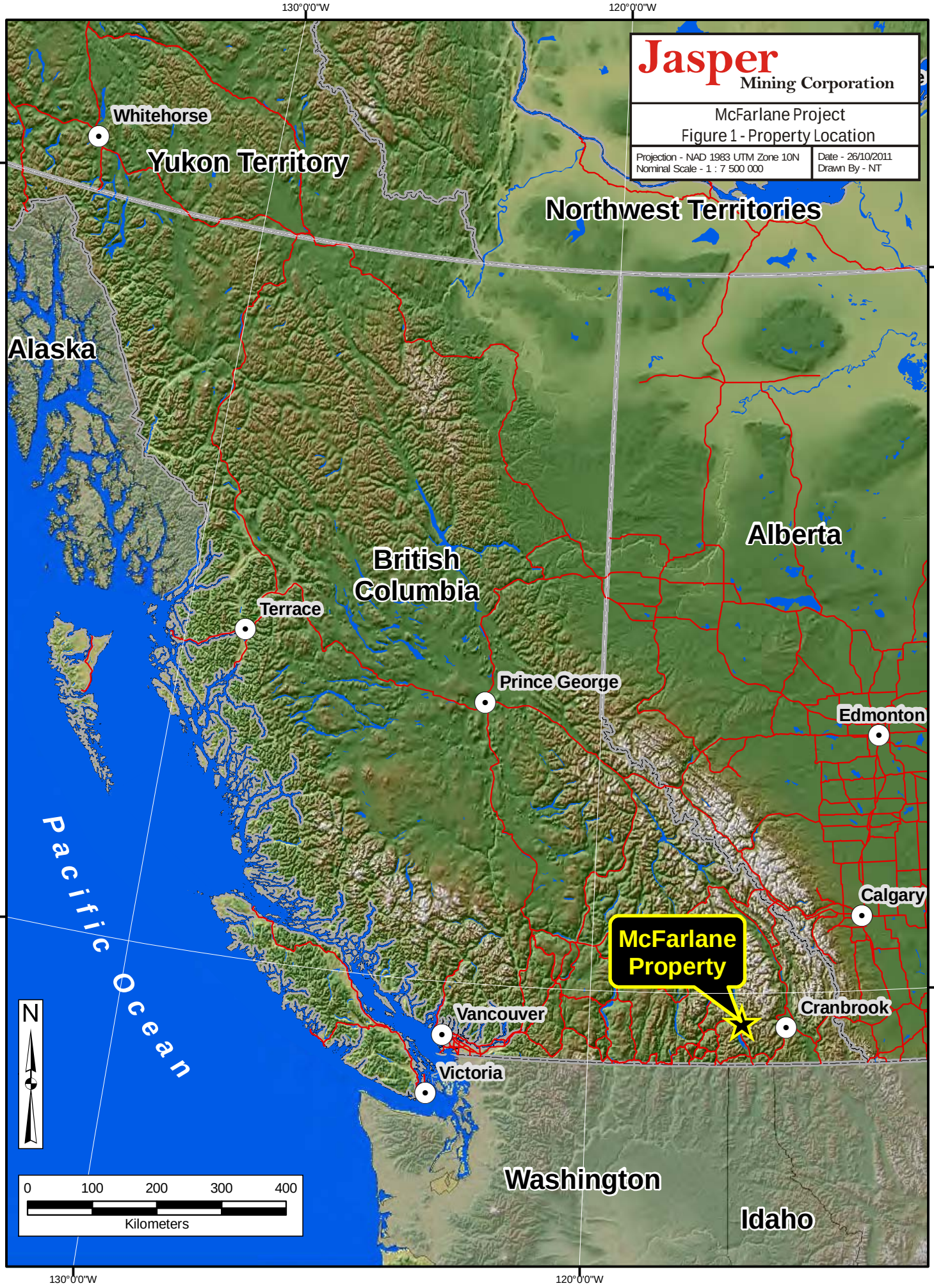
The claims are located east of Kootenay Lake in a regional topographic high, comprising the local drainage divide, and are therefore subject to heavier precipitation. As a result, the region is characterized by heavy snowfall during the winter months. The property is available for vehicle based, geological exploration from June to late October.

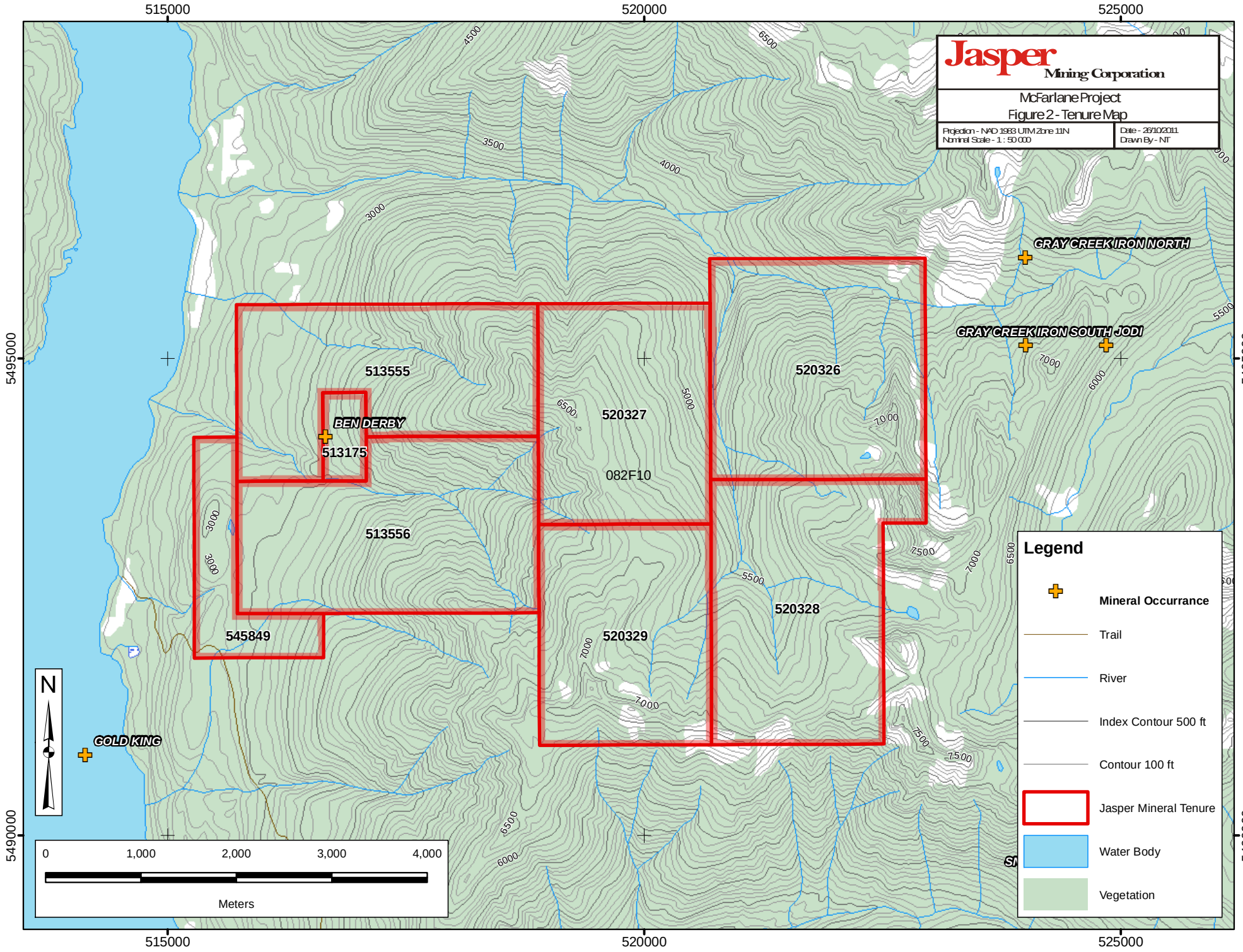
Tenure

The contiguous property tenure consists of a total of 18 Mineral Tenure Online (MTO) Mineral Tenures. Eight of these comprise the McFarlane property and ten comprise the Lydy property. Enclosed within and comprising the McFarlane property is the Ben Derby claim block. Tenure relative to work put forth here is within the McFarlane property.

Table 1 – Tenure Summary

Tenure Number	Tenure Name	Good To Date	Area(ha)
513175	BEN DERBY	2018 / SEP / 22	41.88
520326	MCFARLANE	2018 / SEP / 22	523.53
520327	MCFARLANE 2	2018 / SEP / 22	418.85
520328	MCFARLANE 3	2018 / SEP / 22	523.72
520329	MCFARLANE 4	2017 / SEP / 22	418.99
513555	MCFARLANE NORTH	2018 / SEP / 22	460.64
513556	MCFARLANE SOUTH	2017 / SEP / 22	523.63
545849	MCFARLANE 5	2018 / SEP / 22	146.61


Jasper
Mining Corporation
McFarlane Project
Figure 1 - Property Location
Projection - NAD 1983 UTM Zone 10N
Nominal Scale - 1 : 7 500 000
Date - 26/10/2011
Drawn By - NT
130°0'0"W
120°0'0"W
60°0'0"N
50°0'0"N
Whitehorse
Yukon Territory
Northwest Territories
Alaska
British Columbia
Alberta
Terrace
Prince George
Edmonton
Calgary
McFarlane Property
Vancouver
Victoria
Cranbrook
Pacific Ocean
Washington
Idaho
N
0 100 200 300 400
Kilometers


Jasper
Mining Corporation
McFarlane Project
Figure 2 - Tenure Map
Projection - NAD 1983 UTM Zone 11N
Nominal Scale - 1 : 50 000
Date - 26/10/2011
Drawn By - NT
515000
520000
525000
5495000
5490000
513555
513556
513175
520326
520327
520328
520329
545849
082F10
BEN DERBY
GRAY CREEK IRON NORTH
GRAY CREEK IRON SOUTH JODI
GOLD KING
N
0
1,000
2,000
3,000
4,000
Meters
Legend
Mineral Occurrance
Trail
River
Index Contour 500 ft
Contour 100 ft
Jasper Mineral Tenure
Water Body
Vegetation

History and Previous Work

The area currently underlying the MCFARLANE property was evaluated as the FORD, MOLY and GREY claims by previous operators. A brief summary of these programs follows:

1916 - 1919 - two adits driven on easterly striking quartz veins with disseminated molybdenite and pyrite.

1966 - 1969 - Soil sampling, trenching and diamond drilling on Benderby Claims by United Fortune Mines Ltd.

1979 - 23 km line cutting, soil sampling (460 samples) on Moly Claims by Dekalb Mining Corporation

1980 - Soil sampling (337 soil, 4 silt samples) and geological mapping by Cominco Ltd.

1981 - Dekalb Mining Corporation completed 12 km line cutting, 330 soil samples, 20.5 line km of IP survey, 1:5,000 scale geological mapping and diamond drilling (9 holes ≤125 m deep).
- identification of surface soil anomalies for molybdenum, copper, lead, zinc and limited tungsten between Mcfarlane and Birkbeck creeks resulted in diamond drilling, which returned anomalous molybdenum values, including:

Hole	From(m)	To(m)	Mo(ppm)	Interval(m)
DK - 81 - 2	34.14	35.66	2060	1.5
DK - 81 - 7	42.37	43.13	2336	0.76
DK - 81 - 8	102.87	103.94	1991	1.07
DK - 81 - 9	27.43	28.65	8000	1.22

The best hole was DK - 81 - 9, in which a 12 m interval from 26.52 to 38.40 returned an average grade of 1,200 ppm (0.12%) Mo. Molybdenum mineralization is reportedly hosted by quartz veins between 1 and 100 cm thick which are most abundant along the "... eastern contact of the main quartz monzonite intrusion ...". A total of ten diamond drill holes were completed in the 1981 program to test surface geochemical and/or geophysical (Induced polarization) anomalies.

1987 - time domain IP survey on Ford Property for Amarado Resources Limited.
- recommended 6 drill holes to test resulting anomalies

2005 - Property acquired by Jasper Mining Corporation. Preliminary soil program comprised of 300 samples taken along existing road network.

2006 - soil sampling (road and contours; 188 samples), diamond drilling (7 BTW size holes from three separate pads, totaling 1,822.77 metres) and an Aeroquest International airborne geophysical survey of entire property (455.8 line km (flown jointly with the Lydy property)

or 40.2 km2). The survey included magnetic, electromagnetic (EM) and radiometric data.
- acquisition of the Ben Derby MTO Mineral Tenure

GEOLOGY

Regional Geology

The only previous regional mapping undertaken pertaining to the general area of the MCFARLANE claims was that of Reesor (1993) for the east side of Kootenay Lake. The stratigraphy of the Windermere Supergroup (in the Toby Creek area to the north) has been well described by Pope (1990).

Stratigraphy

Proterozoic Windermere Supergroup
Horsethief Creek Group
The Toby Formation is gradational into the overlying Horsethief Creek Formation, in which five lithofacies have been identified. These lithofacies define a rudimentary stratigraphy of facies within the Horsethief Creek Formation as individual lithological units are inconsistent due to rapid lateral thickness and facies variations.

The lithofacies identified in the Horsethief Creek Formation are as follows:

a) siltstone-argillite - dominant in the lower half of the Horsethief Creek Formation and separate the remaining lithofacies throughout the formation. This lithofacies consists of thick sequences of thin bedded (1 to 10 cm), graded siltstone and argillite and finely laminated (1 to 5 mm), black, green and grey argillite.

b) black carbonate - an easily traced marker used to identify and map the base of the Horsethief Creek Formation consisting of thin bedded (5 to 20 cm), dark grey to black limestone, with variable quartz sand and silt in a calcitic matrix, and thin calcareous quartz-arenite beds.

c) dolomite - buff weathering dolomite, up to 30 metres thick, dolomite pebble-conglomerate beds and dolomite supported quartzite occur throughout the Horsethief Creek Formation.

d) quartz feldspar arenites and pebble conglomerates - consist of pebble conglomerates comprised of grain-supported, moderately sorted crystalline quartz and quartz feldspar clasts with variable red jasper, green to grey argillite, quartzite and dolomite clasts in a quartz, feldspar, carbonate, sericite and chlorite matrix. Clasts are generally 1 to 2 centimetres in diameter but may exceed 10 centimetres in length. Coarse arenite beds are similar to the pebble conglomerates but have a greater proportion of matrix and are generally poorly sorted.

e) red and varicoloured argillites - are present at the top of the Horsethief Creek Formation and consist of variably coloured argillites with interbedded pink carbonate, and varicoloured impure arenites (Pope 1990).

Mesozoic
Granitic Intrusions
Cretaceous intrusives of broadly “granitic” composition are present in a belt extending from the westernmost Rocky Mountains to Kootenay Lake, northward to the Baldy Batholith. Intrusions range from small dykes and sills to larger intrusive complexes such as the Mt. Skelly Batholith and are

collectively referred to as the Bayonne Magmatic Belt (or Suite) (Logan 2002).

"Intrusive rocks ... include a number of small post kinematic mesozonal quartz monzonite, monzonite and syenitic plutons, numerous small quartz monzonite to syenite dikes and sills probably related to these stocks, and late mafic dikes. The Kiakho and Reade Lake stocks, two of the larger of the mesozonal plutons, cut across and apparently seal two prominent east-trending faults that transect the eastern flank of the Purcell anticlinorium, and hence place constraints on the timing of latest movement on these faults.

The Kiakho stock is exposed on the heavily wooded slopes of Kiakho Creek approximately 10 kilometres (west-southwest) ... of Cranbrook ... Exposures consist mainly of large, fresh angular boulders of boulder fields. Although contacts with country rock were not observed, regional mapping indicates that it intrudes clastic rocks of the Aldridge and Creston formations. The distribution of outcrops and a pronounced aeromagnetic anomaly indicate that it cuts the east-trending Cranbrook normal fault with no apparent offset.

The Kiakho stock is similar to the Reade Lake stock with the dominant phase being a light grey, medium-grained quartz monzonite. It is generally equigranular but grades into a hypidiomorphic granular porphyritic phase with prominent plagioclase and light grey to flesh-coloured potassic feldspar phenocrysts; both are up to several centimetres in diameter in a granular groundmass of white subhedral plagioclase, light grey potassic feldspar, quartz and black hornblende" (Höy 1993).

The Bayonne Granitic Suite is a composite batholith comprised of a number of smaller Jurassic to Cretaceous age granitoid stocks and plutons which extends from near the International Boundary across Kootenay Lake. On the east side of the Kootenay Lake, the Bayonne Granitic Suite locally includes the Mount Skelly Pluton, a biotite (hornblende) monzogranite with megacrysts of potassium feldspar (Reesor 1996). Rice (1941) grouped these granitoids under the broad heading of the Bayonne Batholith, as described below.

"The Bayonne batholith varies in composition from a granite to a calcic granodiorite; the average composition is that of a fairly alkaline granodiorite. ... Much of the rock has an equigranular texture, but a porphyritic phase occurs in many places, at some of which phenocrysts of potash feldspar 2 or 3 inches long are present. The potash feldspar may be orthoclase or microcline and in some specimens both occur. The plagioclase is oligoclase, generally well twinned and frequently in zoned crystals. Dark brown biotite is the only ferromagnesian mineral abundant, but grains of hornblende occur in rare instances. The usual accessories are present. Sericite and epidote are the most common secondary minerals, but neither occur in significant amounts except where the rock has been altered. A marked feature of the Bayonne batholith is its highly variable nature. This is observable not only in the range of composition but in the appearance of the rock. Coarse-grained and fine-grained, porphyritic and non-porphyritic, pink and light or dark grey phases may occur in a single exposure, in some places in streaks and patches. Masses of pegmatite and dykes of pegmatite and aplite occur everywhere. Some of the pegmatite dykes are over 100 feet wide. A few large crystals of bluegreen beryl, pink garnet, magnetite, and a little black tourmaline were seen in these pegmatites.

Large inclusions of granitized sediments are locally abundant. ... These inclusions vary in size from a foot to some hundreds of feet. Alteration is severe, but the sedimentary nature of the original rock is, in most cases, still recognizable and the boundary between the granite and the inclusion is generally fairly sharp. Other inclusions or zenoliths (sic.) from a few inches to a foot long also occur, which can readily

be distinguished from the first type mentioned.

They parallel one another, are darker coloured, their original texture and composition has been more or less completely altered, they are fairly uniform in size, and they usually grade imperceptibly into the granite. They are more widely distributed, indeed very few exposures of any size were examined that did not contain some of these zenoliths (sic.), and in places they are extremely abundant. The zenoliths (sic.) are often most common in the porphyritic phases and scarcer in the non-porphyritic phases of the granite ...". Cretaceous intrusions interpreted to underlie the properties comprising the Cretaceous Granitic Project are interpreted to be exemplified by the Mount Skelly Pluton, located southwest of the Baribeau property along the east shore of Kootenay Lake. Recently there has been limited mapping undertaken on the pluton as part of a regional study of the Bayonne Magmatic Belt (Logan 2002), with local sampling and mapping of the Mount Skelly Pluton and Sanca Stock (Lett et al. 2000, Logan and Mann 2000).

Mount Skelly Pluton / Sanca Stock

The dominant lithology comprising the Mount Skelly Pluton is that of a biotite granite. In areas proximal to the mapped contact between the pluton and host sediments, the grain size is slightly reduced to that of a medium- to coarse-grained granite. At low to middle elevations along the eastern portion of Sanca Creek, the granite assumes a porphyritic texture due to the presence of megacrystic alkali feldspar phenocrysts. Individual, equant crystals of white to pinkish alkali feldspar phenocrysts up to 2 cm in diameter were noted in a finer grained matrix of medium- to coarse-grained white plagioclase and biotite ± hornblende. Xenoliths are rare to absent at deeper levels within the pluton, becoming more abundant and larger both at higher elevations and along Sanca Creek to the west. Xenoliths are predominantly sedimentary, however, inclusions of finer grained, more mafic granite were noted and may have been derived from an earlier phase of the intrusion or a separate, deeper intrusion altogether.

Recent mapping and geochronology by Logan and Mann (2000) have resolved the granite exposures of the Sanca Creek area into three separate phases, specifically, the Mount Skelly Pluton and the Sanca Stock. The Mount Skelly Pluton is further sub-divided into:

1) Granite - "Fine to medium grained, equigranular biotite monzogranite. Minor aphanitic, leucocratic phases and dikes", and

2) Granodiorite - "Coarse grained biotite-hornblende granodiorite. Common euhedral megacrystic potassium feldspar and mafic (hornblende-biotite-titanite-rich) inclusions. Biotite, K-AR dates of 97.1 to 98.7 Ma

The younger Sanca Stock is described as a "Medium to coarse grained biotite granodiorite. Characteristic coarse, sub-rounded violet to grey quartz crystal aggregates. Biotite, K-Ar dates of 78.9 to 80.9 Ma". Therefore, the granites of the Sanca Creek area can be differentiated into three phases, the older Mount Skelly Pluton (at 97.1 to 98.7 Ma) and the younger Sanca Creek Stock (at 78.9 to 80.9 Ma).

Structure

Four major phases of deformation have been identified in the Toby Creek area (to the northeast of the Baribeau property), Helikian-Devonian extension (D1), Jurassic-Paleocene contraction (D2-D3) and Eocene extension (D4) (Pope 1990). The first phase of deformation resulted in unconformities at the

base of the Dutch Creek and Mount Nelson Formations (D1a) and the unconformity at the base of the Windermere Supergroup (D1b). Thinning of Paleozoic strata onto the Windermere High is interpreted to reflect the effects of D1c deformation together with the development of small fault-bounded sub-basins. Contraction during the Columbian (D2) and Laramide (D3) orogenies resulted in a series of northeast vergent thrust faults and the development of a regional foliation (S1). Three major thrust sheets are evident in the Toby Creek area with one, the Mount Nelson thrust sheet, comprised of four smaller fault panels. The three major thrust sheets represent out-of-sequence faults, having propagated toward the hinterland, carried in the hanging wall of the Purcell Thrust. Contraction during D2 and D3 produced east-vergent imbricate thrust faults and west vergent backthrusts. Many of these faults were subsequently reactivated during the fourth phase (D4) of deformation. High angle brittle faults are also a result of D4.

Jasper Mining Corporation

McFarlane Project
Figure 3 - Regional Geology

Projection - NAD 1983 UTM Zone 11N
Nominal Scale - 1 : 125,000

Date - 27/10/2011
Drawn By - NT

510000 520000 530000

5510000 5500000 5490000 5480000 5470000

SHARON
GENERAL - GRANT
DAISY BELL
LULU
DIXIE FRACTION
TAMRAK (L.3341)
VIGILANT
AMAZON
NAMELESS
SILVER GLANCE
NORANDA
NOAH
LAURA M
WAKEFIELD
SULLIVAN
KOOTENAY FLORENCE
BUCKEYE
CAREY
LAKESHORE
NICOLET
AYESHA
CROWN
HIGHLAND (L.258)
NEW JERUSALEM
MANITOBA (L.10699)
TIGER
SILVER HOARD (L.10712)
JEWEL
NO. ONE
STAR
JEANETTE
HECTOR & DANIRA
BOUNTY
JACK POT
SPOKANE (L.212)
NOBLE 3
ALBION (L.3340)
BANKER (L.147)
NORTHWIND
UNITED
HIGHLANDER (L.557)
LITTLE MAMIE (L.2830)
DICTATOR
UNION
LADY OF THE LAKE
FOURTH (L.301)
KRAO
GLENGARRY
FIREBRAND
NEOSHO (L.302)
CROW-FLEDGLING
EDEN & CRESCENT
BELLE AIRE
TAM O'SHANTER (L.401)
KIRBY
JACKPOT
COMFORT
BLUEBELL
RIONDEL
HOTSHOT
KOOTENAY CHIEF
BERENGARIA
KOOTENAY
LES-ANN
KOKANEE
CRAWFORD CREEK QUARTZITE
CRAWFORD BAY
DYKES OPTION
BAREFOOT
ROSE PASS
HUMBOLT (L.2015)
UNITED COPPER
VICTORIA
SILVER HILL (L.2852)
COMMONWEALTH (L.4172)
PILOT BAY
CRYSTAL LAKE
PILOT POINT
PROCTER
FIVE METALS
GRAY CREEK IRON NORTH
GRAY CREEK IRON SOUTH
JODI
BEN DERBY
GOLD KING
JODI
CHICAGO
SNOW KING (L.7235)
PANORAMA #1
LA FRANCE CREEK
DAVE
LOCKHART
EBOR
HOPE
GOLD QUEEN
COPPER CANYON
LOST MINE
GOLD BASIN
VALPARAISO
SARAH 2ND
ROYAL
COUNTRY GIRL
VANCOUVER (NORTHERN)
KOOTENAY
BLACK DOUGLAS
IOLANTHE

N

0 2,000 4,000 6,000 8,000 10,000
Meters

Geology after Brown et al, 2011
Refer to GSC Open File 6306, 6307, 6310 for legend

Legend

- Mineral Occurrance
- McFarlane Tenure

Digital Road Atlas

- Rough or Loose Roads
- Overgrown Roads
- Paved Roads
- Arterial Paved Roads
- Ferry Route
- Highway paved
- Trail (TransCanada)
- Contour

British Columbia
Ministry of Energy, Mines and Petroleum Resources
Mining and Minerals Division

B.C. Geological Survey

Geology of British Columbia: Geological Legend

Geoscience Map 2005 - 3

Volcanic and Sedimentary Rocks

CENOZOIC

Neogene to Quaternary

- **Qal** — **Quaternary cover:** Alluvium, glaciofluvial gravels and sand, till. *(Note: the extensive Quaternary deposits of the Rocky Mountain foothills and the Peace River area have been omitted as they would completely cover and obscure the bedrock geology.)*
- **Qv** — **Quaternary volcanics including Blue Lake Volcanics, Lambly Creek Basalt, Lake Island and Big Raven Formations:** Basalt, olivine basalt, unconsolidated ash, scoria, agglomerate and breccia.
- **LTQT** — **Tuya Formation:** Alkali olivine basalt, tuff, agglomerate, minor trachyte and rhyolite tuff and flows.
- **LTQMl** — **Maitland Volcanics:** Basalt breccia, vesicular basalt, volcanogenic sediments and pillow lava.
- **LTQGb** — **Garibaldi Group and unnamed equivalents:** Olivine basalt flows, basaltic andesite flows and pyroclastic cones, rhyolite, dacite and andesite flows and domes; polymictic breccias and pyroclastics; gravel and sand.
- **LTQEz** — **Mount Edziza Complex:** Aphyric trachyte and olivine, plagioclase and augite- phyric alkali olivine basalt, trachybasalt and hawaiite lava flows, domes and pyroclastic breccia and ash flows; includes some fluvial gravel and glacial deposits.
- **LTQAn** — **Anahim Volcanics, Bella Bella Formation and equivalents:** Basalt, andesite, trachyte and rhyolite flows; basalt, andesite and dacite breccia, tuff, minor greywacke, slate and conglomerate.
- **LTCh** — **Chilcotin Group:** Vesicular, columnar jointed basalt, olivine basalt; minor andesite, rhyolite breccia, obsidian, tuff, breccia, conglomerate, sandstone, siltstone, shale and diatomite.
- **LTQLv** — **Level Mountain Group:** Alkali olivine basalt, minor trachyte and rhyolite; aphyric and olivine, plagioclase and augite- phyric, fine- grained basalt flows, in part columnar- jointed, locally vesicular or amygdaloidal; may include massive, fine- grained diabase sills.
- **LTAb** — **Alert Bay Volcanics:** Basaltic to dacitic lava, tuff, breccia, conglomerate.
- **LTv** — **Unnamed Neogene volcanics:** Olivine basalt necks, breccia and pillow flows, conglomerate.
- **Mv** — **Miocene volcanics including Skagit and Coquihalla Formations:** Basalt and andesite flows; related breccia and tuff; minor dacite and rhyolite, conglomerate and siltstone.

Oligocene to Pliocene

- **PFr** — **Poorly consolidated Tertiary sediments (includes the Fraser Bend and Australian Creek Formations):** Poorly consolidated to unconsolidated conglomerate, sandstone and mudstone; minor diatomite, lignite, basalt.
- **PMf** — **Masset Formation:** Dominantly aphyric, mafic to felsic lava flows and pyroclastic rocks, locally epiclastic interbeds.
- **PSf** — **Skonun Formation:** Sandstone, conglomerate, siltstone, mudstone, shale, coal, mostly covered by Pleistocene till.

Paleogene

- **ETs** — **Paleogene sediments including Chuckanut, Kitsilano, Slatechuk, Tanzilla Canyon, Kishehn and Sophie Mountain Formations:** Conglomerate, sandstone, siltstone, shale, marl, minor coal; minor tuffs and tuffaceous siltstone; basalt.
- **ETv** — **Unnamed Paleogene volcanics:** Rhyolite, chalcedonic rhyolite. breccia, tuff.
- **ETvQ** — **Paleogene volcanics of the Queen Charlotte Islands including the Ramsay Island volcanic sequence:** Intercalated mafic to felsic lava flows and pyroclastic rocks; epiclastic sandstone and conglomerate; thickly- stratified volcanic debris flows.
- **P** — **Point Grey Eruptives:** Basalt sills, dikes and flows, minor pyroclastics.
- **ECr** — **Carmine Mountain Volcanics:** Dacite and rhyolite flows, ash and lapilli tuff, andesite flows, lesser basalt flows.
- **EEn** — **Endako Group:** Andesite, basalt, minor dacite: flows, breccia and tuff, vesicular, amygdaloidal, locally hyaloclastic, minor picritc basalt and rhyolite; conglomerate, sandstone, shale, lignite.
- **EOo** — **Ootsa Lake Group (including Newman Formation) and unnamed equivalents:** Rhyolite, dacite, trachyte flows; related tuff and breccia; andesite and basalt; minor conglomerate, grit, greywacke and tuffaceous shale.
- **ECa** — **Carmanah Group:** Siltstone, shale, sandstone, pebble to boulder conglomerate; molluscan faunas common.
- **EKm** — **Kamloops Group:** Sandstone, conglomerate, shale, argillite, coal; basalt, andesite, dacite, trachyte, rhyolite, related tuffs and breccias.
- **EPe** — **Penticton Group and unnamed equivalents:** Trachyte, phonolite, trachyandesite, andesite, pyroxene andesite, tuff and breccia; volcanic sandstones and siltstones, shale and conglomerate.
- **EPr** — **Princeton Group:** Sandstone, conglomerate, argillite, coal; mafic to intermediate volcanics, minor black chert.
- **ESo** — **Sloko Group:** Basal conglomerate, coarse sandstone to siltstone, locally carbonaceous; andesite to rhyolite flows, pyroclastics and derived epiclastics, minor basalt.
- **EHp** — **Hart Peak Volcanics:** Rusty- weathering trachyte and rhyolite flows, pyroclastic flows, pyroclastic rocks, and related intrusions.
- **PEAm** — **Possible Amphitheater Group equivalents:** Heterolithic to monolithic conglomerate and breccia, carbonate conglomerate; shale, siltstone, sandstone, wacke, minor coal.
- **PEFl** — **Flores Volcanics:** Subaerial andesite to rhyolite welded tuff, ash- flow tuff, tuff breccia, dacite to rhyolite sills, minor basalt dikes.
- **PEMc** — **Metchosin Igneous Complex - Metchosin Formation:** Basaltic pillowed flows, hyaloclastite breccia, tuff, massive basalt, rare limestone; subaerial amygdaloidal basalt flows, minor breccia.

MESOZOIC

Cretaceous to Tertiary

- **uKTS** — **Sifton and Usilika Formations. Bowron River Coal Beds and Reynolds Creek Succession:** Pebble to boulder conglomerate, sandstone, siltstone, shale, minor coal.
- **KSu** — **Sustut Group and unnamed equivalents:** Sandstone, siltstone, mudstone, chert and quartz- pebble conglomerate, felsic ash- tuff, minor coal.
- **KTSs** — **Slollicum Schist:** Mainly greenschist- grade mafic to intermediate volcanics, phyllite, minor volcanic and carbonate- clast supported conglomerate.

Triassic to Cretaceous

- **ŦKPa** — **Pacific Rim Complex:** Mudstone- rich melange; pillow lava, tuff and chert; green, aphanitic volcanic breccia and massive flows, small diorite intrusions, grey limestone lenses.

Jurassic to Cretaceous

- **JKCy** — **Cayoosh Assemblage and Noel Mountain East Succession:** Volcaniclastic sandstone, siltstone, shale and argillite; lesser amounts of pebble to cobble conglomerate, limy sandstone, limestone, tuff, greenstone, quartzite and fragmental metavolcanic rocks; micaceous quartzite, biotite- hornblende schist, garnet and staurolite schist, phyllite.
- **JKKF** — **Kootenay Group and Fernie Formation:** Shale, sandstone; limestone, phosphatic and sideritic shales.
- **JKLe** — **Leech River Complex:** Slate, phyllite, quartz- biotite schist, quartz- feldspar- garnet- biotite schist, metagreywacke, meta- arkose; metabasalt, metarhyolite, chlorite schist, ribbon chert, cherty argillite.
- **JKGv** — **Gravina Assemblage:** Marine argillite and greywacke, and interbedded andesitic to basaltic volcanic and volcaniclastic rocks, metamorphosed to amphibolite grade.
- **mJKBo** — **Bowser Lake Group:** Heterolithic conglomerate, sandstone, siltstone, mudstone, shale, feldspathic wacke, minor coal; minor basalt and andesite flow, breccia and tuff, dacitic lava flows, lapilli tuff.
- **JKKy** — **Kyuquot Group:** Siltstone, shale, greywacke, calcareous grit and conglomerate.
- **JKDz** — **Dezadeash Group:** Argillite, greywacke, coarse lithic and feldspathic sandstone, conglomerate and minor tuffaceous layers; sparsely feldspar- phyric pillow basalt and foliated sills of gabbro and quartz diorite.
- **uJKMn** — **Minnes Group (includes some undifferentiated Bullhead Group):** Sandstone, quartzite, siltstone, shale, conglomerate, minor coal.
- **uJKRe** — **Relay Mountain Group, Thunder Lake Sequence and unnamed equivalents:** Shale, siltstone, phyllite, semischist, sandstone, calcareous, sandstone, arkose, coquina, conglomerate; minor andesitic breccia and tuff, tuffaceous sandstone and silty limestone.

Cretaceous

- **KFs** — **Fort St. John Group, may include some Smokey Group units:** Shale, sideritic shale, silty mudstone, siltstone, sandstone, concretionary shale; minor coal, conglomerate, glauconitic sandstone and siltstone.
- **KJa** — **Jackass Mountain Group; Fish Lake Creek Succession; and unnamed equivalents:** Sandstone, arkose, siltstone, argillite, black shale, pebble to boulder conglomerate; andesite and tuffaceous sandstone; minor rhyolite, tuff.
- **KPs** — **Pasayten Group:** Chert- grain sandstone, argillite, arkose, conglomerate; minor red beds and tuff.
- **KQc** — **Queen Charlotte Group (includes White Point Beds):** Sandstone; siltstone, mudstone and shale, locally with calcareous concretions, pebble sandstone and conglomerate, minor coal; feldspar- phyric andesite lava flows and pyroclastic rocks.
- **KSq** — **Silverquick Formation:** Pebble to cobble conglomerate containing clasts of chert, volcanic rock and sandstone; lesser amounts of sandstone, siltstone, shale, volcanic breccia and volcanic conglomerate.
- **KTc** — **Taylor Creek Group and unnamed equivalents:** Sandstone, chert- rich sandstone, siltstone and shale; polymict pebble conglomerate; calcareous sandstone and shale; intermediate to felsic volcanic flows, tuff and crystal tuffs; volcanic breccia and conglomerate.
- **KVz** — **Valdez Group and possible equivalents:** Deep marine argillite- greywacke flysch, minor massive and pillow basalt, breccia and tuff; contorted graphitic siltstone with intercalated intermediate ash, lapilli tuff and chert.
- **uKv** — **Unnamed Cretaceous volcanics:** Andesitic to dacitic breccias, tuffs and flows.

Upper Cretaceous

- **uKAl** — **Alberta Group:** Siltstone, sandstone.
- **uKD** — **Dunvegan Formation:** Massive conglomerate, fine to coarse- grained sandstone, carbonaceous shale.
- **uKKs** — **Kasalka Group unnamed equivalents:** Hornblende- feldspar porphyritic andesite to basalt flows and related pyroclastics, breccias and epiclastic beds, lesser dacite, rhyodacite, basaltic andesite, quartz porphyry; sandstone, conglomerate.
- **uKNa** — **Nanaimo Group:** Boulder, cobble and pebble conglomerate, coarse to fine sandstone, siltstone, shale, coal.
- **uKPo** — **Powell Creek Formation:** Andesitic volcanic breccia, lapilli tuff and ash tuff; mafic to intermediate volcanic flows; volcanic sandstone and conglomerate, siltstone and shale.
- **uKSy** — **Smokey Group and Kotaneelee Formation:** Sandstone, carbonaceous shale, calcareous shale, calcareous sandstone, minor conglomerate.
- **uKWa** — **Wapiti Formation:** Conglomerate, fine to coarse grained sandstone; carbonaceous shale and coal.

Lower Cretaceous

- **KWt** — **Windy Table Complex:** Andesite, basalt, flow- banded rhyolite, volcanic conglomerate.
- **lKBu** — **Bullhead Group:** Sandstone, conglomerate, shale, coal.
- **lKGa** — **Gambier Group; Monarch Volcanics, Ottarasko Formation; and equivalents including the Cerulean Lake Unit:** Conglomerate, sandstone, shale, argillite, minor limestone; basaltic andesite to rhyolite flows, crystal and lapilli tuff, tuffaceous sandstone, volcanic conglomerate and breccia; schist, graphitic schist.
- **lKSb** — **Spences Bridge Group and unnamed equivalents:** Andesite and dacite flows and breccias; minor basalt and rhyolite; chert and volcanic- clast conglomerates; sandstone, siltstone and mudstone.
- **lKSk** — **Skeena Group:** Feldspathic and volcanic sandstone, siltstone, shale, mudstone, chert- pebble conglomerate, minor coal; augite- plagiolcase phyric alkaline basalt to basaltic andesite, plagioclase phyric andesite to dacite; aphyric basalt, green to maroon mafic lapilli tuff, volcanic breccia, rhyolite to dacite flows.
- **lKTB** — **Blairmore Group:** Sandstone, siltstone; tuffs.

Jurassic

- **JHl** — **Harrison Lake, Billhook Creek, Kent and Camp Cove Formations; equivalents in the southern Coast Complex including the Whistler Pendant:** Intermediate to mafic flows and pyroclastics, minor felsics; conglomerate, sandstone and argillite, minor carbonate.

Middle Jurassic

- **mJMo** — **Moresby Group:** Concretionary sandstone; siltstone; conglomerate; minor agglomerate; black shale.
- **mJYk** — **Yakoun Group:** Agglomerate; flow breccias; sandstone; conglomerate; minor shale.

Lower to Middle Jurassic

- **lmJAh** — **Ashcroft Formation and unnamed equivalents:** Argillite, siltstone, sandstone, conglomerate; minor limestone.
- **lmJHz** — **Hazelton Group; Griffith Creek and Hotnarko Volcanics:** Calcalkaline basalt to rhyolite pyroclastics and flows, derived volcaniclastic conglomerate, breccia, sandstone, siltstone, shale, minor limestone and marl.
- **lmJLa** — **Laberge Group:** Conglomerate, diamictite, wacke, argillite, shale, calcareous sandstone, chert- pebble conglomerate, minor limestone; andesitic breccia and tuff.
- **lmJLd** — **Ladner Group; Last Creek, Huckleberry Mountain and Spider Peak Formations; and unnamed equivalents:** Sandstone, arkose, siltstone, argillite, slate, conglomerate, andesitic flows, mafic and intermediate volcanic breccia, tuff, minor limestone.
- **lmJMa** — **Maude Group:** Shale; fine to medium grained sandstone; minor calcareous shale.
- **lmJSp** — **Spatsizi Group and Abou Formation:** Siliceous, well bedded, tuffaceous siltstone, siltstone, calcareous siltstone, tuff; calcareous to siliceous siltstone, limestone, concretionary shale.
- **JBi** — **Bowen Island Group:** Tuffaceous sandstone, tuffaceous siltstone, argillite, graphitic siltstone with minor interbedded carbonate, lapilli tuff, andesite flows and sills.

Lower Jurassic

- **lJBn** — **Bonanza Group:** Massive amygdaloidal and pillowed basalt to andesite flows, dacite to rhyolite massive or laminated lava, green and maroon tuff, feldspar crystal tuff, breccia; tuffaceous sandstone, argillite, pebble conglomerate and minor limestone and calcareous siltstone.
- **lJCl** — **Chuchi Lake Succession:** Pebbly grit, polymictic conglomerate containing abundant volcanic clasts, sandstone, siltstone, dark grey shale, lesser cherty dust tuff; maroon and green, porphyritic latite, trachyte and andesite, augite, olivine basalt flows and breccia, lapilli tuff.
- **lJRs** — **Rossland Group:** Mafic volcanics, argillite, siltstone.
- **lJTd** — **Toodoggone Volcanics:** Andesite, dacite, trachyandesite lava flows, tuffs, crystal tuffs, breccias and epiclastics; fine pyroxene- basalt flows and tuffs, cogenetic sills and dikes.
- **lJTw** — **Twin Creek Succession and equivalents:** Heterolithic lapilli tuff, plagioclase- augite and plagioclase, quartz porphyritic flows and agglomerate/tuff breccia; arkose, greywacke, sandstone, siltstone, minor conglomerate and coal.

Triassic to Jurassic

- **ŦJYr** — **Ymir Group:** Argillite, siltstone, limestone.
- **uŦJCu** — **Cultus Formation:** Argillite, sandstone, siltstone, minor carbonate.
- **uŦJKn** — **Kunga Group:** Shale; calcareous shale; massive limestone; fine grained sandstone; rare chert and local peperite.
- **uŦJNc** — **Nicola Group:** Undifferentiated mafic to felsic flows and volcaniclastic rocks, including augite- phyric flows, tuffs and breccias; feldspathic sandstone and siltstone, argillite, shale, polymict conglomerate; minor limestone and calcareous siltstone.
- **ŦJTk** — **Takla Group (may include deformed Asitka Group); Tezzaron Sequence; and unnamed equivalents:** Augite- phyric and aphyric basalt breccia, agglomerate, tuff, pillowed and massive flows; mafic to felsic tuff, ash tuff, lapilli tuff, breccia and conglomerate; tuffaceous argillite and siltite, greywacke, conglomerate, sandstone, siltstone and chert; phyllite, phyllitic schist; limestone, minor skarn.

Triassic

- **ŦBk** — **Brooklyn Formation:** Sharpstone conglomerate, limestone, argillite and minor volcanics.
- **ŦJS** — **Spray River Group; Halfway, Liard, Charlie Lake, Baldonnel, Pardonet, Ludington, Toad and Grayling Formations; unnamed equivalents:** Limestone, dolomite, carbonaceous- argillaceous limestone, calcareous and dolomitic siltstone, calcareous sandstone; shale, sandstone, orthoquartzite, minor gypsum.
- **ŦSl** — **Slocan Group:** Carbonate, argillite, slate, phyllite, minor volcanic breccia, tuff and conglomerate.

Upper Triassic

- **uŦCd** — **Cadwallader Group; Grouse Creek Siltstone and equivalents:** Sandstone, calcarenite, siltstone, shale, polymict conglomerate, pebbly mudstone, limestone- greenstone breccia, micritic limestone, coquina; pillowed to massive greenstone, mafic volcanic breccia, mafic tuff, minor rhyolite breccia and tuff.
- **uŦS** — **Stuhini Group; Mosley and Mount Moore Formations, and unnamed equivalents:** Mafic to intermediate lapilli tuff, ash, breccia and tuffite; massive, aphyric or plagioclase and augite- phyric flows and sills; felsic tuff ; tuffaceous siltstone, wacke, argillite, polymict conglomerate, limestone, shale; graphitic shale, rare black chert, ribbon chert.
- **uŦTa** — **Tats Group:** Black calcareous siltstone, argillaceous limestone, basaltic sills; massive and pillowed basalt flows and sills, basalt agglomerate, minor tuff and chert.
- **uŦTy** — **Tyaughton Group:** Conglomerate, conglomeratic sandstone and sandstone; limestone and limestone conglomerate; siltstone, calcareous sandstone and coquina.
- **uŦVe** — **Nikolai Greenstone, Chitistone and McCarthy Formations:** Aphyric pillow basalts, interpillow micrite; shallow intra- supratidal platform and sabkha facies limestones and evaporites; impure cherty and shaley limestone, chert spiculite.

Middle to Upper Triassic

- **muŦVa** — **Vancouver Group and equivalents:** Basalt pillowed flows, pillow breccia, hyaloclastite tuff and breccia, massive amygdaloidal flows, minor tuffs, interflow sediment and limestone lenses; grey to black, micritic and stylolitic limestone, calcareous siltstone, minor oolitic and bioclastic limestone, garnet- epidote- diopside skarn; thinly bedded black argillite, siltstone and shale, calcareous argillite, grey and black limestone, shaly limestone, coralline limestone, minor tuffaceous sandstone, grit and breccia.

PALEOZOIC TO MESOZOIC

- **ℙMCs** — **Cogburn Schist:** Schist, meta- chert, pelite, amphibolite, marble, ultramafic rock.
- **ℙMGm** — **Gamsby Complex:** Schistose and mylonitic felsic and mafic flows, tuff, volcanogenic sediments, amphibolite, leucogneiss, tonalitic to granodioritic orthogneiss, minor marble and skarn.

Permian to Jurassic

- **PJHz** — **Hozameen Complex:** Chert, pelite, mafic volcanics, minor limestone, gabbro and ultramafic rock.
- **PJKu** — **Kutcho Formation, Sitlika Assemblage and possible equivalents:** Basaltic to rhyolitic schist, greenstone, pillowed metabasalt, heterolithic breccia; slate, phyllite; banded siltstone, sandstone and conglomerate; minor limestone, marble, chert and green chloritic phyllite.

Mississippian to Jurassic

- **CJBr** — **Bridge River Complex:** Undivided ribbon chert, argillite, phyllite, quartz phyllite and pillowed to massive greenstone, with lesser amounts of limestone, gabbro, diabase, serpentinite, sandstone and pebble; conglomerate metamorphic equivalents; variably deformed granodiorite and orthogneiss; blueschist; locally includes minor amounts of Cayoosh Assemblage and Taylor Creek Group rocks.
- **CŦKl** — **Klinkit Group:** Quartz- rich clastics and argillite; commonly phyllitic or hornfelsed, conglomerate; limestone, cherty carbonate, calcsilicate, marble; green tuff, lapilli tuff and lesser flows.
- **MJCc** — **Cache Creek Complex and equivalents:** Greenstone, amphibolite, mafic pillow lavas, volcanic breccia, agglomerate, tuff, rare felsic flows and tuffs; phyllite, siliceous phyllite, metachert, ribbon chert, chlorite schist, sandstone; micritic to clastic limestone, argillite, marble, dolomite; minor serpentinite and mafic intrusions.

Ordovician to Triassic

- **DŦW** — **Unnamed units, possibly of Wrangellian affinity:** Argillite, calcareous argillite, cherty argillite, chert; intermediate epiclastic and/or lapilli to ash tuff and tuffite.
- **OŦA** — **Unnamed Ordovician to Triassic volcanic and sedimentary rocks (Alexander terrane) within the Coast Complex:** Siltstone, mudstone, shale, limestone, marble, mafic and felsic volcanics, quartzite and conglomerate; often metamorphosed to slate, phyllite, schist, marble, gneiss, amphibolite and greenstone.
- **OŦAp** — **Apex Mountain Complex; Shoemaker and Independence Formations:** Argillite, chert, greenstone, breccia, mafic intrusions, limestone and ultramafic rocks.

PALEOZOIC

- **ℙBl** — **Black Stuart Group:** Chert, limestone, dolostone and derived conglomerate and breccia; black shale, argillite, cherty argillite, quartzite, siltite and slate; some pillow basalt, schistose calcareous basaltic tuff and volcaniclstics.
- **ℙBs** — **Big Salmon Complex, including the Teslin Tectonic Zone:** Quartzite, phyllite, biotite- muscovite schist, marble, limestone, dolomite; chert; greenstone, andesite and basalt tuffite, tuff , wacke, rhyolite; quartz- albite- mica gneiss, albite- actinolite schist, quartz- chlorite- epidote- albite gneiss, meta- chert, calc- silicate schist, hornfels.
- **ℙDe** — **Unnamed volcanics and sediments (Descon tectonic assemblage):** Brown to white- weathering marble, calcareous metawacke and argillite, minor conglomerate and chert; metabasalt, minor tuff breccia.
- **ℙDr** — **Dorsey Complex (includes Rapid River Tectonite):** Green magnetite- phyllite, chlorite schist, mafic schist, quartz- sericite schist, metachert, quartzite, limestone, quartz- plagioclase grit, quartz- feldspar schist, phyllite, pelitic schist, amphibolite, siliceous and gneissic tectonite.
- **ℙId** — **Mount Ida Assemblage:** Calcareous black phyllite, graphitic phyllite, dark grey limestone, argillaceous and phyllitic limestone; greenstone, chlorite phyllite; schistose epidote- actinolite- quartz and garnet- epidote skarn, quartzite, micaceous quartzite and calcareous quartzite, lesser amounts of chloritic schist and sericite- quarz shist; minor amphibolite, marble, conglomerate and serpentinite.

Silurian to Permian

- **SPs** — **Unnamed Silurian to Permian sedimentary and minor volcanic rocks of Alexander terrane.:** Limestone, crinoidal limestone, interbedded limestone and argillite; argillite, chert and siliceous argillite, quartzite; metagreywacke; basalt flows, mafic to intermediate lapilli tuff and agglomerate.

Devonian to Permian

- **DPHa** — **Harper Ranch Group, Barslow Assemblage and Chapperon Group (may include some Nicola Group strata):** Argillite, cherty argillite, slate, phyllite, siltstone, volcanic and chert- grain sandstone; chert- pebble conglomerate; volcaniclastic rocks of mafic to felsic composition; minor carbonate.
- **DPHq** — **Nizi Formation and unnamed equivalents:** Limestone, cherty limestone, greywacke, minor conglomerate, maroon shale, siltstone; mafic to felsic volcanics, pillow basalt; black and green chert, argillite, schist, quartzite metaconglomerate.
- **DPAs** — **Asitka Group:** Massive, grey, bioclastic limestone; argillaceous, thin bedded, recrystallized limestone with chert nodules; slate, slaty siltstone and chert: sericite and chlorite phyllite and schist; metagabbro, basalt, rhyolite, tuff; minor serpentinite and listwanite.
- **DPBc** — **Big Creek Group:** Basalt breccia, tuff and pillows; dacitic and rhyolite tuff; shale, argillite, slate, calcareous argillite, limestone, tuffaceous argillite, sandstone, wacke.
- **DPCw** — **Chilliwack Group:** Undifferentiated pelite, sandstone, minor conglomerate, mafic and felsic volcanics; Permian and Pennsylvanian carbonate.
- **DPFe** — **Fennell Assemblage:** Bedded chert, cherty argillite, diabase, gabbro, diorite and pillowed to massive metabasalt; lesser amounts of sandstone, siltstone, slate, phyllite, conglomerate and quartz- feldspar porphyry rhyolite; minor amounts of limestone.
- **DPSt** — **Stikine Assemblage:** Maroon and green tuff, lapilli tuff, volcanic conglomerate, wacke; pyroxene- phyric agglomerate, breccia, pillowed and massive basalt flows, andesite, minor rhyolite and gabbro; siltstone, sandstone and lesser chert; limestone, bioclastic limestone, calcarenite; foliated metamorphosed equivalents.
- **DPSm** — **Slide Mountain Complex and Antler Formation:** Massive and pillowed basalt, breccia, tuff, diabase, minor diorite, gabbro and serpentinite; chert, argillite, lithic sandstone, limestone, dacitic tuff and agglomerate, black argillite, quartz- chert sandstone, varicoloured chert, rhodonite, calcarenite, phyllite, chlorite schist.

Carboniferous to Permian

- **CPAn** — **Knob Hill Group:** Ribbon chert, argillite and thin limestone bands.
- **CPAa** — **Anarchist Schist:** Chlorite schist, greenstone, chert; minor ultramafic rock.
- **CPAc** — **Chapperon Group:** Metamorphosed siliceous and calcareous argillites; greenschists of volcanic and sedimentary origin; minor serpentinized ultramafic rocks.
- **CPKa** — **Kaslo Group:** Mafic volcanics
- **CPNi** — **Nina Creek Group:** Cherty argillite, chert, argillite, massive and pillowed basalt, volcanic breccia, gabbro, siltstone, wacke, dacite.
- **CPRk** — **Rocky Mountain Group:** Dolomitic siltstone; sandy dolomite; orthoquartzite and limestone.
- **CPSd** — **Stoddart Group, Fantasque and Kindle Formations:** Limestone, dolomite, conglomerate, bedded chert, quartz sandstone, calcareous sandstone, siltstone, shale, locally phosphatic; dark grey chert.
- **CPLy** — **Lay Range Assemblage, Evans Creek Limestone:** Massive and pillowed basalt, chert, fine to medium- grained gabbro and rare serpentinite; crystal and lapilli tuff, siliceous tuff, volcanic sandstone, minor agglomerate, siltstone, siliceous argillite, limestone, quartz sandstone, minor conglomerate.
- **CPBt** — **Buttle Lake Group:** Ribbon chert, cherty tuff, graphitic argillite, thinly bedded intercalated sandstone- siltstone- argillite, volcanic sandstone and conglomerate, massive crinoidal limestone, interbedded argillite and crinoidal limestone, pillowed basalt flows, olistostromal melange. May include significant volumes of Mount Hall Gabbro sills.
- **CMK** — **Attwood Group, Milford and Mount Roberts Formations:** Argillite, sandstone, limestone, quartzite; minor sharpstone conglomerate, greenstone.
- **ᵽPSc** — **Station Creek Formation:** Oceanic arc volcanics and sediments dominated by tuff, breccia and siliceous argillite with sparse andesitic flows.

Devonian to Mississippian

- **DMEa** — **Earn Group:** Argillite, slate, shale, locally carbonaceous and pyritic; chert, cherty mudstone; chert arenite and pebble conglomerate, polymicitic conglomerate; limestone; nodular and bedded barite +/- sulphides.
- **DMB** — **Besa River Formation:** Black, siliceous shale, calcareous siltstone, minor dolomite, limestone, sandstone and pebble conglomerate, barite.
- **DMBe** — **Banff and Exshaw Formations:** Carbonate, black shale, brown calcareous shale.

Mississippian

- **MRu** — **Rundle Group; Prophet and Flett Formations; unnanmed equivalents:** Dolomite, limestone, crinoidal and skeletal limestone, cherty limestone, calcareous mudstone, spiculite, chert, argillite, siltstone, rare amygdaloidal basalt.
- **MMt** — **Mattson Formation:** Fine, and medium grained quartzose sandstone, sandy shale.
- **MRc** — **Ram Creek Group:** Greenstone, chlorite- actinolite phyllite, quartz- sericite schist, marble, ribbon chert, tonalite, diorite, gabbro.
- **MSw** — **Swift River Group and possible equivalents:** Chert, argillite, phyllite, greywacke, quartz- plagioclase grit, meta- tuff, limestone, quartzite; minor conglomerate, volcanics and diorite.

Cambrian to Devonian

- **ꞒDER** — **Razorback and Echo Lake Groups:** Thinly layered and interbedded argillaceous limestone and dolomite, shale and slate; dolomite, sandy dolomite, sandstone to quartzite, massive to poorly bedded limestone and dolomite; equivalent to the Kechika and Road River Groups and the Tapioca Sandstone of the Sandpile Group.
- **ꞒDLr** — **Lardeau Group:** Limestone, marble, phyllite, micaceous schist, grit, quartzite, greenstone.

Ordovician to Devonian

- **ODRo** — **Road River Group (may include some undifferentiated Earn Group):** Shale, slate, siltstone, chert, minor coarse clastics, limestone, dolomite, rare tuffs.
- **ODSMR** — **Sandpile, McDame, Ramhorn and Otter Lakes Groups:** Dolostone, dolomitic sandstone, limestone, shaly dolostone, carbonate breccia, minor calcareous siltstone, shale, quartzite, alkaline volcanics.

Silurian to Devonian

- **SDs** — **Silurian to Devonian strata of the Rockies including Cedared, Burnais, Harrogate, Mount Forster, Muncho- McConnell, Wokkpash, Stone, Dunedin, Nonda, Pine Point Formations and Tapioca Sandstone:** Dolomite, limestone, silty limestone and dolostone, sandstone, quartzite, argillite, shale, siltstone, chert, greenstone, minor gypsum.

Devonian

- **DFa** — **Fairholme Group, Flume, Mount Hawk, Palliser, Pendrix Formations and unnamed equivalents:** Argillaceous limestone, nodular limestone, calcareous shale, dolomite; shale, siltstone, orthoquartzite.
- **DSi** — **Sicker Group:** Pillowed and massive basalt flows, monolithic basalt breccia and pillow breccia; pyroxene- feldspar phyric agglomerate, breccia, lapilli tuff, massive and pillowed flows, felsic tuffs and crystal tuffs, dacite, rhyolite; massive tuffite, laminated tuff, polymictic breccia; chert, jasper and magnetite- hematite- chert iron formation.
- **DEc** — **Unnamed sediments and volcanics of the Ecstall Belt:** Quartzite, with lesser biotite hornblende gneiss, mica schist, black phyllite to meta- argillite, semi- pelitic to pelitic schist, well foliated: mafic and intermediate metavolcanics, locally pyritic, strongly foliated, fine grained amphibolite +/- chlorite schist.

Ordovician to Silurian

- **OSs** — **Unnamed Ordovician to Silurian sedimentary and minor volcanic rocks of Alexander terrane:** Siltstone, mudstone, slate, phyllite, chert, massive and well- bedded limestone, minor conglomerate; pillow basalt, tuffs, diabase sills.

Cambrian to Ordovician

- **ꞒOKe** — **Kechika Group; may include some undifferentiated Road River Group, Skoki Formation or Gog Group:** Limestone, argillaceous limestone, pale calcareous slate, phyllitic limestone, calcareous phyllite, pyritic and carbonaceous slate and shale; minor conglomerate, sandstone, greenstone and green tuff.
- **ꞒOs** — **Cambrian to Ordovician strata of the Rockies: includes McKay Group, Monkman Quartzite, Active, Chushina, Mount Wilson, Skoki, Tipperary, Glenogle, Survey Peak, Beaverfoot, Arctomys, Waterfowl, Cathedral, Tanglefoot, Elko, Gordon, Chancellor, Eldon, Flathead, Gull Lake, Jubilee, Lyell, Sullivan, Lynx, Mistaya, Bison Creek, Nelway, Ottertail, Pika, Snake, Indian, Stephen, Mount White and Tsar Creek Formations, Kinbasket unit and several unnamed units.:** Limestone, dolomite, shale, calacareous shale, slate, sandstone, red beds, quartzite, minor conglomerate and chert.
- **uꞒOvb** — **Unnamed Cambrian to Ordovician volcanics of Alexander terrane:** Pillow basalt, greenstone.

Cambrian

- **ꞒAt** — **Atan Group:** Orthoquartzite, siltstone, shale, sandstone; limestone; minor dolostone, phyllite and conglomerate.
- **mꞒr** — **Unnamed Cambrian coarse clastics:** Diamictites, conglomerate, dolomite olistrostrome (glacio- marine), sandstone, minor limestone.

PROTEROZOIC TO PALEOZOIC

- **PℙEg** — **Eagle Bay Assemblage:** Quartzite, micaceous quartzite, siliceous phyllite, garnet- mica- quartz schist, greenstone, metavolcanic breccia and tuff, chloritic phyllite, chlorite schist; limestone, marble, calcsilicate gneiss; argillite, slate and conglomerate; paragneiss and orthogneiss.
- **PℙSh** — **Shuswap Assemblage:** Marble, diopsidic marble, calcsilicate gneiss, amphibolite, quartzite.
- **uPℙSn** — **Snowshoe Group:** Micaceous quartzite, quartzite, phyllite, slate and schist; lesser siltite, limestone and limestone or quartzite- clast conglomerate; minor amphibolite, metatuff, marble and diabase.

Upper Proterozoic to Cambrian

- **uPꞒMs** — **Misinchinka Group (may include some undifferentiated Miette Group):** Phyllite, siltite, slate, diamictite, quartzite, feldspathic quartzite, minor iron formation; limestone, dolomite, sandy limestone and dolomite, minor argillite; quartz chlorite schist, chloritic phyllite, garnet- mica schist, calcereous sericite schist, amphibolite.
- **uPꞒC** — **Cariboo Group:** Shale, siltstone, limestone, argillite, phyllite, schist, quartzite; minor feldspathic sandstone and conglomerate.
- **uPꞒEC** — **Eager and Cranbrook Formations:** Shale, limestone, quartzite, argillite and magnesite.
- **uPꞒGo** — **Gog and Boulder Creek Groups; Badshot (may include some undifferentiated Index Formation), Hota, Mohican, Marsh Adams and Mount Ganier Formations, and unnamed equivalents:** Limestone, siltstone, dolomite; quartzite, pebble conglomerate; alkalic to calc- alkalic basalt, andesite and dacite; mica schist, marble, amphibolite.
- **uPꞒHm** — **Hamill Group, Donald and Laib Formations:** Marble, dolomite, limestone; phyllite, argillite, schist, quartzite.

PROTEROZOIC

Upper Proterozoic

- **uPHo** — **Horsethief Creek Group:** Pelitic schist, phyllite, quartzite, quartzofeldspathic psammite, grit, conglomerate and amphibolite; marble and sandy marble.
- **uPHy** — **Hyland Group (may include younger clastics):** Slates, phyllites, brown sandstone, siltstone, shale, quartz pebble grits, conglomerate, minor limestone.
- **uPIg** — **Ingenika Group:** Quartzite, micaceous quartzite, pebble conglomerate, limestone, dolomite, oolitic and pisolitic limestone, shale, sandstone, wacke, sandy limestone, phyllite, schist, gneiss, chlorite- muscovite schist, slate, argillite, micaceous crystalline limestone, marble, calcsilicate rock, amphibolite.
- **uPKz** — **Kaza Group:** Phyllite, greywacke, grit, argillite, schist and micaceous feldspathic quartzite; minor pebble conglomerate, amphibolite, limestone and marble.
- **uPMc** — **Mica Creek Succession:** Pelitic schist, phyllite, quartzite, quartzofeldspathic psammite, grit, conglomerate and amphibolite.
- **uPMi** — **Miette Group:** Grit, conglomerate, quartzite; phyllite, argillite, slate, pelitic schist, metasandstone; dolomite, marble and minor calcsilicate rock.
- **uPWd** — **Windermere Supergroup:** Phyllite, quartzite, grit, conglomerate; greenstone.

Middle Proterozoic

- **mPMu** — **Aida, Chischa, Gataga, George, Henry Creek, Tetsa, Tuchodi and Narchilla Formations:** Dolomitic mudstone, siltstone, sandstone, dolostone, limestone, quartzite, feldspathic quartzite, minor greenstone, conglomerate.
- **mPPu** — **Purcell Supergroup:** Siltstone, wacke, argillite, quartzite, dolomite, basalt to andesite flows.

Intrusive Rocks

CENOZOIC

- **LT** — **Late Tertiary:** diorite (dr), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm).
- **ET** — **Early Tertiary:** diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), syenite (sy), tonalite (to), diabase (db), quartz porphyry (qp), feldspar porphyry (fp), orthogneiss (og), migmatite (mi) and undifferentiated intrusive rocks (g).
- **T** — **Tertiary:** granite (gr) and feldspar porphyry (fp).

MESOZOIC

- **KT** — **Cretaceous to Tertiary:** diorite (dr), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), syenite (sy), tonalite (to), quartz porphyry (qp), feldspar porphyry (fp), pegmatite (pe), orthogneiss (og), and undifferentiated intrusive rocks (g).
- **LK** — **Late Cretaceous:** diorite (dr), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), syenite (sy), tonalite (to), quartz porphyry (qp), feldspar porphyry (fp), orthogneiss (og), and undifferentiated intrusive rocks (g).
- **mK** — **Mid- Cretaceous:** diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), tonalite (to), quartz porphyry (qp) and orthogneiss (og).
- **EK** — **Early Cretaceous:** diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), tonalite (to), quartz porphyry (qp), feldspar porphyry (fp), orthogneiss (og) and undifferentiated intrusive rocks (g).
- **K** — **Cretaceous:** diorite (dr), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), syenite (sy), pegmatite (pe), orthogneiss (og), migmatite (mi) and undifferentiated intrusive rocks (g).
- **JT** — **Jurassic to Tertiary:** granite (gr), quartz diorite (qd), quartz monzonite (qm), quartz porphyry (qp) and feldspar porphyry (fp).
- **JK** — **Jurassic to Cretaceous:** diorite (dr), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), tonalite (to), quartz porphyry (qp), feldspar porphyry (fp), pegmatite (pe), orthogneiss (og), and undifferentiated intrusive rocks (g).
- **J** — **Jurassic:** diorite (dr), granodiorite (gd), quartz diorite (qd), quartz monzonite (qm), syenite (sy) and orthogneiss (og).
- **LJ** — **Late Jurassic:** diorite (dr), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm) and tonalite (to).
- **MJ** — **Middle Jurassic:** diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), syenite (sy), tonalite (to), quartz porphyry (qp), feldspar porphyry (fp), orthogneiss (og) and undifferentiated intrusive rocks (g).
- **MLJ** — **Middle to Late Jurassic:** diorite (dr), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm) and orthogneiss (og).
- **EMJ** — **Early to Middle Jurassic:** diorite (dr), granodiorite (gd), diabase (db) and feldspar porphyry (fp).
- **EJ** — **Early Jurassic:** diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), syenite (sy), feldspar porphyry (fp), orthogneiss (og) and undifferentiated intrusive rocks (g).
- **ŦTdr** — **Triassic to Tertiary:** diorite (dr), granodiorite (gd), quartz diorite (qd) and undifferentiated intrusive rocks (g).
- **ŦK** — **Triassic to Cretaceous:** gabbro (gb) and granite (gr).
- **ŦJdg** — **Triassic to Jurassic:** diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), quartz diorite (qd), quartz monzonite (qm), syenite (sy), tonalite (to), quartz porphyry (qp), feldspar porphyry (fp) and undifferentiated intrusive rocks (g).
- **Ŧ** — **Triassic:** diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), quartz diorite (qd), quartz monzonite (qm) and orthogneiss (og).
- **Mesozoic:** ultramafites (um) and serpentinites (us).

PALEOZOIC

- **PJ** — **Permian to Jurassic:** diorite (dr), tonalite (to) and orthogneiss (og).
- **PŦ** — **Permian to Triassic:** diorite (dr), gabbro (gb), granodiorite (gd), tonalite (to) and diabase (db).
- **P** — **Permian:** diorite (dr), gabbro (gb), granodiorite (gd), granite (gr), quartz monzonite (qm), tonalite (to), diabase (db) and orthogneiss (og).
- **CŦ** — **Carboniferous to Triassic:** diorite (dr) and gabbro (gb).
- **CP** — **Carboniferous to Permian:** diorite (dr), gabbro (gb) and orthogneiss (og).
- **Ᵽ** — **Pennsylvanian:** quartz diorite (qd).
- **C** — **Carboniferous:** diorite (dr).
- **M** — **Mississippian:** diorite (dr), granite (gr), syenite (sy), tonalite (to) and undifferentiated intrusive rocks (g).
- **DP** — **Devonian to Permian:** diorite (dr), gabbro (gb) and granodiorite (gd).
- **DC** — **Devonian to Carboniferous:** granodiorite (gd), quartz diorite (qd), quartz monzonite (qm) and orthogneiss (og).
- **D** — **Devonian:** diorite (dr), gabbro (gb), granodiorite (gd), quartz diorite (qd), quartz monzonite (qm), syenite (sy), orthogneiss (og) and undifferentiated intrusive rocks (g).
- **ℙ** — **Paleozoic:** gabbro (gb, OTrgb), granodiorite (gd), granite (gr), quartz dionite (qd), syenite (Ssy) and orthogneiss (og, Oog).
- **Paleozoic:** ultramafites (um) and serpentinites (us).

PROTEROZOIC

- **P** — **Proterozoic:** diorite (dr), granodiorite (gd), and orthogneiss (og).

AGE UNKNOWN

- **?** — **Age unknown or poorly constrained:** diorite (dr), gabbro (gb), granite (gr), quartz diorite (qd), quartz monzonite (qm), tonalite (to), orthogneiss (og) and undifferentiated intrusive rocks (g).

Metamorphic Rocks

MESOZOIC

- **Mesozoic (includes KT):** greenschist to mid- amphibolite facies rocks (gs, ml, mm), calcsilicates (mc), paragneiss (pg), mylonite (my) and undifferentiated metamorphic rocks (m).

PALEOZOIC

- **Paleozoic (includes PJ):** greenschist to lower- amphibolite facies rocks (gs, ml), paragneiss (pg) and undifferentiated metamorphic rocks (m).

PROTEROZOIC

- **Proterozoic:** lower amphibolite facies rocks (ml), paragneiss (pg), mylonite (my) and undifferentiated metamorphic rocks (m).

AGE UNKNOWN

- **Age unknown or poorly constrained:** greenschist to mid- amphibolite facies rocks (gs, ml, mm), calcsilicates (mc), paragneiss (pg) and undifferentiated metamorphic rocks (m).

Local Geology

Stratigraphy

The MCFARLANE property is underlain by south striking, steeply west dipping, Late Proterozoic age strata correlated to lower Windermere Supergroup on the western limb of the Purcell Anticlinorium. Correlations indicate the strata belong to a continuous succession comprising the Horsethief Creek Group (Fig. 4).

Structure

The structure of the McFarlane Creek area is dominated by its position on the western flank of the Purcell Anticlinorium, a north plunging fold of regional significance. The Purcell Anticlinorium is allochthonous with respect to North American cratonic basement, having been transported northeastward in the hanging wall of the Purcell Thrust. This major structure has been complicated slightly by a number of regional and local faults, discussed below with reference to the Kootenay Lake mapsheet of Reesor (1996). An early folding event has been proposed for early structures interpreted to have developed in the Late Proterozoic during the Goat River Orogeny (Höy 1993).

The prominent faults in the Baker Creek area are interpreted to be predominantly the result of the Laramide orogeny, characterized by east-verging, west-dipping thrust faults. The major fault system of the area is the St. Mary / Hall Lake fault system, interpreted to be a long lived fault initiated in the Late Proterozoic as a growth fault and periodically active at least into the Laramide orogeny. Eastward directed movement across the St. Mary / Hall Lake fault resulted in steeply dipping strata on the western limb of the Purcell Anticlinorium being juxtaposed against relatively shallowly to moderately dipping strata closer to the hinge axis. Significant dip displacement is indicated across the fault east of Sanca Creek where Proterozoic lower Creston strata has been juxtaposed against early Paleozoic Cambrian Eager Formation strata. Later thrust faults are evident in the hanging wall of the St. Mary / Hall Lake fault. The Redding Creek fault is a locally significant fault. It is a west dipping, east verging thrust fault that juxtaposes middle Creston strata against the lower member of the Coppery Creek group. A number of smaller, normal faults are indicated in the hanging wall of the Redding Creek Fault, all of which appear to have minor dip (and probably strike-slip) movement. All of the faults in the hanging wall of the St. Mary / Hall Lake fault are interpreted to be older than the Cretaceous Mount Skelly Pluton (Bayonne Magmatic Belt) as all are truncated at the contact of the pluton..

Property Geology

No geological mapping has been completed on the property by the current owner. As such, the following description of the geology characterizing the MCFARLANE property has been taken from Ayer (1981).

“The (MOLY) property has limited exposure with an estimated 5% outcrop over the total area. ...The claims are underlain by Proterozoic metasedimentary rocks of the Horsethief Creek Group intruded by Cretaceous (?) stocks of quartz monzonite. Rocks of the Horsethief Creek Group occur in the eastern half of the property and consist of fine-grained mica schists, schistose meta-sandstone, meta-conglomerates and amphibolites. Locally these meta-sediments have been altered to garnet and epidote bearing, laminated skarn rocks, where they occur adjacent to the quartz monzonite stock in the south-central corner of the property.

The quartz monzonite is predominantly light grey and medium-grained with 5 to 10% biotite in a subhedral-granular textured groundmass with occasional coarse-grained alkali feldspar phenocrsts. Minor younger phases of equigranular and leucocratic (less than 5% biotite) medium-grained alaskite and fine-grained aplite are also present. In several drill holes (DK-81-2 & 3) porphyry dykes with fine-grained alkali feldspar phenocrysts were observed cutting meta-sediments.

The foliation and bedding in the metasediments are generally northerly striking with gentle easterly dips in the northern portion and steep easterly and westerly dips in the south. No major folds have been identified but minor folds are visible in outcrops and drill core. Jointing is best developed in the quartz monzonite with the dominant direction being northeasterly. Quartz veins commonly occupy northeast to east-west trending joints and fractures."

Mineralization and Alteration

"Disseminated molybdenite and pyrite mineralization occur in quartz veins which range from less than 1 cm to over 1 m in thickness. The molybdenite bearing veins appear to be most abundant in the vicinity of the stock in the south-eastern corner of the property and at the eastern contacts of the main quartz monzonite intrusion in the central portion of the claim.

Alteration appears to be best developed in quartz monzonite rock. Alteration zones consist of potassic, propyllitic and phyllic assemblages. Potassic alteration results in a pink coloured quartz monzonite with a relatively high proportion of potassium feldspar and biotite altered to chlorite. Propyllitic alteration results in a greenish grey quartz monzonite with epidotization of plagioclase and biotite altered to chlorite. Potassic and propyllitic alteration zones are pervasive, however no systematic zonation has been recognized. Phyllic alteration of quartz monzonite is texture destructive, resulting in an equigranular rock rich in quartz and muscovite. This type of alteration has only been recognized in the selvedges of quartz veins" (Ayer 1981).

Jasper Mining Corporation

McFarlane Project
Figure 4 - Property Geology

Projection - NAD 1983 UTM Zone 11N	Date - 07/11/2011
Nominal Scale - 1 : 25 000	Drawn By - NT

516000 518000 520000 522000 524000

5496000 5494000 5492000

ECm-TS
Np-HC3p
Qt-al
ECt-CB
BEN DERBY
GRAY CREEK IRON NORTH
GRAY CREEK IRON SOUTH
Np-T
Mp-MN3
Mp-MN4
Mp-MN3
Np-HC3
Np-HC2
Np-HC1
Np-HC3p
Np-HC3c
Text

N

0 1,000 2,000 3,000
Meters

Geology after Brown et al, 2011
Refer to GSC Open File 6307 for legend

Legend

- MinFile Occurrence
- McFarlane Tenure

Digital Road Atlas

- Rough or Loose Roads
- Paved Roads
- Highway paved
- Trail
- River
- Wetland
- Water Body

2007-08 Exploration Program

The 2007 exploration program consisted of chip and soil sampling, and diamond drilling. The soil program consisted of 435 samples obtained from five contour soil lines. Thirty-four chip samples were obtained from molybdenite-bearing quartz veins located along a recently exposed roadcut. Five grab samples were taken from the back of an adit described as the Ben-Derby MINFILE occurrence. A total of 5 BTW drill holes, MF07-01 to MF07-05 inclusive, totaling 1209.43m were drilled from four separate pads, from which 121 core samples were obtained.

The 2008 program consisted of soil sampling, an induced polarization (IP) geophysical survey, and the continuation of diamond drilling from the 2007 program. Infill soil sampling culminating in 1013 samples was conducted over the McFarlane-Lydy property with the IP survey done on the McFarlane property. Diamond drilling was done on the western portion of the McFarlane property from multiple pads. A total of 76 NQ size diamond drill holes generating 14,587.2m was reported.

This report details the core descriptions of seventeen NQ2 size drill holes, and the accompanying analytical results for nine drill holes. Three of the drill holes are from the 2007 drill campaign, with the remaining fourteen drill holes from the 2008 drill program.

The drill core is stored in Cranbrook, B.C. at Jasper Mining Ltd.'s core storage facility located in the Industrial Park complex.

Table 2 – Diamond Drill Hole Locations

Drill Hole	Easting	Northing	Elevation	Inclination	Azimuth	Depth
MF07-14	516230	5494488	838	-60	140	173
MF07-15	516257	5494420	856	-45	348	229.2
MF07-21	516515	5494408	947	-44	340	222.3
MF08-28	516510	5494365	933	-45	360	239
MF08-30	516510	5494365	933	-43	355	275.5
MF08-42	516697	5494486	1010	-60	127	349
MF08-44	516689	5494442	1001	-47	344	269.5
MF08-45	516689	5494442	1001	-56	288	230.4
MF08-48	516581	5494542	965	-61	102	182.74
MF08-49	516595	5494480	972	-45	156	238.6
MF08-50	516595	5494480	972	-60	98	210
MF08-51	516581	5494542	965	-47	49	194.5
MF08-52	516581	5494542	965	-53	17	200.5
MF08-54	516615	5494393	1041	-44	309	266.2
MF08-66	516800	5494784	1042	-47	136	231.4
MF08-69	516800	5494784	1042	-56	134	251.8

**Note: down hole survey test results not available*

2011 Diamond Drill Hole Logging

The focus of the 2007 and 2008 drill program was to exploit economic grade molybdenum and minor tungsten hosted within quartz veins and alteration assemblages within the Horsethief Creek Goup metasediments and the Crawford stock quartz monzonite. The drill programs were located on the northwestern portion of the property between Birkbeck and Mcfarlane Creeks, near the vicinity of two adits exposing relatively thick locally high-grade molybdenite veins. The drill holes indicate a close correlation to the property geology, with minor apophyses of the Crawford stock in the form of granitic dykes being intersected at surface in the easternmost drill holes, notably MF08-66 and MF08-69.

Ayer (1981) reports that "the foliation in the bedding is generally north striking with gentle easterly dips in the northern portion and steep easterly and westerly dips in the south". Angle to core axis measurements of the drilll core in general agree with this. The majority of the drill holes appear to have been oriented to intersect westerly dipping strata. The exception is the fan of drill holes adjacent to the eastern intrusive/metasediment contact which are oriented primarily northward, possibly in response to structural influence.

Lithology

The Proterozoic Horsethief Group metasediments display alteration associated with the Crawford stock intrusive. Very fine to fine grain interbedded siltstones and minor sandstones have a prominent foliation which texturally displays mineral lineation to variably spottted as a result of intense sericite-chlorite alteration and local biotite hornfels development. The metamorphic grade is labelled as phyllite to schist, with localized coarse muscovite and pyrophyllite common to vein selvages and the sediments. Occasional epidote-garnet development is reported. There is no apparent thermal alteration zone at the contact.

The Cretaceous quartz monzonite is typically equicrystalline, phaneritic (medium grain) with subhedral feldspar and quartz with rare phenocrysts of feldspar. Biotite is generally euhedral. Occasional subordinate porphyritic granite occurs either in direct contact, or as dykes within the intrusive host or the metasediments. Minor, late stage lamprophyre dykes cut the intrusive fabric and often exhibiting a sheared texture along the contacts. Complete diamond drill hole logs and strip logs are presented in Appendix IV.

Mineralization

Nine of the seventeen drill holes were sampled. Sample interval selection was based predominantly on alteration and visible pyrite, molybdenite, and scheelite mineralization. Drill hole MF08-30 was sampled in entirety at the request of Jasper Mining Ltd. to ascertain the possible presence of disseminated fine grained mineralization.

Sulphide mineralization occurs in two forms, vein-related and within sections of propyllitic/potassic alteration selective to the quartz monzonite.

Vein-related

The vein-related style occurs as fine disseminations to locally coarse aggregates of molybdenite as selvages to predominantly narrow (5-15 cm) white quartz veins. The molybdenite is typically in

association with and subordinate to pyrite. The quartz veins occur primarily within the quartz monzonite, generally within the upper 150 m from the contact with the metasediments. By volume they occupy 5-15% of the section, generally on the lower end.

Style of emplacement is deemed as ptygmatic, with angles to core axis varying between 10-20 and 40-60 degrees.

The tenor of sulphide mineralization is generally consistent. Pyrite is typically described as minor to weakly disseminated with associated molybdenite as weak to rare, or very rare. Sphalerite and lesser galena are noted as rare occurrences primarily related to veining.

Propyllitic/potassic

This style of alteration has been noted in keeping with the description by Ayer under the aforementioned Mineralization and Alteration section under the Geology heading. Propyllitic alteration is typically spotty to locally intense. Epidote development is relatively minor, and shadowed by intense orthoclase development rendering the unit a pink coloration. Biotite is commonly altered to chlorite. Muscovite is locally well developed in relatively narrow zones and often with a characteristic miarolitic texture. It occurs within the intrusive groundmass and often as selvages to quartz veins in direct association with pyrite, variably with weak to rare molybdenite.

Significant molybdenum mineralization is shown in the table below. Drill holes are discussed in relation to significant intercepts.

Table 3- Significant Intercepts

DDH ID	From (m)	To (m)	Length (m)	Avg (Mo ppm)
MF08-30	52	53	1	441
MF08-30	209	210	1	1065
MF08-44	141	144	3	363
MF08-44	154	158	4	832
MF08-44	195	198	3	579
Including	195	196	1	1352
MF08-49	78	80	2	706
MF08-50	74	76	2	666
MF08-50	84	86	2	990
MF08-51	114	117	3	483
MF08-51	121	123	2	1456
MF08-66	163	165	2	380
MF08-69	111	120	9	286
Including	116	120	4	424

Discussion of Mineralized Intercepts

MF08-30

Approximately ninety percent of this drill hole consists of biotitic quartz monzonite. Propylitic alteration persists throughout the monzonite section as very weak to spotty, consisting of narrow bands and patches of potassic alteration with abundant associated muscovite. Narrow quartz veins occurring at 52.2-52.4 m and 209.6-209.66 m host the significant mineralization. The former contains abundant molybdenite mainly along its contact. The lowermost 6 cm quartz vein hosts pyrite and molybdenite restricted to the contact. No mineralization was noted in the adjacent host rock.. Angle to core axis attitudes are 34 and 23 degrees, respectively.

MF08-44

Well developed to patchy propyllitic alteration is noted from 139.4-157.4 m, with intense alteration consisting of muscovite, epidote and lesser chlorite. Sulphide mineralization occurs primarily as selvages to quartz veins. The veins share a common attitude with the lowermost veining in MF08-30.

A relatively large quartz vein from 154.0-157.4 m hosts an uppermost significant molybdenum value of 832ppm.

Thin, hairline fractures host molybdenite within a zone of potassic alteration from 187.5-207.0 m, generating the second highest molybdenum value over 1.0 m from 195.0-196.0 m of 1352 ppm Mo. Pyrite is locally abundant.

MF08-49

Significant mineralization occurs over a two metre interval at the phyllite-quartz monzonite contact. The mineralization is generally weak, and primarily restricted to narrow quartz veins which occupy only 33 cm of the sample interval within the 24 m sample section from 77.0-101.0 m. Weakly disseminated pyrite and molybdenite occurs in intense potassic-muscovite alteration zones.

MF08-50

Mineralization is best developed within twenty metres of the phyllite-quartz monzonite contact. Alteration is described as spotty to weak propylitic with localized intervals of intense potassic alteration, and near massive muscovite development. The muscovite is typically associated with quartz veining which occupies less than 4% of the sample section from 65.0-99.0 m. Pyrite and molybdenite occur as disseminations, with the latter being reported as very rare within the potassic altered sections.

MF08-51

Within the quartz monzonite, relatively abundant quartz veins occur over the sample interval which generated significant molybdenum values. Vuggy, white bull quartz veins host minor coarsely crystalline pyrite and weakly disseminated molybdenite. Molybdenite rarely occurs in the weak potassic-muscovite altered quartz monzonite. The highest analytical value of 1456 ppm Mo occurs from 121.0-123.0 m.

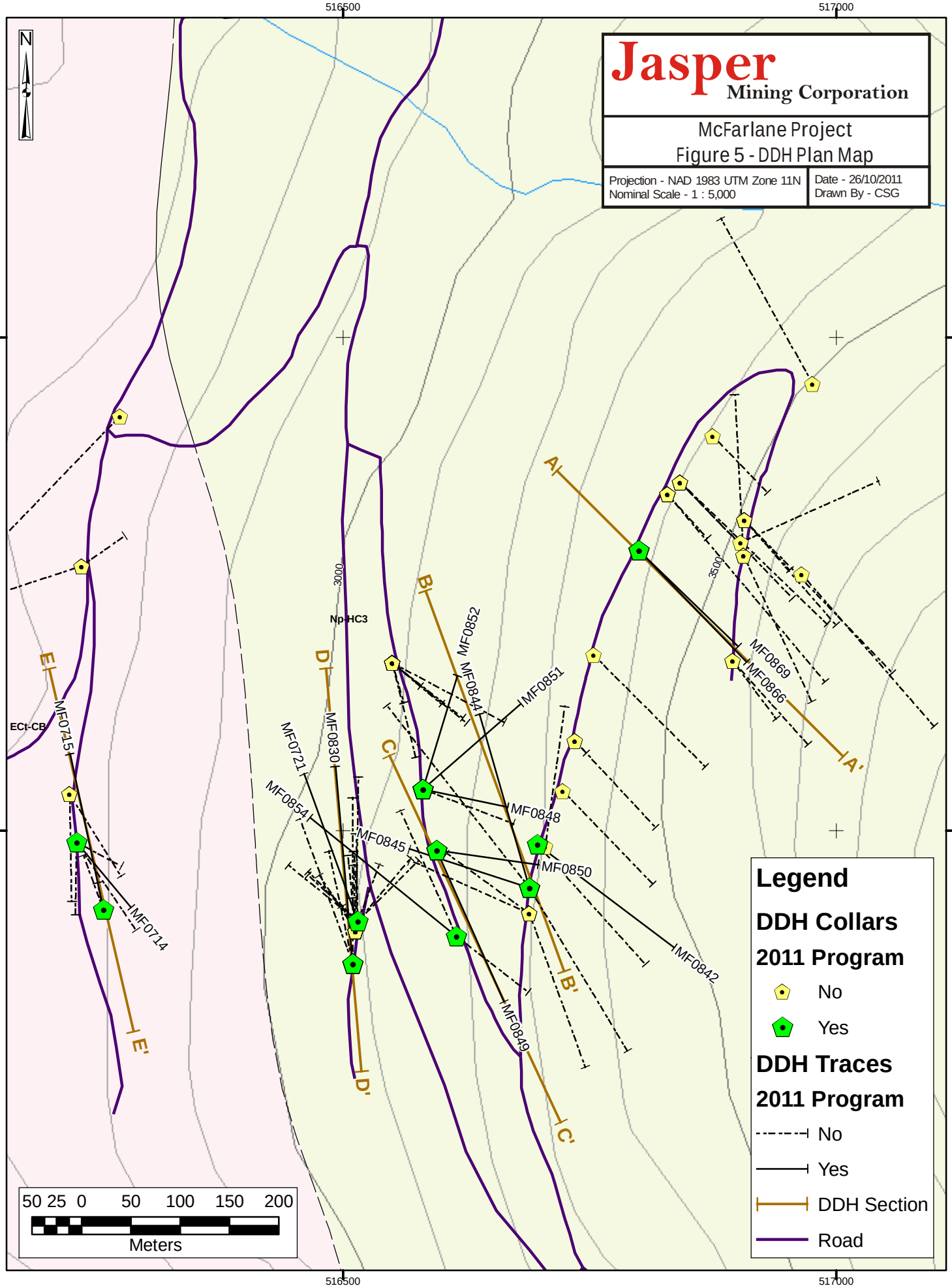
The relative abundance of quartz veins (8.2% by volume from 111.0-143.0 m) which in the majority display associated suphide mineralization, relates to the historical documentation of localized high grade mineralization seen in abundant quartz veins in adits on the property.

MF08-66

The significant mineralization is hosted within a zone of strong to locally intense propyllitic alteration, in which local potassic alteration completely alters the quartz monzonite to massive pink orthoclase and biotite to chlorite. The section occurs from 119.3-176.0 m. Mineralization in the form of pyrite and molybdenite are reported as rare to very rare, respectively, within the alteration zone. These sulphides are locally variably enriched in scattered narrow quartz veins in this section yet are described as minor to rare.

MF08-69

This drill hole contains the most extensive section of significant molybdenum at 9.0 m. The interval from 111.0-120.0 m occurs within three metres of the schist-quartz monzonite contact. This section is one of the most intense propyllitic alteration zones which is asssociated with quartz veining. Molybdenite and pyrite are preferentially better developed within the quartz veins and selvage contacts. Molybdenite is described as very rare within the propyllitically altered intrusive groundmass.


Jasper
Mining Corporation
McFarlane Project
Figure 5 - DDH Plan Map
Projection - NAD 1983 UTM Zone 11N
Nominal Scale - 1 : 5,000
Date - 26/10/2011
Drawn By - CSG
N
516500
517000
5495000
5494500
3000
3500
Np-HC3
ECt-CB
A
A'
B
B'
C
C'
D
D'
E
E'
MF0715
MF0714
MF0721
MF0830
MF0852
MF0844
MF0851
MF0854
MF0845
MF0848
MF0850
MF0842
MF0849
MF0869
MF0866
50 25 0 50 100 150 200
Meters
Legend
DDH Collars
2011 Program
No
Yes
DDH Traces
2011 Program
No
Yes
DDH Section
Road

TOPOGRAPHY

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NUMBER BANDS	L/R	COL	RANGE
Mo_ppm	R		1000
			300
			100
			50

ROCK CODES	PAT	LABEL
Rock_Type		Granite
		Greenstone
		Phyllite
		Quartz Monzonite
		Schist

SECTION SPECS:

REF. PT. E, N	516862 m	5494720 m
EXTENTS	412.3 m	662.5 m
SECTION TOP, BOT	1166 m	503.8 m
TOLERANCE +/-	25 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

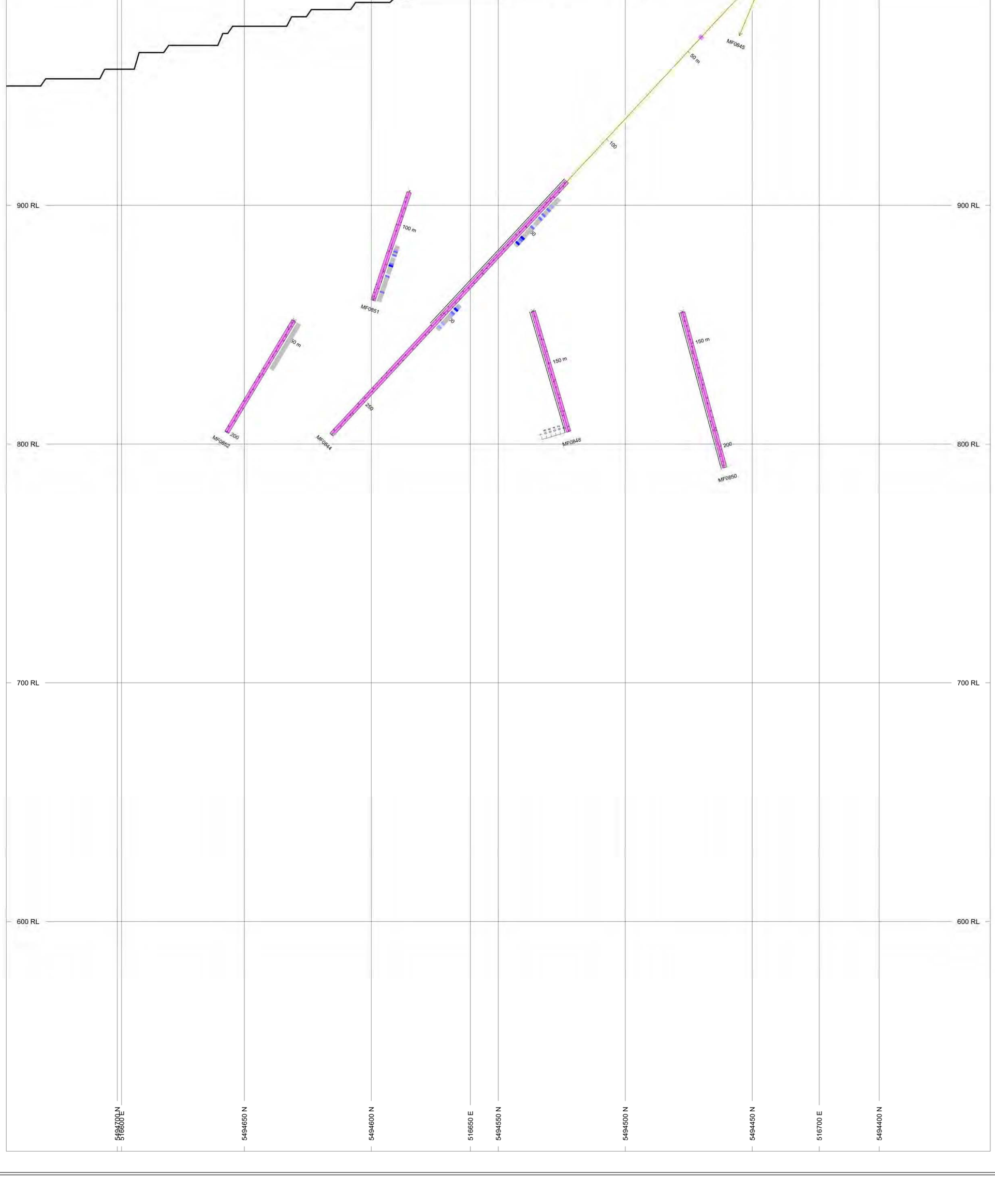
AZIMUTH = 135°

N W E S

Jasper Mining Corp.

Figure 6a

Section A



TOPOGRAPHY
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BAR GRAPHS	L/R	COL
Moly_Pct	L	

NUMBER BANDS	L/R	COL	RANGE
Mo_ppm	R		1000
			300
			100
			50

ROCK CODES	PAT	LABEL
Rock_Type		Aplite
		Greenstone
		Phyllite
		Quartz Monzonite
		Schist

SECTION SPECS:

REF. PT. E, N	516654 m	5494550 m
EXTENTS	412.3 m	662.5 m
SECTION TOP, BOT	1166 m	503.8 m
TOLERANCE +/-	20 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

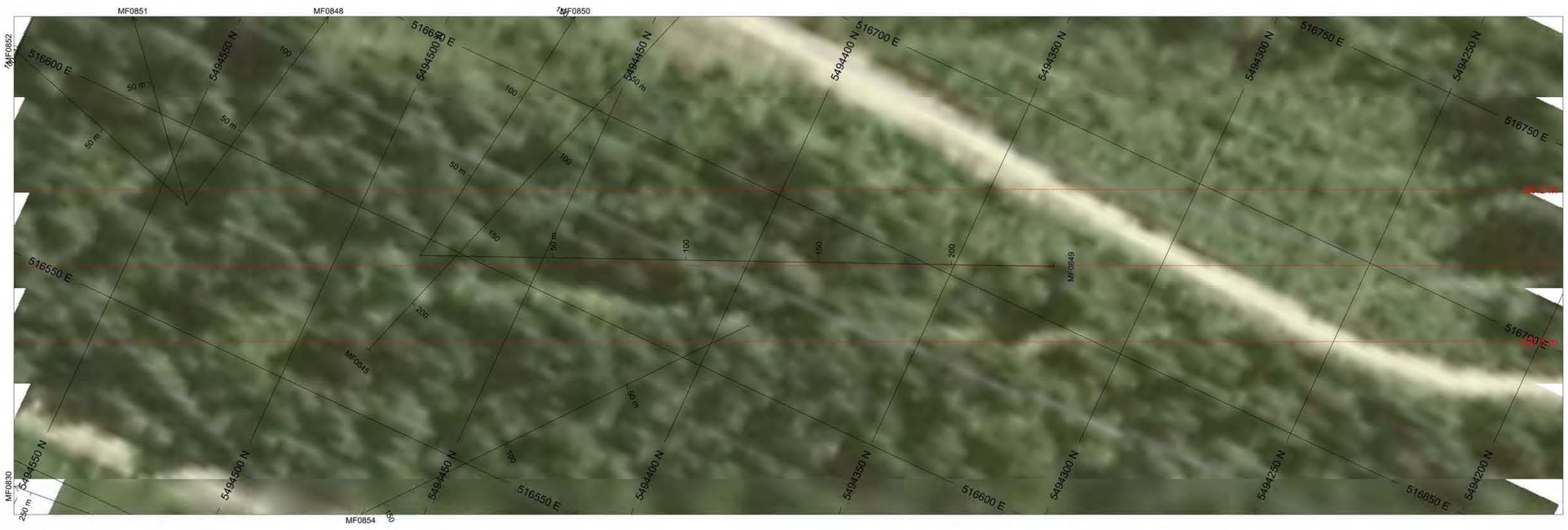
AZIMUTH = 160°

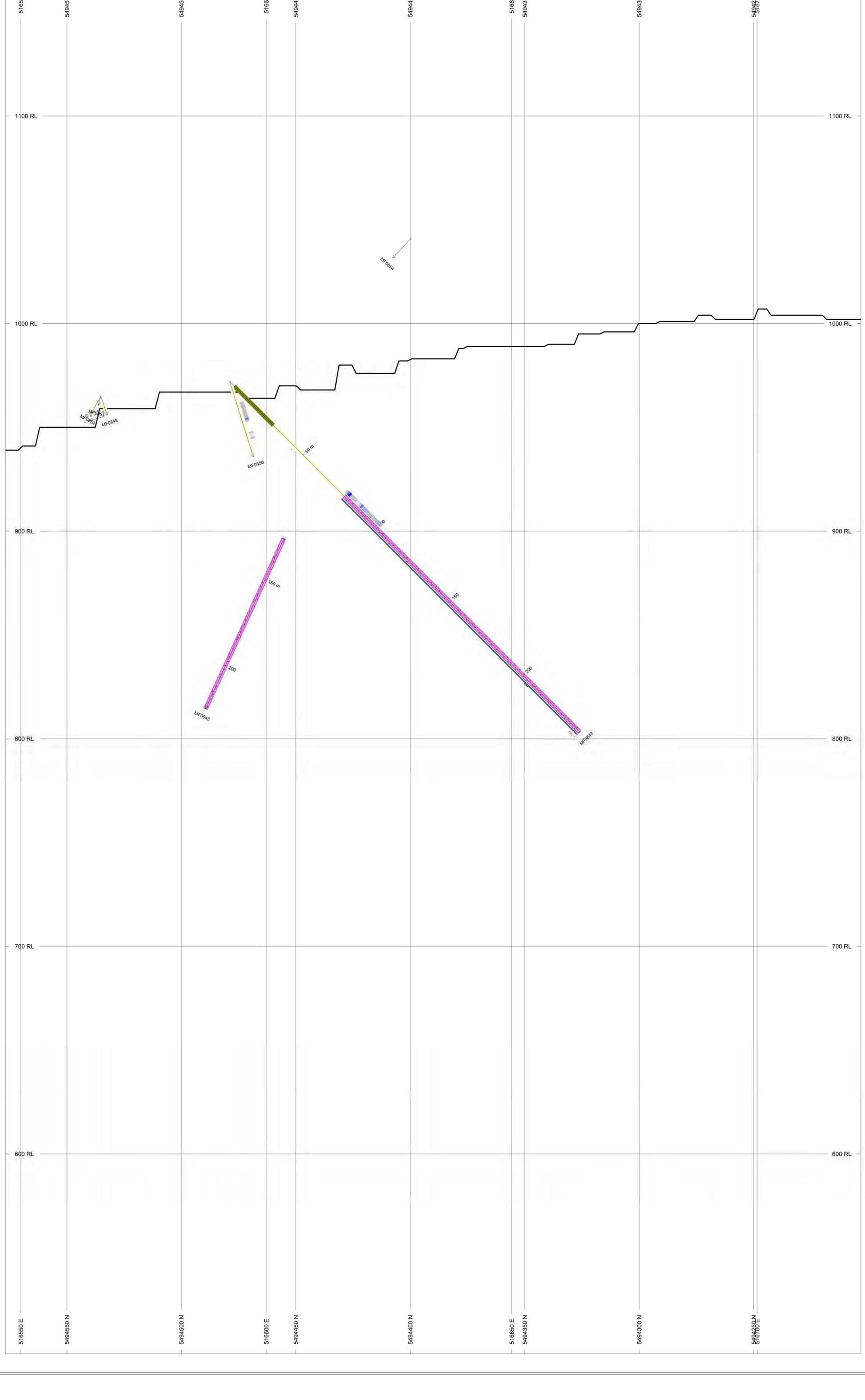
N W E S

Jasper Mining Corp.

Figure 6b

Section B





TOPOGRAPHY
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BAR GRAPHS	L/R	COL
Moly_Pct	L	

NUMBER BANDS	L/R	COL	RANGE
Mo_ppm	R		1000
			300
			100
			50

ROCK CODES	PAT	LABEL
Rock_Type		Greenstone
		Phyllite
		Quartz Monzonite
		Schist

SECTION SPECS:

REF. PT. E, N	516634 m	5494390 m
EXTENTS	412.3 m	662.5 m
SECTION TOP, BOT	1166 m	503.8 m
TOLERANCE +/-	20.25 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

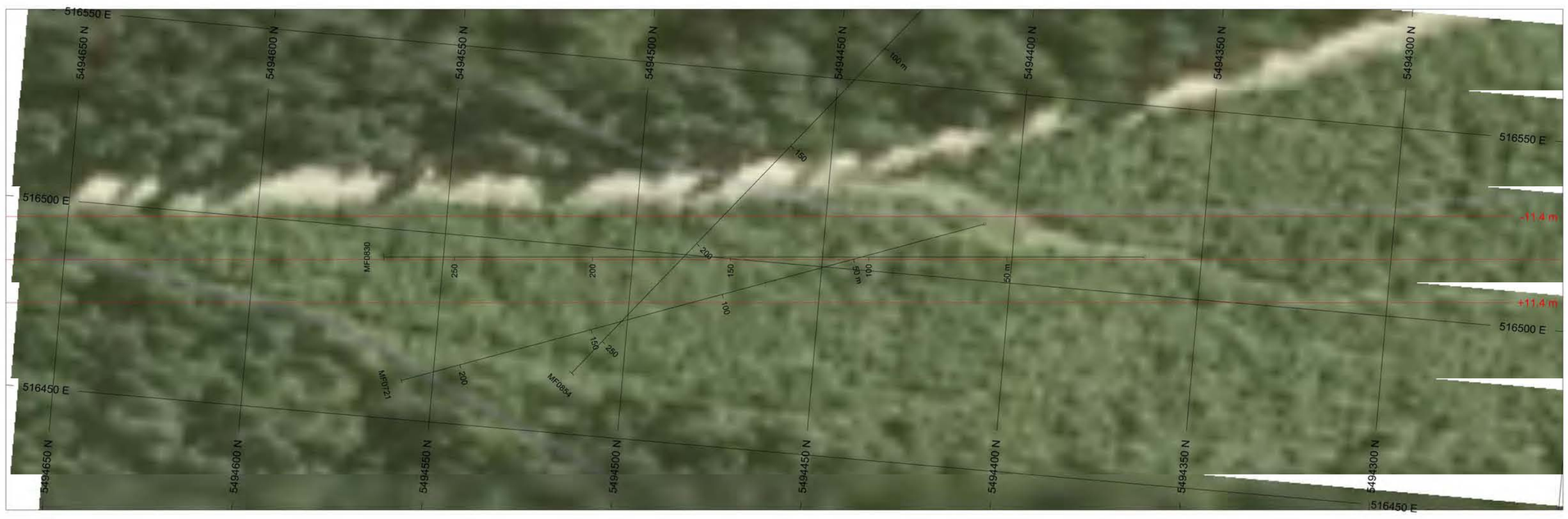
AZIMUTH = 155°

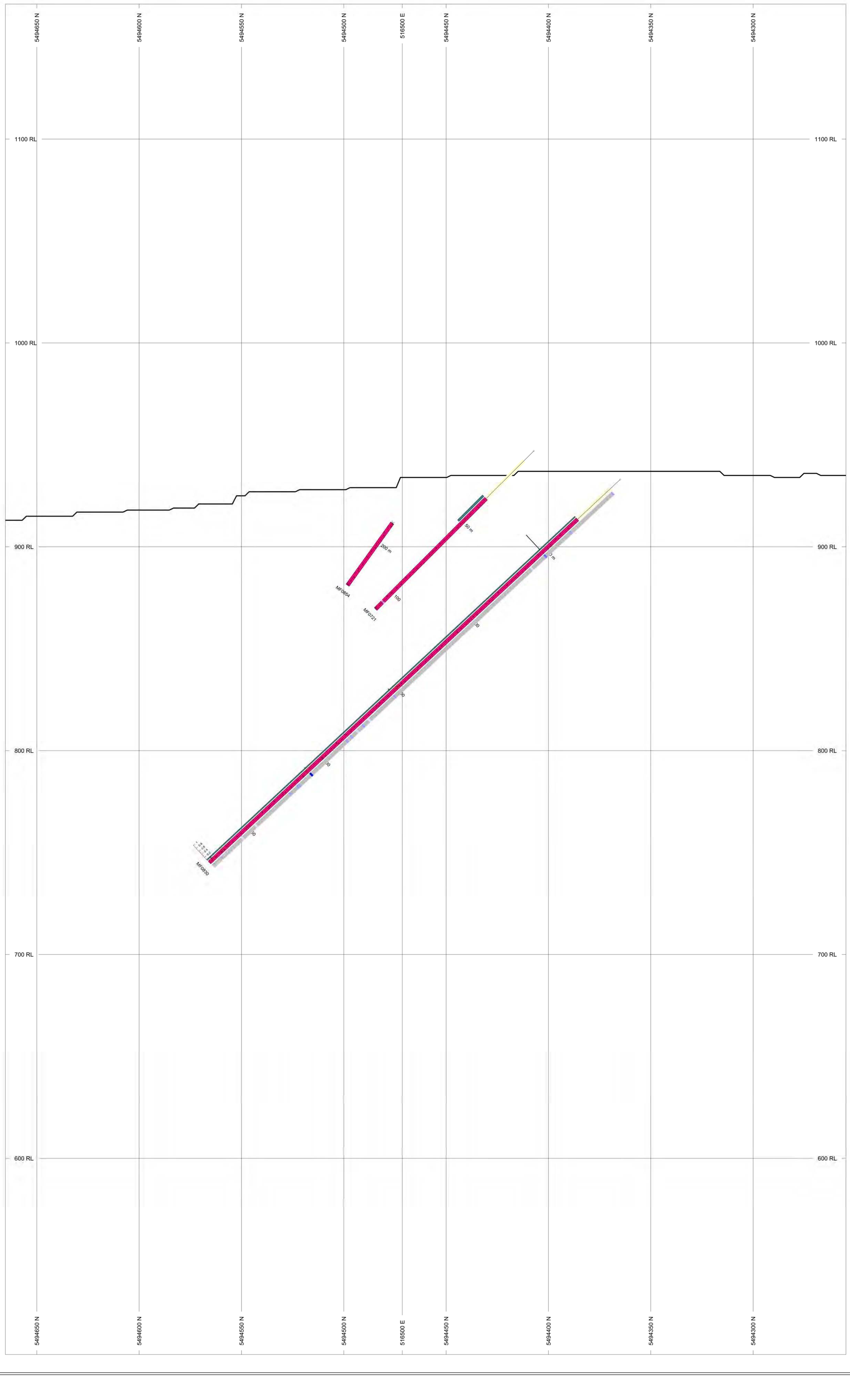
N W E S

Jasper Mining Corp.

Figure 6

Section C





TOPOGRAPHY
dblbnd.adf

BAR GRAPHS	L/R	COL
Moly_Pct	L	

NUMBER BANDS	L/R	COL	RANGE
Mo_ppm	R		1000
			300
			100
			50

ROCK CODES	PAT	LABEL
Rock_Type		Aplite
		Felsite
		Greenstone
		Phyllite
		Quartz Monzonite

SECTION SPECS:

REF. PT. E, N	516501 m	5494460 m
EXTENTS	412.3 m	662.5 m
SECTION TOP, BOT	1166 m	503.8 m
TOLERANCE +/-	11.4 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

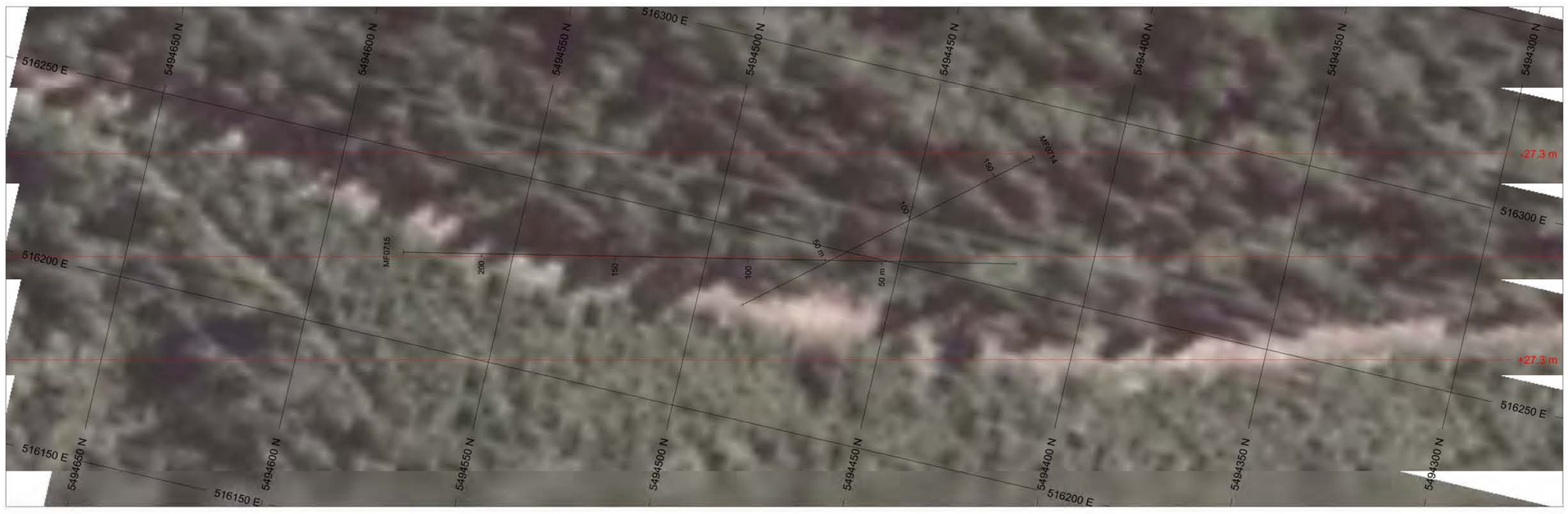
AZIMUTH = 175°

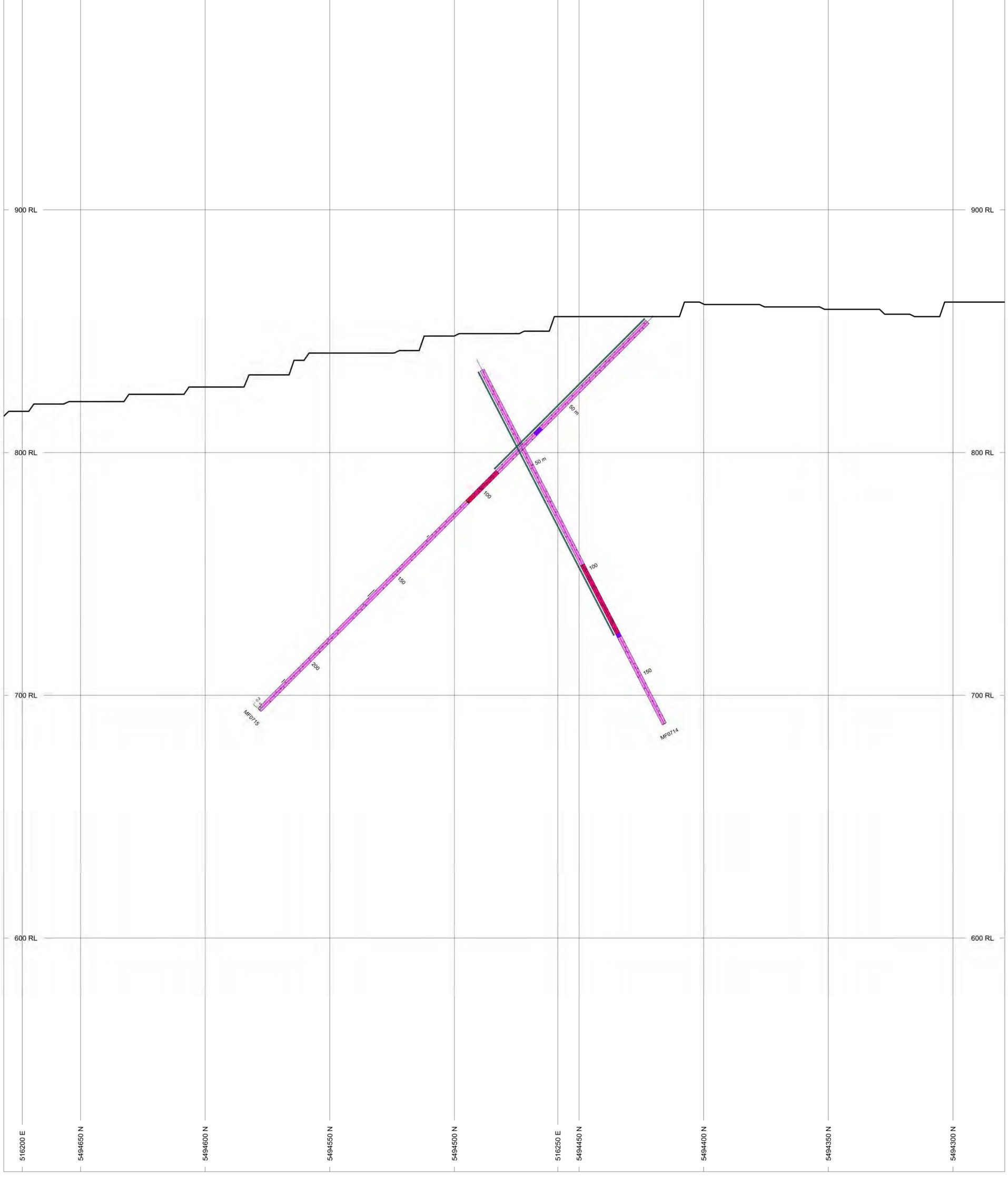
N W E S

Jasper Mining Corp.

Figure 6d

Section D





TOPOGRAPHY
dblbnd.adf

BAR GRAPHS	L/R	COL
Moly_Pct	L	

NUMBER BANDS	L/R	COL	RANGE
Mo_ppm	R		1000
			300
			100
			50

ROCK CODES	PAT	LABEL
Rock_Type		Lamprophyre
		Porphyritic Granite
		Quartz Monzonite

SECTION SPECS:

REF. PT. E, N	516245 m	5494480 m
EXTENTS	412.3 m	662.5 m
SECTION TOP, BOT	1166 m	503.8 m
TOLERANCE +/-	27.3 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

AZIMUTH = 166.9°

N W E S

Jasper Mining Corp.

Figure 6e

Section E

Conclusions

Without exception the significant molybdenite mineralization is hosted within the Cretaceous Crawford stock quartz monzonite. It is preferentially enriched primarily as selvages to late stage quartz veins, and invariably in association with pyrite. These veins appear to have two prominent attitudes, namely at 45-55 degrees and 10-20 degrees. Surface expressions of the quartz veins commonly occupy northeast to east-west trending joints and fractures (Ayer, 1981), however, the orientation of the veins in drill core is not clear. The pronounced foliation in the metasediments does not persist in the quartz monzonite rendering a relationship of foliation to veining uncertain. Should the operator elect to pursue addtional drilling it is recommended that oriented core be utlized as an aid to vectoring drill holes. It is presumed that the 2007-2008 drill programs were designed in part in relation to the dominant structural fabric within the property, however, compositional layering does not preclude a predictive model of vein assemblage. It would be worthwhile to do a statistical comparison of vein attitudes in relation to significant mineralization to see if one set dominates above others. The number of drill holes described in this report versus the total drilled to date by the operator (22.3%) is likely statistically too low to provide a baseline predictive model.

The significant mineralized intercepts show localized high grade molybdenum generally within a 1-2 metre sample interval. Thicker intervals are consistent with porphry style mineralization where potassic alteration is pronounced yet generally in association with a corresponding increase in silicic development.

Recommendations

This report deals with a very limited number of diamond drill holes from the 2007-2008 drill campaigns. The conclusions drawn reflect the findings of core logging and analytical results but cannot be brought forward to form a general consensus of the tenor of mineralization, zonation, or continuity.

All of the drill holes logged to date by Jasper Mining Corporation personnel, and the respective analytical data should be incorporated with the findings of this report to form a database upon which informed decisions can be based to guide exploration.

This dataset should be used to compliment additional drill core logging with a cautionary note to align convention in logging descriptions.

Should the operator elect to pursue addtional drilling it is recommended that oriented core be utlized as an aid to the vectoring of drill holes. It is presumed that the drill program was designed in part in relation to the dominant structural fabric within the property however the relationship to vein assemblage is inconclusive.

Historic assessment reports for Jasper Mining Corporation indicate limited geological mapping. Field investigation with an emphasis on structure, in particular the intersection of structures which may facilitate silica enrichment, is warranted and recommended. Core logging shows a direct association to muscovite enrichment with quartz veining. In view of this, the radiometric data from the AeroQuest airborne survey should be reviewed with all of the drill holes logged to date.

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2011 ASSESSMENT REPORT

VOLUME II - APPENDICES

ON THE

McFarlane Property
Diamond Drill Hole Logging
of
2007-2008 Diamond Drill Holes

Ft. Steele Mining District
Mapsheet 82F10E
Center of Work
Latitude 49° 35’ N, Longitude 116°44' W

Prepared for: Jasper Mining Corporation
Suite 501, 888-4th Ave S.W.
Calgary, Alberta
T2P 0V2

By

James Ryley, B.A. Geol
TerraLogic Exploration Inc.
Suite 200, 44-12th Avenue South
Cranbrook, B.C.
V1C 2R7

Date
November 09, 2011

APPENDIX I

STATEMENT OF QUALIFICATIONS

CERTIFICATE OF JAMES K. RYLEY

I, James K. Ryley, of 1504-12th Avenue South, Cranbrook, B.C., Canada, hereby certify that:

I graduated from the Southern Alberta Institute of Technology with an Associate of Science Degree in Petroleum Geology, 1981.

I am a graduate of the University of Montana with a Bachelor of Arts Degree, Professional Emphasis, 1990.

I have worked a collective total of 23 years as a Geological Technologist and a Geologist since graduation.

I have been employed by TerraLogic Exploration Inc. since April 01, 2007.

I personally supervised the logging of the diamond drill holes by David L. Pighin, P.Geo., and the sampling protocol by Robert Jordan, Geological Technician.

I am the principal author of this report.

Dated this 31st day of October, 2011, at Cranbrook, B.C.

James K. Ryley

APPENDIX II

STATEMENT OF EXPENDITURES

2011 McFarlane Expenditures					
Exploration Work type	**Comment**				**Totals**
Personnel (Name) / Position	**Data, Logging, Sampling, Supervision**	**No.**	**Rate**	**Subtotal**	
Fiona Katay/Geologist	May 01-30, 2011	0.5	525	$262.50	
Jim Ryley/Geologist, Project Supervision	May 01-Nov 02, 2011	2.5	675	$1,687.50	
Brad Robison/GIS Technician	July 01-Aug 31, 2011	3.5	525	$1,837.50	
Rob Jordan/Geological Technician	May 01-Sept 30, 2011	65.8	375	$24,675.00	
				$28,462.50	**$28,462.50**
Office Studies	**List Personnel**				
Report Writing	Jim Ryley, B.A. Geol	7.5	675	$4,725.00	
Data Entry/QAQC/Sections	Chris Gallagher, M.Sc. Geol	2.4	725	$1,725.50	
Data Entry	Leigh Block, Admin	3.5	330	$1,161.60	
Report Review/Edit	Aaron Higgs, B.Sc Geol	0.3	625	$187.50	
Figures	Nathan Talylor, GIS	0.8	395	$327.85	
Data management and analysis	Brad Robison, GIS	2.3	525	$1,207.50	
				$10,593.20	**$10,593.20**
Contractor					
Dave Pighin/Geologist: Core logging	High Grade Consulting	18.0	400	$7,200.00	
				$7,200.00	**$7,200.00**
Geochemical Analysis	**Number of Samples**		**Rate**	**Subtotal**	
Drill Core	610			$14,424.50	
				$14,424.50	**$14,424.50**
Transportation		**No.**	**Rate**	**Subtotal**	
truck rental		3.0	$100.00	$300.00	
kilometers		568.0	$0.30	$170.40	
fuel				$266.48	
				$736.88	**$736.88**
Geological and Geochemical					
Maps, Plotting				$240.00	
Sampling Consumables	sample bags, tags, flagging, etc…			$602.39	
				$842.39	**$842.39**

Equipment Rentals		**No.**	**Rate**	**Subtotal**	
Core Logging Shack - per day		50.0	75	$3,750.00	
Microscope Rental		18.0	20	$360.00	
				$4,110.00	**$4,110.00**
Freight					
Drill core samples				$2,322.74	
				$2,322.74	**$2,322.74**
TerraLogic Exploration Handling and Adminstration Fees				$2,678.42	
				$2,678.42	**$2,678.42**
TOTAL Expenditures					**$71,370.63**

APPENDIX III

3.1 - SAMPLING PROTOCOL

and

ANALYTICAL TECHNIQUES

3.1- SAMPLING PROTOCOL & ANALYTICAL TECHNIQUES

Sample Protocol

All drill core samples were collected by TerraLogic Exploration Services Inc. employees. The sampling process is standardized and continually monitored for quality assurance and quality control. The core was sampled in a designated core splitting room at the TerraLogic Exploration Services Inc. secured core facility in Cranbrook, B.C.

The drill core was sampled on one metre intervals, with rare exception in which the end of the sample run coincided with the termination of the drill hole. One sample deviates from this protocol, MF0844-002, which was a 0.50cm sample intermediary to a 2.5m sample run. This sample was lithology based with defined upper and lower contacts.

Sample intervals were laid out by David L. Pighin, P.Geo, who monitored and checked the sample recording by Robert Jordan, Geological technician. The samples were split in half, with the one half returned to the core box. The analytical sample was put into a poly bag with the sample number written on the side of the bag and on a strip of flagging that was inserted in the bag. Standards and blanks were inserted every 20^{th} sample interval with blanks subsequently inserted every 40^{th} interval beyond a 40m sample range. At least one standard and blank was inserted for each drill hole. Standards were from West Coast Minerals Ltd.

Approximately fifteen samples were placed in a large rice bag. The list of samples was compared to the database and any discrepancies investigated. Once the list of samples matched the database records, the bags were sealed with a unique identifier tamper-proof cable tie. The tie number was recorded to that specific shipment in the event of tampering observed at Acme Analytical Labs. in Vancouver, B.C.

Analytical Techniques

Acme Labs Ltd. of Vancouver, B.C. performed the geochemical analysis. The Acme package codes utilized are the following:

Drill core preparation – R200-250, crush, split, and pulverize 250gm drill core to 200 mesh

Blank – P200, pulverize to 85%-200 mesh

Multi-element analysis – Group 1D01, 1:1:1 Aqua regia digestion 32 element ICP-ES analysis, test wt.0.5gm

Au analysis – G601, lead collection fire-assay fusion – AAS Finish, test wt. 30Gm

Over-detection limits – G8TD-Four acid digestion ore grade

Appendices 3.2, 3.3, and 3.4 include the Method Specifications for the aforementioned analytical techniques.

AcmeLabs
CARECOMMITMENTPERFORMANCE

METHOD SPECIFICATIONS
GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes: 1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07
Sample Digestion: HNO3-HCl acid digestion
Instrumentation Method: ICP-ES (1D), ICP-MS (1DX, 1F)
Applicability: Sediment, Soil, Non-mineralized Rock and Drill Core

Method Description:

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

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

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

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

Limitations:

Au solubility can be limited by refractory and graphitic samples.

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METHOD SPECIFICATIONS
GROUP 3B AND G6 – PRECIOUS METALS BY FIRE ASSAY FUSION

Package Codes: 3B01 to 3B04, G601 to G614
Sample Digestion: Lead-collection fire assay fusion
Instrumentation Method: ICP-ES (3B, G6), ICP-MS (3B-MS), AA (3B, G6), Gravimetric (G6)
Applicability: Rock, Drill Core

Method Description:

Prepared sample is custom-blended with fire-assay fluxes, PbO litharge and a Ag inquart. Firing the charge at 1050 ^{o}C liberates Ag ± Au ± PGEs that report to the molten Pb-metal phase. After cooling the Pb button is recovered, placed in a cupel and fired at 950 ^{o}C to render a Ag ± Au ± PGEs dore bead. The bead is digested for ICP analysis or weighed and parted in ACS grade HNO_3 to dissolve Ag leaving a Au sponge. Au is weighed for Gravimetric determination; ACS grade HCl is added dissolving the Au ± PGE sponge for Instrument determination.

Element	3B Detection	3B Upper Limit	3B-MS Detection	3B-MS Upper Limit
Au	2 ppb	10000 ppb	1 ppb	10000 ppb
Pt	3 ppb	10000 ppb	0.1 ppb	10000 ppb
Pd	2 ppb	10000 ppb	0.5 ppb	10000 ppb

Element	G6 (Inst) Detection	G6 (Inst) Upper Limit	G6 (Grav) Detection	G6 (Grav) Upper Limit
Ag	--	--	50 g/t	1 ton
Au	0.005 g/t	10 g/t	0.17 g/t	1 ton
Pt	0.01 g/t	100 g/t	--	--
Pd	0.01 g/t	100 g/t	--	--

Note:
*Sulphide-rich samples require a 15g or smaller sample for proper fusion.

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METHOD SPECIFICATIONS
GROUP 8TD – FOUR-ACID DIGESTION ORE GRADE

Package Code: G8TD
Sample Digestion: HF-HNO3-$HClO_4$-HCl acid digestion
Determination Method: AAS
Applicability: Sediment, Soil, Non-mineralized Rock and Drill Core

Method Description:

A prepared sample is cold digested with HNO_3 solution, then heated in the digestion block with an acid solution of HCl-HF-$HClO_4$. For Mo analysis, $AlCl_3$ is added. After cooling, the solutions are brought to volume using dilute HCl. Sample splits of 0.5g are analyzed.

Element	Group 8TD Detection
Ag	1-1000 ppm
As	0.01-10 %
Cu	0.001-30 %
Fe	0.001-30 %
Mo	0.001-10 %
Pb	0.01-10 %
Zn	0.01-30 %

APPENDIX IV

4.1 DIAMOND DRILL LOGS

4.2 STRIP LOGS

4.3 DRILL HOLE SAMPLING LOG

DDH	From	To	Alteration						DDH_ALT_Note
ID			Type 1	Degree 1-5	Type 2	Degree 1-5	Type 3	Degree 1-5	
MF0714	4.6	97.3	Propylitic	2	Potassic	2	Sericite	3	Propylitic alteration, mainly potassic, muscovitic, sericitic, pyritic is wll developed from 4.6 to 97.3, from 4.6 to 53.0 talc? Replaces most of the biotite.
MF0714	97.3	129.9	Potassic	2	Silica	1	Epidote	1	Bands of intense Potassic alteration from 10cm to 2 meters thick cut the porphyritic granite, contacts are sharp and are gradational.
MF0714	131.6	173	Potassic	2					Potassic alteration is strongly developed to 164.0 and is spotty and weak to 173.0.
MF0715	3	29.15	Propylitic	2	Potassic	4	Chlorite	3	Propylitic alteration generally relatively strong, potassic alteration of 50% to 70% of the feldspar and chlorite of nearly all of the biotites.
MF0715	29.15	55.56	Potassic	4	Muscovite	2	Chlorite	1	Nearly 100% of feldspar is potassically altered with patch of late muscovite, biotite and chlorite is very rare, potassic continues as above to 65.0, 60.5 to top of lamprophyre dyke abund. Late lite green sericitization.
MF0715	108	131.5	Propylitic	2	Potassic	3	Muscovite	3	Is relatively strong from 108.0 to 131.5 and from
MF0715	131.5	229.7	Propylitic	1	Potassic	1			131.5 to 229.7 propylitic alteration is weak, spotty and locally intense.
MF0721	6.9	33.63	Sericite	3	Chlorite		Biotite		Sediments are totally recrystallized to mainly sericite, chlorite and locally biotite. Some scattered tiny sub hedral pink garments.
MF0721	33.63	51.25	Potassic	2	Muscovite	1			Weak potassic alteration
MF0721	33.63	222.3	Propylitic	1	Potassic	2			Propylitic alteration, mainly potassic, is weak and spatty to locally not developed at all, weak potassic and muscovitic alteration from 33.63 to 51.25 and from 64 - 66.0 and from 88.0 to 105.0 and from 105.0 to 115.3. Potassic alteration is strong, 115.
MF0721	64	66	Potassic	2	Muscovite	1			Weak potassic alteration
MF0721	88	115	Potassic	2	Muscovite	1			Weak potassic alteration
MF0721	115	128	Potassic	4	Muscovite	1			
MF0721	128	195.5	Potassic	3	Muscovite	1			
MF0721	195.5	203	Potassic	3	Muscovite	1			
MF0828	71.66	121.7	Propylitic	1					71.66 to 121.7 propylitic alteration is weak to non-existent. Elevated alteration is from 71.66-79.00m
MF0828	121.7	239.5	Propylitic	1					121.7 to 239.5 propylitic alteration is weak to rarely intense.
MF0830	6.5	14.5	Chlorite	4	Sericite	4	Biotite	3	Phyllites are totally recrystallized to chlorite and sericite
MF0830	14.5	28.6	Chlorite	4	Sericite	4	Biotite	3	Phyllites show recrystallization to chlorite and sericite, and biotite development. Rare wisps quartz.
MF0830	28.6	279.5	Propylitic	1	Chlorite	2	Epidote	1	Weak and spotty, with narrow patches and bands of potassic alteration, associated rare muscovite, epidote, locally biotite is altered to chlorite.
MF0842	4.7	25.9	Biotite	4	Chlorite	2	Sericite	3	Sedements totally recrystallized to biotite, chlorite and sericite.
MF0842	25.9	38.9	Muscovite	4	Chlorite	2			Totally recrystallized to muscorite and chlorite.
MF0842	38.9	62.7	Sericite	4	Chlorite	3	Biotite	2	Rock is totally altered to mainly sericite and chlorite, lessor biotite.
MF0842	62.7	79.7	Propylitic	2					Relatively well developed propylitic alteration
MF0842	138.9	146	Propylitic	2	Muscovite	3			Strong muscovite alteration
MF0842	234.5	337	Propylitic	3					Propylitic alteration stronger in this interval.
MF0844	3.1	10.7	Sericite	4	Chlorite	2	Biotite	2	Seds are completely altered to fine sericite, overprinted by patches of finely crystilline chlorite and specked by late dark reddish brown biotite.
MF0844	10.7	30.8	Sericite	4	Chlorite	2	Biotite	2	Totally altered to fine sericite, spotted and speckled by finely crystilline, green chlorite.
MF0844	30.8	53.2	Sericite	4	Chlorite	2	Biotite	2	Seds are totally recrystallized to fine sericite, overprinted by fine green chlorite and speckled by late dark brown biotite.

DDH	From	To	Alteration						DDH_ALT_Note
ID			Type 1	Degree 1-5	Type 2	Degree 1-5	Type 3	Degree 1-5	
MF0844	53.2	69.5	Sericite	4	Biotite	3	Chlorite	2	Seds totally recrystallized finely crystilline sericite, overprinted by dark brown biotite, manganapatite porphyroblasts, are scattered through out this interval.
MF0844	69.5	124.4	Sericite	3	Pyrophyllite	3	Chlorite	3	As previously described, pyrophyllite porphyroblasts are abundant through out this interval. The pyrophyllite increases in abundance towards the top of the quartz monzonite at 124.4 meters. Note - this manganapatite fluoresces (s.w.) yellowish orange -
MF0844	124.4	132.9	Propylitic	1	Potassic	1			weak, patchy
MF0844	124.4	269.5	Propylitic	2	Potassic	1	Muscovite	1	Patchy to locally intense propylitic alteration.
MF0844	132.9	139.4	Propylitic	4	Potassic	3			intense alteration
MF0844	139.4	157.4	Propylitic	2	Potassic	2			well developed to patchy
MF0844	157.4	187.5	Propylitic	1	Potassic	1			weakly patchy
MF0844	187.5	207	Propylitic	2	Potassic	1			patchy to locally well developed
MF0844	207	269.5	Propylitic	1	Potassic	1			propylitic alteration is weak and occur in irregular bands
MF0845	3.5	44.2	Sericite	4	Chlorite	3			Sediments are totally recrystallized to sericite and chlorite.
MF0845	44.2	66	Muscovite	4	Chlorite	3			Sediments and greenstone dyke are totally recrystallized to schist facies Meta sediments greenstone dykes are altered mainly to biotite and dark green chlorite with widely scattered subhedral lite pink garmets.
MF0845	66	68.3	Sericite	3					recrystalized schistose greenstone dyke.
MF0845	100.9	189.6	Propylitic	1	Potassic	1			Propylitic alteration from 100.9 to 189.6 is weak and occurs as widely scattered narrow bands and irregular patches,
MF0845	189.6	206	Propylitic	4	Potassic	3			189.6 to 206.0 propylitic alteration is strong and consists mainly of potassic, muscovite alteration this alteration is typically microlitic, propylitic alteration locally is overprinted by narrow zones of chloritization and associate carbonatization,
MF0845	206	230.3	Propylitic	1	Potassic	1			206.0 to 230.3 propylitic alteration is weak.
MF0848	2.85	14	Biotite	4	Sericite	3	Pyrophillite	2	Rock is totally crystalline and altered to mainly biotite, sericite and locally abundant Pyrophyllite.
MF0848	14	28.9	Chlorite	3	Muscovite	3			Totally recrystallized sedements with chloritization overprinting muscovite.
MF0848	28.9	53.6	Chlorite	4	Sericite	3	Pyrophillite	2	Sedements totally recrystallized to chlorite, sericite and late pyrophyllite.
MF0848	53.6	182.7	Propylitic	1					Propylitic, in general is weak and spotty through out this interval
MF0848	67	79	Potassic	3	Muscovite	3	Chlorite	2	The alteration is mainly potassic with abundant muscovite with minor chloritization of biotite, associated with this alteration is abundant vuggy white bull quartz vein generally with sulphides and coarsley crystalline muscovite.
MF0849	3	29.7	Muscovite	4	Chlorite	3	Biotite	2	Sediments are totally recrystallized to muscovite and chlorite.
MF0849	29.7	56	Sericite	4	Chlorite	3	Pyrophillite	2	Sediments totally altered is sericite, chlorite and pyrophyllite.
MF0849	56	78	Chlorite	4	Sericite	3	Biotite	2	Sediments totally altered to chlorite, sericite, biotite and lessor late pyrophyllite and garnets.
MF0849	78	238.6	Propylitic	2	Potassic	2	Muscovitic	2	Propylitic is intense to spotty from 78.0 to 238.6. Potassic and muscovitic alteration is dominant through out this interval and it is always miarolitic.
MF0850	3	53.2	Sericite	3	Chlorite	3	Pyrophillite	2	Sediments are totally recrystallized to chlorite and sericite and pyrophillite.
MF0850	53.2	68.2	Sericite	3	Chlorite	3	Biotite	2	Totally recrystallized to chlorite, biotite and sericite with widely scattered late subhedral pink garnets.
MF0850	65.2	100	Propylitic	1	Potassic	2			65.2 to 100.0 Propylitization is generally spotty to weak with local intervals of intense potassic alteration, intervals of near massive muscovitization, these intervals are rarely more than 50cm thick.

DDH	From	To	Alteration						DDH_ALT_Note
ID			Type 1	Degree 1-5	Type 2	Degree 1-5	Type 3	Degree 1-5	
MF0850	100	210	Propylitic	1	Potassic	1			100.0-210.0m propylitic alteration is very rare, locally biotite is altered to chlorite.
MF0851	5.2	60.6	Chlorite	4	Sericite	3	Biotite	2	Sediments totally recrystallized to chlorite and sericite.
MF0851	60.6	81.4	Chlorite	4	Sericite	3	Biotite	2	Sediments totally altered to chlorite, sericite, biotite and locally pyrophyllite.
MF0851	81.4	191.5	Propylitic	2	Potassic	2	Muscovite	1	The alteration in this hole as is in all of the other holes, is mainly potassic and muscovitic with minor pyrite, quartz veins and with chlorite after biotite.
MF0852	4.1	66	Sericite	4	Biotite	4	Pyrophillite	2	Totally recrystallized to finely crystalline biotite, sericite, with abundant disseminated coarsely crystalline prophyllite and rare subhedral pink garnets.
MF0852	66	73	Sericite	4	Chlorite	3			Totally recrystallized to fine sericite and lessor chlorite.
MF0852	73	93.5	Propylitic	1					Propylitic alteration is weak and spotty 99.6 to 126.0 propylitic alteration is weak to spotty, 126.0 to 166.0 propylitic alteration is intense consisting of strong potassic alteration assoc. muscovitation, weakly diss. epidote and chloritization of biot
MF0852	93.5	99.6	Potassic	4	Chlorite	3			intense potassic alteration, muscovite and chlorite after biotite,
MF0852	99.6	126	Propylitic	1					Weak to spotty.
MF0852	126	166	Potassic	4	Muscovite	3	Epidote	1	Intense propylitic alteration consisting of potassic and associated muscovitization, weak disseminated epidote and chlorite alteration of biotite.
MF0854	19.85	111	Sericite	4	Chlorite	3		1	These sediments are totally recrystallized and foliated but note the Aplite dykes and underlying quartz monzonite are not foliated.
MF0854	111	119	Potassic	3	Muscovite	3			Propylitization has weakly to intensely altered the quartz monzonite intrusive potassic and muscovitic alteration and minor epidotization occurs through out this interval but is most strongly developed from 111.0 to 119.0
MF0854	119	133	Chlorite	4					Thin late chloritized shears are widely scattered, cut core axis at 60 degrees,
MF0854	240	266.2	Potassic	4	Chlorite	3	Epidote	1	Propyitic alteration is very strongly developed from 240.0 to 266.2m.
MF0866	3.1	25.4	Limonite	2					Some surface weathering (Limonitization)
MF0866	25.4	48.8	Chlorite	3	Muscovite	3	Pyrophillite	2	Totally recrystallized sediments.
MF0866	48.8	67.3	Biotite	4	Chlorite	3	Sericite	2	Greenstone is totally altered to biotite, chlorite and sericite, granite prophyry and aplite dykes are fresh.
MF0866	67.3	112	Chlorite	3	Biotite	2	Muscovite	2	Greenstone is totally altered to biotite, chlorite and sericite, granite prophyry and aplite dykes are fresh.
MF0866	112	119.3	Biotite	3	Chlorite	2	Muscovite	2	Medium to coarsely crystalline muscovite development which is overprinted by medium crystalline biotite and chlorite
MF0866	119.3	176	Biotite	3	Orthoclase	3			Propylitic alteration is strong to locally intense, locally potassic alteration completely alters the quartz monzonite to massive pink orthoclase, with some remnant chlorite after biotite as at 131.0-133.7, 141.0-147.0.
MF0866	176	231.4	Propylitic	1	Potassic	2			Propylitic alteration is weak with widely scattered narrow bands of intense potassic alteration.
MF0869	17	22.2	Silica	3	Sericite	3			Dyke is intensely, silicified and sericitized.
MF0869	28.5	108.3	Sericite	3	Chlorite	2	Muscovite	2	Totally recrystallized sediments.
MF0869	108.3	117	Potassic	3					Intense propylitic alteration associated with quartz veining occurs.
MF0869	141	152	Potassic	3					Intense propylitic alteration associated with quartz veining occurs.
MF0869	170	181	Potassic	3					Intense propylitic alteration associated with quartz veining occurs.

DDH	From	To	Lithology	Rocktype		Bedding	Colour		Grainsize	Texture		Note
ID			Unit	Major	Minor		1	2		1	2	
MF0714	4.6	97.3	Crawford	Quartz Monzonite			mottled pink & white	speckled black, waxy green	equigranular	phaneritic		Generally medium grained, feldspar and quartz crystalline are subhedral, biotite generally euhedral.
MF0714	97.3	129.9	Crawford	Porphyritic Granite			grey with mottled white	speckled black		phaneritic	porphyritic	Phaneritic, generally porphyritic, with abundant subhedral phenocrysts of white feldspar (plagioclase) in a finely crystalline ground mass of quartz with lessor feldspar, biotite, chlorite, and muscovite.
MF0714	129.9	131.6		Lamprophyre			dark green			aphanitic		Finely crystalline biotite in an aphanitic ground mass of feldspar, chlorite, quartz and minor calcium carbonate
MF0714	131.6	173	Crawford	Quartz Monzonite			white	pink		phaneritic	porphyritic	Biotitic quartz monzonite, weakly magnetic.
MF0715	3	65	Crawford	Quartz Monzonite			mottled white & pink	grey, speckled black & green	medium	phaneritic	equicrystalline	Subhedral feldspar and quarts crystalline rare large feldspar phenocrysts, biotite is generally euhedral.
MF0715	65	68.7		Lamprophyre			dark green	pale green		subaphanitic	massive	Sheared dark green lamprophyre dyke.
MF0715	68.7	90.5	Crawford	Quartz Monzonite			mottled white & pink	grey, speckled black & green	medium	phaneritic	equicrystalline	Subhedral feldspar and quarts crystalline rare large feldspar phenocrysts, biotite is generally euhedral.
MF0715	90.5	108	Crawford	Porphyritic Granite			lite grey & speckled black	spotted white	medium	phaneritic		With subhedral plagioclase phenocrysts.
MF0715	108	229.7	Crawford	Quartz Monzonite			lite grey & speckled black	spotted white	medium	phaneritic		
MF0721	6.9	33.63	Horsethief	Phyllite			light green	medium green	very fine	foliated		Mainly a chlorite spotted sericitic phyllite with some interfoliated, bands of biotitic - chloritic - sericitic phyllite from 31.0 to 33.63, is chlorite - muscouitic schist.
MF0721	33.63	106	Crawford	Quartz Monzonite			mottled pink & white	mottled grey & white	equigranular	phaneritic	phenocrystic	Phaneritic, gen - med xtln; equigranular, rare large orthoclase phenocrysts, gen quartz and feldspar crystals are subhedral, biotitic typically euhedral.
MF0721	106	107		Aplite			light green		very fine	aphanitic		pyritic aplite dyke
MF0721	107	141.4	Crawford	Quartz Monzonite			mottled pink & white	mottled grey & white	equigranular	phaneritic	phenocrystic	Phaneritic, gen - med xtln; equigranular, rare large orthoclase phenocrysts, gen quartz and feldspar crystals are subhedral, biotitic typically euhedral.
MF0721	141.4	143.3		Felsite			pale white	gray	equigranular	phaneritic		Felsite dyke with intense muscovitization. Hosts disseminated moly at contact.
MF0721	143.3	223.3	Crawford	Quartz Monzonite			mottled pink & white	mottled grey & white	equigranular	phaneritic	phenocrystic	Phaneritic, gen - med xtln; equigranular, rare large orthoclase phenocrysts, gen quartz and feldspar crystals are subhedral, biotitic typically euhedral.
MF0828	71.66	239.5	Crawford	Quartz Monzonite					equigranular	phaneritic		Note: Core from 3.0 to 71.66 is missing. Biotite, Quartz Monzonite, generally weakly magnetic. quartz crystalline and euhedral biotite. 228.5 to 239.5 shear zone subparallel to core axis.
MF0830	6.5	14.5	Horsethief	Phyllite			light green	medium green	very fine	foliated		Texture is finely crystalline and foliated. Foliation cuts core axis at 33 degrees and 19 degrees.Chlorite overprints sericite and forms bands and speckles oriented parallel to foliation.
MF0830	14.5	28.6	Horsethief	Phyllite			light brown	dark brown	very fine	foliated		Finely crystalline, strongly foliated, with late dark brown biotite forming leopard spots elongated parallel to foliation. Foliation cuts core axis at 30 and 45 degrees.
MF0830	28.6	278.5	Crawford	Quartz Monzonite			mottled pink	white	equigranular	phaneritic	phenocrystic	Equigranular, medium crystalline, quartz and feldspar crystals, generally subhedral. Very widely scattered large orthoclase phenocrysts.Biotite generally euhedral. Weakly magnetic throughout except in areas of intense propylitic alteration.
MF0842	4.7	14.2	Horsethief	Schist	phyllite		dark grey	brownish grey	fine	foliated		Very rubbly core, mainly silty biotitic, sericitic phyllite. Texture is finely crystilline, weakly foliated, rubbly core. 14.2 to 17.2 mainly aplite rubble.
MF0842	14.2	17.2		Aplite			light pink					Mainly aplite rubble.
MF0842	17.2	25.9	Horsethief	Schist	phyllite		dark grey	brownish grey	fine	foliated		Very rubbly core, mainly silty biotitic, sericitic phyllite. Texture is finely crystilline, weakly foliated, rubbly core. 14.2 to 17.2 mainly aplite rubble.
MF0842	25.9	32.2	Horsethief	Schist	phyllite	medium	silvery grey	spotted green		medium		Medium crystalline, muscovite, spotted and speckled by late chlorite. Contains aplite dykes from 32.2-32.6m, and 37.9-38.5m.
MF0842	32.2	32.6		Aplite		massive	light pink		medium	phaneritic		Aplite dyke
MF0842	32.6	37.9	Horsethief	Schist	phyllite	medium	silvery grey	spotted green		medium		Medium crystalline, muscovite, spotted and speckled by late chlorite. Contains aplite dykes from 32.2-32.6m, and 37.9-38.5m.
MF0842	37.9	38.5		Aplite		massive	light pink		medium	phaneritic		Aplite dyke
MF0842	38.9	62.7	Horsethief	Phyllite		medium	silvery grey	green and brown	fine	foliated		Finely crystilline, finely foliated, spotted and speckled by chlorite and biotite, overprinted by relatively large crystilline of pyrophyllite, biotization and chloritization is crudely alined to the planes of foliation, pyrophyillite crystilline show no
MF0842	62.7	349	Crawford	Quartz Monzonite		massive	mottled pink	white	medium	phaneritic		Generally equicrystalline, rare large orthoclase phenocrysts, numerous pink aplite dykes.
MF0844	3.1	10.7	Horsethief	Phyllite		medium	mottled green	reddish brown and lite grey	fine			Seds are totally and finely recrystallized with an augen texture formed by elyptical shaped sericite structures, developed in a finely crystilline sericite biotite metrix.
MF0844	10.7	30.8	Horsethief	Phyllite		medium	mottled lite grey	speckled green	fine	foliated		Seds are totally recrystallized and finely foliated and generally finely crystilline.
MF0844	30.8	41	Horsethief	Phyllite		medium	mottled lite grey	green and dark reddish brown	fine			Texture is finely crystilline recrystallized seds.
MF0844	41	42.7		Aplite	muscovitic		lite green					Mucovitic aplite dyke cut c/a at ? Rubble contacts.
MF0844	42.7	53.2	Horsethief	Phyllite		medium	mottled lite grey	green and dark reddish brown	fine			Texture is finely crystilline recrystallized seds.
MF0844	53.2	69.5	Horsethief	Phyllite		medium	mottled lite grey	dark brown	fine			Texture is finely crystilline sericite and boitite, totally recrystallized seds.
MF0844	69.5	124.4	Horsethief	Phyllite	pyrophyllite	medium	lite grey	mottled green	fine	crystilline		These rocks are very finely crystilline and have a spotted texture, formed by patches and belbs of chlorite overprinting sericite, locally diss blebs of chlorite are alined parallel to foliation.
MF0844	124.4	269.47	Crawford	Quartz Monzonite			Gen. white, speckled black	Pinkish orange	equigranular	phaneritic		Phaneritic, gen equigranular, locally prophyritic, med. To coarsely crystalline mafic are euhedral, feldspar and quartz are subhedral.
MF0845	3.5	44.2	Horsethief	Phyllite		medium	lite grey to white	green to dark green	very fine	foliated		Sericitic chlorite spotted phyllite, approx. 60% sericite and 40% chlorite. 33.6 to 34.1 aplite dyke with abundant pyrite contacts? At 40.4, 10cm thick muscovitic aplite dyke cuts core axis at 47 degrees. Texture finely crystalline, foliated with crude m

DDH	From	To	Lithology	Rocktype		Bedding	Colour		Grainsize	Texture		Note
ID			Unit	Major	Minor		1	2		1	2	
MF0845	44.2	66	Horsethief	Phyllite		medium	lite silvery grey	green to dark green	very fine			Spotted muscovite, chlorite schist, 66.0 to 68.3, foliated greenstone dyke, parallel to schistosity, 89.0 + 89.5 and 90.0 + 90.5 thin aplite dykes cut core axis at 35 degrees. Schistosity formed by coarsely to medium crystalline muscovite, speckled and s
MF0845	66	68.3		Greenstone			green			schistose		Greenstone dyke
MF0845	68.3	100.9	Horsethief	Phyllite		medium	lite silvery grey	green to dark green				spotted muscovite chlorite schist
MF0845	100.9	230.3	Crawford	Quartz Monzonite			mottled white & pink	grey	equigranular			Biotitic Quartz Monzonite, weakly magnetic through out. Narrow aplite dykes are relatively abundant from 159.2 to 187.0, these dykes cut core axis at 60 degrees and 35 degrees, these dykes consist of feldspar and quartz. Texture is coarsley crystalline,
MF0848	2.85	14	Horsethief	Phyllite	pyrophyllite	medium	reddish brown	spotted lite grey	very fine	foliated		Sericite spotted biotitic, pyrophyllite phyllite. Finely foliated, finely crystalline, alteration by biotitic has produced a leopard like pattern of ragged edged spats that are elevated parallel to foliation, large crystalline of pyrophyllite locally ove
MF0848	14	28.9	Horsethief	Schist	muscovite	medium	silvery whitish grey	spotted & specked green	very fine	foliated		Chlorite spotted muscovite schist. Medium crystalline, finely foliated, a leopard skin type texture is probaced by patches of green chlorite in a muscovite matrix, disseminated specks of dark green chlorite overprints early alteration, foliation in this
MF0848	28.9	53.6	Horsethief	Phyllite	pyrophyllite	medium	lite green	speckled & streaked dark green	very fine	foliated		Chloritic - Sericitic Pyrophyllitic Phyllite - 40.0 to 40.3 aplite dyke parallel to foliation. Very finely crystalline and strongly foliated, finely laminated and speckled by dark green chlorite, foliation from 28.9 to 36.5 is 5 to 10 degrees to core axi
MF0848	53.6	182.74	Crawford	Quartz Monzonite			mottled pink & white	smoky grey	equigranular	phaneritic	phenocrystic	Biotitic Quartz Monzonite, mottled pink and white by feldspar and smoky grey by quartz, were potassically altered the rock is pink. Phaneritic, equigranular generally medium crystalline with rare very large subhedral orthoclase phenocrysts, the intrusive
MF0849	3	29.7	Horsethief	Schist			Whitish green	mottled speckled green	fine	foliated		Chlorite spotted muscovite schist. Texture medium crystalline, finely foliated, chlorite forms eliptical ragged edged spots and specks resembling a leopards skin, foliation to core axis varies from 10 degrees to 50 degrees and 18 degrees.
MF0849	29.7	56	Horsethief	Phyllite			Lite whitish green	banded & speckled green	fine	foliated		Chloritic, sericitic pyrophyllitic phyllite. Lite whitish green banded and speckled green, texture is finely crystalline generally foliated with chlorite banding and speckling and locally abundant late coarse crystalline of pyrophyllite, foliation to cor
MF0849	56	78	Horsethief	Phyllite			Lite greenish white	speckled & banded green	fine	foliated		Biotitic, chloritic, sericitic phyllite, pyrophyllitic in part. Lite greenish white, speckled and banded green with late reddish brown bands. Finely crystalline, finely foliated, banded and speckled by chlorite and biotite, overprinted locally by relati
MF0849	78	238.6	Crawford	Quartz Monzonite			Mottled pink & white	gray	equigranular	phaneritic	phenocrystic	Biotitic quartz monzonite. Top contact cuts core axis at 25 degrees, Note: there is no thermal alteration in phyllites at contact. This is true for all the holes drilled into this intrusive. Mottled pink and white by feldspar and gray by quartz - spec
MF0850	3	53.2	Horsethief	Phyllite		medium	Green & lite grey	spotted dark green	fine	foliated		Chloritic spotted sericitic phyllite with scattered bands of Pyrophyllitic chlorite spotted sericite phyllite. Wispy banded green and lite grey, spotted dark green by late chlorite. Texture is finely crystalline, speckled and streaked by chlorite and ov
MF0850	53.2	68.2		Greenstone		massive	dark green	brown	fine	foliated		Greenstone silt or dyke, contacts are parallel to foliation at 65 degrees to core axis. Texture is finely crystalline, crudely foliated and locally a pseudo-fragmental texure.
MF0850	68.2	210	Crawford	Quartz Monzonite		massive	mottled pink and white	lite grey	equigranular	phaneritic	phenocrystic	Biotitic Quartz Monzonite top contact cut core axis at 60 degrees weakly magnetic through out. Mottled pink and white by feldspar and lite grey by quartz and locally with massive zones of pink alteration. Texture is phaneritic, equigranular, medium grain
MF0851	5.2	60.6	Horsethief	Phyllite		medium	medium green	gray	very fine	foliated		Chlorite spotted sericitic phyllite, mainly spotted green and speakled green on a lite grey background, texture finely crystalline, spotted, banded and speckled by chlorite thinly foliated through out, foliation to core axis at top of hole to 28.0 = 25 de
MF0851	60.6	81.4	Horsethief	Phyllite		medium	medium green	gray	very fine	foliated		Chloritic, sericitic, biotitic and in part pyrophllitic phyllite. Note the pyrophyllite becomes more abundant near the top of the underlying intrusive. Mainly green spotted, streaked and speckled, some dark brown wisps all on a silvery grey background.
MF0851	81.4	191.5	Crawford	Quartz Monzonite			Mottled pink & white by feldsp	grey	equigranular	phaneritic	phenocrystic	Biotitic, quartz monzonite, generally wealy magnetic. Mottled pink and white by feldspar and grey by quartz, speckled black and green by biotite and chlorite, pink were altered. Texture - phaneritic, equicrystalline, medium grained, rare large orthoclas
MF0852	4.1	66	Horsethief	Phyllite		medium	reddish brown	mottled light grey	very fine	foliated		biotite spotted, sericitic phyllite, 50% bitoite, 50% sericite (approx.) very finely crystalline with a augen type texture, finely crystalline silty sericite forms Augen-shaped structures in a biotitic sericite matrix, generally all overprinted by dark b
MF0852	66	73	Horsethief	Phyllite			lite grey	speckled & streaked green & dark green	very fine	foliated		Chlorite spotted sericitic phyllite; finely crystalline; strongly foliated with chlorite from specks and streaks parallel to foliation.
MF0852	73	200.5	Crawford	Quartz Monzonite			White	mottled pink & grey	equigranular	foliated		Biotitic Quartz monzonite, contact cuts core axis at 35 degrees generally weakly magnetic but not magnetic in areas of intense potassic alteration. White, feldspar mottled pink and grey by feldspar and quartz locally mainly pinkish orange. Phaneritic, e
MF0854	19.85	64.6	Horsethief	Phyllite		medium	Mottled green	lite greenish grey	very fine	foliated		Chlorite spotted sericite phyllite with scattered bands of pyrophylite, chlorite spotted sericite phyllite.64.6 to 68.2 phyllitic greenstone follows the foliation (silt?) Finely crystalline, specked and streaked by chlorite and overprinted locally by rel
MF0854	64.6	68.2		Greenstone			medium green		subaphanitic	massive		Phyllitic greenstone follows the foliation (sill ?)
MF0854	68.2	111	Horsethief	Phyllite		medium	Mottled green	lite greenish grey	very fine	foliated		Chlorite spotted sericite phyllite with scattered bands of pyrophylite, as per description from 19.85-64.6m.

DDH	From	To	Lithology	Rocktype		Bedding	Colour		Grainsize	Texture		Note
ID			Unit	Major	Minor		1	2		1	2	
MF0854	111	266.2	Crawford	Quartz Monzonite			Mottled pink and white	grey, black and green	equigranular	phaneritic	phenocrystic	Generally mottled pink and white by feldspar and grey by quartz, speckled black by biotite, locally altered to green chlorite. Phaneritic, equigranular, medium grained subhedral feldspar and quartz with euhedral biotite, large orthoclase phenocrysts are
MF0866	3.1	25.4	Crawford	Granite			white	gray	medium	phaneritic		Phaneritic, with subhedral to anhedral white feldspar (plagioclase ?) in a fine crystalline quartz, biotite, muscovite, chlorite matrix.
MF0866	25.4	48.8	Horsethief	Schist	pyrophyllite	medium	silvery beige	spotted green	very fine	schistose	spotted	Chlorite spotted muscovite schist, locally zones of abundant pyrophyllite. Schistose, medium crystalline, muscovite and chlorite, with scattered patches coarsley crystalline pyrophyllite.
MF0866	48.8	67.3		Greenstone	granite		dark green	gray	fine	subaphanitic		Greenstone sill? Cut by small granite prophyry dykes that cut core axis generally at 7 degrees, largest granite prophyry dyke is from 61.79 to 67.3 a late aplite dyke from 65.4 to 66.2, cuts prophyritic granite dyke.
MF0866	67.3	69.5	Horsethief	Phyllite	pyrophyllite	medium	light gray	spotted green	very fine	schistose	spotted	Chlorite spotted, pyrophyllite muscovite schist. 69.5 to 74.8 granite prophyry dyke as previously described, cut core axis at 32 degrees 104.0 to 104.7 apitite dyke, contacts ground-up.
MF0866	69.5	74.8		Granite			white	gray	medium	phaneritic		Granite porphry dyke, cuts core axis at 32 degrees.
MF0866	74.8	112	Horsethief	Schist	pyrophyllite	medium	light gray	spotted green	very fine	schistose	spotted	As from 67.3-69.5m.
MF0866	112	119.3	Horsethief	Schist		medium	lite silvery beige	speckled green & black	very fine	schistose	spotted	Biolite and chlorite spotted muscovite schist. 113 to 117.8 scattered thin aplite dykes rarely more than 20cm thick contcts are generally ground up by drilling.
MF0866	119.3	231.4	crawford	Quartz Monzonite			white & pink mottled	grey quartz, speckled black	equigranular	phaneritic	phenocrystic	Biotitic, quartz monzonite, top contact is totally ground up by drilling, rock is weakly magnetic. Phaneritic, generally equigranular, feldspar and quartz crystals are subhedral, biotite generally euhedral, large subhedral phenocrysts of orthoclase feldsp
MF0869	3	28.5	Crawford	Granite			grey	mottled white & beige	medium	phenocrystic	subaphanitic	Biotitic granite porphyry dykes? Cut core axis at ?, rock consists mainly of quartz, fine biotite and feldspar. From 23.0 to 24.38 muscovite schist. Small rounded white feldspar phenocrysts in a near aphanitic quartz-biotite matrix.
MF0869	28.5	108.3	Horsethief	Schist	pyrophyllite	medium	green	light silvery grey	very fine	foliated	spotted	Pyrophyllitic, chlorite spotted muscovite schist. 77.3 to 77.9 greenstone dyke not foliated, appears to be fresh. 103.2 to 106.7 aplite dyke cut core axis at 63 degrees, 60.27 to 62.0 thin aplite dykes cut core axis at 18 degrees. Strongly foliated, stro
MF0869	108.3	251.8	Crawford	Quartz Monzonite			mottled white & pink	smoky grey	equigranular	phaneritic	phenocrystic	Biotitic, quartz monzonite, generally weakly magnetic, top contact at 108.3 cuts core axis at 80 degrees. Mottled white and pink by feldspar and smoky grey by quartz, locally potassic alteration turns rock totally pink. Phaneritic, equicrystalline, genera

DDH ID	From	To	Mineral Type	Note
MF0714	4.6	97.3	Disseminated	Pyrite is generally very weakly disseminated throughout.
MF0714	97.3	129.9	Disseminated	Rare disseminated pyrite.
MF0714	129.9	131.6	Disseminated	Rare disseminated pyrite.
MF0714	131.6	173	Disseminated	Rare disseminated pyrite.
MF0715	3	90.5	Disseminated	This mineralization consists of rare pyrite and moly.
MF0715	90.5	108	Disseminated	Rare pyrite.
MF0715	129	130	Disseminated	Pyrite, disseminate moly
MF0715	160.6	164.5	Disseminated	Potassic alteration is strong and host minor pyrite.Very weakly disseminated moly.
MF0715	212.8	214.7	Disseminated	Intense potassic and muscovite alteration with minor disseminated pyrite, very rare moly.
MF0721	6.9	33.6		1 cm thick quartz vein, parrellel to foliation.
MF0721	6.9	33.63		Hosts some patches of sphalerite.
MF0721	33.63	51.25	Disseminated	Weakly disseminated pyrite, occur mainly vuggy white bull quartz veins, that cut C/A at 20°, this interval is 14.7% quartz.
MF0828	71.66	239.5		Pyrite occurs in widly scattered vuggy bull qaurtz veins, but does not occur in adjacent quartz monzonite.
MF0828	121.7	122		Quartz veins with rare moly.
MF0828	123.4	123.9		Quartz veins with rare moly.
MF0828	134.11	135		Quartz veins with rare moly.
MF0828	154.6	155.1		Quartz veins with rare moly.
MF0828	155.5	155.9		Quartz veins with rare moly.
MF0828	164	164.9		Quartz veins with rare moly.
MF0830	6.5	14.5		Contiguously previously sampled from top to bottom
MF0830	14.5	28.6	veinlets	Rare crystals of pyrite.
MF0830	28.6	279.5	veins	qtz veins are thin rarely more than 10 cm thick they host minor pyrite.
MF0830	52.2	52.4	veinlets	white bull qtz vein hosts abundent moly mainly along its contacts, however all the moly is confined to the qtz vein.
MF0830	153.12	153.5	vein	white bull qtz vein hosts minor disseminated pyrite
MF0830	209.6	209.66	vein	6 cm qtz vein hosts pyrite.
MF0842	37.9	38.5	dyke	Aplite dyke hosts qtz and disseminated pyrite and minor moly.
MF0842	38.9	62.7	veins	Rare thin quartz vein 10 cm or less in thickness hosts minor pyrite mineralization.
MF0842	62.7	79.7	veins	Occurs in widely scattered thin muscovitic white bull qtz veins. Weakly disseminated in areas where the potassic muscovite alteration is most intense.
MF0842	79.7	210.9	veins	Qtz compose 3.31% of total volume of core.
MF0842	140.2	141.2	vein	hosts weakly disseminated sphalerite and scheelite
MF0842	142.8	143	vein	Quartz vein hosts large patch of yellow sphalerite.
MF0842	151	151	vein	Bull qtz vein hosts large flourite crystals,
MF0842	158.4	158.4	vein	4mm thick quartz vein hosts scheeite crystals.

DDH ID	From	To	Mineral Type	Note
MF0842	276.5	277.5	disseminated	very weakly disseminated sphalerite is associated with disseminated pyrite and chlorite
MF0844	6	6.5		Brecciated quartz vein.
MF0844	10.7	30.8	Disseminated	Very rare disseminated pyrite.
MF0844	30.8	33.2	Disseminated	Very rare disseminated pyrite.
MF0844	33.2	69.5	Disseminated	Rare disseminated pyrite.
MF0844	74.34	74.98	vein	white barren bull qtz vein.
MF0844	98.8	99	vein	white barren bull qtz vein, hosts minor pyrite in chlorite, filled fractures in bulbs
MF0844	124.4	132.9	Disseminated	Associated with propylitic alteration zones
MF0844	132.9	139.4	Disseminated	Associated with propylitic alteration zones
MF0844	139.4	157.4	Disseminated	Associated with propylitic alteration zones
MF0844	157.4	187.5	Disseminated	Associated with propylitic alteration zones
MF0844	187.5	207	Disseminated	Pyrite is locally abundant in potassically altered zone but moly is rare and occurs mostly as thin linings along hairline fractures that cut C/A at 25 degrees.
MF0844	224	224.8	Disseminated	Propylitic zone hosts abundant pyrite and rare fluorite crystals
MF0845	3.5	44.2	Disseminated	Rare disseminated pyrite deposited along the plains of foliation.
MF0845	87.5	88.8	Patches	White bull qtz vein cuts 35°, hosts wide scattered patches of massive coursely crystalline pyrite, rare moly
MF0845	100.9	189.6	Disseminated	Very rare in this hole. Hairline fracture at 162 hosts thin film of moly.
MF0845	189.6	206	Disseminated	Pyrite is abundant in potassically altered zone. Pyrite rarely occurs along with yellow sphalerite along the bull quartz veins,
MF0848	2.85	14	disseminated	Rare Pyrite.
MF0848	25.4	25.77	crystalline	Badly crusted quartz vein hosts coursly crytalline pyrite.
MF0848	53.6	182.74	veins	Pyrite occurs in white bull quartz veins in disseminated intense potassic alteration zones.
MF0848	83.9	84.7		Bull quartz vein hosts minor pyrite.
MF0848	107.6	107.61		Thin fracture hosts massive moly.
MF0848	108	109		Bull quartz vein hosts minor pyrite.
MF0849	3	29.7	veinlets	Rare ptygmatic quartz veinlets host minor pyrite.
MF0849	44.15	44.19	veinlets	Massive coarsely crystalline pyrite with rare moly and rare fluorite, quartz, aragonite.
MF0849	78	101	veinlets	Pyrite and moly is not abundant and occurs mainly in quartz veins and weakly disseminated intensly potassic- muscovitic alteration zones. Continuously Sampled previously.
MF0849	101	238.6	veinlets	Widely scattered vuggy quartz veins host minor pyrite and rare moly
MF0849	203.25	205.5		Pyrite and moly associated with aplite dykes as weak disseminations and along rare hairline fractures.
MF0850	13	22	Disseminated	Bull quartz vein swarm zone, 60% of this interval is bull qtz with minor disseminated pyrite.

DDH ID	From	To	Mineral Type	Note
MF0850	29.5	31.6	Disseminated	Large white bull quartz vein contacts are irregular. Minor disseminated pyrite.
MF0850	65.2	100		Pyrite occurs as disseminations in white, vuggy, muscovitic bull qtz veins, very rare moly.
MF0850	100	210		There are 14 weakly mineralized bull qtz veins mainly 2 cm to 10 cm thick. The largest vein is from 162.8 to 163.3m. These veins host very rare specs of moly and pyrite
MF0851	5.2	60.6	Disseminated	Rare disseminated pyrite.
MF0851	60.6	81.4	Disseminated	Rare disseminated pyrite.
MF0851	127.7	127.8	veinlets	A group of isolated scheelite crystals occur with fluorite in quartz.
MF0851	168.5	168.6	gouge	Scheelite cyrstals occur in 10cm muscovite gouge
MF0852	4.1	66	Disseminated	Rare Pyrite disseminated in planes of foliation.
MF0852	90	95.5	fractures	Autunite occurs along irregular fractures
MF0852	180.5	183	fractures	Autunite occurs along irregular fractures
MF0854	19.85	111	veinlets	White bull Quartz occurs though out this interval, it forms small veinlets and small lenses parallel to foliation
MF0854	111	266.2	veinlets	Pyrite occurs mainly in white bull quartz veins and disseminated in miarolitic bands of intense propylitic alteration.
MF0854	150	151.3	vein	Vuggy white Bull Quartz vein hosts scattered patches of massive pyrite
MF0854	178	179	fractures	Autunite occurs along fractures.
MF0854	208.5	209	selvage	Uranite and autunite directly associated with a thin quartz vein, thin layer of uranite.
MF0854	237	237.6	fracture	Powellite, follows a tight fracture that is lined by a black sooty oxide.
MF0866	3.1	25.4	veinlets	Rare small quartz pyrite veinlets.
MF0866	48.8	67.3	veinlets	Pyrite occurs in widley scattered quartz veins generally less than 4 cm thick.
MF0866	67.3	112	Disseminated	Pyrite is weakly and widely disseminated in granite porphyry
MF0866	84	86	vein	Ground up bull quartz vein hosts coursely crystalline pyrite and lesser magnetite.
MF0866	86.8	87.6	vein	Ground up bull quartz vein hosts minor pyrite.
MF0866	104.7	104.74	vein	4 cm thick qtz vein hosts pyrite and trace moly,
MF0866	119.3	231.4	veins	Pyrite and rare moly occurs in white scattered quartz veins, and very rarely in massive potassic alteration zones.
MF0866	121	167	veins	Mineralized quartz veins occupy 5.63% of interval by volume.
MF0869	17.2	22.2	disseminated	Silicified zone is generally pyrite.
MF0869	83	83.4	vein	Quartz muscovite vein hosts minor pyrite.

4.2 - STRIP LOGS

Hole Name :MF0714

Collar X :516230.00	Collar Y :5494488.00	Collar Z :838.00	Dip(Deg) :-60	Azimuth(Deg) :140	Length(m) :173

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25																					816.35
50	Quartz Monzonite	Generally medium grained, feldspar and quartz crystalline are subhedral, biotite generally euhedral.	2	2	3																794.70
75																					773.05
100	Porphyritic Granite	Phaneritic, generally porphyritic, with abundant subhedral phenocrysts of white feldspar (plagioclase) in a finely crystalline ground mass of quartz with lessor feldspar, biotite, chlorite, and muscovite.	2	1																	751.40
125	Lamprophyre	Finely crystalline biotite in an aphanitic ground mass of feldspar, chlorite, quartz and minor calcium carbonate																			729.75
150	Quartz Monzonite	Biotitic quartz monzonite, weakly magnetic.	2	?	?																708.10

Scale 1:502	11/01/11	09:37:50

Hole Name :MF0715

Collar X :516257.00	Collar Y :5494420.00	Collar Z :856.00	Dip(Deg) :-45	Azimuth(Deg) :348	Length(m) :229.2

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Quartz Monzonite	Subhedral feldspar and quarts crystalline rare large feldspar phenocrysts, biotite is generally euhedral.	2	4	3																838.32
50			4	2	1																820.64
75	Lamprophyre	Sheared dark green lamprophyre dyke.																			802.97
	Quartz Monzonite	Subhedral feldspar and quarts crystalline rare large feldspar phenocrysts, biotite is generally euhedral.																			
100	Porphyritic Granite	With subhedral plagioclase phenocrysts.																			785.29
125	Quartz Monzonite		2	3	3																767.61
150																					749.93
175		?	1	1	?																732.26
200																					714.58
225																					696.90

Scale 1:676	11/01/11	09:37:52

Hole Name :MF0721

Collar X :516515.00	Collar Y :5494408.00	Collar Z :947.00	Dip(Deg) :-44	Azimuth(Deg) :340	Length(m) :222.3

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Phyllite	Mainly a chlorite spotted sericitic phyllite with some interfoliated, bands of biotitic - chloritic - sericitic phyllite from 31.0 to 33.63, is chlorite - muscouitic schist.	3	?	?																929.63
50	Quartz Monzonite	Phaneritic, gen - med xtln; equigranular, rare large orthoclase phenocrysts, gen quartz and feldspar crystals are subhedral, biotitic typically euhedral.	1	2	?																912.27
75			2	1	?																894.90
100			2	1	?																877.53
	Aplite	pyritic aplite dyke																			
125	Quartz Monzonite	Phaneritic, gen - med xtln; equigranular, rare large orthoclase phenocrysts, gen quartz and feldspar crystals are subhedral, biotitic typically euhedral.	4	1	?																860.17
	Felsite	Felsite dyke with intense muscovitization. Hosts disseminated moly at contact.																			
150	Quartz Monzonite		3	1	?																842.80
175		Phaneritic, gen - med xtln; equigranular, rare large orthoclase phenocrysts, gen quartz and feldspar crystals are subhedral, biotitic typically euhedral.																			825.43
200			3	1	?																808.07

Scale 1:645	11/01/11	09:37:54

Hole Name :MF0828

Collar X :516510.00	Collar Y :5494365.00	Collar Z :933.00	Dip(Deg) :-45	Azimuth(Deg) :360	Length(m) :239

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
75	Quartz Monzonite	Note: Core from 3.0 to 71.66 is missing. Biotite, Quartz Monzonite, generally weakly magnetic. quartz crystalline and euhedral biotite. 228.5 to 239.5 shear zone subparallel to core axis.	1	?	?																879.97
100																					862.29
125																					844.61
150																					826.93
175																					809.26
200																					791.58
225																					773.90

Scale 1:500	11/01/11	09:37:56

Hole Name :MF0830

Collar X :516510.00	Collar Y :5494365.00	Collar Z :933.00	Dip(Deg) :-43	Azimuth(Deg) :355	Length(m) :275.5

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
50	Phyllite	Texture is finely crystalline and foliated. Foliation cuts core axis at 33 degrees and 19 degrees.Chlorite overprints sericite and forms bands and speckles oriented parallel to foliation.	4	4	3																898.90
	Phyllite	Finely crystalline, strongly foliated, with late dark brown biotite forming leopard spots elongated parallel to foliation. Foliation cuts core axis at 30 and 45 degrees.	4	4	3																
100	Quartz Monzonite	Equigranular, medium crystalline, quartz and feldspar crystals, generally subhedral. Very widely scattered large orthoclase phenocrysts.Biotite generally euhedral. Weakly magnetic throughout except in areas of intense propylitic alteration.	1	2																	864.80
150																					830.70
200																			1m @ 1065ppm Mo		796.60
250																					762.50

Scale 1:811	11/01/11	09:37:57

Hole Name :MF0842

Collar X :516697.00	Collar Y :5494486.00	Collar Z :1010.00	Dip(Deg) :-60	Azimuth(Deg) :127	Length(m) :349

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
50	Schist	Very rubbly core, mainly silty biotitic, sericitic phyllite. Texture is finely crystilline, weakly foliated, rubbly core. 14.2 to 17.2 mainly aplite rubble.	4	2	3																966.70
	Aplite	Mainly aplite rubble.																			
	Schist	Very rubbly core, mainly silty biotitic, sericitic phyllite. Texture is finely crystilline, weakly foliated, rubbly core. 14.2 to 17.2 mainly aplite rubble.																			
	Schist	Medium crystalline, muscovite, spotted and speckled by late chlorite. Contains aplite dykes from 32.2-32.6m, and 37.9-38.5m.	4	2	?																
	Aplite	Aplite dyke																			
	Schist	Medium crystalline, muscovite, spotted and speckled by late chlorite. Contains aplite dykes from 32.2-32.6m, and 37.9-38.5m.																			
	Aplite	Aplite dyke																			
	Phyllite	Finely crystilline, finely foliated, spotted and speckled by chlorite and biotite, overprinted by relatively large crystilline of pyrophyllite, biotization and chloritization is crudely alined to the planes of foliation, pyrophyillite crystilline show no	4	3	?																
100			2	?	?																923.40
150			?	3	?																880.10
200	Quartz Monzonite	Generally equicrystalline, rare large orthoclase phenocrysts, numerous pink aplite dykes.																			836.79
250			?	?	?																793.49
300																					750.19

Scale 1:1027	11/01/11	09:37:59

Hole Name :MF0844

Collar X :516689.00	Collar Y :5494442.00	Collar Z :1001.00	Dip(Deg) :-47	Azimuth(Deg) :344	Length(m) :269.5

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes
50	Phyllite	Seds are totally and finely recrystallized with an augen texture formed by elyptical shaped sericite structures, developed in a finely crystilline sericite biotite metrix.
	Phyllite	Seds are totally recrystallized and finely foliated and generally finely crystilline.
	Phyllite	Texture is finely crystilline recrystallized seds.
	Aplite	Mucovitic aplite dyke cut c/a at ? Rubble contacts.
	Phyllite	Texture is finely crystilline recrystallized seds.
	Phyllite	Texture is finely crystilline sericite and boitite, totally recrystallized seds.
100	Phyllite	These rocks are very finely crystilline and have a spotted texture, formed by patches and belbs of chlorite overprinting sericite, locally diss blebs of chlorite are alined parallel to foliation.
150	Quartz Monzonite	Phaneritic, gen equigranular, locally prophyritic, med. To coarsely crystalline mafic are euhedral, feldspar and quartz are subhedral.
200		
250		

Depth At	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
50	4	2	2																964.43
	4	2	2																
	4	2	2																
	4	2	2																
	4	2	2																
	4	3	2																
100	3	3	3																927.86
	2	1	1																
	1	3	?																
	2	2	?														3m @ 363ppm Mo		
	1	1	?																
150	2	1	?														4m @ 832ppm Mo		891.30
	2	1	?																
	1	1	?																
200	2	1	?														3m @ 579ppm Mo	1m @ 1352ppm Mo	854.73
	1	1	?																
250																			818.16

Scale 1:794	11/01/11	09:38:00

Hole Name :MF0845

Collar X :516689.00	Collar Y :5494442.00	Collar Z :1001.00	Dip(Deg) :-56	Azimuth(Deg) :288	Length(m) :230.4

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Phyllite	Sericitic chlorite spotted phyllite, approx. 60% sericite and 40% chlorite. 33.6 to 34.1 aplite dyke with abundant pyrite contacts? At 40.4, 10cm thick muscovitic aplite dyke cuts core axis at 47 degrees. Texture finely crystalline, foliated with crude m	4	3	?																980.27
50	Phyllite	Spotted muscovite, chlorite schist, 66.0 to 68.3, foliated greenstone dyke, parallel to schistosity, 89.0 + 89.5 and 90.0 + 90.5 thin aplite dykes cut core axis at 35 degrees. Schistosity formed by coarsely to medium crystalline muscovite, speckled and s	4	3	?																959.55
	Greenstone	Greenstone dyke	3	?	?																
75	Phyllite	spotted muscovite chlorite schist																			938.82
100	Quartz Monzonite	Biotitic Quartz Monzonite, weakly magnetic through out. Narrow aplite dykes are relatively abundant from 159.2 to 187.0, these dykes cut core axis at 60 degrees and 35 degrees, these dykes consist of feldspar and quartz. Texture is coarsley crystalline,	1	1	?																918.10
125																					897.37
150																					876.64
175																					855.92
200			1	3	?																835.19
225			1	1	?																814.47

Scale 1:676	11/01/11	09:38:02

Hole Name :MF0848

Collar X :516581.00	Collar Y :5494542.00	Collar Z :965.00	Dip(Deg) :-61	Azimuth(Deg) :102	Length(m) :182.74

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Phyllite	Sericite spotted biotitic, pyrophyllite phyllite. Finely foliated, finely crystalline, alteration by biotitic has produced a leopard like pattern of ragged edged spats that are elevated parallel to foliation, large crystalline of pyrophyllite locally ove	4	3																	
	Schist	Chlorite spotted muscovite schist. Medium crystalline, finely foliated, a leopard skin type texture is probaced by patches of green chlorite in a muscovite matrix, disseminated specks of dark green chlorite overprints early alteration, foliation in this	3	3	?																943.13
	Phyllite	Chloritic - Sericitic Pyrophyllitic Phyllite - 40.0 to 40.3 aplite dyke parallel to foliation. Very finely crystalline and strongly foliated, finely laminated and speckled by dark green chlorite, foliation from 28.9 to 36.5 is 5 to 10 degrees to core axi	4	3																	
50																					921.27
			1	?	?																
75			1	3	2																899.40
100	Quartz Monzonite	Biotitic Quartz Monzonite, mottled pink and white by feldspar and smoky grey by quartz, were potassically altered the rock is pink. Phaneritic, equigranular generally medium crystalline with rare very large subhedral orthoclase phenocrysts, the intrusive																			877.54
125																					855.67
150																					833.81
175																					811.94

Scale 1:536	11/01/11	09:38:03

Hole Name :MF0849

Collar X :516595.00	Collar Y :5494480.00	Collar Z :972.00	Dip(Deg) :-45	Azimuth(Deg) :156	Length(m) :238.6

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Schist	Chlorite spotted muscovite schist. Texture medium crystalline, finely foliated, chlorite forms eliptical ragged edged spots and specks resembling a leopards skin, foliation to core axis varies from 10 degrees to 50 degrees and 18 degrees.	4	3	2																954.32
50	Phyllite	Chloritic, sericitic pyrophyllitic phyllite. Lite whitish green banded and speckled green, texture is finely crystalline generally foliated with chlorite banding and speckling and locally abundant late coarse crystalline of pyrophyllite, foliation to cor	4	3																	936.64
75	Phyllite	Biotitic, chloritic, sericitic phyllite, pyrophyllitic in part. Lite greenish white, speckled and banded green with late reddish brown bands. Finely crystalline, finely foliated, banded and speckled by chlorite and biotite, overprinted locally by relati	4	3	2														2m @ 706ppm Mo		918.97
100																					901.29
125																					883.61
150	Quartz Monzonite	Biotitic quartz monzonite. Top contact cuts core axis at 25 degrees, Note: there is no thermal alteration in phyllites at contact. This is true for all the holes drilled into this intrusive. Mottled pink and white by feldspar and gray by quartz - spec	2	2																	865.93
175																					848.26
200																					830.58
225																					812.90

Scale 1:703	11/01/11	09:38:05

Hole Name :MF0850

Collar X :516595.00	Collar Y :5494480.00	Collar Z :972.00	Dip(Deg) :-60	Azimuth(Deg) :98	Length(m) :210

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Phyllite	Chloritic spotted sericitic phyllite with scattered bands of Pyrophyllitic chlorite spotted sericite phyllite. Wispy banded green and lite grey, spotted dark green by late chlorite. Texture is finely crystalline, speckled and streaked by chlorite and ov	3	3																	950.35
50	Greenstone	Greenstone silt or dyke, contacts are parallel to foliation at 65 degrees to core axis. Texture is finely crystalline, crudely foliated and locally a pseudo-fragmental texure.	3	3	2																928.70
75	Quartz Monzonite	Biotitic Quartz Monzonite top contact cut core axis at 60 degrees weakly magnetic through out. Mottled pink and white by feldspar and lite grey by quartz and locally with massive zones of pink alteration. Texture is phaneritic, equigranular, medium grain	1	2	?														2m @ 666ppm Mo		907.05
100																			2m @ 990ppm Mo		885.40
125																					863.75
150			1	1	?																842.10
175																					820.45
200																					798.79

Scale 1:617	11/01/11	09:38:06

Hole Name :MF0851

Collar X :516581.00	Collar Y :5494542.00	Collar Z :965.00	Dip(Deg) :-47	Azimuth(Deg) :49	Length(m) :194.5

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Phyllite	Chlorite spotted sericitic phyllite, mainly spotted green and speakled green on a lite grey background, texture finely crystalline, spotted, banded and speckled by chlorite thinly foliated through out, foliation to core axis at top of hole to 28.0 = 25 de	4	3	2																946.72
50	Phyllite	Chloritic, sericitic, biotitic and in part pyrophllitic phyllite. Note the pyrophyllite becomes more abundant near the top of the underlying intrusive. Mainly green spotted, streaked and speckled, some dark brown wisps all on a silvery grey background.	4	3	2																928.43
75																					910.15
100																					891.86
125	Quartz Monzonite	Biotitic, quartz monzonite, generally wealy magnetic. Mottled pink and white by feldspar and grey by quartz, speckled black and green by biotite and chlorite, pink were altered. Texture - phaneritic, equicrystalline, medium grained, rare large orthoclas	2	2	1														3m @ 483ppm Mo 2m @ 1456ppm Mo		873.58
150																					855.30
175																					837.01

Scale 1:556	11/01/11	09:38:08

Hole Name :MF0852

Collar X :516581.00	Collar Y :5494542.00	Collar Z :965.00	Dip(Deg) :-53	Azimuth(Deg) :17	Length(m) :200.5

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Phyllite	biotite spotted, sericitic phyllite, 50% bitoite, 50% sericite (approx.) very finely crystalline with a augen type texture, finely crystalline silty sericite forms Augen-shaped structures in a biotitic sericite matrix, generally all overprinted by dark b	4	4																	945.03
50	Phyllite	Chlorite spotted sericitic phyllite; finely crystalline; strongly foliated with chlorite from specks and streaks parallel to foliation.	4	3	?																925.07
75			1	?	?																905.10
100			4	3	?																885.14
125	Quartz Monzonite	Biotitic Quartz monzonite, contact cuts core axis at 35 degrees generally weakly magnetic but not magnetic in areas of intense potassic alteration. White, feldspar mottled pink and grey by feldspar and quartz locally mainly pinkish orange. Phaneritic, e	1	?	?																865.17
150			4	3																	845.20
175																					825.24
200																					805.27

Scale 1:586	11/01/11	09:38:09

Hole Name :MF0854

Collar X :516615.00	Collar Y :5494393.00	Collar Z :1041.00	Dip(Deg) :-44	Azimuth(Deg) :309	Length(m) :266.2

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Phyllite	Chlorite spotted sericite phyllite with scattered bands of pyrophylite, chlorite spotted sericite phyllite.64.6 to 68.2 phyllitic greenstone follows the foliation (sill?) Finely crystalline, specked and streaked by chlorite and overprinted locally by rel																			1023.63
50																					1006.27
75	Greenstone	Phyllitic greenstone follows the foliation (sill ?)	4	3	1																988.90
100	Phyllite	Chlorite spotted sericite phyllite with scattered bands of pyrophylite, as per description from 19.85-64.6m.																			971.53
125			3	3	?																954.17
150			4	?	?																936.80
175	Quartz Monzonite	Generally mottled pink and white by feldspar and grey by quartz, speckled black by biotite, locally altered to green chlorite. Phaneritic, equigranular, medium grained subhedral feldspar and quartz with euhedral biotite, large orthoclase phenocrysts are																			919.43
200																					902.07
225																					884.70
250			4	3																	867.34

Scale 1:735	11/01/11	09:38:10

Hole Name :MF0866

Collar X :516800.00	Collar Y :5494784.00	Collar Z :1042.00	Dip(Deg) :-47	Azimuth(Deg) :136	Length(m) :231.4

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Granite	Phaneritic, with subhedral to anhedral white feldspar (plagioclase ?) in a fine crystalline quartz, biotite, muscovite, chlorite matrix.	2	?	?																1023.72
	Schist	Chlorite spotted muscovite schist, locally zones of abundant pyrophyllite. Schistose, medium crystalline, muscovite and chlorite, with scattered patches coarsley crystalline pyrophyllite.	3	3																	
50	Greenstone	Greenstone sill? Cut by small granite prophyry dykes that cut core axis generally at 7 degrees, largest granite prophyry dyke is from 61.79 to 67.3 a late aplite dyke from 65.4 to 66.2, cuts prophyritic granite dyke.	4	3	2																1005.43
	Phyllite	Chlorite spotted, pyrophyllite muscovite schist. 69.5 to 74.8 granite prophyry dyke as previously described, cut core axis at 32 degrees 104.0 to 104.7 apitite dyke, contacts ground-up.																			
	Granite	Granite porphry dyke, cuts core axis at 32 degrees.																			
75	Schist	As from 67.3-69.5m.	3	2	2																987.15
100	Schist	Biolite and chlorite spotted muscovite schist. 113 to 117.8 scattered thin aplite dykes rarely more than 20cm thick contcts are generally ground up by drilling.	3	2	2																968.86
125	Quartz Monzonite	Biotitic, quartz monzonite, top contact is totally ground up by drilling, rock is weakly magnetic. Phaneritic, generally equigranular, feldspar and quartz crystals are subhedral, biotite generally euhedral, large subhedral phenocrysts of orthoclase feldsp	3		?																950.58
150																					932.30
175																					914.01
200			1	2	?																895.73
225																					877.45

2m @ 380ppm Mo

Scale 1:681	11/01/11	09:38:12

Hole Name :MF0869

Collar X :516800.00	Collar Y :5494784.00	Collar Z :1042.00	Dip(Deg) :-56	Azimuth(Deg) :134	Length(m) :251.8

Start Date :?	Finish Date :?	Geologist :DP

Depth At	Rock Type	Notes	Alt 1 Degree	Alt 2 Degree	Alt 3 Degree	Min Type	Py Pct	Moly Pct	Cpy Pct	Mo_ppm	Cu_ppm	Au_ppb	Ag_ppm	Pb_ppm	Zn_ppm	W_ppm	S_%	Ti_%	Intersection	Including	Elevation
25	Granite	Biotitic granite porphyry dykes? Cut core axis at ?, rock consists mainly of quartz, fine biotite and feldspar. From 23.0 to 24.38 muscovite schist. Small rounded white feldspar phenocrysts in a near aphanitic quartz-biotite matrix.	3	3	?																1021.27
50	Schist	Pyrophyllitic, chlorite spotted muscovite schist. 77.3 to 77.9 greenstone dyke not foliated, appears to be fresh. 103.2 to 106.7 aplite dyke cut core axis at 63 degrees, 60.27 to 62.0 thin aplite dykes cut core axis at 18 degrees. Strongly foliated, stro	3	2	2																1000.55
75																					979.82
100			3	?	?														9m @ 286ppm Mo	4m @ 424ppm Mo	959.10
125																					938.37
150			3	?	?																917.64
175	Quartz Monzonite	Biotitic, quartz monzonite, generally weakly magnetic, top contact at 108.3 cuts core axis at 80 degrees. Mottled white and pink by feldspar and smoky grey by quartz, locally potassic alteration turns rock totally pink. Phaneritic, equicrystalline, genera	3	?	?																896.92
200																					876.19
225																					855.47
250																					834.74

Scale 1:742	11/01/11	09:38:14

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0830-001	MF0830	7	8	1	1	SPLIT	23/08/2011	MF11-009	1
MF0830-002	MF0830	8	9	1	1	SPLIT	23/08/2011	MF11-009	1
MF0830-003	MF0830	9	10	1	1	SPLIT	23/08/2011	MF11-009	1
MF0830-004	MF0830	10	11	1	1	SPLIT	23/08/2011	MF11-009	1
MF0830-005	MF0830	11	12	1	1	SPLIT	23/08/2011	MF11-009	1
MF0830-006	MF0830	12	13	1	1	SPLIT	23/08/2011	MF11-009	1
MF0830-007	MF0830	13	14	1	1	SPLIT	23/08/2011	MF11-009	1
MF0830-008	MF0830	14	15	1	1	SPLIT	23/08/2011	MF11-009	2
MF0830-009	MF0830	15	16	1	1	SPLIT	23/08/2011	MF11-009	2
MF0830-010	MF0830	16	17	1	1	SPLIT	23/08/2011	MF11-009	2
MF0830-011	MF0830	17	18	1	1	SPLIT	23/08/2011	MF11-009	2
MF0830-012	MF0830	18	19	1	1	SPLIT	23/08/2011	MF11-009	2
MF0830-013	MF0830	19	20	1	1	SPLIT	23/08/2011	MF11-009	2
MF0830-014	MF0830	20	21	1	1	SPLIT	23/08/2011	MF11-009	2
MF0830-015	MF0830	21	22	1	1	SPLIT	23/08/2011	MF11-009	3
MF0830-016	MF0830	22	23	1	1	SPLIT	23/08/2011	MF11-009	3
MF0830-017	MF0830	23	24	1	1	SPLIT	23/08/2011	MF11-009	3
MF0830-018	MF0830	24	25	1	1	SPLIT	23/08/2011	MF11-009	3
MF0830-019	MF0830	25	26	1	1	SPLIT	23/08/2011	MF11-009	3
MF0830-020	MF0830	26	27	1	1	SPLIT	23/08/2011	MF11-009	3
MF0830-021	MF0830	27	28	1	1	SPLIT	23/08/2011	MF11-009	3
MF0830-022	MF0830	28	29	1	1	SPLIT	23/08/2011	MF11-009	4
MF0830-023	MF0830	29	30	1	1	SPLIT	23/08/2011	MF11-009	4
MF0830-024	MF0830	30	31	1	1	SPLIT	23/08/2011	MF11-009	4
MF0830-025	MF0830	31	32	1	1	SPLIT	23/08/2011	MF11-009	4
MF0830-026	MF0830	32	33	1	1	SPLIT	23/08/2011	MF11-009	4
MF0830-027	MF0830	33	34	1	1	SPLIT	23/08/2011	MF11-009	4
MF0830-028	MF0830	34	35	1	1	SPLIT	23/08/2011	MF11-009	4
MF0830-029	MF0830	35	36	1	1	SPLIT	23/08/2011	MF11-009	5
MF0830-030	MF0830	36	37	1	1	SPLIT	23/08/2011	MF11-009	5
MF0830-031	MF0830	37	38	1	1	SPLIT	23/08/2011	MF11-009	5
MF0830-032	MF0830	38	39	1	1	SPLIT	23/08/2011	MF11-009	5
MF0830-033	MF0830	39	40	1	1	SPLIT	23/08/2011	MF11-009	5
MF0830-034	MF0830	40	41	1	1	SPLIT	23/08/2011	MF11-009	5
MF0830-035	MF0830	41	42	1	1	SPLIT	23/08/2011	MF11-009	5
MF0830-036	MF0830	42	43	1	1	SPLIT	23/08/2011	MF11-009	6
MF0830-037	MF0830	43	44	1	1	SPLIT	23/08/2011	MF11-009	6
MF0830-038	MF0830	44	45	1	1	SPLIT	23/08/2011	MF11-009	6
MF0830-039	MF0830	45	46	1	1	SPLIT	23/08/2011	MF11-009	6
MF0830-040	MF0830	46	47	1	1	SPLIT	23/08/2011	MF11-009	6
MF0830-041	MF0830	47	48	1	1	SPLIT	23/08/2011	MF11-009	6
MF0830-042	MF0830	48	49	1	1	SPLIT	23/08/2011	MF11-009	6
MF0830-043	MF0830	49	50	1	1	SPLIT	23/08/2011	MF11-009	7
MF0830-044	MF0830	50	51	1	1	SPLIT	23/08/2011	MF11-009	7
MF0830-045	MF0830	51	52	1	1	SPLIT	23/08/2011	MF11-009	7
MF0830-046	MF0830	52	53	1	1	SPLIT	23/08/2011	MF11-009	7
MF0830-047	MF0830	53	54	1	1	SPLIT	23/08/2011	MF11-009	7
MF0830-048	MF0830	54	55	1	1	SPLIT	23/08/2011	MF11-009	7
MF0830-049	MF0830	55	56	1	1	SPLIT	23/08/2011	MF11-009	7
MF0830-050	MF0830	56	57	1	1	SPLIT	23/08/2011	MF11-009	8
MF0830-051	MF0830	57	58	1	1	SPLIT	23/08/2011	MF11-009	8
MF0830-052	MF0830	58	59	1	1	SPLIT	23/08/2011	MF11-009	8
MF0830-053	MF0830	59	60	1	1	SPLIT	23/08/2011	MF11-009	8
MF0830-054	MF0830	60	61	1	1	SPLIT	23/08/2011	MF11-009	8
MF0830-055	MF0830	61	62	1	1	SPLIT	23/08/2011	MF11-009	8
MF0830-056	MF0830	62	63	1	1	SPLIT	23/08/2011	MF11-009	8
MF0830-057	MF0830	63	64	1	1	SPLIT	23/08/2011	MF11-009	9
MF0830-058	MF0830	64	65	1	1	SPLIT	23/08/2011	MF11-009	9
MF0830-059	MF0830	65	66	1	1	SPLIT	23/08/2011	MF11-009	9
MF0830-060	MF0830	66	67	1	1	SPLIT	23/08/2011	MF11-009	9
MF0830-061	MF0830	67	68	1	1	SPLIT	23/08/2011	MF11-009	9
MF0830-062	MF0830	68	69	1	1	SPLIT	23/08/2011	MF11-009	9
MF0830-063	MF0830	69	70	1	1	SPLIT	23/08/2011	MF11-009	9
MF0830-064	MF0830	70	71	1	1	SPLIT	23/08/2011	MF11-009	10

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0830-065	MF0830	71	72	1	1	SPLIT	23/08/2011	MF11-009	10
MF0830-066	MF0830	72	73	1	1	SPLIT	23/08/2011	MF11-009	10
MF0830-067	MF0830	73	74	1	1	SPLIT	23/08/2011	MF11-009	10
MF0830-068	MF0830	74	75	1	1	SPLIT	23/08/2011	MF11-009	10
MF0830-069	MF0830	75	76	1	1	SPLIT	23/08/2011	MF11-009	10
MF0830-070	MF0830	76	77	1	1	SPLIT	23/08/2011	MF11-009	10
MF0830-071	MF0830	77	78	1	1	SPLIT	23/08/2011	MF11-009	11
MF0830-072	MF0830	78	79	1	1	SPLIT	23/08/2011	MF11-009	11
MF0830-073	MF0830	79	80	1	1	SPLIT	23/08/2011	MF11-009	11
MF0830-074	MF0830	80	81	1	1	SPLIT	23/08/2011	MF11-009	11
MF0830-075	MF0830	81	82	1	1	SPLIT	23/08/2011	MF11-009	11
MF0830-076	MF0830	82	83	1	1	SPLIT	23/08/2011	MF11-009	11
MF0830-077	MF0830	83	84	1	1	SPLIT	23/08/2011	MF11-009	11
MF0830-078	MF0830	84	85	1	1	SPLIT	23/08/2011	MF11-009	12
MF0830-079	MF0830	85	86	1	1	SPLIT	23/08/2011	MF11-009	12
MF0830-080	MF0830	86	87	1	1	SPLIT	23/08/2011	MF11-009	12
MF0830-081	MF0830	87	88	1	1	SPLIT	23/08/2011	MF11-009	12
MF0830-082	MF0830	88	89	1	1	SPLIT	23/08/2011	MF11-009	12
MF0830-083	MF0830	89	90	1	1	SPLIT	23/08/2011	MF11-009	12
MF0830-084	MF0830	90	91	1	1	SPLIT	23/08/2011	MF11-009	12
MF0830-085	MF0830	91	92	1	1	SPLIT	23/08/2011	MF11-009	13
MF0830-086	MF0830	92	93	1	1	SPLIT	23/08/2011	MF11-009	13
MF0830-087	MF0830	93	94	1	1	SPLIT	23/08/2011	MF11-009	13
MF0830-088	MF0830	94	95	1	1	SPLIT	23/08/2011	MF11-009	13
MF0830-089	MF0830	95	96	1	1	SPLIT	23/08/2011	MF11-009	13
MF0830-090	MF0830	96	97	1	1	SPLIT	23/08/2011	MF11-009	13
MF0830-091	MF0830	97	98	1	1	SPLIT	23/08/2011	MF11-009	13
MF0830-092	MF0830	98	99	1	1	SPLIT	23/08/2011	MF11-009	14
MF0830-093	MF0830	99	100	1	1	SPLIT	23/08/2011	MF11-009	14
MF0830-094	MF0830	100	101	1	1	SPLIT	23/08/2011	MF11-009	14
MF0830-095	MF0830	101	102	1	1	SPLIT	23/08/2011	MF11-009	14
MF0830-096	MF0830	102	103	1	1	SPLIT	23/08/2011	MF11-009	14
MF0830-097	MF0830	103	104	1	1	SPLIT	23/08/2011	MF11-009	14
MF0830-098	MF0830	104	105	1	1	SPLIT	23/08/2011	MF11-009	14
MF0830-099	MF0830	105	106	1	1	SPLIT	23/08/2011	MF11-009	15
MF0830-100	MF0830	106	107	1	1	SPLIT	23/08/2011	MF11-009	15
MF0830-101	MF0830	107	108	1	1	SPLIT	23/08/2011	MF11-009	15
MF0830-102	MF0830	108	109	1	1	SPLIT	23/08/2011	MF11-009	15
MF0830-103	MF0830	109	110	1	1	SPLIT	23/08/2011	MF11-009	15
MF0830-104	MF0830	110	111	1	1	SPLIT	23/08/2011	MF11-009	15
MF0830-105	MF0830	111	112	1	1	SPLIT	23/08/2011	MF11-009	15
MF0830-106	MF0830	112	113	1	1	SPLIT	23/08/2011	MF11-009	16
MF0830-107	MF0830	113	114	1	1	SPLIT	23/08/2011	MF11-009	16
MF0830-108	MF0830	114	115	1	1	SPLIT	23/08/2011	MF11-009	16
MF0830-109	MF0830	115	116	1	1	SPLIT	23/08/2011	MF11-009	16
MF0830-110	MF0830	116	117	1	1	SPLIT	23/08/2011	MF11-009	16
MF0830-111	MF0830	117	118	1	1	SPLIT	23/08/2011	MF11-009	16
MF0830-112	MF0830	118	119	1	1	SPLIT	23/08/2011	MF11-009	16
MF0830-113	MF0830	119	120	1	1	SPLIT	23/08/2011	MF11-009	17
MF0830-114	MF0830	120	121	1	1	SPLIT	23/08/2011	MF11-009	17
MF0830-115	MF0830	121	122	1	1	SPLIT	23/08/2011	MF11-009	17
MF0830-116	MF0830	122	123	1	1	SPLIT	23/08/2011	MF11-009	17
MF0830-117	MF0830	123	124	1	1	SPLIT	23/08/2011	MF11-009	17
MF0830-118	MF0830	124	125	1	1	SPLIT	23/08/2011	MF11-009	17
MF0830-119	MF0830	125	126	1	1	SPLIT	23/08/2011	MF11-009	17
MF0830-120	MF0830	126	127	1	1	SPLIT	23/08/2011	MF11-009	18
MF0830-121	MF0830	127	128	1	1	SPLIT	23/08/2011	MF11-009	18
MF0830-122	MF0830	128	129	1	1	SPLIT	23/08/2011	MF11-009	18
MF0830-123	MF0830	129	130	1	1	SPLIT	23/08/2011	MF11-009	18
MF0830-124	MF0830	130	131	1	1	SPLIT	23/08/2011	MF11-009	18
MF0830-125	MF0830	131	132	1	1	SPLIT	23/08/2011	MF11-009	18
MF0830-126	MF0830	132	133	1	1	SPLIT	23/08/2011	MF11-009	18
MF0830-127	MF0830	133	134	1	1	SPLIT	23/08/2011	MF11-009	19
MF0830-128	MF0830	134	135	1	1	SPLIT	23/08/2011	MF11-009	19

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0830-129	MF0830	135	136	1	1	SPLIT	23/08/2011	MF11-009	19
MF0830-130	MF0830	136	137	1	1	SPLIT	23/08/2011	MF11-009	19
MF0830-131	MF0830	137	138	1	1	SPLIT	23/08/2011	MF11-009	19
MF0830-132	MF0830	138	139	1	1	SPLIT	23/08/2011	MF11-009	19
MF0830-133	MF0830	139	140	1	1	SPLIT	23/08/2011	MF11-009	19
MF0830-134	MF0830	140	141	1	1	SPLIT	23/08/2011	MF11-009	20
MF0830-135	MF0830	141	142	1	1	SPLIT	23/08/2011	MF11-009	20
MF0830-136	MF0830	142	143	1	1	SPLIT	23/08/2011	MF11-009	20
MF0830-137	MF0830	143	144	1	1	SPLIT	23/08/2011	MF11-009	20
MF0830-138	MF0830	144	145	1	1	SPLIT	23/08/2011	MF11-009	20
MF0830-139	MF0830	145	146	1	1	SPLIT	23/08/2011	MF11-009	20
MF0830-140	MF0830	146	147	1	1	SPLIT	23/08/2011	MF11-009	20
MF0830-141	MF0830	147	148	1	1	SPLIT	23/08/2011	MF11-009	21
MF0830-142	MF0830	148	149	1	1	SPLIT	23/08/2011	MF11-009	21
MF0830-143	MF0830	149	150	1	1	SPLIT	23/08/2011	MF11-009	21
MF0830-144	MF0830	150	151	1	1	SPLIT	23/08/2011	MF11-009	21
MF0830-145	MF0830	151	152	1	1	SPLIT	23/08/2011	MF11-009	21
MF0830-146	MF0830	152	153	1	1	SPLIT	23/08/2011	MF11-009	21
MF0830-147	MF0830	153	154	1	1	SPLIT	23/08/2011	MF11-009	21
MF0830-148	MF0830	154	155	1	1	SPLIT	23/08/2011	MF11-009	22
MF0830-149	MF0830	155	156	1	1	SPLIT	23/08/2011	MF11-009	22
MF0830-150	MF0830	156	157	1	1	SPLIT	23/08/2011	MF11-009	22
MF0830-151	MF0830	157	158	1	1	SPLIT	23/08/2011	MF11-009	22
MF0830-152	MF0830	158	159	1	1	SPLIT	23/08/2011	MF11-009	22
MF0830-153	MF0830	159	160	1	1	SPLIT	23/08/2011	MF11-009	22
MF0830-154	MF0830	160	161	1	1	SPLIT	23/08/2011	MF11-009	22
MF0830-155	MF0830	161	162	1	1	SPLIT	23/08/2011	MF11-009	23
MF0830-156	MF0830	162	163	1	1	SPLIT	23/08/2011	MF11-009	23
MF0830-157	MF0830	163	164	1	1	SPLIT	23/08/2011	MF11-009	23
MF0830-158	MF0830	164	165	1	1	SPLIT	23/08/2011	MF11-009	23
MF0830-159	MF0830	165	166	1	1	SPLIT	23/08/2011	MF11-009	23
MF0830-160	MF0830	166	167	1	1	SPLIT	23/08/2011	MF11-009	23
MF0830-161	MF0830	167	168	1	1	SPLIT	23/08/2011	MF11-009	23
MF0830-162	MF0830	168	169	1	1	SPLIT	23/08/2011	MF11-009	24
MF0830-163	MF0830	169	170	1	1	SPLIT	23/08/2011	MF11-009	24
MF0830-164	MF0830	170	171	1	1	SPLIT	23/08/2011	MF11-009	24
MF0830-165	MF0830	171	172	1	1	SPLIT	23/08/2011	MF11-009	24
MF0830-166	MF0830	172	173	1	1	SPLIT	23/08/2011	MF11-009	24
MF0830-167	MF0830	173	174	1	1	SPLIT	23/08/2011	MF11-009	24
MF0830-168	MF0830	174	175	1	1	SPLIT	23/08/2011	MF11-009	24
MF0830-169	MF0830	175	176	1	1	SPLIT	23/08/2011	MF11-009	25
MF0830-170	MF0830	176	177	1	1	SPLIT	23/08/2011	MF11-009	25
MF0830-171	MF0830	177	178	1	1	SPLIT	23/08/2011	MF11-009	25
MF0830-172	MF0830	178	179	1	1	SPLIT	23/08/2011	MF11-009	25
MF0830-173	MF0830	179	180	1	1	SPLIT	23/08/2011	MF11-009	25
MF0830-174	MF0830	180	181	1	1	SPLIT	23/08/2011	MF11-009	25
MF0830-175	MF0830	181	182	1	1	SPLIT	23/08/2011	MF11-009	25
MF0830-176	MF0830	182	183	1	1	SPLIT	23/08/2011	MF11-009	26
MF0830-177	MF0830	183	184	1	1	SPLIT	23/08/2011	MF11-009	26
MF0830-178	MF0830	184	185	1	1	SPLIT	23/08/2011	MF11-009	26
MF0830-179	MF0830	185	186	1	1	SPLIT	23/08/2011	MF11-009	26
MF0830-180	MF0830	186	187	1	1	SPLIT	23/08/2011	MF11-009	26
MF0830-181	MF0830	187	188	1	1	SPLIT	23/08/2011	MF11-009	26
MF0830-182	MF0830	188	189	1	1	SPLIT	23/08/2011	MF11-009	26
MF0830-183	MF0830	189	190	1	1	SPLIT	23/08/2011	MF11-009	27
MF0830-184	MF0830	190	191	1	1	SPLIT	23/08/2011	MF11-009	27
MF0830-185	MF0830	191	192	1	1	SPLIT	23/08/2011	MF11-009	27
MF0830-186	MF0830	192	193	1	1	SPLIT	23/08/2011	MF11-009	27
MF0830-187	MF0830	193	194	1	1	SPLIT	23/08/2011	MF11-009	27
MF0830-188	MF0830	194	195	1	1	SPLIT	23/08/2011	MF11-009	27
MF0830-189	MF0830	195	196	1	1	SPLIT	23/08/2011	MF11-009	27
MF0830-190	MF0830	196	197	1	1	SPLIT	23/08/2011	MF11-009	28
MF0830-191	MF0830	197	198	1	1	SPLIT	23/08/2011	MF11-009	28
MF0830-192	MF0830	198	199	1	1	SPLIT	23/08/2011	MF11-009	28

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0830-193	MF0830	199	200	1	1	SPLIT	23/08/2011	MF11-009	28
MF0830-194	MF0830	200	201	1	1	SPLIT	23/08/2011	MF11-009	28
MF0830-195	MF0830	201	202	1	1	SPLIT	23/08/2011	MF11-009	28
MF0830-196	MF0830	202	203	1	1	SPLIT	23/08/2011	MF11-009	28
MF0830-197	MF0830	203	204	1	1	SPLIT	23/08/2011	MF11-009	29
MF0830-198	MF0830	204	205	1	1	SPLIT	23/08/2011	MF11-009	29
MF0830-199	MF0830	205	206	1	1	SPLIT	23/08/2011	MF11-009	29
MF0830-200	MF0830	206	207	1	1	SPLIT	23/08/2011	MF11-009	29
MF0830-201	MF0830	207	208	1	1	SPLIT	23/08/2011	MF11-009	29
MF0830-202	MF0830	208	209	1	1	SPLIT	23/08/2011	MF11-009	29
MF0830-203	MF0830	209	210	1	1	SPLIT	23/08/2011	MF11-009	29
MF0830-204	MF0830	210	211	1	1	SPLIT	23/08/2011	MF11-009	30
MF0830-205	MF0830	211	212	1	1	SPLIT	23/08/2011	MF11-009	30
MF0830-206	MF0830	212	213	1	1	SPLIT	23/08/2011	MF11-009	30
MF0830-207	MF0830	213	214	1	1	SPLIT	23/08/2011	MF11-009	30
MF0830-208	MF0830	214	215	1	1	SPLIT	23/08/2011	MF11-009	30
MF0830-209	MF0830	215	216	1	1	SPLIT	23/08/2011	MF11-009	30
MF0830-210	MF0830	216	217	1	1	SPLIT	23/08/2011	MF11-009	30
MF0830-211	MF0830	217	218	1	1	SPLIT	23/08/2011	MF11-009	31
MF0830-212	MF0830	218	219	1	1	SPLIT	23/08/2011	MF11-009	31
MF0830-213	MF0830	219	220	1	1	SPLIT	23/08/2011	MF11-009	31
MF0830-214	MF0830	220	221	1	1	SPLIT	23/08/2011	MF11-009	31
MF0830-215	MF0830	221	222	1	1	SPLIT	23/08/2011	MF11-009	31
MF0830-216	MF0830	222	223	1	1	SPLIT	23/08/2011	MF11-009	31
MF0830-217	MF0830	223	224	1	1	SPLIT	23/08/2011	MF11-009	31
MF0830-218	MF0830	224	225	1	1	SPLIT	23/08/2011	MF11-009	32
MF0830-219	MF0830	225	226	1	1	SPLIT	23/08/2011	MF11-009	32
MF0830-220	MF0830	226	227	1	1	SPLIT	23/08/2011	MF11-009	32
MF0830-221	MF0830	227	228	1	1	SPLIT	23/08/2011	MF11-009	32
MF0830-222	MF0830	228	229	1	1	SPLIT	23/08/2011	MF11-009	32
MF0830-223	MF0830	229	230	1	1	SPLIT	23/08/2011	MF11-009	32
MF0830-224	MF0830	230	231	1	1	SPLIT	23/08/2011	MF11-009	32
MF0830-225	MF0830	231	232	1	1	SPLIT	23/08/2011	MF11-009	33
MF0830-226	MF0830	232	233	1	1	SPLIT	23/08/2011	MF11-009	33
MF0830-227	MF0830	233	234	1	1	SPLIT	23/08/2011	MF11-009	33
MF0830-228	MF0830	234	235	1	1	SPLIT	23/08/2011	MF11-009	33
MF0830-229	MF0830	235	236	1	1	SPLIT	23/08/2011	MF11-009	33
MF0830-230	MF0830	236	237	1	1	SPLIT	23/08/2011	MF11-009	33
MF0830-231	MF0830	237	238	1	1	SPLIT	23/08/2011	MF11-009	33
MF0830-232	MF0830	238	239	1	1	SPLIT	23/08/2011	MF11-009	34
MF0830-233	MF0830	239	240	1	1	SPLIT	23/08/2011	MF11-009	34
MF0830-234	MF0830	240	241	1	1	SPLIT	23/08/2011	MF11-009	34
MF0830-235	MF0830	241	242	1	1	SPLIT	23/08/2011	MF11-009	34
MF0830-236	MF0830	242	243	1	1	SPLIT	23/08/2011	MF11-009	34
MF0830-237	MF0830	243	244	1	1	SPLIT	23/08/2011	MF11-009	34
MF0830-238	MF0830	244	245	1	1	SPLIT	23/08/2011	MF11-009	34
MF0830-239	MF0830	245	246	1	1	SPLIT	23/08/2011	MF11-009	35
MF0830-240	MF0830	246	247	1	1	SPLIT	23/08/2011	MF11-009	35
MF0830-241	MF0830	247	248	1	1	SPLIT	23/08/2011	MF11-009	35
MF0830-242	MF0830	248	249	1	1	SPLIT	23/08/2011	MF11-009	35
MF0830-243	MF0830	249	250	1	1	SPLIT	23/08/2011	MF11-009	35
MF0830-244	MF0830	250	251	1	1	SPLIT	23/08/2011	MF11-009	35
MF0830-245	MF0830	251	252	1	1	SPLIT	23/08/2011	MF11-009	35
MF0830-246	MF0830	252	253	1	1	SPLIT	23/08/2011	MF11-009	36
MF0830-247	MF0830	253	254	1	1	SPLIT	23/08/2011	MF11-009	36
MF0830-248	MF0830	254	255	1	1	SPLIT	23/08/2011	MF11-009	36
MF0830-249	MF0830	255	256	1	1	SPLIT	23/08/2011	MF11-009	36
MF0830-250	MF0830	256	257	1	1	SPLIT	23/08/2011	MF11-009	36
MF0830-251	MF0830	257	258	1	1	SPLIT	23/08/2011	MF11-009	36
MF0830-252	MF0830	258	259	1	1	SPLIT	23/08/2011	MF11-009	36
MF0830-253	MF0830	259	260	1	1	SPLIT	23/08/2011	MF11-009	37
MF0830-254	MF0830	260	261	1	1	SPLIT	23/08/2011	MF11-009	37
MF0830-255	MF0830	261	262	1	1	SPLIT	23/08/2011	MF11-009	37
MF0830-256	MF0830	262	263	1	1	SPLIT	23/08/2011	MF11-009	37

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0830-257	MF0830	263	264	1	1	SPLIT	23/08/2011	MF11-009	37
MF0830-258	MF0830	264	265	1	1	SPLIT	23/08/2011	MF11-009	37
MF0830-259	MF0830	265	266	1	1	SPLIT	23/08/2011	MF11-009	37
MF0830-260	MF0830	266	267	1	1	SPLIT	23/08/2011	MF11-009	38
MF0830-261	MF0830	267	268	1	1	SPLIT	23/08/2011	MF11-009	38
MF0830-262	MF0830	268	269	1	1	SPLIT	23/08/2011	MF11-009	38
MF0830-263	MF0830	269	270	1	1	SPLIT	23/08/2011	MF11-009	38
MF0830-264	MF0830	270	271	1	1	SPLIT	23/08/2011	MF11-009	38
MF0830-265	MF0830	271	272	1	1	SPLIT	23/08/2011	MF11-009	38
MF0830-266	MF0830	272	273	1	1	SPLIT	23/08/2011	MF11-009	38
MF0830-267	MF0830	273	274	1	1	SPLIT	23/08/2011	MF11-009	39
MF0830-268	MF0830	274	275	1	1	SPLIT	23/08/2011	MF11-009	39
MF0830-269	MF0830	275	276	1	1	SPLIT	23/08/2011	MF11-009	39
MF0830-270	MF0830	276	277	1	1	SPLIT	23/08/2011	MF11-009	39
MF0830-271	MF0830	277	279	1.5	1.5	SPLIT	23/08/2011	MF11-009	39
MF0844-001	MF0844	5	6	1	0.5	Split	01/08/2011	MF11-001	1
MF0844-002	MF0844	6	6.5	0.5	0.5	Split	01/08/2011	MF11-001	1
MF0844-003	MF0844	6.5	7.5	1	0.8	Split	01/08/2011	MF11-001	1
MF0844-004	MF0844	132	133	1	1	Split	01/08/2011	MF11-001	1
MF0844-005	MF0844	133	134	1	1	Split	01/08/2011	MF11-001	1
MF0844-006	MF0844	134	135	1	1	Split	01/08/2011	MF11-001	1
MF0844-007	MF0844	135	136	1	1	Split	01/08/2011	MF11-001	1
MF0844-008	MF0844	136	137	1	1	Split	01/08/2011	MF11-001	2
MF0844-009	MF0844	137	138	1	1	Split	01/08/2011	MF11-001	2
MF0844-010	MF0844	138	139	1	1	Split	01/08/2011	MF11-001	2
MF0844-011	MF0844	139	140	1	1	Split	01/08/2011	MF11-001	2
MF0844-012	MF0844	140	141	1	1	Split	01/08/2011	MF11-001	2
MF0844-013	MF0844	141	142	1	1	Split	01/08/2011	MF11-001	2
MF0844-014	MF0844	142	143	1	1	Split	01/08/2011	MF11-001	2
MF0844-015	MF0844	143	144	1	1	Split	01/08/2011	MF11-001	3
MF0844-016	MF0844	144	145	1	1	Split	01/08/2011	MF11-001	3
MF0844-017	MF0844	145	146	1	1	Split	01/08/2011	MF11-001	3
MF0844-018	MF0844	146	147	1	1	Split	01/08/2011	MF11-001	3
MF0844-019	MF0844	147	148	1	1	Split	01/08/2011	MF11-001	3
MF0844-020	MF0844	148	149	1	1	Split	01/08/2011	MF11-001	3
MF0844-021	MF0844	149	150	1	1	Split	01/08/2011	MF11-001	3
MF0844-022	MF0844	150	151	1	1	Split	01/08/2011	MF11-001	4
MF0844-023	MF0844	151	152	1	1	Split	01/08/2011	MF11-001	4
MF0844-024	MF0844	152	153	1	1	Split	01/08/2011	MF11-001	4
MF0844-025	MF0844	153	154	1	1	Split	01/08/2011	MF11-001	4
MF0844-026	MF0844	154	155	1	1	Split	01/08/2011	MF11-001	4
MF0844-027	MF0844	155	156	1	1	Split	01/08/2011	MF11-001	4
MF0844-028	MF0844	156	157	1	1	Split	01/08/2011	MF11-001	4
MF0844-029	MF0844	157	158	1	1	Split	01/08/2011	MF11-001	5
MF0844-030	MF0844	158	159	1	1	Split	01/08/2011	MF11-001	5
MF0844-031	MF0844	193	194	1	1	Split	01/08/2011	MF11-001	5
MF0844-032	MF0844	194	195	1	1	Split	01/08/2011	MF11-001	5
MF0844-033	MF0844	195	196	1	1	Split	01/08/2011	MF11-001	5
MF0844-034	MF0844	196	197	1	1	Split	01/08/2011	MF11-001	5
MF0844-035	MF0844	197	198	1	1	Split	01/08/2011	MF11-001	5
MF0844-036	MF0844	198	199	1	1	Split	01/08/2011	MF11-001	6
MF0844-037	MF0844	199	200	1	1	Split	01/08/2011	MF11-001	6
MF0844-038	MF0844	200	201	1	1	Split	01/08/2011	MF11-001	6
MF0844-039	MF0844	201	202	1	1	Split	01/08/2011	MF11-001	6
MF0844-040	MF0844	202	203	1	1	Split	01/08/2011	MF11-001	6
MF0844-041	MF0844	203	204	1	1	Split	01/08/2011	MF11-001	6
MF0844-042	MF0844	204	205	1	1	Split	01/08/2011	MF11-001	6
MF0844-043	MF0844	205	206	1	1	Split	01/08/2011	MF11-001	6
MF0844-044	MF0844	206	207	1	1	Split	01/08/2011	MF11-001	6
MF0848-001	MF0848	67	68	1	1	Split	14/07/2011	MF11-005	1
MF0848-002	MF0848	68	69	1	1	Split	14/07/2011	MF11-005	1
MF0848-003	MF0848	69	70	1	1	Split	14/07/2011	MF11-005	1
MF0848-004	MF0848	70	71	1	1	Split	14/07/2011	MF11-005	1
MF0848-005	MF0848	71	72	1	1	Split	14/07/2011	MF11-005	1

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0848-006	MF0848	72	73	1	1	Split	14/07/2011	MF11-005	1
MF0848-007	MF0848	73	74	1	1	Split	14/07/2011	MF11-005	1
MF0848-008	MF0848	74	75	1	1	Split	14/07/2011	MF11-005	2
MF0848-009	MF0848	75	76	1	1	Split	14/07/2011	MF11-005	2
MF0848-010	MF0848	76	77	1	1	Split	14/07/2011	MF11-005	2
MF0848-011	MF0848	77	78	1	1	Split	14/07/2011	MF11-005	2
MF0848-012	MF0848	78	79	1	1	Split	14/07/2011	MF11-005	2
MF0848-013	MF0848	107	108	1	1	Split	14/07/2011	MF11-005	2
MF0848-014	MF0848	108	109	1	1	Split	14/07/2011	MF11-005	2
MF0848-015	MF0848	109	110	1	1	Split	14/07/2011	MF11-005	3
MF0848-016	MF0848	110	111	1	1	Split	14/07/2011	MF11-005	3
MF0848-017	MF0848	111	112	1	1	Split	14/07/2011	MF11-005	3
MF0848-018	MF0848	112	113	1	1	Split	14/07/2011	MF11-005	3
MF0848-019	MF0848	113	114	1	1	Split	14/07/2011	MF11-005	3
MF0848-020	MF0848	114	115	1	1	Split	14/07/2011	MF11-005	3
MF0849-001	MF0849	77	78	1	1	Split	15/07/2011	MF11-006	1
MF0849-002	MF0849	78	79	1	1	Split	15/07/2011	MF11-006	1
MF0849-003	MF0849	79	80	1	1	Split	15/07/2011	MF11-006	1
MF0849-004	MF0849	80	81	1	1	Split	15/07/2011	MF11-006	1
MF0849-005	MF0849	81	82	1	1	Split	15/07/2011	MF11-006	1
MF0849-006	MF0849	82	83	1	1	Split	15/07/2011	MF11-006	1
MF0849-007	MF0849	83	84	1	1	Split	15/07/2011	MF11-006	1
MF0849-008	MF0849	84	85	1	1	Split	15/07/2011	MF11-006	2
MF0849-009	MF0849	85	86	1	1	Split	15/07/2011	MF11-006	2
MF0849-010	MF0849	86	87	1	1	Split	15/07/2011	MF11-006	2
MF0849-011	MF0849	87	88	1	1	Split	15/07/2011	MF11-006	2
MF0849-012	MF0849	88	89	1	1	Split	15/07/2011	MF11-006	2
MF0849-013	MF0849	89	90	1	1	Split	15/07/2011	MF11-006	2
MF0849-014	MF0849	90	91	1	1	Split	15/07/2011	MF11-006	2
MF0849-015	MF0849	91	92	1	1	Split	15/07/2011	MF11-006	3
MF0849-016	MF0849	92	93	1	1	Split	15/07/2011	MF11-006	3
MF0849-017	MF0849	93	94	1	1	Split	15/07/2011	MF11-006	3
MF0849-018	MF0849	94	95	1	1	Split	15/07/2011	MF11-006	3
MF0849-019	MF0849	95	96	1	1	Split	15/07/2011	MF11-006	3
MF0849-020	MF0849	96	97	1	1	Split	15/07/2011	MF11-006	3
MF0849-021	MF0849	97	98	1	1	Split	15/07/2011	MF11-006	3
MF0849-022	MF0849	98	99	1	1	Split	15/07/2011	MF11-006	3
MF0849-023	MF0849	99	100	1	1	Split	15/07/2011	MF11-006	3
MF0849-024	MF0849	100	101	1	1	Split	15/07/2011	MF11-006	3
MF0850-001	MF0850	12	13	1	1	Split	03/08/2011	MF11-003	1
MF0850-002	MF0850	13	14	1	1	Split	03/08/2011	MF11-003	1
MF0850-003	MF0850	14	15	1	1	Split	03/08/2011	MF11-003	1
MF0850-004	MF0850	15	16	1	1	Split	03/08/2011	MF11-003	1
MF0850-005	MF0850	16	17	1	1	Split	03/08/2011	MF11-003	1
MF0850-006	MF0850	17	18	1	1	Split	03/08/2011	MF11-003	1
MF0850-007	MF0850	18	19	1	1	Split	03/08/2011	MF11-003	1
MF0850-008	MF0850	19	20	1	1	Split	03/08/2011	MF11-003	2
MF0850-009	MF0850	20	21	1	1	Split	03/08/2011	MF11-003	2
MF0850-010	MF0850	21	22	1	1	Split	03/08/2011	MF11-003	2
MF0850-011	MF0850	22	23	1	1	Split	03/08/2011	MF11-003	2
MF0850-012	MF0850	28.5	29.5	1	1	Split	03/08/2011	MF11-003	2
MF0850-013	MF0850	29.5	31.5	2	2	Split	03/08/2011	MF11-003	2
MF0850-014	MF0850	31.5	32.5	1	1	Split	03/08/2011	MF11-003	2
MF0850-015	MF0850	65	66	1	1	Split	03/08/2011	MF11-003	3
MF0850-016	MF0850	66	67	1	1	Split	03/08/2011	MF11-003	3
MF0850-017	MF0850	67	68	1	1	Split	03/08/2011	MF11-003	3
MF0850-018	MF0850	68	69	1	1	Split	03/08/2011	MF11-003	3
MF0850-019	MF0850	69	70	1	1	Split	03/08/2011	MF11-003	3
MF0850-020	MF0850	70	71	1	1	Split	03/08/2011	MF11-003	3
MF0850-021	MF0850	71	72	1	1	Split	03/08/2011	MF11-003	3
MF0850-022	MF0850	72	73	1	1	Split	03/08/2011	MF11-003	4
MF0850-023	MF0850	73	74	1	1	Split	03/08/2011	MF11-003	4
MF0850-024	MF0850	74	75	1	1	Split	03/08/2011	MF11-003	4
MF0850-025	MF0850	75	76	1	1	Split	03/08/2011	MF11-003	4

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0850-026	MF0850	76	77	1	1	Split	03/08/2011	MF11-003	4
MF0850-027	MF0850	77	78	1	1	Split	03/08/2011	MF11-003	4
MF0850-028	MF0850	78	79	1	1	Split	03/08/2011	MF11-003	4
MF0850-029	MF0850	79	80	1	1	Split	03/08/2011	MF11-003	5
MF0850-030	MF0850	80	81	1	1	Split	03/08/2011	MF11-003	5
MF0850-031	MF0850	81	82	1	1	Split	03/08/2011	MF11-003	5
MF0850-032	MF0850	82	83	1	1	Split	03/08/2011	MF11-003	5
MF0850-033	MF0850	83	84	1	1	Split	03/08/2011	MF11-003	5
MF0850-034	MF0850	84	85	1	1	Split	03/08/2011	MF11-003	5
MF0850-035	MF0850	85	86	1	1	Split	03/08/2011	MF11-003	5
MF0850-036	MF0850	86	87	1	1	Split	03/08/2011	MF11-003	6
MF0850-037	MF0850	87	88	1	1	Split	03/08/2011	MF11-003	6
MF0850-038	MF0850	88	89	1	1	Split	03/08/2011	MF11-003	6
MF0850-039	MF0850	89	90	1	1	Split	03/08/2011	MF11-003	6
MF0850-040	MF0850	90	91	1	1	Split	03/08/2011	MF11-003	6
MF0850-041	MF0850	91	92	1	1	Split	03/08/2011	MF11-003	6
MF0850-042	MF0850	92	93	1	1	Split	03/08/2011	MF11-003	6
MF0850-043	MF0850	93	94	1	1	Split	03/08/2011	MF11-003	7
MF0850-044	MF0850	94	95	1	1	Split	03/08/2011	MF11-003	7
MF0850-045	MF0850	95	96	1	1	Split	03/08/2011	MF11-003	7
MF0850-046	MF0850	96	97	1	1	Split	03/08/2011	MF11-003	7
MF0850-047	MF0850	97	98	1	1	Split	03/08/2011	MF11-003	7
MF0850-048	MF0850	98	99	1	1	Split	03/08/2011	MF11-003	7
MF0851-001	MF0851	111	112	1	1	Split	16/07/2011	MF11-004	1
MF0851-002	MF0851	112	113	1	1	Split	16/07/2011	MF11-004	1
MF0851-003	MF0851	113	114	1	1	Split	16/07/2011	MF11-004	1
MF0851-004	MF0851	114	115	1	1	Split	16/07/2011	MF11-004	1
MF0851-005	MF0851	115	116	1	1	Split	16/07/2011	MF11-004	1
MF0851-006	MF0851	116	117	1	1	Split	16/07/2011	MF11-004	1
MF0851-007	MF0851	117	118	1	1	Split	16/07/2011	MF11-004	1
MF0851-008	MF0851	118	119	1	1	Split	16/07/2011	MF11-004	2
MF0851-009	MF0851	119	120	1	1	Split	16/07/2011	MF11-004	2
MF0851-010	MF0851	120	121	1	1	Split	16/07/2011	MF11-004	2
MF0851-011	MF0851	121	122	1	1	Split	16/07/2011	MF11-004	2
MF0851-012	MF0851	122	123	1	1	Split	16/07/2011	MF11-004	2
MF0851-013	MF0851	123	124	1	1	Split	16/07/2011	MF11-004	2
MF0851-014	MF0851	124	125	1	1	Split	16/07/2011	MF11-004	2
MF0851-015	MF0851	125	126	1	1	Split	16/07/2011	MF11-004	3
MF0851-016	MF0851	126	127	1	1	Split	16/07/2011	MF11-004	3
MF0851-017	MF0851	127	128	1	1	Split	16/07/2011	MF11-004	3
MF0851-018	MF0851	128	129	1	1	Split	16/07/2011	MF11-004	3
MF0851-019	MF0851	129	130	1	1	Split	16/07/2011	MF11-004	3
MF0851-020	MF0851	130	131	1	1	Split	16/07/2011	MF11-004	3
MF0851-021	MF0851	131	132	1	1	Split	16/07/2011	MF11-004	3
MF0851-022	MF0851	132	133	1	1	Split	16/07/2011	MF11-004	4
MF0851-023	MF0851	133	134	1	1	Split	16/07/2011	MF11-004	4
MF0851-024	MF0851	134	135	1	1	Split	16/07/2011	MF11-004	4
MF0851-025	MF0851	135	136	1	1	Split	16/07/2011	MF11-004	4
MF0851-026	MF0851	136	137	1	1	Split	16/07/2011	MF11-004	4
MF0851-027	MF0851	137	138	1	1	Split	16/07/2011	MF11-004	4
MF0851-028	MF0851	138	139	1	1	Split	16/07/2011	MF11-004	4
MF0851-029	MF0851	139	140	1	1	Split	16/07/2011	MF11-004	5
MF0851-030	MF0851	140	141	1	1	Split	16/07/2011	MF11-004	5
MF0851-031	MF0851	141	142	1	1	Split	16/07/2011	MF11-004	5
MF0851-032	MF0851	142	143	1	1	Split	16/07/2011	MF11-004	5
MF0852-001	MF0852	92	93	1	1	Split	02/08/2011	MF11-002	1
MF0852-002	MF0852	93	94	1	1	Split	02/08/2011	MF11-002	1
MF0852-003	MF0852	94	95	1	1	Split	02/08/2011	MF11-002	1
MF0852-004	MF0852	95	96	1	1	Split	02/08/2011	MF11-002	1
MF0852-005	MF0852	96	97	1	1	Split	02/08/2011	MF11-002	1
MF0852-006	MF0852	97	98	1	1	Split	02/08/2011	MF11-002	1
MF0852-007	MF0852	98	99	1	1	Split	02/08/2011	MF11-002	1
MF0852-008	MF0852	99	100	1	1	Split	02/08/2011	MF11-002	2
MF0852-009	MF0852	100	101	1	1	Split	02/08/2011	MF11-002	2

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0852-010	MF0852	101	102	1	1	Split	02/08/2011	MF11-002	2
MF0852-011	MF0852	102	103	1	1	Split	02/08/2011	MF11-002	2
MF0852-012	MF0852	103	104	1	1	Split	02/08/2011	MF11-002	2
MF0852-013	MF0852	104	105	1	1	Split	02/08/2011	MF11-002	2
MF0852-014	MF0852	105	106	1	1	Split	02/08/2011	MF11-002	2
MF0852-015	MF0852	106	107	1	1	Split	02/08/2011	MF11-002	3
MF0852-016	MF0852	107	108	1	1	Split	02/08/2011	MF11-002	3
MF0852-017	MF0852	108	109	1	1	Split	02/08/2011	MF11-002	3
MF0852-018	MF0852	109	110	1	1	Split	02/08/2011	MF11-002	3
MF0852-019	MF0852	110	111	1	1	Split	02/08/2011	MF11-002	3
MF0852-020	MF0852	111	112	1	1	Split	02/08/2011	MF11-002	3
MF0852-021	MF0852	112	113	1	1	Split	02/08/2011	MF11-002	3
MF0852-022	MF0852	113	114	1	1	Split	02/08/2011	MF11-002	4
MF0852-023	MF0852	114	115	1	1	Split	02/08/2011	MF11-002	4
MF0852-024	MF0852	115	116	1	1	Split	02/08/2011	MF11-002	4
MF0852-025	MF0852	116	117	1	1	Split	02/08/2011	MF11-002	4
MF0852-026	MF0852	117	118	1	1	Split	02/08/2011	MF11-002	4
MF0852-027	MF0852	118	119	1	1	Split	02/08/2011	MF11-002	4
MF0852-028	MF0852	119	120	1	1	Split	02/08/2011	MF11-002	4
MF0852-029	MF0852	120	121	1	1	Split	02/08/2011	MF11-002	5
MF0852-030	MF0852	121	122	1	1	Split	02/08/2011	MF11-002	5
MF0852-031	MF0852	122	123	1	1	Split	02/08/2011	MF11-002	5
MF0852-032	MF0852	123	124	1	1	Split	02/08/2011	MF11-002	5
MF0852-033	MF0852	124	125	1	1	Split	02/08/2011	MF11-002	5
MF0852-034	MF0852	125	126	1	1	Split	02/08/2011	MF11-002	5
MF0852-035	MF0852	126	127	1	1	Split	02/08/2011	MF11-002	5
MF0852-036	MF0852	127	128	1	1	Split	02/08/2011	MF11-002	6
MF0852-037	MF0852	128	129	1	1	Split	02/08/2011	MF11-002	6
MF0852-038	MF0852	129	130	1	1	Split	02/08/2011	MF11-002	6
MF0852-039	MF0852	130	131	1	1	Split	02/08/2011	MF11-002	6
MF0852-040	MF0852	131	132	1	1	Split	02/08/2011	MF11-002	6
MF0852-041	MF0852	132	133	1	1	Split	02/08/2011	MF11-002	6
MF0852-042	MF0852	133	134	1	1	Split	02/08/2011	MF11-002	6
MF0852-043	MF0852	134	135	1	1	Split	02/08/2011	MF11-002	7
MF0852-044	MF0852	135	136	1	1	Split	02/08/2011	MF11-002	7
MF0852-045	MF0852	136	137	1	1	Split	02/08/2011	MF11-002	7
MF0852-046	MF0852	137	138	1	1	Split	02/08/2011	MF11-002	7
MF0852-047	MF0852	138	139	1	1	Split	02/08/2011	MF11-002	7
MF0852-048	MF0852	139	140	1	1	Split	02/08/2011	MF11-002	7
MF0852-049	MF0852	140	141	1	1	Split	02/08/2011	MF11-002	7
MF0852-050	MF0852	141	142	1	1	Split	02/08/2011	MF11-002	8
MF0852-051	MF0852	142	143	1	1	Split	02/08/2011	MF11-002	8
MF0852-052	MF0852	143	144	1	1	Split	02/08/2011	MF11-002	8
MF0852-053	MF0852	144	145	1	1	Split	02/08/2011	MF11-002	8
MF0852-054	MF0852	145	146	1	1	Split	02/08/2011	MF11-002	8
MF0852-055	MF0852	146	147	1	1	Split	02/08/2011	MF11-002	8
MF0852-056	MF0852	147	148	1	1	Split	02/08/2011	MF11-002	8
MF0852-057	MF0852	148	149	1	1	Split	02/08/2011	MF11-002	9
MF0852-058	MF0852	149	150	1	1	Split	02/08/2011	MF11-002	9
MF0852-059	MF0852	150	151	1	1	Split	02/08/2011	MF11-002	9
MF0852-060	MF0852	151	152	1	1	Split	02/08/2011	MF11-002	9
MF0852-061	MF0852	152	153	1	1	Split	02/08/2011	MF11-002	9
MF0852-062	MF0852	153	154	1	1	Split	02/08/2011	MF11-002	9
MF0852-063	MF0852	154	155	1	1	Split	02/08/2011	MF11-002	9
MF0852-064	MF0852	155	156	1	1	Split	02/08/2011	MF11-002	10
MF0852-065	MF0852	156	157	1	1	Split	02/08/2011	MF11-002	10
MF0852-066	MF0852	157	158	1	1	Split	02/08/2011	MF11-002	10
MF0852-067	MF0852	158	159	1	1	Split	02/08/2011	MF11-002	10
MF0852-068	MF0852	159	160	1	1	Split	02/08/2011	MF11-002	10
MF0852-069	MF0852	160	161	1	1	Split	02/08/2011	MF11-002	10
MF0852-070	MF0852	161	162	1	1	Split	02/08/2011	MF11-002	10
MF0852-071	MF0852	162	163	1	1	Split	02/08/2011	MF11-002	11
MF0852-072	MF0852	163	164	1	1	Split	02/08/2011	MF11-002	11
MF0852-073	MF0852	164	165	1	1	Split	02/08/2011	MF11-002	11

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0852-074	MF0852	165	166	1	1	Split	02/08/2011	MF11-002	11
MF0866-001	MF0866	82	83	1	0.5	Split	09/07/2011	MF11-008	1
MF0866-002	MF0866	83	84	1	0.5	Split	09/07/2011	MF11-008	1
MF0866-003	MF0866	84	85	1	0.5	Split	09/07/2011	MF11-008	1
MF0866-004	MF0866	85	86	1	1	Split	09/07/2011	MF11-008	1
MF0866-005	MF0866	86	87	1	1	Split	09/07/2011	MF11-008	1
MF0866-006	MF0866	87	88	1	1	Split	09/07/2011	MF11-008	1
MF0866-007	MF0866	88	89	1	1	Split	09/07/2011	MF11-008	1
MF0866-008	MF0866	89	90	1	1	Split	09/07/2011	MF11-008	2
MF0866-009	MF0866	112	113	1	1	Split	09/07/2011	MF11-008	2
MF0866-010	MF0866	113	114	1	1	Split	09/07/2011	MF11-008	2
MF0866-011	MF0866	114	115	1	1	Split	09/07/2011	MF11-008	2
MF0866-012	MF0866	121	122	1	1	Split	09/07/2011	MF11-008	2
MF0866-013	MF0866	122	123	1	1	Split	09/07/2011	MF11-008	2
MF0866-014	MF0866	123	124	1	1	Split	09/07/2011	MF11-008	2
MF0866-015	MF0866	124	125	1	1	Split	09/07/2011	MF11-008	3
MF0866-016	MF0866	125	126	1	1	Split	09/07/2011	MF11-008	3
MF0866-017	MF0866	126	127	1	1	Split	09/07/2011	MF11-008	3
MF0866-018	MF0866	127	128	1	1	Split	09/07/2011	MF11-008	3
MF0866-019	MF0866	128	129	1	1	Split	09/07/2011	MF11-008	3
MF0866-020	MF0866	129	130	1	1	Split	09/07/2011	MF11-008	3
MF0866-021	MF0866	130	131	1	1	Split	09/07/2011	MF11-008	3
MF0866-022	MF0866	131	132	1	1	Split	09/07/2011	MF11-008	4
MF0866-023	MF0866	132	133	1	1	Split	09/07/2011	MF11-008	4
MF0866-024	MF0866	133	134	1	1	Split	09/07/2011	MF11-008	4
MF0866-025	MF0866	134	135	1	1	Split	09/07/2011	MF11-008	4
MF0866-026	MF0866	135	136	1	1	Split	09/07/2011	MF11-008	4
MF0866-027	MF0866	136	137	1	1	Split	09/07/2011	MF11-008	4
MF0866-028	MF0866	137	138	1	1	Split	09/07/2011	MF11-008	4
MF0866-029	MF0866	138	139	1	1	Split	09/07/2011	MF11-008	5
MF0866-030	MF0866	139	140	1	1	Split	09/07/2011	MF11-008	5
MF0866-031	MF0866	140	141	1	1	Split	09/07/2011	MF11-008	5
MF0866-032	MF0866	141	142	1	1	Split	09/07/2011	MF11-008	5
MF0866-033	MF0866	142	143	1	1	Split	09/07/2011	MF11-008	5
MF0866-034	MF0866	143	144	1	1	Split	09/07/2011	MF11-008	5
MF0866-035	MF0866	144	145	1	1	Split	09/07/2011	MF11-008	5
MF0866-036	MF0866	145	146	1	1	Split	09/07/2011	MF11-008	6
MF0866-037	MF0866	146	147	1	1	Split	09/07/2011	MF11-008	6
MF0866-038	MF0866	147	148	1	1	Split	09/07/2011	MF11-008	6
MF0866-039	MF0866	148	149	1	1	Split	09/07/2011	MF11-008	6
MF0866-040	MF0866	149	150	1	1	Split	09/07/2011	MF11-008	6
MF0866-041	MF0866	150	151	1	1	Split	09/07/2011	MF11-008	6
MF0866-042	MF0866	151	152	1	1	Split	09/07/2011	MF11-008	6
MF0866-043	MF0866	152	153	1	1	Split	09/07/2011	MF11-008	7
MF0866-044	MF0866	153	154	1	1	Split	09/07/2011	MF11-008	7
MF0866-045	MF0866	154	155	1	1	Split	09/07/2011	MF11-008	7
MF0866-046	MF0866	155	156	1	1	Split	09/07/2011	MF11-008	7
MF0866-047	MF0866	156	157	1	1	Split	09/07/2011	MF11-008	7
MF0866-048	MF0866	157	158	1	1	Split	09/07/2011	MF11-008	7
MF0866-049	MF0866	158	159	1	1	Split	09/07/2011	MF11-008	7
MF0866-050	MF0866	159	160	1	1	Split	09/07/2011	MF11-008	8
MF0866-051	MF0866	160	161	1	1	Split	09/07/2011	MF11-008	8
MF0866-052	MF0866	161	162	1	1	Split	09/07/2011	MF11-008	8
MF0866-053	MF0866	162	163	1	1	Split	09/07/2011	MF11-008	8
MF0866-054	MF0866	163	164	1	1	Split	09/07/2011	MF11-008	8
MF0866-055	MF0866	164	165	1	1	Split	09/07/2011	MF11-008	8
MF0866-056	MF0866	165	166	1	1	Split	09/07/2011	MF11-008	8
MF0866-057	MF0866	166	167	1	1	Split	09/07/2011	MF11-008	8
MF0869-001	MF0869	108	109	1	1	Split	13/11/2011	MF11-007	1
MF0869-002	MF0869	109	110	1	1	Split	13/11/2011	MF11-007	1
MF0869-003	MF0869	110	111	1	1	Split	13/11/2011	MF11-007	1
MF0869-004	MF0869	111	112	1	1	Split	13/11/2011	MF11-007	1
MF0869-005	MF0869	112	113	1	1	Split	13/11/2011	MF11-007	1
MF0869-006	MF0869	113	114	1	1	Split	13/11/2011	MF11-007	1

Sample Number	DDH	From	To	Length	DDH_SAMP_RECOV	Sampling Method	(DD/MM/YYYY)	Shipping Number	Bucket Number
MF0869-007	MF0869	114	115	1	1	Split	13/11/2011	MF11-007	1
MF0869-008	MF0869	115	116	1	1	Split	13/11/2011	MF11-007	2
MF0869-009	MF0869	116	117	1	1	Split	13/11/2011	MF11-007	2
MF0869-010	MF0869	117	118	1	1	Split	13/11/2011	MF11-007	2
MF0869-011	MF0869	118	119	1	1	Split	13/11/2011	MF11-007	2
MF0869-012	MF0869	119	120	1	1	Split	13/11/2011	MF11-007	2
MF0869-013	MF0869	120	121	1	1	Split	13/11/2011	MF11-007	2
MF0869-014	MF0869	121	122	1	1	Split	13/11/2011	MF11-007	2
MF0869-015	MF0869	122	123	1	1	Split	13/11/2011	MF11-007	3
MF0869-016	MF0869	140	141	1	1	Split	13/11/2011	MF11-007	3
MF0869-017	MF0869	141	142	1	1	Split	13/11/2011	MF11-007	3
MF0869-018	MF0869	142	143	1	1	Split	13/11/2011	MF11-007	3
MF0869-019	MF0869	143	144	1	1	Split	13/11/2011	MF11-007	3
MF0869-020	MF0869	144	145	1	1	Split	13/11/2011	MF11-007	3
MF0869-021	MF0869	145	146	1	1	Split	13/11/2011	MF11-007	3
MF0869-022	MF0869	146	147	1	1	Split	13/11/2011	MF11-007	4
MF0869-023	MF0869	147	148	1	1	Split	13/11/2011	MF11-007	4
MF0869-024	MF0869	148	149	1	1	Split	13/11/2011	MF11-007	4
MF0869-025	MF0869	149	150	1	1	Split	13/11/2011	MF11-007	4
MF0869-026	MF0869	150	151	1	1	Split	13/11/2011	MF11-007	4
MF0869-027	MF0869	169	170	1	1	Split	13/11/2011	MF11-007	4
MF0869-028	MF0869	170	171	1	1	Split	13/11/2011	MF11-007	4
MF0869-029	MF0869	171	172	1	1	Split	13/11/2011	MF11-007	5
MF0869-030	MF0869	172	173	1	1	Split	13/11/2011	MF11-007	5
MF0869-031	MF0869	173	174	1	1	Split	13/11/2011	MF11-007	5
MF0869-032	MF0869	174	175	1	1	Split	13/11/2011	MF11-007	5
MF0869-033	MF0869	175	176	1	1	Split	13/11/2011	MF11-007	5
MF0869-034	MF0869	176	177	1	1	Split	13/11/2011	MF11-007	5
MF0869-035	MF0869	177	178	1	1	Split	13/11/2011	MF11-007	5
MF0869-036	MF0869	178	179	1	1	Split	13/11/2011	MF11-007	6
MF0869-037	MF0869	179	180	1	1	Split	13/11/2011	MF11-007	6
MF0869-038	MF0869	180	181	1	1	Split	13/11/2011	MF11-007	6
MF0869-039	MF0869	181	182	1	1	Split	13/11/2011	MF11-007	6
MF0869-040	MF0869	182	183	1	1	Split	13/11/2011	MF11-007	6
MF0869-041	MF0869	183	184	1	1	Split	13/11/2011	MF11-007	6
MF0869-042	MF0869	184	185	1	1	Split	13/11/2011	MF11-007	6
MF0869-043	MF0869	185	186	1	1	Split	13/11/2011	MF11-007	7
MF0869-044	MF0869	186	187	1	1	Split	13/11/2011	MF11-007	7
MF0869-045	MF0869	215	216	1	1	Split	13/11/2011	MF11-007	7
MF0869-046	MF0869	216	217	1	1	Split	13/11/2011	MF11-007	7
MF0869-047	MF0869	217	218	1	1	Split	13/11/2011	MF11-007	7
MF0869-048	MF0869	218	219	1	1	Split	13/11/2011	MF11-007	7
MF0869-049	MF0869	219	220	1	1	Split	13/11/2011	MF11-007	7
MF0869-050	MF0869	220	221	1	1	Split	13/11/2011	MF11-007	8
MF0869-051	MF0869	221	222	1	1	Split	13/11/2011	MF11-007	8
MF0869-052	MF0869	222	223	1	1	Split	13/11/2011	MF11-007	8
MF0869-053	MF0869	223	224	1	1	Split	13/11/2011	MF11-007	8
MF0869-054	MF0869	224	225	1	1	Split	13/11/2011	MF11-007	8

APPENDIX V

ANALYTICAL CERTIFICATES

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: September 11, 2011
Page: 1 of 4

CERTIFICATE OF ANALYSIS VAN11003902.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-002
P.O. Number
Number of Samples: 79

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	74	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	2	Pulverize to 85% - 200 mesh			VAN
G601	79	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	79	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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

Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003902.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0852-001	Drill Core	2.72	<0.005	<1	1	<3	38	<0.3	1	<1	198	1.05	<2	<2	6	53	<0.5	<3	3	11	0.48
MF0852-002	Drill Core	2.91	<0.005	<1	3	<3	34	<0.3	<1	<1	180	0.90	<2	<2	6	39	<0.5	<3	<3	9	0.43
MF0852-003	Drill Core	2.87	<0.005	<1	5	<3	26	<0.3	<1	<1	216	0.84	<2	<2	7	61	<0.5	<3	<3	4	0.98
MF0852-004	Drill Core	2.56	<0.005	22	5	24	41	0.7	<1	<1	140	0.59	<2	<2	6	47	0.9	<3	<3	2	0.68
MF0852-005	Drill Core	1.75	<0.005	8	4	22	29	0.9	<1	<1	153	0.55	<2	<2	6	41	0.6	<3	<3	2	0.98
MF0852-006	Drill Core	2.63	<0.005	1	4	6	26	<0.3	<1	1	133	0.72	<2	<2	5	28	<0.5	<3	<3	2	0.60
MF0852-007	Drill Core	2.02	<0.005	2	1	<3	45	<0.3	<1	<1	226	1.12	<2	<2	7	42	<0.5	<3	<3	13	0.57
MF0852-008	Drill Core	2.83	<0.005	<1	1	<3	52	<0.3	1	<1	256	1.25	<2	<2	7	67	<0.5	<3	<3	14	0.76
MF0852-009	Drill Core	2.95	<0.005	<1	2	<3	52	<0.3	<1	<1	264	1.25	<2	<2	5	92	<0.5	<3	<3	16	0.75
MF0852-010	Drill Core	2.61	<0.005	<1	1	<3	56	<0.3	1	<1	290	1.23	<2	<2	5	81	<0.5	<3	<3	15	0.81
MF0852-011	Drill Core	2.74	<0.005	<1	3	<3	60	<0.3	1	<1	266	1.33	<2	<2	6	74	<0.5	<3	<3	18	0.57
MF0852-012	Drill Core	3.05	0.009	27	9	193	576	5.7	<1	<1	234	1.02	<2	<2	4	93	13.9	<3	14	8	0.89
MF0852-013	Drill Core	3.00	<0.005	<1	2	<3	61	<0.3	<1	<1	264	1.23	<2	<2	6	88	<0.5	<3	<3	16	0.63
MF0852-014	Drill Core	2.42	<0.005	<1	<1	<3	62	<0.3	1	<1	270	1.34	<2	<2	5	93	<0.5	<3	<3	16	0.83
MF0852-015	Drill Core	2.96	<0.005	<1	1	<3	64	<0.3	<1	<1	279	1.28	<2	<2	5	90	<0.5	<3	<3	16	0.79
MF0852-016	Drill Core	3.00	<0.005	<1	1	<3	69	<0.3	<1	<1	272	1.36	<2	<2	4	73	<0.5	<3	<3	18	0.47
MF0852-017	Drill Core	2.64	<0.005	<1	3	<3	61	<0.3	<1	<1	287	1.31	<2	<2	4	71	<0.5	<3	<3	15	0.79
MF0852-018	Drill Core	3.16	0.007	290	35	125	66	1.2	<1	5	202	1.52	<2	<2	2	60	0.8	<3	117	7	0.66
MF0852-019	Drill Core	2.19	<0.005	44	3	<3	25	<0.3	<1	<1	126	0.66	<2	<2	3	39	<0.5	<3	<3	5	0.37
MF0852-020	Drill Core	3.05	<0.005	1	9	<3	47	<0.3	<1	<1	272	1.23	<2	<2	3	91	<0.5	<3	<3	13	0.95
MF0852-020S	Rock Pulp	0.04	0.616	266	4695	14	20	8.2	7	5	227	1.23	6	<2	<2	266	<0.5	6	<3	8	0.62
MF0852-020B	Rock Chip	0.17	<0.005	1	4	<3	43	<0.3	2	1	524	1.95	<2	<2	3	88	<0.5	<3	<3	35	0.56
MF0852-021	Drill Core	2.76	<0.005	<1	<1	<3	56	<0.3	<1	<1	270	1.32	<2	<2	5	78	<0.5	<3	<3	15	0.77
MF0852-022	Drill Core	2.93	<0.005	<1	<1	<3	59	<0.3	<1	<1	245	1.28	<2	<2	6	75	<0.5	<3	<3	17	0.63
MF0852-023	Drill Core	2.87	<0.005	<1	<1	<3	63	<0.3	1	<1	245	1.34	<2	<2	4	73	<0.5	<3	<3	19	0.49
MF0852-024	Drill Core	2.66	<0.005	68	3	<3	56	<0.3	<1	<1	217	1.04	<2	<2	4	61	<0.5	<3	<3	11	0.67
MF0852-025	Drill Core	3.91	0.005	2	2	<3	79	<0.3	<1	<1	263	1.34	<2	<2	4	72	0.9	<3	<3	14	0.75
MF0852-026	Drill Core	1.72	<0.005	<1	1	9	162	0.3	<1	1	247	1.09	<2	<2	5	90	2.9	<3	4	7	1.27
MF0852-027	Drill Core	2.39	0.005	27	6	11	30	<0.3	<1	1	291	1.48	<2	<2	5	98	<0.5	<3	6	5	1.55
MF0852-028	Drill Core	2.25	<0.005	<1	3	<3	46	<0.3	<1	1	306	1.10	<2	<2	7	97	<0.5	<3	<3	9	1.32

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Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003902.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0852-001	Drill Core	0.038	18	4	0.18	63	0.051	<20	0.57	0.06	0.25	<2	0.06	<5	13
MF0852-002	Drill Core	0.032	16	2	0.15	57	0.043	<20	0.49	0.05	0.25	<2	0.07	<5	13
MF0852-003	Drill Core	0.029	17	3	0.06	31	0.007	<20	0.45	0.04	0.25	<2	0.35	<5	7
MF0852-004	Drill Core	0.022	15	2	0.03	23	0.003	<20	0.32	0.03	0.22	<2	0.43	<5	<5
MF0852-005	Drill Core	0.020	14	2	0.03	24	0.001	<20	0.37	0.03	0.21	<2	0.30	<5	<5
MF0852-006	Drill Core	0.013	10	2	0.04	22	0.005	<20	0.29	0.04	0.17	<2	0.46	<5	5
MF0852-007	Drill Core	0.041	17	2	0.20	41	0.040	<20	0.60	0.04	0.22	<2	<0.05	<5	13
MF0852-008	Drill Core	0.052	23	2	0.24	80	0.060	<20	0.69	0.05	0.29	<2	0.13	<5	15
MF0852-009	Drill Core	0.059	24	2	0.26	140	0.076	<20	0.74	0.05	0.43	<2	0.08	<5	17
MF0852-010	Drill Core	0.057	26	3	0.25	146	0.071	<20	0.75	0.06	0.43	<2	0.10	<5	17
MF0852-011	Drill Core	0.060	27	2	0.31	164	0.094	<20	0.80	0.06	0.46	<2	0.06	<5	21
MF0852-012	Drill Core	0.048	23	2	0.14	302	0.036	<20	0.55	0.03	0.32	<2	0.47	<5	8
MF0852-013	Drill Core	0.060	24	2	0.29	187	0.086	<20	0.78	0.05	0.44	<2	0.09	<5	20
MF0852-014	Drill Core	0.065	27	3	0.29	112	0.069	<20	0.81	0.05	0.34	<2	0.06	<5	16
MF0852-015	Drill Core	0.062	25	2	0.28	240	0.082	<20	0.77	0.05	0.43	<2	0.13	<5	18
MF0852-016	Drill Core	0.060	23	2	0.31	165	0.096	<20	0.81	0.06	0.46	<2	0.07	<5	20
MF0852-017	Drill Core	0.056	21	2	0.25	149	0.074	<20	0.71	0.05	0.41	<2	0.25	<5	18
MF0852-018	Drill Core	0.036	14	<1	0.13	138	0.033	<20	0.48	0.03	0.29	>100	1.13	<5	10
MF0852-019	Drill Core	0.026	14	<1	0.09	66	0.024	<20	0.32	0.03	0.20	41	0.15	<5	7
MF0852-020	Drill Core	0.060	24	2	0.21	171	0.059	<20	0.68	0.04	0.40	4	0.33	<5	15
MF0852-020S	Rock Pulp	0.021	5	11	0.10	206	0.009	<20	0.37	0.03	0.18	<2	0.59	<5	<5
MF0852-020B	Rock Chip	0.070	14	4	0.44	132	0.112	<20	0.95	0.10	0.42	<2	<0.05	<5	20
MF0852-021	Drill Core	0.064	25	2	0.26	227	0.079	<20	0.71	0.06	0.44	<2	0.26	<5	19
MF0852-022	Drill Core	0.064	24	2	0.29	187	0.094	<20	0.75	0.06	0.44	<2	0.16	<5	18
MF0852-023	Drill Core	0.063	26	2	0.32	176	0.103	<20	0.80	0.06	0.46	<2	<0.05	<5	21
MF0852-024	Drill Core	0.050	27	2	0.18	183	0.052	<20	0.59	0.04	0.35	<2	0.29	<5	12
MF0852-025	Drill Core	0.058	25	1	0.26	124	0.060	<20	0.73	0.04	0.32	<2	0.27	<5	15
MF0852-026	Drill Core	0.062	32	<1	0.12	53	0.011	<20	0.60	0.03	0.28	<2	0.58	<5	7
MF0852-027	Drill Core	0.053	31	<1	0.09	57	0.007	<20	0.60	0.03	0.33	<2	1.12	<5	6
MF0852-028	Drill Core	0.061	33	1	0.16	61	0.032	<20	0.72	0.04	0.31	<2	0.30	<5	9

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Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003902.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0852-029	Drill Core	3.55	<0.005	<1	<1	<3	61	<0.3	<1	<1	314	1.32	<2	<2	8	78	<0.5	<3	3	15	0.84
MF0852-030	Drill Core	2.47	<0.005	<1	2	<3	28	<0.3	<1	<1	156	0.73	<2	<2	7	38	<0.5	<3	<3	7	0.43
MF0852-031	Drill Core	2.46	<0.005	<1	2	<3	36	<0.3	<1	<1	156	0.84	<2	<2	6	36	<0.5	<3	<3	10	0.30
MF0852-032	Drill Core	2.68	<0.005	6	2	<3	66	<0.3	<1	<1	271	1.40	<2	<2	8	59	<0.5	<3	<3	18	0.45
MF0852-033	Drill Core	2.55	<0.005	<1	3	<3	56	<0.3	<1	<1	234	1.29	<2	<2	9	62	<0.5	<3	<3	16	0.45
MF0852-034	Drill Core	2.84	<0.005	<1	2	<3	65	<0.3	1	<1	266	1.32	<2	<2	12	73	<0.5	<3	<3	16	0.64
MF0852-035	Drill Core	2.28	<0.005	<1	3	4	30	<0.3	<1	<1	157	0.75	<2	<2	7	81	<0.5	<3	<3	6	0.77
MF0852-036	Drill Core	3.07	<0.005	<1	4	<3	25	<0.3	<1	<1	135	0.68	<2	<2	6	43	<0.5	<3	<3	6	0.37
MF0852-037	Drill Core	2.37	<0.005	<1	9	14	198	<0.3	<1	<1	208	0.98	<2	<2	10	54	4.1	<3	21	8	0.76
MF0852-038	Drill Core	2.55	<0.005	<1	3	4	51	<0.3	<1	<1	231	1.04	<2	<2	8	58	<0.5	<3	<3	11	0.59
MF0852-039	Drill Core	2.71	<0.005	<1	2	6	49	<0.3	<1	<1	182	0.89	<2	<2	7	55	<0.5	<3	<3	10	0.50
MF0852-040	Drill Core	2.60	<0.005	<1	4	5	52	<0.3	<1	<1	210	1.01	<2	<2	8	55	<0.5	<3	<3	9	0.55
MF0852-040S	Rock Pulp	0.04	0.616	249	4666	12	20	7.6	7	5	221	1.18	4	<2	<2	263	<0.5	10	<3	8	0.60
MF0852-041	Drill Core	2.74	<0.005	<1	17	8	56	<0.3	<1	<1	184	0.80	<2	<2	9	34	<0.5	<3	<3	6	0.42
MF0852-042	Drill Core	2.60	<0.005	<1	8	6	45	<0.3	<1	<1	183	0.67	<2	<2	8	44	<0.5	<3	<3	5	0.58
MF0852-043	Drill Core	3.00	<0.005	<1	11	5	57	<0.3	<1	<1	252	1.05	<2	<2	12	78	<0.5	<3	<3	8	0.83
MF0852-044	Drill Core	2.32	<0.005	<1	8	5	65	<0.3	<1	1	301	1.20	<2	<2	10	187	<0.5	<3	<3	10	1.25
MF0852-045	Drill Core	2.94	<0.005	2	4	3	45	<0.3	<1	1	264	1.12	<2	<2	11	328	<0.5	<3	<3	9	1.48
MF0852-046	Drill Core	1.86	<0.005	<1	2	4	58	<0.3	1	<1	279	1.11	<2	<2	11	269	<0.5	<3	<3	11	1.41
MF0852-047	Drill Core	2.55	<0.005	23	2	7	52	<0.3	<1	<1	238	1.18	<2	<2	11	234	<0.5	<3	<3	9	1.47
MF0852-048	Drill Core	2.46	<0.005	<1	1	3	64	<0.3	1	<1	293	1.44	<2	<2	8	100	<0.5	<3	<3	17	1.10
MF0852-049	Drill Core	3.16	<0.005	<1	2	<3	42	<0.3	<1	<1	242	1.13	<2	<2	8	91	<0.5	<3	<3	9	1.28
MF0852-050	Drill Core	2.41	<0.005	<1	20	8	57	<0.3	<1	<1	240	1.00	<2	<2	9	78	<0.5	<3	<3	5	0.97
MF0852-051	Drill Core	2.57	<0.005	2	16	9	85	<0.3	<1	<1	319	1.31	<2	<2	12	95	<0.5	<3	<3	8	1.07
MF0852-052	Drill Core	2.57	<0.005	2	25	3	87	<0.3	<1	<1	326	1.45	<2	<2	12	94	<0.5	<3	<3	9	1.04
MF0852-053	Drill Core	2.81	<0.005	<1	34	<3	84	<0.3	<1	<1	264	1.20	<2	<2	8	93	<0.5	<3	<3	9	0.66
MF0852-054	Drill Core	2.20	<0.005	5	12	5	65	<0.3	<1	<1	272	1.20	<2	<2	10	180	<0.5	<3	<3	11	1.01
MF0852-055	Drill Core	2.57	<0.005	<1	4	<3	60	<0.3	<1	1	233	1.16	<2	<2	10	237	<0.5	<3	<3	12	0.95
MF0852-056	Drill Core	2.98	<0.005	<1	23	7	90	<0.3	1	<1	302	1.52	<2	<2	12	124	<0.5	<3	<3	10	0.98
MF0852-057	Drill Core	2.13	<0.005	<1	3	5	51	<0.3	<1	<1	272	0.83	<2	<2	9	310	<0.5	<3	<3	6	2.19

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Project: MacFarlane
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CERTIFICATE OF ANALYSIS VAN11003902.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0852-029	Drill Core	0.063	27	2	0.31	88	0.066	<20	0.80	0.05	0.25	<2	<0.05	<5	15
MF0852-030	Drill Core	0.031	13	1	0.13	33	0.035	<20	0.44	0.05	0.19	<2	<0.05	<5	9
MF0852-031	Drill Core	0.035	13	1	0.16	71	0.054	<20	0.53	0.06	0.27	<2	<0.05	<5	11
MF0852-032	Drill Core	0.060	23	2	0.32	174	0.099	<20	0.79	0.06	0.48	<2	0.10	<5	20
MF0852-033	Drill Core	0.058	22	<1	0.28	115	0.090	<20	0.74	0.07	0.37	<2	0.07	<5	20
MF0852-034	Drill Core	0.064	22	2	0.29	103	0.091	<20	0.77	0.06	0.34	<2	0.13	<5	19
MF0852-035	Drill Core	0.039	16	1	0.11	21	0.012	<20	0.54	0.05	0.16	<2	0.07	<5	8
MF0852-036	Drill Core	0.034	10	2	0.11	21	0.025	<20	0.41	0.05	0.16	<2	0.06	<5	7
MF0852-037	Drill Core	0.040	20	2	0.14	32	0.028	<20	0.56	0.05	0.20	<2	0.17	<5	9
MF0852-038	Drill Core	0.048	18	2	0.21	42	0.044	<20	0.59	0.05	0.17	<2	0.08	<5	12
MF0852-039	Drill Core	0.032	15	1	0.14	21	0.040	<20	0.51	0.05	0.16	<2	0.05	<5	11
MF0852-040	Drill Core	0.037	17	2	0.15	16	0.035	<20	0.51	0.05	0.16	<2	0.14	<5	11
MF0852-040S	Rock Pulp	0.021	5	10	0.10	199	0.008	<20	0.34	0.03	0.17	<2	0.58	<5	<5
MF0852-041	Drill Core	0.025	11	1	0.10	15	0.026	<20	0.41	0.05	0.17	<2	0.30	<5	8
MF0852-042	Drill Core	0.023	11	<1	0.09	17	0.020	<20	0.40	0.04	0.17	<2	0.28	<5	6
MF0852-043	Drill Core	0.048	26	<1	0.14	24	0.016	<20	0.61	0.05	0.20	<2	0.33	<5	9
MF0852-044	Drill Core	0.062	31	1	0.21	494	0.043	<20	0.92	0.04	0.25	<2	0.31	<5	13
MF0852-045	Drill Core	0.059	34	2	0.15	217	0.028	<20	1.05	0.03	0.28	<2	0.22	<5	12
MF0852-046	Drill Core	0.061	32	2	0.21	385	0.052	<20	0.98	0.03	0.25	<2	0.09	<5	14
MF0852-047	Drill Core	0.066	29	1	0.16	79	0.055	<20	0.99	0.03	0.35	<2	0.45	<5	14
MF0852-048	Drill Core	0.063	28	3	0.32	39	0.068	<20	0.85	0.05	0.19	<2	0.08	<5	16
MF0852-049	Drill Core	0.044	22	2	0.18	32	0.015	<20	0.68	0.05	0.22	<2	0.24	<5	7
MF0852-050	Drill Core	0.019	20	1	0.11	39	0.013	<20	0.49	0.04	0.21	<2	0.67	<5	5
MF0852-051	Drill Core	0.028	23	2	0.23	40	0.047	<20	0.73	0.07	0.19	<2	0.86	<5	13
MF0852-052	Drill Core	0.042	23	2	0.26	27	0.052	<20	0.73	0.07	0.17	<2	0.95	<5	13
MF0852-053	Drill Core	0.032	20	2	0.20	38	0.066	<20	0.66	0.06	0.17	<2	0.68	<5	15
MF0852-054	Drill Core	0.054	24	2	0.25	35	0.056	<20	0.87	0.05	0.17	<2	0.24	<5	15
MF0852-055	Drill Core	0.055	26	1	0.23	34	0.062	<20	0.92	0.05	0.16	<2	0.13	<5	16
MF0852-056	Drill Core	0.040	27	3	0.22	52	0.068	<20	0.81	0.06	0.25	<2	0.86	<5	15
MF0852-057	Drill Core	0.036	24	<1	0.07	60	0.030	<20	0.85	0.04	0.22	<2	0.40	<5	12

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Project: MacFarlane
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CERTIFICATE OF ANALYSIS VAN11003902.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0852-058	Drill Core	2.91	<0.005	<1	14	9	66	<0.3	<1	1	242	1.15	<2	<2	9	78	<0.5	<3	<3	5	0.88
MF0852-059	Drill Core	2.48	<0.005	2	4	<3	62	<0.3	<1	<1	268	1.20	<2	<2	9	59	<0.5	<3	<3	10	0.68
MF0852-060	Drill Core	2.85	<0.005	20	<1	<3	38	<0.3	<1	<1	152	0.64	<2	<2	10	52	<0.5	<3	<3	3	0.43
MF0852-060S	Rock Pulp	0.04	0.603	231	4750	13	20	9.2	7	5	233	1.25	5	<2	<2	267	<0.5	7	<3	9	0.63
MF0852-060B	Rock Chip	0.17	0.009	<1	4	<3	43	<0.3	2	1	544	1.99	<2	<2	5	95	<0.5	<3	<3	38	0.63
MF0852-061	Drill Core	3.12	<0.005	31	4	<3	17	<0.3	<1	<1	113	0.45	<2	<2	9	47	<0.5	<3	<3	2	0.68
MF0852-062	Drill Core	2.71	<0.005	2	4	16	48	<0.3	<1	2	178	1.02	<2	<2	13	65	<0.5	<3	<3	2	1.18
MF0852-063	Drill Core	2.64	<0.005	<1	6	13	52	<0.3	<1	3	259	1.40	<2	<2	8	82	<0.5	<3	<3	3	1.43
MF0852-064	Drill Core	2.19	0.007	3	1	15	48	<0.3	<1	2	195	0.78	<2	<2	8	87	<0.5	<3	<3	2	1.63
MF0852-065	Drill Core	2.47	0.006	13	<1	6	30	<0.3	<1	<1	168	0.61	<2	<2	11	97	<0.5	<3	<3	3	1.67
MF0852-066	Drill Core	2.52	<0.005	1	2	20	38	<0.3	<1	1	198	0.97	<2	<2	10	118	<0.5	<3	<3	4	1.54
MF0852-067	Drill Core	2.66	0.006	<1	<1	4	47	<0.3	<1	<1	203	0.98	<2	<2	10	186	<0.5	<3	<3	9	0.90
MF0852-068	Drill Core	2.34	<0.005	<1	<1	<3	23	<0.3	<1	<1	109	0.69	<2	<2	7	89	<0.5	<3	<3	6	0.42
MF0852-069	Drill Core	2.41	<0.005	<1	<1	5	44	<0.3	<1	<1	163	0.91	<2	<2	10	148	<0.5	<3	<3	8	0.69
MF0852-070	Drill Core	3.30	<0.005	5	<1	3	22	<0.3	<1	<1	113	0.68	<2	<2	7	112	<0.5	<3	<3	6	0.51
MF0852-071	Drill Core	2.73	<0.005	31	1	4	45	<0.3	<1	<1	189	1.18	<2	2	10	138	<0.5	<3	<3	11	0.82
MF0852-072	Drill Core	2.98	<0.005	38	2	<3	54	<0.3	1	<1	227	1.35	<2	2	10	113	<0.5	<3	<3	15	0.69
MF0852-073	Drill Core	2.78	<0.005	<1	<1	4	55	<0.3	<1	<1	243	1.30	<2	<2	12	114	<0.5	<3	<3	14	0.93
MF0852-074	Drill Core	2.87	0.005	<1	<1	<3	57	<0.3	1	<1	250	1.27	<2	<2	10	137	<0.5	<3	<3	14	0.98

Acme Analytical Laboratories (Vancouver) Ltd.
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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003902.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0852-058	Drill Core	0.066	17	2	0.13	42	0.024	<20	0.59	0.04	0.25	<2	0.67	<5	6
MF0852-059	Drill Core	0.057	14	2	0.21	25	0.042	<20	0.63	0.05	0.17	<2	0.29	<5	11
MF0852-060	Drill Core	0.013	12	<1	0.10	9	0.021	<20	0.40	0.08	0.09	<2	0.38	<5	6
MF0852-060S	Rock Pulp	0.022	5	11	0.10	207	0.009	<20	0.37	0.03	0.18	<2	0.59	<5	<5
MF0852-060B	Rock Chip	0.072	14	4	0.47	131	0.114	<20	0.97	0.11	0.44	<2	<0.05	<5	20
MF0852-061	Drill Core	0.006	12	2	0.04	16	0.010	<20	0.32	0.05	0.17	<2	0.18	<5	<5
MF0852-062	Drill Core	0.043	17	2	0.04	30	0.009	<20	0.51	0.04	0.31	<2	0.90	<5	<5
MF0852-063	Drill Core	0.021	12	<1	0.10	29	0.012	<20	0.59	0.05	0.26	<2	1.27	<5	<5
MF0852-064	Drill Core	0.039	13	1	0.06	30	0.004	<20	0.53	0.03	0.29	<2	0.67	<5	<5
MF0852-065	Drill Core	0.022	17	1	0.05	40	0.008	<20	0.58	0.04	0.34	<2	0.29	<5	5
MF0852-066	Drill Core	0.043	18	2	0.09	73	0.036	<20	0.58	0.03	0.30	<2	0.50	<5	<5
MF0852-067	Drill Core	0.046	24	3	0.18	31	0.039	<20	0.74	0.04	0.18	<2	0.06	<5	<5
MF0852-068	Drill Core	0.016	11	2	0.09	13	0.021	<20	0.41	0.05	0.13	<2	<0.05	<5	<5
MF0852-069	Drill Core	0.040	22	2	0.16	32	0.044	<20	0.67	0.04	0.18	<2	0.14	<5	<5
MF0852-070	Drill Core	0.017	13	2	0.10	16	0.016	<20	0.48	0.04	0.13	<2	0.06	<5	<5
MF0852-071	Drill Core	0.044	25	3	0.18	38	0.047	<20	0.73	0.04	0.19	<2	0.32	<5	<5
MF0852-072	Drill Core	0.053	27	3	0.28	45	0.073	<20	0.79	0.05	0.17	<2	0.11	<5	<5
MF0852-073	Drill Core	0.051	32	3	0.28	39	0.050	<20	0.87	0.05	0.19	<2	<0.05	<5	<5
MF0852-074	Drill Core	0.051	28	3	0.29	34	0.055	<20	0.85	0.04	0.15	<2	0.05	<5	<5

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003902.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF0852-009	Drill Core	2.95	<0.005	<1	2	<3	52	<0.3	<1	<1	264	1.25	<2	<2	5	92	<0.5	<3	<3	16	0.75
REP MF0852-009	QC			<1	2	<3	53	<0.3	<1	<1	263	1.24	<2	<2	5	92	<0.5	<3	<3	16	0.76
MF0852-060B	Rock Chip	0.17	0.009	<1	4	<3	43	<0.3	2	1	544	1.99	<2	<2	5	95	<0.5	<3	<3	38	0.63
REP MF0852-060B	QC		0.006																		
MF0852-061	Drill Core	3.12	<0.005	31	4	<3	17	<0.3	<1	<1	113	0.45	<2	<2	9	47	<0.5	<3	<3	2	0.68
REP MF0852-061	QC			34	4	5	17	<0.3	<1	<1	110	0.43	<2	<2	8	47	<0.5	<3	<3	2	0.68
MF0852-065	Drill Core	2.47	0.006	13	<1	6	30	<0.3	<1	<1	168	0.61	<2	<2	11	97	<0.5	<3	<3	3	1.67
REP MF0852-065	QC		0.006																		
MF0852-068	Drill Core	2.34	<0.005	<1	<1	<3	23	<0.3	<1	<1	109	0.69	<2	<2	7	89	<0.5	<3	<3	6	0.42
REP MF0852-068	QC			<1	<1	<3	23	<0.3	<1	<1	109	0.66	<2	<2	7	90	<0.5	<3	<3	5	0.42
Core Reject Duplicates																					
MF0852-054	Drill Core	2.20	<0.005	5	12	5	65	<0.3	<1	<1	272	1.20	<2	<2	10	180	<0.5	<3	<3	11	1.01
DUP MF0852-054	QC		<0.005	5	13	4	68	<0.3	<1	1	289	1.29	<2	<2	9	187	<0.5	<3	<3	11	1.05
Reference Materials																					
STD DS8	Standard			13	108	111	316	1.4	41	5	647	2.55	22	<2	6	70	2.6	<3	<3	45	0.73
STD DS8	Standard			14	102	109	318	2.0	38	5	602	2.45	25	<2	5	64	2.4	<3	7	42	0.70
STD DS8	Standard			14	104	105	311	1.4	37	5	607	2.45	25	<2	7	64	2.3	<3	6	41	0.71
STD OREAS45CA	Standard			2	536	13	66	<0.3	272	99	971	16.59	2	<2	7	16	<0.5	<3	<3	226	0.46
STD OREAS45CA	Standard			<1	509	13	61	<0.3	251	89	894	16.64	<2	<2	3	14	0.7	<3	<3	201	0.41
STD OREAS45CA	Standard			2	506	15	61	<0.3	247	90	895	15.90	<2	<2	6	14	0.8	<3	<3	206	0.42
STD OXH82	Standard		1.295																		
STD OXH82	Standard		1.300																		
STD OXH82	Standard		1.274																		
STD OXK79	Standard		3.388																		
STD OXK79	Standard		3.523																		
STD OXK79	Standard		3.646																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003902.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
MF0852-009	Drill Core	0.059	24	2	0.26	140	0.076	<20	0.74	0.05	0.43	<2	0.08	<5	17
REP MF0852-009	QC	0.059	24	2	0.27	142	0.077	<20	0.76	0.05	0.44	<2	0.08	<5	18
MF0852-060B	Rock Chip	0.072	14	4	0.47	131	0.114	<20	0.97	0.11	0.44	<2	<0.05	<5	20
REP MF0852-060B	QC														
MF0852-061	Drill Core	0.006	12	2	0.04	16	0.010	<20	0.32	0.05	0.17	<2	0.18	<5	<5
REP MF0852-061	QC	0.006	11	2	0.04	17	0.010	<20	0.33	0.05	0.17	<2	0.19	<5	<5
MF0852-065	Drill Core	0.022	17	1	0.05	40	0.008	<20	0.58	0.04	0.34	<2	0.29	<5	5
REP MF0852-065	QC														
MF0852-068	Drill Core	0.016	11	2	0.09	13	0.021	<20	0.41	0.05	0.13	<2	<0.05	<5	<5
REP MF0852-068	QC	0.016	11	1	0.09	13	0.021	<20	0.41	0.05	0.13	<2	0.05	<5	<5
Core Reject Duplicates															
MF0852-054	Drill Core	0.054	24	2	0.25	35	0.056	<20	0.87	0.05	0.17	<2	0.24	<5	15
DUP MF0852-054	QC	0.055	25	2	0.26	38	0.059	<20	0.93	0.05	0.19	<2	0.25	<5	14
Reference Materials															
STD DS8	Standard	0.082	15	126	0.62	291	0.114	<20	0.95	0.09	0.42	2	0.18	<5	<5
STD DS8	Standard	0.080	14	126	0.60	281	0.103	<20	0.91	0.09	0.41	2	0.16	<5	24
STD DS8	Standard	0.077	15	118	0.60	285	0.112	<20	0.91	0.09	0.41	3	0.16	<5	21
STD OREAS45CA	Standard	0.042	17	796	0.15	168	0.133	<20	3.94	0.02	0.08	<2	<0.05	50	<5
STD OREAS45CA	Standard	0.039	17	762	0.13	156	0.126	<20	3.91	<0.01	0.08	<2	<0.05	46	34
STD OREAS45CA	Standard	0.039	17	739	0.13	152	0.132	<20	3.70	<0.01	0.07	<2	<0.05	43	27
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003902.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.006	<1	2	<3	47	<0.3	2	1	546	1.94	<2	<2	2	70	<0.5	<3	<3	38	0.53
G1	Prep Blank	<0.01	<0.005	<1	2	<3	47	<0.3	2	1	545	1.94	<2	<2	4	72	<0.5	<3	<3	37	0.54

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Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003902.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.074	14	4	0.47	123	0.114	<20	0.89	0.08	0.43	<2	<0.05	<5	22
G1	Prep Blank	0.072	13	4	0.48	123	0.112	<20	0.90	0.07	0.42	<2	<0.05	<5	21

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Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: August 30, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11003903.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-006
P.O. Number
Number of Samples: 26

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	24	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
G601	25	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	26	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MacFarlane
Report Date: August 30, 2011

CERTIFICATE OF ANALYSIS VAN11003903.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0849-001	Drill Core	2.54	<0.005	8	29	<3	115	<0.3	72	24	623	4.90	<2	<2	11	16	<0.5	<3	<3	42	0.38
MF0849-002	Drill Core	2.64	<0.005	363	5	6	50	<0.3	2	<1	184	0.70	<2	<2	11	52	0.6	<3	<3	3	0.78
MF0849-003	Drill Core	2.78	0.006	1049	19	15	79	0.6	2	4	293	2.10	<2	<2	10	190	1.2	<3	<3	5	1.13
MF0849-004	Drill Core	2.66	<0.005	16	8	4	88	<0.3	1	<1	299	1.14	<2	<2	9	105	0.5	<3	<3	11	0.96
MF0849-005	Drill Core	3.38	0.032	<1	4	5	79	<0.3	<1	<1	266	1.14	<2	<2	9	99	<0.5	<3	<3	14	0.69
MF0849-006	Drill Core	2.98	0.009	2	4	<3	47	<0.3	1	<1	257	1.16	<2	<2	10	90	<0.5	<3	<3	13	0.93
MF0849-007	Drill Core	2.76	<0.005	7	<1	<3	59	<0.3	1	<1	250	1.37	<2	<2	9	84	<0.5	<3	<3	18	0.63
MF0849-008	Drill Core	2.65	<0.005	88	6	4	60	<0.3	<1	<1	292	1.31	<2	<2	9	92	<0.5	<3	<3	12	0.92
MF0849-009	Drill Core	2.86	<0.005	63	1	11	36	0.4	<1	<1	165	1.20	<2	<2	6	50	<0.5	<3	<3	6	0.52
MF0849-010	Drill Core	3.10	<0.005	17	6	19	50	0.6	<1	2	322	1.84	<2	<2	9	92	0.6	<3	<3	9	1.22
MF0849-011	Drill Core	3.11	<0.005	343	13	8	48	<0.3	<1	1	266	0.94	<2	<2	13	94	0.8	<3	<3	7	1.21
MF0849-012	Drill Core	2.63	0.011	1	10	3	66	<0.3	1	<1	326	1.23	<2	<2	11	92	<0.5	<3	<3	12	1.01
MF0849-013	Drill Core	2.14	0.005	201	4	20	80	0.7	<1	1	163	0.94	<2	<2	9	73	1.7	<3	<3	4	0.84
MF0849-014	Drill Core	2.64	0.006	184	34	7	27	<0.3	<1	<1	264	0.92	<2	<2	9	86	<0.5	<3	<3	3	1.17
MF0849-015	Drill Core	2.53	<0.005	6	6	4	44	<0.3	<1	<1	268	1.14	<2	<2	9	68	<0.5	<3	<3	9	0.89
MF0849-016	Drill Core	2.18	<0.005	7	6	7	37	<0.3	<1	<1	204	0.79	<2	<2	9	51	<0.5	<3	<3	3	0.83
MF0849-017	Drill Core	2.32	<0.005	<1	4	4	43	<0.3	<1	<1	215	0.90	<2	<2	9	67	0.8	<3	<3	9	0.89
MF0849-018	Drill Core	3.30	<0.005	2	3	5	36	<0.3	<1	1	147	0.92	<2	<2	8	48	<0.5	<3	<3	10	0.41
MF0849-019	Drill Core	2.60	<0.005	4	5	<3	38	<0.3	<1	1	172	0.96	<2	<2	7	79	<0.5	<3	<3	10	0.54
MF0849-020	Drill Core	2.55	<0.005	<1	3	<3	47	<0.3	<1	1	188	1.08	<2	<2	6	108	<0.5	<3	<3	13	0.45
MF0849-020S	Rock Pulp	0.03	I.S.	396	9162	36	31	32.9	2	<1	242	0.96	17	<2	<2	165	<0.5	27	<3	6	1.03
MF0849-020B	Rock Pulp	0.15	<0.005	3	37	<3	45	<0.3	2	4	551	2.02	<2	<2	6	94	<0.5	<3	<3	39	0.61
MF0849-021	Drill Core	2.58	<0.005	1	9	<3	41	<0.3	<1	1	183	1.09	<2	<2	7	93	<0.5	<3	<3	12	0.44
MF0849-022	Drill Core	3.08	0.005	138	10	<3	49	<0.3	<1	1	190	1.36	<2	<2	7	62	<0.5	<3	<3	11	0.44
MF0849-023	Drill Core	2.64	<0.005	180	5	4	44	<0.3	<1	1	191	1.09	<2	2	8	64	<0.5	<3	<3	8	0.74
MF0849-024	Drill Core	3.03	<0.005	7	5	3	49	<0.3	<1	1	204	0.92	<2	<2	7	64	<0.5	<3	<3	8	0.67

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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: August 30, 2011

CERTIFICATE OF ANALYSIS VAN11003903.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0849-001	Drill Core	0.046	26	77	1.82	35	0.031	<20	2.89	0.02	0.31	<2	0.19	<5	<5
MF0849-002	Drill Core	0.026	25	2	0.05	55	0.008	<20	0.37	0.03	0.27	<2	0.47	<5	<5
MF0849-003	Drill Core	0.055	35	2	0.10	174	0.022	<20	0.50	0.03	0.32	<2	2.09	<5	<5
MF0849-004	Drill Core	0.061	31	3	0.21	172	0.052	<20	0.71	0.04	0.32	<2	0.43	<5	<5
MF0849-005	Drill Core	0.059	26	2	0.26	147	0.085	<20	0.73	0.05	0.40	<2	0.17	<5	<5
MF0849-006	Drill Core	0.058	31	3	0.24	173	0.053	<20	0.71	0.04	0.35	<2	0.08	<5	<5
MF0849-007	Drill Core	0.060	28	3	0.30	156	0.090	<20	0.77	0.05	0.40	<2	0.10	<5	<5
MF0849-008	Drill Core	0.056	28	2	0.22	396	0.056	<20	0.64	0.04	0.34	<2	0.45	<5	<5
MF0849-009	Drill Core	0.025	17	2	0.12	74	0.029	<20	0.41	0.03	0.23	<2	0.68	<5	<5
MF0849-010	Drill Core	0.047	28	2	0.14	138	0.016	<20	0.58	0.03	0.29	<2	1.31	<5	<5
MF0849-011	Drill Core	0.059	39	2	0.07	260	0.012	<20	0.52	0.02	0.34	29	0.65	<5	<5
MF0849-012	Drill Core	0.061	32	3	0.22	314	0.047	<20	0.69	0.04	0.35	<2	0.30	<5	<5
MF0849-013	Drill Core	0.042	30	2	0.03	250	0.004	<20	0.40	<0.01	0.27	35	0.80	<5	<5
MF0849-014	Drill Core	0.042	22	1	0.05	90	0.004	<20	0.42	0.02	0.28	<2	0.69	<5	<5
MF0849-015	Drill Core	0.046	21	2	0.17	63	0.023	<20	0.62	0.05	0.30	<2	0.37	<5	<5
MF0849-016	Drill Core	0.035	17	2	0.07	26	0.005	<20	0.38	0.03	0.23	10	0.46	<5	<5
MF0849-017	Drill Core	0.040	19	2	0.14	174	0.028	<20	0.51	0.04	0.28	<2	0.13	<5	<5
MF0849-018	Drill Core	0.035	14	2	0.18	87	0.052	<20	0.47	0.05	0.27	<2	0.07	<5	<5
MF0849-019	Drill Core	0.034	17	3	0.17	85	0.043	<20	0.49	0.05	0.25	<2	0.11	<5	<5
MF0849-020	Drill Core	0.044	16	2	0.21	98	0.069	<20	0.56	0.05	0.30	<2	0.12	<5	<5
MF0849-020S	Rock Pulp	0.009	3	17	0.06	137	0.002	<20	0.37	0.02	0.24	<2	1.00	<5	<5
MF0849-020B	Rock Pulp	0.072	15	5	0.48	133	0.113	<20	0.97	0.10	0.44	<2	<0.05	<5	<5
MF0849-021	Drill Core	0.036	14	3	0.20	79	0.056	<20	0.55	0.06	0.26	<2	0.05	<5	<5
MF0849-022	Drill Core	0.035	15	3	0.19	66	0.054	<20	0.53	0.05	0.23	<2	0.53	<5	<5
MF0849-023	Drill Core	0.035	19	2	0.13	46	0.027	<20	0.44	0.04	0.20	<2	0.53	<5	<5
MF0849-024	Drill Core	0.039	16	3	0.15	37	0.021	<20	0.46	0.04	0.19	<2	0.24	<5	<5

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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: August 30, 2011

QUALITY CONTROL REPORT VAN11003903.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF0849-021	Drill Core	2.58	<0.005	1	9	<3	41	<0.3	<1	1	183	1.09	<2	<2	7	93	<0.5	<3	<3	12	0.44
REP MF0849-021	QC			<1	3	<3	41	<0.3	<1	1	181	1.08	<2	<2	8	92	<0.5	<3	<3	12	0.43
Core Reject Duplicates																					
MF0849-014	Drill Core	2.64	0.006	184	34	7	27	<0.3	<1	<1	264	0.92	<2	<2	9	86	<0.5	<3	<3	3	1.17
DUP MF0849-014	QC		<0.005	184	30	5	27	<0.3	<1	<1	263	0.93	<2	<2	8	85	<0.5	<3	<3	3	1.16
Reference Materials																					
STD DS8	Standard			13	108	111	316	1.4	41	5	647	2.55	22	<2	6	70	2.6	<3	<3	45	0.73
STD DS8	Standard			14	106	113	317	1.9	40	8	638	2.57	20	<2	6	71	2.2	<3	<3	45	0.73
STD OREAS45CA	Standard			2	536	13	66	<0.3	272	99	971	16.59	2	<2	7	16	<0.5	<3	<3	226	0.46
STD OREAS45CA	Standard			2	505	18	63	0.4	264	99	925	15.75	<2	2	6	15	<0.5	<3	<3	225	0.42
STD OXH82	Standard		1.295																		
STD OXK79	Standard		3.388																		
STD OXK79	Standard		3.854																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.005	<1	<1	<3	46	<0.3	2	<1	564	1.94	<2	<2	6	78	<0.5	<3	<3	38	0.55
G1	Prep Blank	<0.01	<0.005	<1	<1	4	48	<0.3	2	<1	603	2.13	<2	<2	6	89	<0.5	<3	<3	41	0.59

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Project: MacFarlane
Report Date: August 30, 2011

QUALITY CONTROL REPORT VAN11003903.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
MF0849-021	Drill Core	0.036	14	3	0.20	79	0.056	<20	0.55	0.06	0.26	<2	0.05	<5	<5
REP MF0849-021	QC	0.035	13	3	0.20	77	0.056	<20	0.53	0.06	0.26	<2	0.06	<5	<5
Core Reject Duplicates															
MF0849-014	Drill Core	0.042	22	1	0.05	90	0.004	<20	0.42	0.02	0.28	<2	0.69	<5	<5
DUP MF0849-014	QC	0.042	22	2	0.05	87	0.005	<20	0.41	0.02	0.27	<2	0.71	<5	<5
Reference Materials															
STD DS8	Standard	0.082	15	126	0.62	291	0.114	<20	0.95	0.09	0.42	2	0.18	<5	<5
STD DS8	Standard	0.081	15	124	0.62	309	0.114	<20	0.93	0.09	0.42	<2	0.17	<5	<5
STD OREAS45CA	Standard	0.042	17	796	0.15	168	0.133	<20	3.94	0.02	0.08	<2	<0.05	50	<5
STD OREAS45CA	Standard	0.039	17	746	0.14	159	0.127	<20	3.59	0.01	0.07	<2	<0.05	45	6
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.078	13	4	0.49	124	0.117	<20	0.90	0.08	0.44	<2	<0.05	<5	<5
G1	Prep Blank	0.081	15	4	0.52	136	0.130	<20	0.98	0.10	0.48	<2	<0.05	<5	<5

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Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: September 09, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN11003904.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-007
P.O. Number
Number of Samples: 57

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	54	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
G601	55	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	57	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN
CHIEF ASSAYER

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

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003904.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0869-001	Drill Core	1.46	0.007	47	71	47	78	1.2	8	18	111	3.83	<2	<2	4	19	0.9	<3	13	2	0.26
MF0869-002	Drill Core	2.71	0.009	<1	13	14	43	<0.3	1	2	219	1.14	<2	<2	8	45	<0.5	<3	6	9	0.68
MF0869-003	Drill Core	2.89	0.005	<1	6	12	56	<0.3	<1	<1	247	1.10	<2	<2	8	65	<0.5	<3	6	11	0.80
MF0869-004	Drill Core	2.43	0.006	460	8	11	70	<0.3	<1	1	266	0.80	<2	<2	11	114	1.6	<3	7	1	1.39
MF0869-005	Drill Core	3.17	0.006	45	7	12	63	<0.3	<1	<1	231	1.03	<2	<2	9	68	<0.5	<3	5	9	0.75
MF0869-006	Drill Core	3.09	<0.005	351	4	9	57	<0.3	1	<1	215	1.14	<2	<2	7	92	<0.5	<3	5	14	0.75
MF0869-007	Drill Core	3.16	0.005	1	4	8	57	<0.3	1	<1	246	1.27	<2	<2	8	103	<0.5	<3	5	15	0.90
MF0869-008	Drill Core	2.82	0.005	24	13	34	70	0.8	<1	3	242	1.47	<2	<2	8	89	1.0	<3	8	6	1.20
MF0869-009	Drill Core	2.71	<0.005	653	59	18	615	0.6	2	2	285	1.99	<2	<2	5	124	13.6	<3	8	2	1.60
MF0869-010	Drill Core	2.98	<0.005	<1	1	9	63	<0.3	1	<1	237	1.33	<2	<2	9	107	<0.5	<3	<3	18	0.82
MF0869-011	Drill Core	3.09	0.005	1	11	10	46	<0.3	1	<1	278	1.50	<2	<2	7	109	<0.5	<3	6	14	1.13
MF0869-012	Drill Core	3.65	0.006	1042	24	48	51	1.2	1	10	238	4.97	<2	<2	5	89	<0.5	<3	13	12	0.87
MF0869-013	Drill Core	2.82	<0.005	27	6	10	63	<0.3	1	<1	268	1.33	<2	<2	8	124	<0.5	<3	4	14	1.01
MF0869-014	Drill Core	2.74	<0.005	6	7	11	56	<0.3	<1	2	270	1.15	<2	<2	7	128	<0.5	<3	<3	11	1.18
MF0869-015	Drill Core	2.90	<0.005	1	2	9	57	<0.3	<1	<1	224	1.32	<2	<2	9	79	<0.5	<3	5	17	0.75
MF0869-016	Drill Core	3.68	<0.005	234	5	20	51	0.4	<1	2	232	2.53	<2	<2	8	89	<0.5	<3	7	10	1.03
MF0869-017	Drill Core	2.81	<0.005	1	10	9	65	<0.3	1	<1	242	1.38	<2	<2	7	94	<0.5	<3	7	14	0.64
MF0869-018	Drill Core	2.88	<0.005	3	12	11	50	<0.3	<1	1	224	1.00	<2	<2	8	62	<0.5	<3	6	5	0.71
MF0869-019	Drill Core	2.76	<0.005	6	11	12	65	<0.3	1	<1	251	0.97	<2	<2	8	73	<0.5	<3	5	10	0.63
MF0869-020	Drill Core	2.66	<0.005	152	10	18	43	0.3	<1	2	134	1.48	<2	<2	5	44	<0.5	<3	6	5	0.43
MF0869-020S	Rock Pulp	0.03	I.S.	392	9061	50	32	33.2	2	<1	245	0.93	22	<2	<2	166	<0.5	32	9	5	1.02
MF0869-020B	Rock Chip	0.17	0.005	<1	<1	3	45	0.3	2	1	530	1.96	<2	<2	5	82	<0.5	<3	5	36	0.59
MF0869-021	Drill Core	3.13	<0.005	358	4	12	20	<0.3	<1	2	80	1.49	<2	<2	7	40	<0.5	<3	5	2	0.31
MF0869-022	Drill Core	3.07	<0.005	4	5	14	15	<0.3	<1	<1	82	0.44	<2	<2	6	46	<0.5	<3	5	2	0.34
MF0869-023	Drill Core	2.83	<0.005	101	4	9	14	<0.3	<1	1	70	0.61	<2	<2	9	40	<0.5	<3	6	2	0.33
MF0869-024	Drill Core	2.81	<0.005	2	11	13	28	<0.3	<1	<1	119	0.59	<2	<2	8	61	<0.5	<3	7	4	0.40
MF0869-025	Drill Core	2.90	<0.005	56	8	9	39	<0.3	<1	<1	210	0.83	<2	<2	7	76	<0.5	<3	4	4	0.75
MF0869-026	Drill Core	2.96	<0.005	138	13	9	31	<0.3	<1	1	164	0.94	<2	<2	6	56	<0.5	<3	6	3	0.54
MF0869-027	Drill Core	2.54	<0.005	<1	9	13	44	<0.3	<1	<1	192	0.73	<2	<2	5	68	<0.5	<3	5	6	0.55
MF0869-028	Drill Core	3.01	<0.005	<1	14	7	73	<0.3	1	<1	273	1.32	<2	<2	7	85	<0.5	<3	5	14	0.53

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Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003904.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
MF0869-001	Drill Core	0.008	7	4	0.10	26	0.012	<20	0.33	0.02	0.31	<2	3.88	<5	<5
MF0869-002	Drill Core	0.047	16	2	0.19	74	0.031	<20	0.50	0.03	0.25	<2	0.25	<5	5
MF0869-003	Drill Core	0.049	18	2	0.17	122	0.038	<20	0.54	0.04	0.34	<2	0.26	<5	6
MF0869-004	Drill Core	0.027	28	1	0.02	158	0.002	<20	0.28	0.01	0.22	<2	0.71	<5	<5
MF0869-005	Drill Core	0.045	24	1	0.16	127	0.044	<20	0.54	0.05	0.33	<2	0.25	<5	11
MF0869-006	Drill Core	0.066	23	1	0.25	174	0.078	<20	0.70	0.05	0.38	<2	0.16	<5	8
MF0869-007	Drill Core	0.070	26	3	0.26	224	0.075	<20	0.73	0.05	0.40	<2	0.22	<5	7
MF0869-008	Drill Core	0.066	37	2	0.10	217	0.017	<20	0.49	0.02	0.30	4	1.05	<5	<5
MF0869-009	Drill Core	0.045	26	1	0.05	51	0.006	<20	0.33	0.01	0.23	<2	2.03	<5	<5
MF0869-010	Drill Core	0.077	25	2	0.33	226	0.091	<20	0.80	0.05	0.45	<2	0.10	<5	11
MF0869-011	Drill Core	0.070	22	2	0.25	180	0.068	<20	0.69	0.04	0.42	<2	0.46	<5	11
MF0869-012	Drill Core	0.059	18	<1	0.23	37	0.066	<20	0.63	0.04	0.37	<2	4.71	<5	12
MF0869-013	Drill Core	0.071	28	2	0.24	236	0.074	<20	0.73	0.05	0.43	<2	0.35	<5	10
MF0869-014	Drill Core	0.070	26	2	0.19	253	0.045	<20	0.63	0.04	0.33	<2	0.31	<5	<5
MF0869-015	Drill Core	0.064	27	2	0.30	132	0.076	<20	0.74	0.05	0.34	<2	0.06	<5	11
MF0869-016	Drill Core	0.058	24	3	0.19	145	0.044	<20	0.60	0.04	0.30	<2	1.98	<5	6
MF0869-017	Drill Core	0.054	20	3	0.24	168	0.076	<20	0.65	0.06	0.42	<2	0.40	<5	11
MF0869-018	Drill Core	0.040	9	2	0.09	104	0.022	<20	0.36	0.03	0.27	<2	0.65	<5	<5
MF0869-019	Drill Core	0.064	13	<1	0.17	132	0.049	<20	0.55	0.04	0.39	<2	0.29	<5	5
MF0869-020	Drill Core	0.046	8	1	0.06	73	0.012	<20	0.37	0.02	0.28	<2	1.32	<5	<5
MF0869-020S	Rock Pulp	0.011	3	16	0.05	140	0.001	<20	0.36	0.02	0.23	2	0.98	<5	<5
MF0869-020B	Rock Chip	0.077	13	4	0.48	129	0.114	<20	0.92	0.09	0.43	<2	<0.05	<5	10
MF0869-021	Drill Core	0.020	10	2	0.02	55	0.004	<20	0.28	0.02	0.21	<2	1.42	<5	5
MF0869-022	Drill Core	0.011	6	1	0.03	30	0.011	<20	0.28	0.05	0.19	<2	0.16	<5	<5
MF0869-023	Drill Core	0.010	8	<1	0.03	31	0.007	<20	0.23	0.04	0.17	2	0.39	<5	<5
MF0869-024	Drill Core	0.022	10	1	0.07	36	0.019	<20	0.35	0.05	0.18	<2	0.27	<5	<5
MF0869-025	Drill Core	0.034	13	2	0.07	93	0.013	<20	0.35	0.03	0.22	<2	0.51	<5	<5
MF0869-026	Drill Core	0.027	13	1	0.06	38	0.011	<20	0.31	0.03	0.19	<2	0.66	<5	<5
MF0869-027	Drill Core	0.033	10	3	0.11	45	0.024	<20	0.39	0.04	0.20	<2	0.24	<5	6
MF0869-028	Drill Core	0.063	17	4	0.25	196	0.074	<20	0.62	0.05	0.42	<2	0.31	<5	6

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Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003904.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0869-029	Drill Core	3.05	<0.005	<1	12	9	62	<0.3	<1	<1	229	1.05	<2	<2	7	75	<0.5	<3	4	9	0.61
MF0869-030	Drill Core	3.07	<0.005	45	11	7	26	<0.3	<1	1	164	0.79	<2	<2	6	63	<0.5	<3	6	3	0.58
MF0869-031	Drill Core	2.87	<0.005	285	3	11	28	<0.3	<1	<1	102	0.65	<2	<2	6	46	<0.5	<3	5	5	0.29
MF0869-032	Drill Core	2.81	<0.005	3	7	<3	49	<0.3	<1	2	186	1.11	<2	<2	7	103	<0.5	<3	<3	12	0.70
MF0869-033	Drill Core	2.98	<0.005	574	13	<3	20	<0.3	<1	2	199	1.44	<2	2	7	98	<0.5	<3	<3	5	1.01
MF0869-034	Drill Core	3.04	<0.005	7	116	<3	14	0.4	1	3	140	2.79	<2	<2	5	62	<0.5	<3	<3	4	0.74
MF0869-035	Drill Core	3.02	<0.005	2	8	<3	13	<0.3	<1	1	101	0.69	<2	<2	8	49	<0.5	<3	<3	4	0.53
MF0869-036	Drill Core	2.54	<0.005	20	10	4	29	<0.3	<1	2	165	0.86	<2	<2	8	72	<0.5	<3	<3	4	0.77
MF0869-037	Drill Core	2.78	<0.005	38	15	7	31	<0.3	<1	1	229	0.94	<2	<2	8	102	<0.5	<3	<3	3	1.22
MF0869-038	Drill Core	2.69	<0.005	8	39	5	41	<0.3	1	2	198	1.38	<2	<2	6	71	<0.5	<3	<3	11	0.64
MF0869-039	Drill Core	2.68	<0.005	<1	7	<3	66	<0.3	2	2	250	1.27	<2	2	6	110	<0.5	<3	<3	16	0.56
MF0869-040	Drill Core	3.01	<0.005	<1	31	<3	49	<0.3	<1	2	198	1.32	<2	3	5	120	<0.5	<3	<3	12	0.53
MF0869-040S	Rock Pulp	0.03	I.S.	416	9381	35	32	34.2	2	<1	253	1.01	19	<2	<2	170	<0.5	29	<3	7	1.07
MF0869-041	Drill Core	2.75	<0.005	5	36	4	64	0.4	1	2	244	1.19	<2	2	7	100	<0.5	<3	<3	13	0.59
MF0869-042	Drill Core	2.62	<0.005	<1	20	<3	75	<0.3	1	1	275	1.14	<2	2	7	96	<0.5	<3	<3	13	0.62
MF0869-043	Drill Core	2.99	<0.005	8	14	4	59	<0.3	2	2	328	1.48	<2	2	9	326	<0.5	<3	<3	16	1.00
MF0869-044	Drill Core	3.02	<0.005	5	18	9	54	<0.3	<1	2	222	1.03	<2	<2	7	203	<0.5	<3	<3	7	0.76
MF0869-045	Drill Core	2.71	<0.005	13	7	4	62	<0.3	<1	1	269	1.20	<2	2	8	135	<0.5	<3	<3	13	0.83
MF0869-046	Drill Core	3.03	<0.005	6	8	4	73	<0.3	1	2	272	1.19	<2	3	7	141	<0.5	<3	<3	16	0.68
MF0869-047	Drill Core	2.95	<0.005	<1	2	3	53	<0.3	<1	2	204	1.19	<2	<2	7	126	<0.5	<3	<3	16	0.58
MF0869-048	Drill Core	2.93	<0.005	55	7	<3	46	<0.3	<1	1	172	0.95	<2	<2	7	91	<0.5	<3	<3	9	0.56
MF0869-049	Drill Core	2.89	<0.005	142	11	3	85	<0.3	<1	2	279	1.17	<2	2	9	501	0.8	<3	<3	9	0.95
MF0869-050	Drill Core	2.97	<0.005	513	6	5	41	<0.3	<1	1	264	1.00	<2	<2	11	4987	<0.5	<3	<3	7	1.17
MF0869-051	Drill Core	3.10	<0.005	321	8	45	42	1.6	<1	1	240	0.96	<2	<2	13	4978	0.8	<3	<3	4	1.15
MF0869-052	Drill Core	2.97	<0.005	5	6	4	42	<0.3	<1	2	272	1.09	<2	<2	10	242	<0.5	<3	<3	7	1.39
MF0869-053	Drill Core	3.02	<0.005	1	<1	<3	62	<0.3	<1	2	240	1.34	<2	3	8	183	<0.5	<3	<3	19	0.50
MF0869-054	Drill Core	2.79	<0.005	1	2	<3	62	<0.3	1	2	233	1.37	<2	2	8	136	<0.5	<3	<3	18	0.57

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Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003904.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0869-029	Drill Core	0.054	20	2	0.16	154	0.047	<20	0.47	0.03	0.31	<2	0.43	<5	7
MF0869-030	Drill Core	0.026	11	2	0.05	57	0.010	<20	0.32	0.04	0.20	<2	0.41	<5	5
MF0869-031	Drill Core	0.027	11	1	0.10	67	0.030	<20	0.35	0.03	0.20	<2	0.11	<5	<5
MF0869-032	Drill Core	0.054	24	3	0.23	182	0.058	<20	0.64	0.05	0.39	<2	0.22	<5	<5
MF0869-033	Drill Core	0.035	22	2	0.08	178	0.008	<20	0.38	0.02	0.25	<2	1.09	<5	<5
MF0869-034	Drill Core	0.019	10	2	0.05	94	0.003	<20	0.28	0.03	0.20	<2	2.68	<5	<5
MF0869-035	Drill Core	0.008	9	2	0.04	63	0.008	<20	0.27	0.05	0.18	<2	0.23	<5	<5
MF0869-036	Drill Core	0.022	18	2	0.07	100	0.013	<20	0.31	0.04	0.19	<2	0.52	<5	<5
MF0869-037	Drill Core	0.028	21	2	0.04	123	0.004	<20	0.31	0.04	0.22	<2	0.80	<5	<5
MF0869-038	Drill Core	0.024	16	2	0.08	68	0.022	<20	0.32	0.03	0.20	<2	0.82	<5	<5
MF0869-039	Drill Core	0.058	16	4	0.25	201	0.076	<20	0.61	0.05	0.43	<2	0.28	<5	<5
MF0869-040	Drill Core	0.045	14	2	0.17	124	0.054	<20	0.45	0.04	0.31	<2	0.47	<5	<5
MF0869-040S	Rock Pulp	0.010	3	19	0.06	145	0.002	<20	0.37	0.02	0.25	<2	1.04	<5	<5
MF0869-041	Drill Core	0.051	19	4	0.22	152	0.066	<20	0.57	0.04	0.38	<2	0.33	<5	<5
MF0869-042	Drill Core	0.057	20	4	0.25	162	0.076	<20	0.63	0.04	0.37	<2	0.30	<5	<5
MF0869-043	Drill Core	0.071	25	4	0.27	312	0.080	<20	0.70	0.04	0.48	<2	0.51	<5	<5
MF0869-044	Drill Core	0.034	15	2	0.11	100	0.028	<20	0.36	0.04	0.26	<2	0.67	<5	<5
MF0869-045	Drill Core	0.058	23	2	0.21	83	0.055	<20	0.55	0.04	0.28	<2	0.41	<5	<5
MF0869-046	Drill Core	0.056	21	4	0.28	136	0.078	<20	0.66	0.04	0.37	<2	0.22	<5	<5
MF0869-047	Drill Core	0.054	24	3	0.27	210	0.079	<20	0.63	0.05	0.40	<2	0.14	<5	<5
MF0869-048	Drill Core	0.040	20	3	0.16	118	0.047	<20	0.45	0.04	0.29	<2	0.36	<5	<5
MF0869-049	Drill Core	0.058	35	2	0.16	248	0.044	<20	0.53	0.04	0.34	<2	0.67	<5	<5
MF0869-050	Drill Core	0.060	39	2	0.10	315	0.022	<20	0.50	0.03	0.32	<2	0.73	<5	<5
MF0869-051	Drill Core	0.058	50	2	0.06	371	0.008	<20	0.43	0.02	0.27	<2	1.17	<5	<5
MF0869-052	Drill Core	0.059	35	2	0.11	177	0.024	<20	0.56	0.03	0.34	<2	0.68	<5	<5
MF0869-053	Drill Core	0.059	25	3	0.32	192	0.099	<20	0.72	0.05	0.47	<2	0.05	<5	<5
MF0869-054	Drill Core	0.059	25	3	0.30	191	0.094	<20	0.75	0.07	0.48	<2	0.15	<5	<5

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Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003904.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF0869-004	Drill Core	2.43	0.006	460	8	11	70	<0.3	<1	1	266	0.80	<2	<2	11	114	1.6	<3	7	1	1.39
REP MF0869-004	QC		0.009																		
MF0869-010	Drill Core	2.98	<0.005	<1	1	9	63	<0.3	1	<1	237	1.33	<2	<2	9	107	<0.5	<3	<3	18	0.82
REP MF0869-010	QC		0.005																		
MF0869-022	Drill Core	3.07	<0.005	4	5	14	15	<0.3	<1	<1	82	0.44	<2	<2	6	46	<0.5	<3	5	2	0.34
REP MF0869-022	QC			4	5	10	15	<0.3	<1	<1	87	0.47	<2	<2	6	46	<0.5	<3	6	2	0.34
MF0869-053	Drill Core	3.02	<0.005	1	<1	<3	62	<0.3	<1	2	240	1.34	<2	3	8	183	<0.5	<3	<3	19	0.50
REP MF0869-053	QC		<0.005																		
Core Reject Duplicates																					
MF0869-001	Drill Core	1.46	0.007	47	71	47	78	1.2	8	18	111	3.83	<2	<2	4	19	0.9	<3	13	2	0.26
DUP MF0869-001	QC		0.008	48	75	55	72	1.3	8	21	102	4.28	<2	<2	4	19	0.8	<3	10	<1	0.25
MF0869-034	Drill Core	3.04	<0.005	7	116	<3	14	0.4	1	3	140	2.79	<2	<2	5	62	<0.5	<3	<3	4	0.74
DUP MF0869-034	QC		<0.005	4	124	<3	16	<0.3	1	3	152	2.95	<2	<2	5	65	<0.5	<3	<3	4	0.80
Reference Materials																					
STD DS8	Standard			14	106	113	317	1.9	40	8	638	2.57	20	<2	6	71	2.2	<3	<3	45	0.73
STD DS8	Standard			13	101	122	326	1.8	38	6	590	2.39	26	<2	5	61	2.2	3	15	41	0.67
STD OREAS45CA	Standard			2	505	18	63	0.4	264	99	925	15.75	<2	2	6	15	<0.5	<3	<3	225	0.42
STD OREAS45CA	Standard			1	493	21	63	0.5	230	88	893	14.45	<2	<2	7	15	<0.5	<3	8	199	0.42
STD OXH82	Standard		1.364																		
STD OXH82	Standard		1.299																		
STD OXK79	Standard		3.854																		
STD OXK79	Standard		3.368																		
STD OXK79	Standard		3.504																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<0.005																		

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003904.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
MF0869-004	Drill Core	0.027	28	1	0.02	158	0.002	<20	0.28	0.01	0.22	<2	0.71	<5	<5
REP MF0869-004	QC														
MF0869-010	Drill Core	0.077	25	2	0.33	226	0.091	<20	0.80	0.05	0.45	<2	0.10	<5	11
REP MF0869-010	QC														
MF0869-022	Drill Core	0.011	6	1	0.03	30	0.011	<20	0.28	0.05	0.19	<2	0.16	<5	<5
REP MF0869-022	QC	0.011	6	1	0.03	30	0.011	<20	0.28	0.05	0.19	<2	0.15	<5	6
MF0869-053	Drill Core	0.059	25	3	0.32	192	0.099	<20	0.72	0.05	0.47	<2	0.05	<5	<5
REP MF0869-053	QC														
Core Reject Duplicates															
MF0869-001	Drill Core	0.008	7	4	0.10	26	0.012	<20	0.33	0.02	0.31	<2	3.88	<5	<5
DUP MF0869-001	QC	0.008	6	4	0.09	24	0.009	<20	0.30	0.01	0.29	<2	4.47	<5	<5
MF0869-034	Drill Core	0.019	10	2	0.05	94	0.003	<20	0.28	0.03	0.20	<2	2.68	<5	<5
DUP MF0869-034	QC	0.022	11	2	0.05	86	0.003	<20	0.28	0.03	0.20	<2	2.81	<5	<5
Reference Materials															
STD DS8	Standard	0.081	15	124	0.62	309	0.114	<20	0.93	0.09	0.42	<2	0.17	<5	<5
STD DS8	Standard	0.084	13	116	0.58	292	0.103	<20	0.85	0.08	0.39	3	0.16	<5	11
STD OREAS45CA	Standard	0.039	17	746	0.14	159	0.127	<20	3.59	0.01	0.07	<2	<0.05	45	6
STD OREAS45CA	Standard	0.036	16	759	0.13	153	0.129	<20	3.63	0.01	0.08	<2	<0.05	45	34
STD OXH82	Standard														
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank														

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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003904.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank		0.006																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.005	<1	3	8	50	<0.3	2	2	546	1.92	<2	<2	4	71	<0.5	<3	3	36	0.48
G1	Prep Blank	<0.01	<0.005	<1	2	7	48	<0.3	2	2	534	1.89	<2	<2	5	79	<0.5	<3	5	35	0.47

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Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003904.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.084	12	3	0.50	127	0.107	<20	0.81	0.06	0.42	<2	<0.05	<5	12
G1	Prep Blank	0.077	11	4	0.48	133	0.108	<20	0.82	0.06	0.42	<2	<0.05	<5	11

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Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: September 11, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN11003907.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-001
P.O. Number
Number of Samples: 47

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	44	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
G601	47	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	47	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. 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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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003907.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0844-001	Drill Core	1.49	<0.005	21	27	8	108	<0.3	42	14	597	4.96	<2	<2	15	8	<0.5	<3	<3	46	0.18
MF0844-002	Drill Core	1.00	<0.005	609	41	10	47	0.3	16	6	177	4.03	<2	<2	7	5	<0.5	<3	<3	17	0.01
MF0844-003	Drill Core	1.77	<0.005	14	21	6	107	<0.3	43	15	460	5.14	<2	<2	14	6	<0.5	<3	<3	48	0.09
MF0844-004	Drill Core	2.77	<0.005	<1	6	7	44	<0.3	<1	1	265	0.93	<2	<2	10	82	<0.5	<3	<3	9	1.22
MF0844-005	Drill Core	2.94	<0.005	44	4	58	62	1.5	<1	<1	82	0.63	<2	<2	6	65	0.9	<3	8	3	0.51
MF0844-006	Drill Core	2.46	<0.005	19	5	10	29	<0.3	<1	<1	175	0.58	<2	<2	9	66	<0.5	<3	<3	4	0.91
MF0844-007	Drill Core	3.10	<0.005	<1	5	23	52	0.5	<1	<1	158	0.60	<2	<2	11	47	0.7	<3	4	3	0.74
MF0844-008	Drill Core	3.06	<0.005	142	3	48	58	0.9	<1	1	107	1.46	<2	<2	10	34	<0.5	<3	5	2	0.55
MF0844-009	Drill Core	2.58	<0.005	14	8	6	11	<0.3	<1	<1	122	0.54	<2	<2	12	30	<0.5	<3	<3	2	0.63
MF0844-010	Drill Core	3.04	<0.005	355	9	14	56	<0.3	<1	<1	124	1.13	<2	<2	9	44	<0.5	<3	<3	4	0.51
MF0844-011	Drill Core	2.78	<0.005	6	5	9	43	<0.3	<1	<1	221	1.00	<2	<2	10	85	<0.5	<3	<3	10	0.76
MF0844-012	Drill Core	2.61	<0.005	2	5	7	70	<0.3	<1	<1	260	1.31	<2	<2	8	118	<0.5	<3	<3	17	0.81
MF0844-013	Drill Core	2.86	0.005	303	16	12	47	<0.3	<1	<1	236	1.22	<2	<2	9	147	<0.5	<3	<3	12	0.87
MF0844-014	Drill Core	2.70	<0.005	64	22	12	28	<0.3	<1	1	348	1.14	<2	<2	11	157	<0.5	<3	<3	5	1.80
MF0844-015	Drill Core	3.15	<0.005	730	7	40	57	0.6	<1	1	276	1.39	<2	<2	10	108	<0.5	<3	<3	12	1.14
MF0844-016	Drill Core	2.77	<0.005	10	1	4	70	<0.3	<1	<1	256	1.43	<2	<2	8	78	<0.5	<3	<3	21	0.42
MF0844-017	Drill Core	3.08	<0.005	16	7	9	63	<0.3	<1	<1	252	1.21	<2	<2	9	112	<0.5	<3	<3	14	0.82
MF0844-018	Drill Core	2.80	<0.005	3	3	5	63	<0.3	<1	<1	232	1.34	<2	<2	8	103	<0.5	<3	<3	18	0.56
MF0844-019	Drill Core	3.17	<0.005	99	4	20	21	0.5	<1	<1	106	0.71	<2	<2	13	44	<0.5	<3	<3	4	0.43
MF0844-020	Drill Core	2.07	<0.005	303	1	11	8	0.3	<1	<1	90	0.53	<2	<2	<2	27	<0.5	<3	<3	4	0.54
MF0844-020S	Rock Pulp	0.04	0.654	226	4732	25	20	8.0	7	5	230	1.28	6	<2	<2	271	<0.5	7	<3	9	0.63
MF0844-020B	Rock Chip	0.22	0.006	<1	1	<3	40	<0.3	2	1	500	1.82	<2	<2	5	97	<0.5	<3	<3	34	0.66
MF0844-021	Drill Core	2.80	0.006	<1	2	4	61	<0.3	<1	<1	237	1.26	<2	<2	8	110	<0.5	<3	<3	18	0.58
MF0844-022	Drill Core	3.19	<0.005	<1	2	4	60	<0.3	<1	<1	224	1.30	<2	<2	8	102	<0.5	<3	<3	17	0.48
MF0844-023	Drill Core	2.84	<0.005	<1	2	6	63	<0.3	<1	<1	249	1.39	<2	<2	8	102	<0.5	<3	<3	19	0.52
MF0844-024	Drill Core	2.91	<0.005	<1	3	6	61	<0.3	<1	<1	271	1.30	<2	<2	8	118	<0.5	<3	<3	15	0.74
MF0844-025	Drill Core	3.05	<0.005	<1	4	6	54	<0.3	<1	<1	261	1.16	<2	<2	9	128	<0.5	<3	<3	13	0.91
MF0844-026	Drill Core	2.98	0.007	1303	122	91	147	2.8	1	20	112	5.49	<2	<2	2	42	2.9	<3	15	2	0.61
MF0844-027	Drill Core	2.88	0.006	348	21	19	23	0.4	1	6	73	3.73	<2	<2	7	52	<0.5	<3	<3	1	0.36
MF0844-028	Drill Core	2.66	<0.005	139	5	7	39	<0.3	<1	<1	185	0.88	<2	<2	7	89	<0.5	<3	<3	7	0.75

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003907.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0844-001	Drill Core	0.050	28	76	1.77	42	0.051	<20	2.85	0.02	0.19	<2	<0.05	<5	<5
MF0844-002	Drill Core	0.013	13	26	0.63	25	0.010	<20	1.26	0.02	0.16	<2	0.06	<5	<5
MF0844-003	Drill Core	0.049	33	83	1.81	33	0.033	<20	3.14	0.02	0.19	<2	<0.05	<5	5
MF0844-004	Drill Core	0.049	33	2	0.13	67	0.018	<20	0.61	0.04	0.31	<2	0.19	<5	<5
MF0844-005	Drill Core	0.010	10	2	0.02	25	0.002	<20	0.36	0.03	0.23	5	0.44	<5	<5
MF0844-006	Drill Core	0.032	24	1	0.07	34	0.011	<20	0.42	0.04	0.23	<2	0.24	<5	<5
MF0844-007	Drill Core	0.021	15	1	0.06	18	0.008	<20	0.37	0.04	0.21	<2	0.27	<5	<5
MF0844-008	Drill Core	0.013	12	1	0.03	16	0.005	<20	0.27	0.04	0.17	<2	1.37	<5	<5
MF0844-009	Drill Core	0.016	16	1	0.02	14	0.003	<20	0.29	0.04	0.19	<2	0.36	<5	<5
MF0844-010	Drill Core	0.020	13	2	0.06	27	0.014	<20	0.34	0.04	0.19	<2	0.85	<5	<5
MF0844-011	Drill Core	0.042	23	2	0.18	82	0.039	<20	0.62	0.05	0.25	<2	0.14	<5	<5
MF0844-012	Drill Core	0.069	27	2	0.29	194	0.093	<20	0.80	0.05	0.44	<2	0.15	<5	<5
MF0844-013	Drill Core	0.052	30	2	0.21	150	0.041	<20	0.66	0.04	0.29	<2	0.25	<5	<5
MF0844-014	Drill Core	0.059	33	<1	0.07	198	0.013	<20	0.51	0.02	0.34	<2	0.91	<5	<5
MF0844-015	Drill Core	0.061	34	2	0.16	207	0.044	<20	0.71	0.03	0.42	8	0.80	<5	<5
MF0844-016	Drill Core	0.062	23	2	0.35	208	0.114	<20	0.79	0.06	0.51	<2	<0.05	<5	<5
MF0844-017	Drill Core	0.060	28	3	0.24	229	0.077	<20	0.70	0.04	0.43	>100	0.28	<5	<5
MF0844-018	Drill Core	0.062	24	3	0.31	204	0.102	<20	0.75	0.05	0.42	<2	0.10	<5	<5
MF0844-019	Drill Core	0.030	30	1	0.04	64	0.016	<20	0.34	0.01	0.24	30	0.47	<5	<5
MF0844-020	Drill Core	0.012	7	2	0.02	16	0.004	<20	0.22	<0.01	0.14	18	0.30	<5	<5
MF0844-020S	Rock Pulp	0.023	5	12	0.10	219	0.010	<20	0.34	0.03	0.17	<2	0.60	<5	<5
MF0844-020B	Rock Chip	0.069	12	4	0.48	120	0.107	<20	0.89	0.08	0.41	<2	<0.05	<5	<5
MF0844-021	Drill Core	0.058	27	2	0.31	185	0.099	<20	0.74	0.05	0.40	<2	<0.05	<5	<5
MF0844-022	Drill Core	0.057	25	3	0.30	159	0.103	<20	0.73	0.06	0.39	<2	0.06	<5	<5
MF0844-023	Drill Core	0.061	24	3	0.32	160	0.106	<20	0.75	0.06	0.37	<2	0.05	<5	<5
MF0844-024	Drill Core	0.060	25	2	0.28	153	0.081	<20	0.75	0.05	0.34	<2	0.13	<5	<5
MF0844-025	Drill Core	0.059	27	2	0.23	154	0.074	<20	0.68	0.04	0.37	<2	0.20	<5	<5
MF0844-026	Drill Core	0.014	10	2	0.02	89	0.004	<20	0.22	<0.01	0.14	11	5.73	<5	<5
MF0844-027	Drill Core	0.010	17	2	0.01	50	0.003	<20	0.16	0.01	0.11	4	4.03	<5	<5
MF0844-028	Drill Core	0.041	23	2	0.13	51	0.018	<20	0.48	0.03	0.20	<2	0.18	<5	<5

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003907.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0844-029	Drill Core	3.07	<0.005	1538	25	36	31	1.1	<1	3	189	3.17	<2	<2	4	68	<0.5	<3	<3	7	0.61
MF0844-030	Drill Core	2.63	<0.005	2	2	5	55	<0.3	<1	<1	240	1.27	<2	<2	8	101	<0.5	<3	<3	16	0.60
MF0844-031	Drill Core	2.71	<0.005	1	3	<3	73	<0.3	2	<1	294	1.80	<2	<2	7	137	<0.5	<3	<3	28	0.63
MF0844-032	Drill Core	2.36	<0.005	109	5	10	72	0.5	1	2	263	1.28	<2	3	8	124	0.7	<3	<3	16	0.91
MF0844-033	Drill Core	3.07	0.005	1352	8	17	69	0.5	1	<1	202	0.90	<2	<2	9	80	0.9	<3	5	9	0.89
MF0844-034	Drill Core	2.70	0.005	60	5	10	79	<0.3	1	<1	288	1.24	<2	<2	9	152	<0.5	<3	<3	12	1.17
MF0844-035	Drill Core	2.90	<0.005	324	9	19	336	<0.3	<1	<1	131	0.51	<2	<2	11	71	7.2	<3	20	10	0.61
MF0844-036	Drill Core	3.02	<0.005	224	7	18	1179	0.3	<1	<1	164	0.81	<2	<2	10	94	27.6	<3	14	10	0.67
MF0844-037	Drill Core	3.21	<0.005	1	2	<3	74	<0.3	<1	<1	223	1.34	<2	<2	8	100	<0.5	<3	<3	17	0.57
MF0844-038	Drill Core	2.94	<0.005	1	6	<3	65	<0.3	<1	<1	231	1.35	<2	<2	7	124	<0.5	<3	<3	15	0.72
MF0844-039	Drill Core	2.61	0.006	1	4	6	74	<0.3	<1	<1	259	1.29	<2	<2	8	173	<0.5	<3	5	12	1.05
MF0844-040	Drill Core	3.14	0.006	<1	2	4	49	<0.3	<1	<1	284	1.10	<2	<2	9	144	<0.5	<3	<3	11	1.21
MF0844-040S	Rock Pulp	0.04	0.657	220	4743	18	20	7.8	7	5	224	1.20	5	<2	<2	261	<0.5	8	<3	8	0.61
MF0844-041	Drill Core	2.93	0.006	161	13	35	319	0.6	<1	<1	152	0.69	<2	<2	12	109	5.8	<3	31	5	1.04
MF0844-042	Drill Core	2.95	0.005	82	6	27	304	0.6	<1	<1	159	0.91	<2	<2	12	95	6.6	<3	14	8	0.73
MF0844-043	Drill Core	2.70	<0.005	110	4	15	152	<0.3	<1	<1	196	1.25	<2	<2	10	98	2.6	<3	5	12	0.71
MF0844-044	Drill Core	3.08	<0.005	3	2	<3	59	<0.3	<1	<1	237	1.19	<2	<2	7	151	<0.5	<3	<3	13	0.85

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003907.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0844-029	Drill Core	0.029	12	<1	0.12	93	0.042	<20	0.37	0.03	0.22	<2	2.87	<5	<5
MF0844-030	Drill Core	0.055	27	2	0.30	152	0.088	<20	0.72	0.05	0.35	<2	0.05	<5	<5
MF0844-031	Drill Core	0.084	18	6	0.45	221	0.132	<20	0.90	0.06	0.49	<2	0.09	<5	<5
MF0844-032	Drill Core	0.086	23	4	0.27	68	0.068	<20	0.66	0.03	0.25	<2	0.29	<5	<5
MF0844-033	Drill Core	0.077	28	1	0.11	45	0.034	<20	0.67	0.02	0.36	<2	0.65	<5	9
MF0844-034	Drill Core	0.072	27	2	0.23	55	0.064	<20	0.77	0.04	0.28	<2	0.36	<5	13
MF0844-035	Drill Core	0.078	32	<1	0.09	58	0.029	<20	0.60	0.02	0.38	<2	0.18	<5	9
MF0844-036	Drill Core	0.078	42	1	0.13	76	0.038	<20	0.59	0.03	0.35	<2	0.36	<5	10
MF0844-037	Drill Core	0.064	30	1	0.29	179	0.092	<20	0.74	0.06	0.42	<2	0.16	<5	16
MF0844-038	Drill Core	0.065	27	2	0.30	88	0.089	<20	0.79	0.06	0.27	<2	0.16	<5	14
MF0844-039	Drill Core	0.068	29	1	0.23	73	0.075	<20	0.80	0.05	0.28	<2	0.37	<5	14
MF0844-040	Drill Core	0.059	26	<1	0.19	72	0.039	<20	0.71	0.05	0.28	<2	0.09	<5	9
MF0844-040S	Rock Pulp	0.021	5	11	0.10	202	0.009	<20	0.34	0.03	0.17	<2	0.58	<5	<5
MF0844-041	Drill Core	0.054	32	<1	0.06	128	0.023	<20	0.68	0.02	0.43	<2	0.42	<5	7
MF0844-042	Drill Core	0.069	54	<1	0.12	60	0.039	<20	0.59	0.03	0.30	<2	0.33	<5	9
MF0844-043	Drill Core	0.066	40	1	0.20	104	0.054	<20	0.69	0.04	0.36	<2	0.45	<5	13
MF0844-044	Drill Core	0.057	27	2	0.24	114	0.068	<20	0.71	0.05	0.30	3	0.15	<5	12

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Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003907.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF0844-005	Drill Core	2.94	<0.005	44	4	58	62	1.5	<1	<1	82	0.63	<2	<2	6	65	0.9	<3	8	3	0.51
REP MF0844-005	QC			41	4	59	55	1.4	<1	<1	83	0.64	<2	<2	6	66	0.9	<3	8	2	0.50
MF0844-008	Drill Core	3.06	<0.005	142	3	48	58	0.9	<1	1	107	1.46	<2	<2	10	34	<0.5	<3	5	2	0.55
REP MF0844-008	QC		0.005																		
Core Reject Duplicates																					
MF0844-006	Drill Core	2.46	<0.005	19	5	10	29	<0.3	<1	<1	175	0.58	<2	<2	9	66	<0.5	<3	<3	4	0.91
DUP MF0844-006	QC		<0.005	20	5	9	26	<0.3	<1	<1	173	0.57	<2	<2	9	64	<0.5	<3	<3	4	0.91
MF0844-039	Drill Core	2.61	0.006	1	4	6	74	<0.3	<1	<1	259	1.29	<2	<2	8	173	<0.5	<3	5	12	1.05
DUP MF0844-039	QC		<0.005	<1	4	4	75	<0.3	<1	<1	250	1.25	<2	<2	10	154	<0.5	<3	3	12	0.94
Reference Materials																					
STD DS8	Standard			14	106	113	317	1.9	40	8	638	2.57	20	<2	6	71	2.2	<3	<3	45	0.73
STD DS8	Standard			13	106	105	319	1.5	38	5	612	2.48	26	<2	7	64	2.4	<3	5	42	0.71
STD DS8	Standard			15	110	127	326	1.3	39	5	619	2.53	29	<2	6	71	2.0	<3	7	43	0.74
STD OREAS45CA	Standard			2	505	18	63	0.4	264	99	925	15.75	<2	2	6	15	<0.5	<3	<3	225	0.42
STD OREAS45CA	Standard			1	513	19	66	<0.3	249	91	907	15.91	<2	<2	6	14	<0.5	<3	<3	207	0.42
STD OREAS45CA	Standard			2	520	18	65	0.4	257	89	937	18.14	4	<2	6	15	<0.5	<3	<3	212	0.44
STD OXH82	Standard		1.289																		
STD OXH82	Standard		1.354																		
STD OXH82	Standard		1.364																		
STD OXH82	Standard		1.299																		
STD OXK79	Standard		3.684																		
STD OXK79	Standard		3.841																		
STD OXK79	Standard		3.368																		
STD OXK79	Standard		3.504																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003907.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
MF0844-005	Drill Core	0.010	10	2	0.02	25	0.002	<20	0.36	0.03	0.23	5	0.44	<5	<5
REP MF0844-005	QC	0.010	10	1	0.02	24	0.002	<20	0.36	0.03	0.23	4	0.44	<5	<5
MF0844-008	Drill Core	0.013	12	1	0.03	16	0.005	<20	0.27	0.04	0.17	<2	1.37	<5	<5
REP MF0844-008	QC														
Core Reject Duplicates															
MF0844-006	Drill Core	0.032	24	1	0.07	34	0.011	<20	0.42	0.04	0.23	<2	0.24	<5	<5
DUP MF0844-006	QC	0.031	23	1	0.07	34	0.011	<20	0.40	0.04	0.22	<2	0.24	<5	<5
MF0844-039	Drill Core	0.068	29	1	0.23	73	0.075	<20	0.80	0.05	0.28	<2	0.37	<5	14
DUP MF0844-039	QC	0.066	28	<1	0.24	70	0.074	<20	0.77	0.05	0.26	<2	0.27	<5	14
Reference Materials															
STD DS8	Standard	0.081	15	124	0.62	309	0.114	<20	0.93	0.09	0.42	<2	0.17	<5	<5
STD DS8	Standard	0.078	14	121	0.61	291	0.108	<20	0.91	0.09	0.41	3	0.16	<5	17
STD DS8	Standard	0.080	15	115	0.62	301	0.117	<20	0.94	0.09	0.42	2	0.17	<5	<5
STD OREAS45CA	Standard	0.039	17	746	0.14	159	0.127	<20	3.59	0.01	0.07	<2	<0.05	45	6
STD OREAS45CA	Standard	0.041	17	727	0.13	160	0.124	<20	3.63	<0.01	0.08	<2	<0.05	43	25
STD OREAS45CA	Standard	0.039	16	754	0.14	165	0.143	<20	3.81	0.02	0.07	<2	<0.05	48	<5
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		

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Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003907.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank		0.006																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.005	<1	1	<3	47	<0.3	2	1	577	2.04	<2	<2	5	76	<0.5	<3	<3	39	0.52
G1	Prep Blank	<0.01	<0.005	<1	1	3	46	<0.3	2	1	570	1.95	<2	<2	5	81	<0.5	<3	<3	38	0.53

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QUALITY CONTROL REPORT VAN11003907.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.075	14	4	0.50	141	0.123	<20	0.90	0.08	0.46	<2	<0.05	<5	<5
G1	Prep Blank	0.078	14	4	0.49	140	0.121	<20	0.91	0.08	0.46	<2	<0.05	<5	<5

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Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: September 11, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11003908.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-005
P.O. Number
Number of Samples: 22

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	20	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
G601	21	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	22	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003908.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0848-001	Drill Core	2.97	<0.005	<1	3	7	78	<0.3	<1	<1	396	0.91	<2	<2	12	143	<0.5	<3	<3	5	1.29
MF0848-002	Drill Core	3.30	<0.005	7	4	41	72	1.3	<1	2	153	1.01	<2	<2	9	50	1.3	<3	7	1	0.68
MF0848-003	Drill Core	2.46	<0.005	2	2	3	14	<0.3	<1	<1	85	0.43	<2	<2	7	50	<0.5	<3	<3	2	0.26
MF0848-004	Drill Core	2.88	<0.005	<1	1	<3	51	<0.3	<1	<1	222	0.97	<2	<2	13	57	<0.5	<3	<3	11	0.39
MF0848-005	Drill Core	2.83	<0.005	<1	2	<3	64	<0.3	<1	<1	252	1.31	<2	<2	9	95	<0.5	<3	<3	17	0.52
MF0848-006	Drill Core	2.73	<0.005	<1	7	<3	66	<0.3	1	1	275	1.29	<2	<2	8	127	<0.5	<3	<3	13	0.88
MF0848-007	Drill Core	2.76	<0.005	168	15	10	60	0.3	<1	2	125	1.19	<2	<2	9	58	0.8	<3	4	4	0.61
MF0848-008	Drill Core	3.16	<0.005	23	8	8	59	<0.3	<1	<1	155	0.74	<2	<2	9	56	1.2	<3	<3	2	0.78
MF0848-009	Drill Core	2.79	0.006	183	8	13	24	<0.3	<1	1	340	0.78	<2	<2	13	140	0.5	<3	<3	2	1.71
MF0848-010	Drill Core	2.65	<0.005	5	8	<3	51	<0.3	<1	<1	229	0.79	<2	<2	9	100	0.6	<3	<3	8	0.95
MF0848-011	Drill Core	3.46	<0.005	147	12	23	74	0.3	<1	3	303	1.53	<2	<2	11	117	1.5	<3	<3	2	1.60
MF0848-012	Drill Core	2.60	<0.005	<1	2	5	61	<0.3	1	<1	304	1.22	<2	<2	11	141	<0.5	<3	4	13	1.12
MF0848-013	Drill Core	2.51	0.009	106	5	2253	1046	19.4	<1	1	176	0.97	<2	<2	12	983	23.8	<3	36	3	0.91
MF0848-014	Drill Core	2.90	0.029	2	3	2632	1311	29.8	<1	<1	43	2.49	<2	<2	4	217	31.7	<3	58	<1	0.15
MF0848-015	Drill Core	2.60	<0.005	3	6	73	92	0.7	<1	1	230	1.01	<2	<2	6	104	1.6	<3	4	5	1.00
MF0848-016	Drill Core	2.75	<0.005	<1	2	7	57	<0.3	1	<1	229	1.33	<2	<2	7	122	<0.5	<3	<3	17	0.64
MF0848-017	Drill Core	2.93	<0.005	6	6	<3	59	<0.3	<1	<1	254	1.29	<2	<2	8	146	<0.5	<3	<3	15	0.79
MF0848-018	Drill Core	3.15	<0.005	<1	3	<3	64	<0.3	1	<1	234	1.37	<2	<2	8	103	<0.5	<3	<3	18	0.50
MF0848-019	Drill Core	2.93	<0.005	274	3	5	30	<0.3	<1	<1	126	0.76	<2	<2	10	71	<0.5	<3	<3	10	0.43
MF0848-020	Drill Core	3.02	<0.005	<1	3	<3	69	<0.3	1	<1	226	1.30	2	<2	7	115	<0.5	<3	<3	16	0.43
MF0848-020S	Rock Pulp	0.03	I.S.	394	9137	46	31	32.9	2	<1	234	0.86	26	<2	<2	160	<0.5	35	4	5	1.00
MF0848-020B	Rock Chip	0.19	<0.005	<1	6	<3	44	<0.3	2	3	534	1.95	4	<2	6	87	<0.5	<3	<3	35	0.57

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003908.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0848-001	Drill Core	0.068	31	<1	0.10	228	0.023	<20	0.46	0.04	0.30	2	0.64	<5	<5
MF0848-002	Drill Core	0.022	25	<1	0.02	33	0.002	<20	0.25	0.04	0.19	<2	0.96	<5	<5
MF0848-003	Drill Core	0.006	7	1	0.03	39	0.008	<20	0.23	0.05	0.15	<2	0.07	<5	<5
MF0848-004	Drill Core	0.034	19	2	0.19	77	0.060	<20	0.56	0.06	0.26	<2	<0.05	<5	11
MF0848-005	Drill Core	0.057	26	1	0.31	160	0.097	<20	0.77	0.06	0.38	<2	<0.05	<5	17
MF0848-006	Drill Core	0.063	24	<1	0.27	97	0.069	<20	0.80	0.05	0.28	<2	0.23	<5	11
MF0848-007	Drill Core	0.020	13	1	0.06	30	0.008	<20	0.37	0.03	0.18	<2	0.92	<5	<5
MF0848-008	Drill Core	0.007	20	<1	0.02	25	0.003	<20	0.32	0.02	0.19	<2	0.57	<5	<5
MF0848-009	Drill Core	0.038	36	<1	0.04	44	0.006	<20	0.36	<0.01	0.24	4	0.66	<5	<5
MF0848-010	Drill Core	0.056	31	<1	0.12	303	0.033	<20	0.56	0.03	0.30	<2	0.29	<5	9
MF0848-011	Drill Core	0.042	37	<1	0.03	129	0.004	<20	0.36	0.01	0.26	<2	1.57	<5	<5
MF0848-012	Drill Core	0.060	33	1	0.24	115	0.043	<20	0.77	0.04	0.29	<2	0.06	<5	11
MF0848-013	Drill Core	0.069	35	<1	0.03	269	0.003	<20	0.43	<0.01	0.30	58	1.07	<5	<5
MF0848-014	Drill Core	0.016	6	2	<0.01	116	0.001	<20	0.19	<0.01	0.14	2	2.63	<5	<5
MF0848-015	Drill Core	0.040	16	<1	0.09	160	0.019	<20	0.45	0.03	0.26	10	0.65	<5	<5
MF0848-016	Drill Core	0.057	21	2	0.29	149	0.087	<20	0.71	0.06	0.32	<2	0.08	<5	15
MF0848-017	Drill Core	0.058	20	1	0.26	116	0.077	<20	0.69	0.06	0.31	<2	0.22	<5	13
MF0848-018	Drill Core	0.059	21	1	0.30	151	0.091	<20	0.74	0.06	0.39	<2	0.10	<5	18
MF0848-019	Drill Core	0.075	24	<1	0.13	107	0.043	<20	0.46	0.04	0.32	<2	0.16	<5	8
MF0848-020	Drill Core	0.057	18	<1	0.31	143	0.094	<20	0.71	0.05	0.36	<2	0.08	<5	6
MF0848-020S	Rock Pulp	0.010	2	13	0.05	136	0.002	<20	0.34	0.02	0.22	<2	1.00	<5	<5
MF0848-020B	Rock Chip	0.075	12	3	0.50	135	0.113	<20	0.98	0.09	0.43	<2	<0.05	<5	7

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003908.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
REP G1	QC			<1	1	<3	47	<0.3	2	1	571	2.05	<2	<2	6	139	<0.5	<3	<3	39	0.57
REP MF0848-016	QC		<0.005																		
Core Reject Duplicates																					
MF0848-016	Drill Core	2.75	<0.005	<1	2	7	57	<0.3	1	<1	229	1.33	<2	<2	7	122	<0.5	<3	<3	17	0.64
DUP MF0848-016	QC		<0.005	<1	2	4	58	<0.3	1	<1	233	1.38	<2	<2	8	117	<0.5	<3	<3	18	0.63
Reference Materials																					
STD DS8	Standard			14	106	120	322	1.5	37	6	612	2.42	26	<2	7	64	1.6	7	6	39	0.67
STD DS8	Standard			13	106	105	319	1.5	38	5	612	2.48	26	<2	7	64	2.4	<3	5	42	0.71
STD OREAS45CA	Standard			<1	504	11	62	<0.3	249	86	974	15.67	6	<2	8	15	<0.5	<3	<3	211	0.44
STD OREAS45CA	Standard			1	513	19	66	<0.3	249	91	907	15.91	<2	<2	6	14	<0.5	<3	<3	207	0.42
STD OXH82	Standard		1.354																		
STD OXH82	Standard		1.363																		
STD OXH82	Standard		1.299																		
STD OXK79	Standard		3.841																		
STD OXK79	Standard		3.308																		
STD OXK79	Standard		3.504																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01

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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003908.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
REP G1	QC	0.082	17	2	0.48	183	0.117	<20	0.91	0.09	0.44	<2	<0.05	<5	18
REP MF0848-016	QC														
Core Reject Duplicates															
MF0848-016	Drill Core	0.057	21	2	0.29	149	0.087	<20	0.71	0.06	0.32	<2	0.08	<5	15
DUP MF0848-016	QC	0.058	22	1	0.30	149	0.092	<20	0.73	0.07	0.34	<2	0.08	<5	16
Reference Materials															
STD DS8	Standard	0.079	13	110	0.61	291	0.111	<20	0.94	0.08	0.41	<2	0.16	<5	6
STD DS8	Standard	0.078	14	121	0.61	291	0.108	<20	0.91	0.09	0.41	3	0.16	<5	17
STD OREAS45CA	Standard	0.038	14	748	0.13	163	0.139	<20	3.73	<0.01	0.07	<2	<0.05	45	21
STD OREAS45CA	Standard	0.041	17	727	0.13	160	0.124	<20	3.63	<0.01	0.08	<2	<0.05	43	25
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003908.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.005																		
G1	Prep Blank	<0.01	0.005	<1	2	<3	48	<0.3	2	1	579	2.04	<2	<2	5	219	<0.5	<3	<3	39	0.59
G1	Prep Blank			<1	1	<3	47	<0.3	2	1	576	2.06	<2	<2	6	140	<0.5	<3	<3	39	0.57

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QUALITY CONTROL REPORT VAN11003908.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
Prep Wash															
G1	Prep Blank														
G1	Prep Blank	0.080	17	3	0.49	259	0.121	<20	0.95	0.09	0.46	<2	<0.05	<5	17
G1	Prep Blank	0.081	16	3	0.49	186	0.117	<20	0.92	0.09	0.44	<2	<0.05	<5	18

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Client: **TerraLogic Exploration Inc.**
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Cranbrook BC V1C 2R7 Canada

Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: September 09, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN11003909.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-008
P.O. Number
Number of Samples: 60

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	57	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
G601	60	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	60	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN
CHIEF ASSAYER

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

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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003909.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0866-001	Drill Core	0.75	<0.005	5	31	<3	132	<0.3	69	21	735	4.87	<2	<2	15	15	<0.5	<3	<3	26	0.20
MF0866-002	Drill Core	0.78	<0.005	7	12	<3	100	<0.3	24	5	412	2.24	<2	<2	14	5	<0.5	<3	<3	15	0.09
MF0866-003	Drill Core	0.52	<0.005	279	15	<3	5	<0.3	1	<1	41	0.57	<2	<2	<2	2	<0.5	<3	<3	<1	<0.01
MF0866-004	Drill Core	1.13	0.006	83	418	<3	91	<0.3	52	15	522	7.92	<2	<2	6	21	0.7	<3	<3	13	0.35
MF0866-005	Drill Core	2.63	<0.005	61	41	<3	113	<0.3	68	18	833	4.49	<2	<2	15	30	<0.5	<3	<3	17	0.32
MF0866-006	Drill Core	1.58	<0.005	4	66	<3	101	<0.3	58	23	831	5.01	<2	<2	10	18	<0.5	<3	<3	17	0.20
MF0866-007	Drill Core	2.26	0.005	1	23	<3	97	<0.3	68	21	917	4.61	<2	<2	15	17	<0.5	<3	<3	25	0.23
MF0866-008	Drill Core	2.73	<0.005	<1	66	<3	104	<0.3	53	25	1066	5.19	<2	<2	10	21	<0.5	<3	<3	22	0.38
MF0866-009	Drill Core	1.13	<0.005	66	140	<3	55	<0.3	26	6	394	3.51	<2	<2	6	12	<0.5	<3	<3	11	0.17
MF0866-010	Drill Core	1.93	<0.005	141	13	<3	43	<0.3	18	4	199	1.30	<2	<2	8	6	<0.5	<3	<3	11	0.09
MF0866-011	Drill Core	2.13	0.005	40	38	<3	124	<0.3	49	11	611	3.82	<2	<2	11	18	<0.5	<3	<3	34	0.26
MF0866-012	Drill Core	2.88	<0.005	26	4	3	54	<0.3	1	<1	218	1.22	<2	<2	7	84	<0.5	<3	<3	14	0.81
MF0866-013	Drill Core	2.83	0.022	230	18	232	51	7.0	<1	1	245	1.65	<2	<2	7	102	1.1	<3	10	6	1.19
MF0866-014	Drill Core	2.60	0.006	<1	6	3	48	<0.3	1	<1	230	1.11	<2	<2	7	104	<0.5	<3	<3	13	1.04
MF0866-015	Drill Core	2.70	<0.005	<1	7	4	58	<0.3	<1	<1	258	1.17	<2	<2	8	121	<0.5	<3	<3	13	1.01
MF0866-016	Drill Core	2.65	<0.005	461	22	9	63	<0.3	<1	2	231	1.93	<2	<2	7	79	<0.5	<3	<3	12	0.77
MF0866-017	Drill Core	3.89	0.005	38	12	5	55	<0.3	<1	<1	228	1.01	<2	<2	9	84	<0.5	<3	<3	10	0.84
MF0866-018	Drill Core	3.19	<0.005	35	11	5	45	<0.3	4	1	275	1.25	<2	<2	8	113	<0.5	<3	<3	11	1.01
MF0866-019	Drill Core	2.81	<0.005	160	19	17	46	0.3	<1	1	202	1.54	<2	<2	8	86	<0.5	<3	<3	11	0.72
MF0866-020	Drill Core	2.72	<0.005	<1	15	12	38	0.4	<1	1	192	1.07	<2	<2	8	77	<0.5	<3	<3	8	0.80
MF0866-020S	Rock Pulp	0.04	0.639	239	4862	21	21	8.3	7	5	235	1.27	5	<2	<2	285	<0.5	8	<3	9	0.64
MF0866-020B	Rock Chip	0.16	<0.005	<1	3	<3	46	<0.3	2	1	560	2.10	<2	<2	4	89	<0.5	<3	<3	38	0.67
MF0866-021	Drill Core	2.93	0.005	9	12	15	59	<0.3	<1	<1	187	0.96	<2	<2	9	88	0.9	<3	5	7	0.83
MF0866-022	Drill Core	2.74	0.009	56	6	82	829	3.0	<1	<1	85	0.34	<2	<2	12	51	19.1	<3	4	<1	0.47
MF0866-023	Drill Core	2.57	0.006	40	5	5	14	<0.3	<1	<1	174	0.38	<2	<2	12	82	<0.5	<3	<3	2	0.87
MF0866-024	Drill Core	2.86	0.005	18	6	6	22	<0.3	<1	<1	140	0.59	<2	<2	11	64	<0.5	<3	<3	4	0.66
MF0866-025	Drill Core	2.92	0.005	<1	2	5	58	<0.3	1	<1	219	1.22	<2	<2	7	102	<0.5	<3	<3	16	0.69
MF0866-026	Drill Core	2.91	0.006	7	7	6	67	<0.3	<1	<1	256	1.24	<2	<2	8	120	<0.5	<3	<3	13	0.87
MF0866-027	Drill Core	3.14	0.006	6	8	5	58	<0.3	<1	<1	264	1.26	<2	<2	6	111	<0.5	<3	<3	13	1.02
MF0866-028	Drill Core	3.36	0.006	198	17	8	47	<0.3	<1	1	272	1.63	<2	<2	5	98	<0.5	<3	<3	11	1.04

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Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003909.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0866-001	Drill Core	0.065	44	42	1.26	56	0.038	<20	2.04	0.02	0.52	<2	0.33	<5	13
MF0866-002	Drill Core	0.032	22	18	0.49	60	0.056	<20	0.96	0.03	0.75	<2	1.06	<5	11
MF0866-003	Drill Core	<0.001	<1	3	<0.01	1	<0.001	<20	0.01	<0.01	<0.01	<2	0.26	<5	<5
MF0866-004	Drill Core	0.023	17	13	0.65	22	0.002	<20	0.43	0.01	0.16	<2	5.34	<5	<5
MF0866-005	Drill Core	0.056	43	22	1.05	41	0.004	<20	0.87	0.02	0.27	<2	0.58	<5	<5
MF0866-006	Drill Core	0.061	31	25	1.23	29	0.003	<20	1.30	0.02	0.18	5	1.77	<5	6
MF0866-007	Drill Core	0.064	41	38	1.28	40	0.004	<20	1.72	0.02	0.22	<2	0.14	<5	6
MF0866-008	Drill Core	0.060	29	32	1.37	25	0.006	<20	1.62	0.01	0.17	<2	1.22	<5	9
MF0866-009	Drill Core	0.015	10	18	0.49	37	0.038	<20	0.85	0.03	0.42	<2	1.96	<5	8
MF0866-010	Drill Core	0.013	12	18	0.36	52	0.056	<20	0.76	0.05	0.50	<2	0.23	<5	10
MF0866-011	Drill Core	0.035	25	48	1.13	142	0.202	<20	1.99	0.03	1.74	<2	0.58	<5	34
MF0866-012	Drill Core	0.059	24	2	0.26	150	0.070	<20	0.74	0.05	0.34	<2	0.24	<5	15
MF0866-013	Drill Core	0.048	28	1	0.10	224	0.026	<20	0.51	0.03	0.30	<2	1.39	<5	5
MF0866-014	Drill Core	0.062	28	2	0.22	178	0.057	<20	0.69	0.04	0.30	<2	0.28	<5	13
MF0866-015	Drill Core	0.060	29	2	0.23	185	0.067	<20	0.80	0.05	0.39	<2	0.27	<5	13
MF0866-016	Drill Core	0.051	23	2	0.21	162	0.064	<20	0.62	0.04	0.35	<2	1.30	<5	12
MF0866-017	Drill Core	0.049	25	2	0.17	162	0.053	<20	0.64	0.05	0.36	<2	0.34	<5	12
MF0866-018	Drill Core	0.052	24	5	0.24	221	0.057	<20	0.70	0.04	0.41	<2	0.38	<5	10
MF0866-019	Drill Core	0.056	43	2	0.19	226	0.057	<20	0.65	0.04	0.39	<2	0.87	<5	13
MF0866-020	Drill Core	0.043	20	2	0.14	113	0.038	<20	0.50	0.04	0.29	<2	0.50	<5	10
MF0866-020S	Rock Pulp	0.023	5	11	0.10	220	0.009	<20	0.37	0.03	0.19	<2	0.61	<5	<5
MF0866-020B	Rock Chip	0.078	14	4	0.52	142	0.115	<20	0.97	0.10	0.46	<2	<0.05	<5	21
MF0866-021	Drill Core	0.036	18	2	0.11	136	0.033	<20	0.50	0.04	0.31	<2	0.52	<5	8
MF0866-022	Drill Core	0.002	8	1	<0.01	64	0.002	<20	0.21	0.04	0.16	<2	0.21	<5	<5
MF0866-023	Drill Core	0.012	8	<1	0.05	65	0.013	<20	0.25	0.03	0.19	<2	0.20	<5	<5
MF0866-024	Drill Core	0.023	15	2	0.07	82	0.021	<20	0.36	0.05	0.25	<2	0.22	<5	<5
MF0866-025	Drill Core	0.070	25	2	0.33	198	0.100	<20	0.83	0.06	0.49	<2	0.13	<5	19
MF0866-026	Drill Core	0.070	25	2	0.28	189	0.080	<20	0.77	0.05	0.41	<2	0.38	<5	17
MF0866-027	Drill Core	0.066	27	<1	0.23	173	0.062	<20	0.74	0.05	0.37	<2	0.37	<5	14
MF0866-028	Drill Core	0.052	20	1	0.17	169	0.049	<20	0.59	0.04	0.38	<2	0.99	<5	11

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Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003909.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0866-029	Drill Core	3.00	0.006	33	5	8	56	<0.3	<1	<1	221	1.05	<2	<2	8	92	<0.5	<3	<3	10	0.69
MF0866-030	Drill Core	2.79	<0.005	<1	5	5	59	<0.3	<1	<1	218	1.29	<2	<2	7	91	<0.5	<3	<3	17	0.65
MF0866-031	Drill Core	3.06	<0.005	2	4	4	54	<0.3	1	<1	217	1.33	<2	<2	7	91	<0.5	<3	<3	18	0.64
MF0866-032	Drill Core	2.68	<0.005	4	9	11	32	<0.3	<1	1	109	0.72	3	<2	7	44	<0.5	<3	<3	4	0.43
MF0866-033	Drill Core	3.07	<0.005	3	3	7	23	<0.3	1	<1	120	0.53	3	<2	9	49	<0.5	<3	<3	4	0.53
MF0866-034	Drill Core	2.91	<0.005	<1	10	6	45	<0.3	<1	<1	194	0.93	<2	<2	7	54	<0.5	<3	<3	7	0.53
MF0866-035	Drill Core	3.13	<0.005	6	7	10	25	<0.3	<1	<1	122	0.66	3	<2	6	35	<0.5	<3	<3	4	0.44
MF0866-036	Drill Core	2.79	<0.005	74	7	10	20	<0.3	<1	<1	84	0.50	2	<2	7	25	<0.5	<3	<3	2	0.31
MF0866-037	Drill Core	3.05	<0.005	76	10	12	17	<0.3	<1	2	68	0.71	<2	<2	7	23	<0.5	<3	<3	2	0.26
MF0866-038	Drill Core	2.94	<0.005	36	14	44	79	0.8	1	<1	136	0.92	4	<2	5	34	1.1	<3	<3	4	0.38
MF0866-039	Drill Core	2.79	<0.005	3	10	9	42	<0.3	<1	<1	158	0.77	3	<2	5	36	<0.5	<3	<3	8	0.32
MF0866-040	Drill Core	2.89	<0.005	31	8	8	46	<0.3	<1	<1	169	0.73	<2	<2	7	37	<0.5	<3	<3	7	0.36
MF0866-040S	Rock Pulp	0.04	0.659	255	4910	24	21	7.9	7	5	229	1.26	12	<2	<2	274	<0.5	12	<3	8	0.60
MF0866-041	Drill Core	2.91	<0.005	61	14	12	60	<0.3	<1	<1	233	1.02	<2	<2	6	50	<0.5	3	<3	7	0.52
MF0866-042	Drill Core	3.23	<0.005	36	11	12	47	<0.3	1	<1	183	0.95	<2	<2	4	39	<0.5	<3	<3	7	0.44
MF0866-043	Drill Core	2.55	<0.005	21	15	9	41	<0.3	<1	2	182	0.99	<2	<2	7	45	<0.5	<3	<3	5	0.51
MF0866-044	Drill Core	3.00	<0.005	47	12	10	50	<0.3	1	<1	180	0.82	<2	<2	7	55	<0.5	<3	3	8	0.46
MF0866-045	Drill Core	2.79	0.005	<1	8	8	68	<0.3	1	<1	253	1.16	<2	<2	6	54	<0.5	<3	<3	14	0.50
MF0866-046	Drill Core	3.20	<0.005	<1	3	5	80	<0.3	<1	1	274	1.55	2	<2	8	51	<0.5	<3	<3	22	0.52
MF0866-047	Drill Core	3.11	<0.005	<1	8	11	56	<0.3	<1	<1	192	0.77	<2	<2	6	41	<0.5	<3	<3	9	0.39
MF0866-048	Drill Core	2.85	<0.005	<1	5	9	39	<0.3	1	<1	137	0.69	<2	<2	5	36	<0.5	<3	<3	8	0.32
MF0866-049	Drill Core	2.87	<0.005	<1	7	11	40	<0.3	<1	<1	159	0.71	<2	<2	6	39	<0.5	<3	<3	7	0.41
MF0866-050	Drill Core	2.65	<0.005	1	7	5	32	<0.3	<1	<1	196	0.75	3	<2	6	43	<0.5	<3	<3	4	0.70
MF0866-051	Drill Core	3.16	<0.005	7	9	15	34	<0.3	<1	<1	184	0.65	<2	<2	8	47	<0.5	<3	<3	4	0.69
MF0866-052	Drill Core	2.69	<0.005	32	5	<3	28	<0.3	<1	<1	161	0.68	<2	<2	6	43	<0.5	<3	<3	6	0.52
MF0866-053	Drill Core	3.09	<0.005	<1	3	4	36	<0.3	<1	<1	192	0.84	<2	<2	9	53	<0.5	<3	<3	8	0.68
MF0866-054	Drill Core	2.79	<0.005	264	3	4	22	<0.3	<1	<1	130	0.66	<2	<2	6	32	<0.5	<3	<3	5	0.41
MF0866-055	Drill Core	2.45	0.016	497	20	2967	23	55.3	<1	<1	1570	0.70	<2	<2	2	852	1.1	<3	115	2	8.49
MF0866-056	Drill Core	2.78	<0.005	39	8	19	45	<0.3	<1	2	163	1.01	3	<2	5	48	0.5	<3	<3	4	0.63
MF0866-057	Drill Core	2.99	<0.005	5	3	11	52	<0.3	<1	<1	197	1.30	3	<2	9	47	<0.5	<3	<3	15	0.39

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Project: MacFarlane
Report Date: September 09, 2011

CERTIFICATE OF ANALYSIS VAN11003909.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0866-029	Drill Core	0.047	22	3	0.19	153	0.060	<20	0.63	0.06	0.39	<2	0.25	<5	12
MF0866-030	Drill Core	0.061	23	2	0.29	165	0.091	<20	0.75	0.05	0.44	<2	0.12	<5	18
MF0866-031	Drill Core	0.058	23	3	0.28	177	0.085	<20	0.78	0.07	0.43	<2	0.13	<5	18
MF0866-032	Drill Core	0.024	7	<1	0.08	46	0.025	<20	0.40	0.04	0.21	<2	0.25	<5	<5
MF0866-033	Drill Core	0.021	9	<1	0.08	52	0.022	<20	0.38	0.04	0.22	<2	0.12	<5	<5
MF0866-034	Drill Core	0.041	8	1	0.13	212	0.033	<20	0.47	0.04	0.31	<2	0.43	<5	7
MF0866-035	Drill Core	0.020	5	<1	0.07	53	0.019	<20	0.34	0.04	0.22	<2	0.30	<5	<5
MF0866-036	Drill Core	0.011	3	<1	0.04	20	0.011	<20	0.24	0.04	0.15	<2	0.34	<5	<5
MF0866-037	Drill Core	0.008	3	<1	0.03	24	0.011	<20	0.24	0.04	0.16	<2	0.56	<5	<5
MF0866-038	Drill Core	0.025	7	<1	0.07	56	0.021	<20	0.32	0.04	0.22	<2	0.60	<5	<5
MF0866-039	Drill Core	0.026	8	<1	0.12	48	0.039	<20	0.44	0.05	0.24	<2	0.22	<5	<5
MF0866-040	Drill Core	0.031	8	<1	0.12	50	0.034	<20	0.39	0.04	0.23	<2	0.31	<5	<5
MF0866-040S	Rock Pulp	0.023	5	9	0.10	215	0.009	<20	0.36	0.03	0.17	<2	0.57	<5	<5
MF0866-041	Drill Core	0.041	10	1	0.13	74	0.034	<20	0.43	0.04	0.28	<2	0.61	<5	6
MF0866-042	Drill Core	0.033	7	1	0.11	67	0.032	<20	0.38	0.03	0.25	<2	0.58	<5	<5
MF0866-043	Drill Core	0.032	9	1	0.10	45	0.021	<20	0.40	0.04	0.22	<2	0.64	<5	<5
MF0866-044	Drill Core	0.033	11	1	0.13	80	0.038	<20	0.46	0.04	0.26	<2	0.27	<5	5
MF0866-045	Drill Core	0.056	13	2	0.25	195	0.073	<20	0.63	0.05	0.41	<2	0.26	<5	7
MF0866-046	Drill Core	0.079	15	3	0.38	211	0.109	<20	0.79	0.04	0.50	<2	0.13	<5	9
MF0866-047	Drill Core	0.034	9	1	0.15	53	0.047	<20	0.49	0.05	0.26	<2	0.21	<5	5
MF0866-048	Drill Core	0.026	8	1	0.12	40	0.040	<20	0.45	0.04	0.21	<2	0.06	<5	<5
MF0866-049	Drill Core	0.031	8	<1	0.12	58	0.033	<20	0.43	0.05	0.26	<2	0.16	<5	<5
MF0866-050	Drill Core	0.035	13	<1	0.07	80	0.007	<20	0.32	0.03	0.19	<2	0.40	<5	<5
MF0866-051	Drill Core	0.034	15	1	0.06	92	0.006	<20	0.35	0.03	0.22	<2	0.37	<5	<5
MF0866-052	Drill Core	0.033	13	<1	0.09	69	0.016	<20	0.33	0.03	0.22	<2	0.19	<5	<5
MF0866-053	Drill Core	0.037	22	<1	0.14	67	0.017	<20	0.42	0.04	0.22	<2	0.10	<5	<5
MF0866-054	Drill Core	0.024	15	<1	0.08	49	0.012	<20	0.29	0.03	0.17	<2	0.08	<5	<5
MF0866-055	Drill Core	0.009	6	<1	0.03	7	0.003	<20	0.16	<0.01	0.09	<2	0.47	<5	<5
MF0866-056	Drill Core	0.023	8	<1	0.06	58	0.008	<20	0.30	0.03	0.20	<2	0.76	<5	<5
MF0866-057	Drill Core	0.043	15	2	0.23	96	0.071	<20	0.60	0.06	0.36	<2	0.17	<5	7

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Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003909.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF0866-002	Drill Core	0.78	<0.005	7	12	<3	100	<0.3	24	5	412	2.24	<2	<2	14	5	<0.5	<3	<3	15	0.09
REP MF0866-002	QC		<0.005																		
MF0866-011	Drill Core	2.13	0.005	40	38	<3	124	<0.3	49	11	611	3.82	<2	<2	11	18	<0.5	<3	<3	34	0.26
REP MF0866-011	QC			48	39	<3	124	<0.3	49	11	617	3.78	<2	<2	12	18	<0.5	<3	<3	34	0.27
MF0866-044	Drill Core	3.00	<0.005	47	12	10	50	<0.3	1	<1	180	0.82	<2	<2	7	55	<0.5	<3	3	8	0.46
REP MF0866-044	QC			47	12	8	49	<0.3	<1	<1	179	0.81	<2	<2	6	54	<0.5	<3	<3	8	0.45
MF0866-050	Drill Core	2.65	<0.005	1	7	5	32	<0.3	<1	<1	196	0.75	3	<2	6	43	<0.5	<3	<3	4	0.70
REP MF0866-050	QC		<0.005																		
Core Reject Duplicates																					
MF0866-024	Drill Core	2.86	0.005	18	6	6	22	<0.3	<1	<1	140	0.59	<2	<2	11	64	<0.5	<3	<3	4	0.66
DUP MF0866-024	QC		<0.005	23	5	5	22	<0.3	<1	<1	137	0.55	<2	<2	10	62	<0.5	<3	<3	4	0.65
Reference Materials																					
STD DS8	Standard			14	106	120	322	1.5	37	6	612	2.42	26	<2	7	64	1.6	7	6	39	0.67
STD DS8	Standard			15	111	119	345	1.9	39	6	630	2.63	25	<2	6	68	2.5	5	4	44	0.75
STD OREAS45CA	Standard			<1	504	11	62	<0.3	249	86	974	15.67	6	<2	8	15	<0.5	<3	<3	211	0.44
STD OREAS45CA	Standard			1	523	16	71	<0.3	256	93	951	17.55	<2	<2	4	15	<0.5	<3	<3	209	0.45
STD OXH82	Standard		1.297																		
STD OXH82	Standard		1.363																		
STD OXH82	Standard		1.299																		
STD OXK79	Standard		3.304																		
STD OXK79	Standard		3.308																		
STD OXK79	Standard		3.504																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003909.1

		Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
		Unit	%	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	5	5
Pulp Duplicates																
MF0866-002	Drill Core		0.032	22	18	0.49	60	0.056	<20	0.96	0.03	0.75	<2	1.06	<5	11
REP MF0866-002	QC															
MF0866-011	Drill Core		0.035	25	48	1.13	142	0.202	<20	1.99	0.03	1.74	<2	0.58	<5	34
REP MF0866-011	QC		0.035	26	48	1.13	142	0.205	<20	2.02	0.03	1.75	<2	0.56	<5	36
MF0866-044	Drill Core		0.033	11	1	0.13	80	0.038	<20	0.46	0.04	0.26	<2	0.27	<5	5
REP MF0866-044	QC		0.032	11	<1	0.13	79	0.039	<20	0.46	0.04	0.26	<2	0.28	<5	<5
MF0866-050	Drill Core		0.035	13	<1	0.07	80	0.007	<20	0.32	0.03	0.19	<2	0.40	<5	<5
REP MF0866-050	QC															
Core Reject Duplicates																
MF0866-024	Drill Core		0.023	15	2	0.07	82	0.021	<20	0.36	0.05	0.25	<2	0.22	<5	<5
DUP MF0866-024	QC		0.022	15	1	0.07	80	0.021	<20	0.33	0.05	0.24	<2	0.23	<5	<5
Reference Materials																
STD DS8	Standard		0.079	13	110	0.61	291	0.111	<20	0.94	0.08	0.41	<2	0.16	<5	6
STD DS8	Standard		0.084	15	129	0.64	308	0.116	<20	0.97	0.10	0.43	<2	0.17	<5	21
STD OREAS45CA	Standard		0.038	14	748	0.13	163	0.139	<20	3.73	<0.01	0.07	<2	<0.05	45	21
STD OREAS45CA	Standard		0.042	17	764	0.14	169	0.135	<20	3.92	<0.01	0.08	<2	<0.05	46	30
STD OXH82	Standard															
STD OXH82	Standard															
STD OXH82	Standard															
STD OXK79	Standard															
STD OXK79	Standard															
STD OXK79	Standard															
STD OXH82 Expected																
STD OXK79 Expected																
STD DS8 Expected			0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected			0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank															
BLK	Blank															

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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003909.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.005	<1	2	<3	50	<0.3	2	2	591	2.16	<2	<2	4	77	<0.5	<3	<3	40	0.57
G1	Prep Blank	<0.01	<0.005	<1	2	<3	50	<0.3	2	2	571	2.11	<2	<2	5	72	<0.5	<3	<3	40	0.54

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Project: MacFarlane
Report Date: September 09, 2011

QUALITY CONTROL REPORT VAN11003909.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.085	14	4	0.53	136	0.126	<20	0.97	0.09	0.47	<2	<0.05	<5	21
G1	Prep Blank	0.082	13	4	0.52	133	0.120	<20	0.93	0.08	0.46	<2	<0.05	<5	21

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Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: September 11, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN11003910.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-003
P.O. Number
Number of Samples: 51

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	48	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
G601	51	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	51	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. 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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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003910.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0850-001	Drill Core	1.75	<0.005	31	60	<3	104	<0.3	33	13	535	4.39	<2	<2	17	8	<0.5	<3	<3	25	0.11
MF0850-002	Drill Core	2.07	<0.005	12	109	3	61	<0.3	30	11	448	3.19	<2	<2	9	4	<0.5	<3	<3	12	0.08
MF0850-003	Drill Core	2.25	0.005	38	40	7	102	<0.3	39	14	570	4.17	<2	<2	16	11	<0.5	<3	<3	21	0.11
MF0850-004	Drill Core	2.50	<0.005	9	31	<3	6	<0.3	8	5	62	0.67	<2	<2	<2	2	<0.5	<3	<3	1	0.03
MF0850-005	Drill Core	2.52	<0.005	7	34	<3	75	<0.3	41	15	440	3.04	<2	<2	11	6	<0.5	<3	<3	18	0.11
MF0850-006	Drill Core	2.41	<0.005	9	26	<3	99	<0.3	51	16	427	3.80	<2	<2	14	5	<0.5	<3	<3	20	0.07
MF0850-007	Drill Core	1.52	0.005	15	13	<3	48	<0.3	25	5	70	1.63	<2	<2	12	3	<0.5	<3	<3	12	0.03
MF0850-008	Drill Core	1.65	0.007	27	24	4	22	<0.3	7	4	91	1.43	<2	<2	4	1	<0.5	<3	<3	5	<0.01
MF0850-009	Drill Core	2.13	0.006	21	16	4	46	<0.3	22	7	342	1.74	<2	<2	8	3	<0.5	<3	4	9	0.02
MF0850-010	Drill Core	2.03	0.006	449	34	5	57	<0.3	40	11	367	2.76	<2	<2	13	7	<0.5	<3	<3	26	0.09
MF0850-011	Drill Core	1.70	0.014	5	21	3	128	<0.3	65	20	559	5.09	<2	<2	16	8	<0.5	<3	<3	42	0.13
MF0850-012	Drill Core	1.37	<0.005	2	60	5	101	<0.3	83	23	693	4.83	<2	<2	13	15	<0.5	<3	<3	55	0.37
MF0850-013	Drill Core	5.02	0.017	58	15	<3	32	<0.3	16	5	263	1.45	<2	<2	5	5	<0.5	<3	<3	11	0.15
MF0850-014	Drill Core	3.22	0.006	1	45	<3	111	<0.3	68	23	743	4.68	<2	<2	13	19	<0.5	<3	<3	43	0.51
MF0850-015	Drill Core	2.65	0.019	177	54	4	82	<0.3	10	3	325	1.88	<2	<2	9	87	<0.5	<3	<3	12	0.86
MF0850-016	Drill Core	2.28	0.007	735	15	76	62	2.7	1	2	235	1.92	<2	<2	9	68	<0.5	<3	7	9	0.83
MF0850-017	Drill Core	2.29	0.009	149	7	9	70	<0.3	<1	<1	248	1.11	<2	<2	10	74	0.6	<3	5	9	0.82
MF0850-018	Drill Core	2.73	0.006	5	5	<3	58	<0.3	<1	<1	261	1.02	<2	<2	10	71	<0.5	<3	<3	11	0.85
MF0850-019	Drill Core	2.89	0.018	43	10	12	87	<0.3	<1	<1	302	1.06	<2	<2	12	123	0.5	<3	4	10	1.00
MF0850-020	Drill Core	2.62	0.007	10	9	4	66	<0.3	<1	<1	229	1.15	<2	<2	10	87	<0.5	<3	<3	14	0.61
MF0850-020S	Rock Pulp	0.04	0.649	265	4696	18	20	7.9	7	5	229	1.25	4	<2	2	266	<0.5	6	<3	9	0.63
MF0850-020B	Rock Chip	0.22	0.005	<1	3	4	43	<0.3	2	1	519	1.92	<2	<2	6	83	<0.5	<3	<3	36	0.62
MF0850-021	Drill Core	2.61	<0.005	1	6	10	71	<0.3	<1	<1	261	1.31	<2	<2	9	73	<0.5	<3	5	18	0.54
MF0850-022	Drill Core	2.81	0.033	87	4	5	47	<0.3	<1	<1	199	1.09	<2	<2	10	58	<0.5	<3	4	13	0.53
MF0850-023	Drill Core	2.29	<0.005	<1	7	6	61	<0.3	<1	<1	232	1.09	<2	<2	11	51	<0.5	<3	<3	10	0.50
MF0850-024	Drill Core	3.16	0.006	997	5	15	46	<0.3	<1	<1	148	1.03	<2	<2	9	48	<0.5	<3	<3	10	0.45
MF0850-025	Drill Core	2.42	<0.005	335	7	7	42	<0.3	<1	<1	152	0.86	<2	<2	9	47	<0.5	<3	<3	8	0.40
MF0850-026	Drill Core	2.81	0.006	17	2	7	30	<0.3	<1	<1	114	0.67	<2	<2	9	39	<0.5	<3	<3	7	0.33
MF0850-027	Drill Core	2.71	<0.005	26	4	10	35	<0.3	<1	<1	218	0.88	<2	<2	8	73	<0.5	<3	<3	7	0.88
MF0850-028	Drill Core	2.85	0.006	25	2	6	67	<0.3	<1	<1	270	1.20	<2	<2	9	88	<0.5	<3	<3	14	0.75

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Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003910.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0850-001	Drill Core	0.062	31	40	1.45	25	0.025	<20	2.81	0.03	0.19	<2	<0.05	<5	12
MF0850-002	Drill Core	0.025	13	21	0.80	22	0.015	<20	1.52	0.02	0.16	<2	1.12	<5	6
MF0850-003	Drill Core	0.051	26	34	1.39	27	0.018	<20	2.77	0.02	0.18	<2	0.11	<5	9
MF0850-004	Drill Core	0.004	<1	7	0.09	<1	<0.001	<20	0.11	<0.01	<0.01	<2	0.28	<5	<5
MF0850-005	Drill Core	0.040	18	29	0.99	26	0.014	<20	1.94	0.02	0.18	<2	0.16	<5	6
MF0850-006	Drill Core	0.035	24	33	1.27	23	0.014	<20	2.38	0.02	0.20	<2	0.08	<5	7
MF0850-007	Drill Core	0.018	18	20	0.41	55	0.061	<20	0.98	0.03	0.68	<2	0.13	<5	10
MF0850-008	Drill Core	0.005	4	10	0.26	10	0.007	<20	0.52	<0.01	0.15	<2	0.35	<5	<5
MF0850-009	Drill Core	0.012	16	18	0.48	35	0.028	<20	0.97	0.01	0.30	<2	0.07	<5	<5
MF0850-010	Drill Core	0.028	11	42	0.80	17	0.023	<20	1.59	0.07	0.20	<2	0.49	<5	7
MF0850-011	Drill Core	0.053	29	66	1.83	26	0.023	<20	3.40	0.02	0.18	<2	0.06	<5	14
MF0850-012	Drill Core	0.103	21	87	1.80	34	0.046	<20	3.09	0.06	0.33	<2	0.42	<5	16
MF0850-013	Drill Core	0.022	6	20	0.39	19	0.025	<20	0.72	0.02	0.19	<2	0.25	<5	6
MF0850-014	Drill Core	0.054	15	67	1.69	25	0.035	<20	3.07	0.04	0.16	<2	0.28	<5	13
MF0850-015	Drill Core	0.064	21	13	0.32	97	0.057	<20	0.87	0.04	0.44	<2	0.85	<5	11
MF0850-016	Drill Core	0.056	26	3	0.15	74	0.042	<20	0.58	0.04	0.29	<2	1.57	<5	7
MF0850-017	Drill Core	0.054	26	2	0.19	99	0.048	<20	0.71	0.04	0.34	<2	0.56	<5	9
MF0850-018	Drill Core	0.065	24	3	0.20	133	0.059	<20	0.67	0.04	0.39	<2	0.26	<5	13
MF0850-019	Drill Core	0.063	30	3	0.19	159	0.061	<20	0.66	0.04	0.39	<2	0.46	<5	12
MF0850-020	Drill Core	0.060	22	2	0.27	153	0.088	<20	0.74	0.05	0.40	<2	0.23	<5	15
MF0850-020S	Rock Pulp	0.022	5	11	0.10	210	0.008	<20	0.36	0.03	0.18	<2	0.60	<5	<5
MF0850-020B	Rock Chip	0.070	13	5	0.48	125	0.110	<20	0.91	0.09	0.41	<2	<0.05	<5	20
MF0850-021	Drill Core	0.063	24	3	0.31	185	0.100	<20	0.80	0.06	0.47	<2	0.13	<5	17
MF0850-022	Drill Core	0.049	21	5	0.21	150	0.067	<20	0.63	0.05	0.37	<2	0.27	<5	12
MF0850-023	Drill Core	0.051	13	3	0.21	72	0.059	<20	0.64	0.05	0.30	<2	0.30	<5	12
MF0850-024	Drill Core	0.035	12	3	0.18	55	0.049	<20	0.57	0.05	0.25	<2	0.39	<5	10
MF0850-025	Drill Core	0.034	14	3	0.15	54	0.038	<20	0.58	0.04	0.25	<2	0.25	<5	8
MF0850-026	Drill Core	0.026	11	3	0.11	44	0.036	<20	0.45	0.05	0.23	<2	0.14	<5	7
MF0850-027	Drill Core	0.043	15	4	0.12	58	0.036	<20	0.51	0.03	0.28	<2	0.32	<5	7
MF0850-028	Drill Core	0.056	23	2	0.30	118	0.079	<20	0.84	0.05	0.33	<2	0.17	<5	15

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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003910.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0850-029	Drill Core	2.64	0.005	3	3	7	67	<0.3	<1	<1	248	1.20	<2	<2	10	73	<0.5	<3	<3	15	0.55
MF0850-030	Drill Core	3.14	0.010	3	5	8	32	<0.3	<1	<1	133	0.50	<2	<2	9	31	<0.5	<3	<3	4	0.44
MF0850-031	Drill Core	2.75	<0.005	<1	1	4	54	<0.3	<1	<1	216	1.29	<2	<2	10	61	<0.5	<3	<3	19	0.43
MF0850-032	Drill Core	2.96	0.009	19	2	4	63	<0.3	1	<1	240	1.36	<2	<2	9	73	<0.5	<3	<3	19	0.49
MF0850-033	Drill Core	2.16	<0.005	1	1	<3	64	<0.3	1	1	248	1.35	<2	<2	9	67	<0.5	<3	<3	19	0.51
MF0850-034	Drill Core	2.95	<0.005	1358	3	10	19	<0.3	<1	<1	186	0.60	<2	<2	7	62	<0.5	<3	<3	6	0.87
MF0850-035	Drill Core	2.94	<0.005	623	6	12	31	<0.3	<1	2	355	0.96	2	<2	9	132	<0.5	<3	<3	7	1.70
MF0850-036	Drill Core	3.06	<0.005	2	3	6	65	<0.3	1	1	266	1.37	<2	<2	7	116	<0.5	<3	<3	18	0.66
MF0850-037	Drill Core	2.71	<0.005	3	3	<3	64	<0.3	1	2	260	1.22	<2	<2	7	90	<0.5	<3	4	17	0.58
MF0850-038	Drill Core	2.82	<0.005	1	3	4	55	<0.3	<1	<1	271	1.50	<2	<2	8	154	<0.5	<3	<3	20	0.40
MF0850-039	Drill Core	2.76	<0.005	43	2	7	63	<0.3	1	<1	240	1.42	<2	<2	9	103	<0.5	<3	<3	18	0.54
MF0850-040	Drill Core	3.07	<0.005	<1	<1	7	54	<0.3	<1	<1	177	1.13	<2	<2	7	102	<0.5	<3	<3	15	0.49
MF0850-040S	Rock Pulp	0.04	0.638	246	4799	20	10	6.5	7	5	227	1.24	4	<2	<2	271	<0.5	9	<3	9	0.63
MF0850-041	Drill Core	2.72	<0.005	<1	5	8	70	<0.3	<1	<1	221	1.20	<2	<2	8	137	<0.5	<3	<3	16	0.61
MF0850-042	Drill Core	3.23	<0.005	<1	8	6	84	<0.3	<1	<1	284	1.27	<2	<2	10	92	<0.5	<3	<3	18	0.56
MF0850-043	Drill Core	2.69	<0.005	485	7	11	53	<0.3	<1	<1	218	1.33	<2	<2	7	70	<0.5	<3	<3	11	0.64
MF0850-044	Drill Core	2.81	<0.005	<1	8	7	180	<0.3	<1	<1	321	1.02	<2	<2	10	91	2.1	<3	<3	9	1.18
MF0850-045	Drill Core	2.52	<0.005	1	13	5	29	<0.3	<1	1	305	0.82	<2	<2	9	119	<0.5	<3	<3	5	1.37
MF0850-046	Drill Core	2.78	<0.005	15	13	11	73	<0.3	<1	1	321	0.93	<2	<2	9	233	0.9	<3	<3	5	1.31
MF0850-047	Drill Core	2.57	<0.005	210	21	20	31	0.5	<1	1	311	1.04	<2	<2	6	271	0.7	<3	<3	3	1.52
MF0850-048	Drill Core	2.59	<0.005	4	18	7	58	<0.3	<1	<1	306	1.01	<2	<2	7	122	<0.5	<3	<3	8	1.32

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003910.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0850-029	Drill Core	0.057	20	4	0.29	140	0.088	<20	0.78	0.05	0.40	<2	0.13	<5	16
MF0850-030	Drill Core	0.021	7	2	0.08	33	0.024	<20	0.33	0.05	0.20	<2	0.22	<5	6
MF0850-031	Drill Core	0.054	23	3	0.31	187	0.101	<20	0.75	0.06	0.45	<2	<0.05	<5	18
MF0850-032	Drill Core	0.059	24	3	0.35	167	0.108	<20	0.80	0.05	0.40	<2	0.06	<5	9
MF0850-033	Drill Core	0.059	26	3	0.33	178	0.100	<20	0.80	0.05	0.44	<2	<0.05	<5	6
MF0850-034	Drill Core	0.031	22	1	0.05	162	0.004	<20	0.46	0.02	0.28	<2	0.34	<5	<5
MF0850-035	Drill Core	0.061	28	1	0.10	279	0.014	<20	0.62	0.02	0.37	<2	0.65	<5	5
MF0850-036	Drill Core	0.065	25	2	0.36	187	0.104	<20	0.84	0.05	0.44	<2	0.06	<5	7
MF0850-037	Drill Core	0.063	24	3	0.34	169	0.100	<20	0.80	0.05	0.42	<2	0.07	<5	8
MF0850-038	Drill Core	0.066	24	2	0.36	209	0.115	<20	0.82	0.07	0.56	<2	<0.05	<5	20
MF0850-039	Drill Core	0.066	24	2	0.33	159	0.111	<20	0.84	0.06	0.46	<2	0.08	<5	19
MF0850-040	Drill Core	0.054	20	2	0.25	118	0.090	<20	0.70	0.05	0.35	<2	<0.05	<5	16
MF0850-040S	Rock Pulp	0.022	5	12	0.10	206	0.008	<20	0.35	0.03	0.18	<2	0.60	<5	<5
MF0850-041	Drill Core	0.064	23	2	0.27	115	0.094	<20	0.76	0.05	0.35	<2	0.13	<5	18
MF0850-042	Drill Core	0.068	23	3	0.29	132	0.094	<20	0.79	0.06	0.41	<2	0.15	<5	19
MF0850-043	Drill Core	0.053	25	3	0.20	84	0.058	<20	0.62	0.04	0.31	<2	0.60	<5	12
MF0850-044	Drill Core	0.059	23	2	0.16	70	0.030	<20	0.67	0.04	0.29	2	0.26	<5	11
MF0850-045	Drill Core	0.052	21	<1	0.11	112	0.010	<20	0.53	0.04	0.29	<2	0.34	<5	5
MF0850-046	Drill Core	0.052	23	2	0.09	179	0.015	<20	0.50	0.03	0.30	<2	0.69	<5	8
MF0850-047	Drill Core	0.060	34	2	0.05	368	0.006	<20	0.48	0.02	0.30	<2	0.97	<5	<5
MF0850-048	Drill Core	0.062	26	1	0.15	47	0.024	<20	0.64	0.03	0.27	2	0.50	<5	10

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003910.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
REP MF0850-024	QC			1006	5	11	45	<0.3	<1	<1	147	1.04	<2	<2	8	47	<0.5	<3	<3	10	0.45
Core Reject Duplicates																					
MF0850-024	Drill Core	3.16	0.006	997	5	15	46	<0.3	<1	<1	148	1.03	<2	<2	9	48	<0.5	<3	<3	10	0.45
DUP MF0850-024	QC		0.019	844	5	12	46	<0.3	<1	<1	147	1.01	<2	<2	7	48	<0.5	<3	<3	10	0.44
Reference Materials																					
STD DS8	Standard			14	106	120	322	1.5	37	6	612	2.42	26	<2	7	64	1.6	7	6	39	0.67
STD DS8	Standard			15	103	110	320	1.8	38	5	597	2.46	23	<2	8	64	2.1	4	5	42	0.71
STD DS8	Standard			15	108	121	336	1.3	40	6	623	2.58	25	<2	6	65	2.5	3	4	44	0.74
STD OREAS45CA	Standard			<1	504	11	62	<0.3	249	86	974	15.67	6	<2	8	15	<0.5	<3	<3	211	0.44
STD OREAS45CA	Standard			2	511	20	65	<0.3	251	90	903	15.54	<2	<2	8	14	<0.5	<3	<3	200	0.42
STD OREAS45CA	Standard			1	521	20	56	<0.3	257	93	926	16.30	<2	<2	3	14	<0.5	<3	<3	212	0.43
STD OXH82	Standard		1.316																		
STD OXH82	Standard		1.297																		
STD OXH82	Standard		1.268																		
STD OXH82	Standard		1.330																		
STD OXH82	Standard		1.299																		
STD OXK79	Standard		3.543																		
STD OXK79	Standard		3.304																		
STD OXK79	Standard		3.316																		
STD OXK79	Standard		3.705																		
STD OXK79	Standard		3.504																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		0.008																		
BLK	Blank		0.006																		
BLK	Blank		<0.005																		

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QUALITY CONTROL REPORT VAN11003910.1

		Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
		Unit	%	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	5	5
Pulp Duplicates																
REP MF0850-024	QC		0.037	12	3	0.18	54	0.048	<20	0.56	0.05	0.26	<2	0.40	<5	10
Core Reject Duplicates																
MF0850-024	Drill Core		0.035	12	3	0.18	55	0.049	<20	0.57	0.05	0.25	<2	0.39	<5	10
DUP MF0850-024	QC		0.036	12	3	0.18	55	0.048	<20	0.57	0.05	0.25	<2	0.36	<5	10
Reference Materials																
STD DS8	Standard		0.079	13	110	0.61	291	0.111	<20	0.94	0.08	0.41	<2	0.16	<5	6
STD DS8	Standard		0.078	14	124	0.60	290	0.109	<20	0.92	0.09	0.41	<2	0.16	<5	20
STD DS8	Standard		0.083	15	124	0.63	310	0.116	<20	0.94	0.09	0.42	5	0.17	<5	19
STD OREAS45CA	Standard		0.038	14	748	0.13	163	0.139	<20	3.73	<0.01	0.07	<2	<0.05	45	21
STD OREAS45CA	Standard		0.039	17	777	0.14	160	0.124	<20	3.83	<0.01	0.08	<2	<0.05	43	30
STD OREAS45CA	Standard		0.040	18	786	0.13	160	0.135	<20	3.84	<0.01	0.08	<2	<0.05	47	32
STD OXH82	Standard															
STD OXH82	Standard															
STD OXH82	Standard															
STD OXH82	Standard															
STD OXH82	Standard															
STD OXK79	Standard															
STD OXK79	Standard															
STD OXK79	Standard															
STD OXK79	Standard															
STD OXK79	Standard															
STD OXH82 Expected																
STD OXK79 Expected																
STD DS8 Expected			0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected			0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank															
BLK	Blank															
BLK	Blank															

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Project: MacFarlane
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QUALITY CONTROL REPORT VAN11003910.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		0.010																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.005	<1	1	<3	47	<0.3	1	1	553	2.00	<2	<2	6	71	<0.5	<3	<3	39	0.55
G1	Prep Blank	<0.01	<0.005	<1	1	4	47	<0.3	2	1	549	1.99	<2	<2	8	75	<0.5	<3	<3	39	0.55

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QUALITY CONTROL REPORT VAN11003910.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.078	14	4	0.48	117	0.119	<20	0.90	0.09	0.44	<2	<0.05	<5	22
G1	Prep Blank	0.078	14	4	0.47	121	0.113	<20	0.90	0.09	0.43	<2	<0.05	<5	20

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 12, 2011
Report Date: September 11, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN11003911.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-004
P.O. Number
Number of Samples: 34

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	32	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
G601	34	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	34	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003911.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0851-001	Drill Core	2.32	<0.005	1	3	4	36	<0.3	<1	<1	231	0.91	<2	<2	5	41	<0.5	<3	<3	10	0.79
MF0851-002	Drill Core	2.65	<0.005	14	11	<3	31	<0.3	<1	<1	243	0.76	<2	<2	5	67	<0.5	<3	<3	6	1.12
MF0851-003	Drill Core	2.40	<0.005	109	2	7	113	<0.3	1	<1	270	0.99	<2	<2	2	57	1.1	<3	<3	10	0.88
MF0851-004	Drill Core	2.24	<0.005	882	18	15	64	0.3	<1	2	206	1.36	<2	<2	<2	64	0.7	<3	8	6	0.86
MF0851-005	Drill Core	3.04	<0.005	2	3	4	76	<0.3	1	<1	328	1.37	<2	<2	3	85	<0.5	<3	<3	16	0.82
MF0851-006	Drill Core	2.86	<0.005	565	2	<3	65	<0.3	1	<1	254	1.63	<2	<2	3	55	<0.5	<3	<3	19	0.44
MF0851-007	Drill Core	2.97	<0.005	77	4	4	61	<0.3	1	<1	266	1.19	<2	<2	3	59	<0.5	<3	<3	15	0.68
MF0851-008	Drill Core	2.76	<0.005	<1	4	<3	69	<0.3	<1	<1	280	1.43	<2	<2	3	66	<0.5	<3	<3	20	0.58
MF0851-009	Drill Core	2.99	<0.005	2	2	<3	63	<0.3	1	<1	273	1.48	<2	<2	3	72	<0.5	<3	<3	20	0.62
MF0851-010	Drill Core	2.95	0.005	<1	6	5	92	<0.3	1	<1	288	1.24	<2	<2	3	89	1.3	<3	3	12	1.06
MF0851-011	Drill Core	2.72	<0.005	413	4	6	73	<0.3	1	<1	266	1.30	<2	<2	3	68	<0.5	<3	<3	18	0.64
MF0851-012	Drill Core	2.86	<0.005	>2000	63	29	48	1.2	1	3	188	2.52	<2	2	2	60	<0.5	<3	<3	13	0.66
MF0851-013	Drill Core	2.82	<0.005	3	<1	6	67	<0.3	1	<1	266	1.53	<2	<2	4	66	<0.5	<3	<3	23	0.45
MF0851-014	Drill Core	3.29	<0.005	4	2	9	84	<0.3	1	<1	273	1.38	<2	<2	3	67	0.5	<3	<3	18	0.69
MF0851-015	Drill Core	3.16	<0.005	6	2	<3	70	<0.3	1	<1	276	1.54	<2	<2	<2	68	<0.5	<3	<3	21	0.54
MF0851-016	Drill Core	2.74	<0.005	<1	1	<3	67	<0.3	1	<1	283	1.45	<2	<2	3	48	<0.5	<3	<3	21	0.40
MF0851-017	Drill Core	2.54	0.005	66	9	<3	64	<0.3	<1	<1	187	0.80	<2	<2	<2	63	1.1	<3	<3	6	0.71
MF0851-018	Drill Core	2.73	<0.005	623	10	4	22	<0.3	<1	<1	124	0.50	<2	<2	<2	42	<0.5	<3	<3	3	0.55
MF0851-019	Drill Core	2.77	<0.005	3	1	<3	67	<0.3	1	<1	280	1.49	<2	<2	<2	59	<0.5	<3	<3	20	0.52
MF0851-020	Drill Core	2.37	0.007	<1	3	<3	57	<0.3	1	<1	300	1.38	<2	<2	3	69	<0.5	<3	<3	18	0.77
MF0851-020S	Rock Pulp	0.03	0.071	389	8705	42	32	33.1	2	<1	242	0.91	23	<2	<2	158	<0.5	33	<3	6	1.02
MF0851-020B	Rock Chip	0.19	<0.005	3	<1	<3	46	<0.3	2	1	551	2.03	<2	<2	2	84	<0.5	<3	<3	37	0.62
MF0851-021	Drill Core	2.22	<0.005	<1	1	<3	66	<0.3	1	<1	289	1.52	<2	<2	3	58	<0.5	<3	<3	20	0.61
MF0851-022	Drill Core	3.16	<0.005	<1	2	<3	65	<0.3	1	<1	279	1.33	<2	<2	3	72	<0.5	<3	<3	17	0.73
MF0851-023	Drill Core	1.85	<0.005	<1	3	5	57	<0.3	<1	1	399	1.21	<2	<2	3	77	<0.5	<3	<3	13	1.98
MF0851-024	Drill Core	2.66	<0.005	<1	2	4	70	<0.3	1	<1	279	1.42	<2	<2	2	59	<0.5	<3	<3	19	0.55
MF0851-025	Drill Core	2.67	<0.005	<1	6	8	62	<0.3	<1	<1	309	1.12	<2	<2	4	82	<0.5	<3	<3	12	1.12
MF0851-026	Drill Core	2.33	<0.005	<1	3	5	51	<0.3	<1	<1	264	1.12	<2	<2	4	53	<0.5	<3	<3	8	0.72
MF0851-027	Drill Core	2.56	<0.005	326	11	5	52	<0.3	1	2	232	1.81	<2	<2	<2	52	<0.5	<3	<3	10	0.63
MF0851-028	Drill Core	1.95	<0.005	18	5	5	68	<0.3	<1	1	267	1.03	<2	<2	4	77	<0.5	<3	<3	7	1.19

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Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003911.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0851-001	Drill Core	0.040	20	<1	0.14	49	0.027	<20	0.54	0.04	0.26	<2	0.10	<5	9
MF0851-002	Drill Core	0.043	29	1	0.10	37	0.006	<20	0.53	0.03	0.25	<2	0.21	<5	<5
MF0851-003	Drill Core	0.046	23	3	0.18	54	0.024	<20	0.66	0.03	0.26	<2	0.12	<5	9
MF0851-004	Drill Core	0.042	24	<1	0.09	215	0.011	<20	0.48	0.03	0.24	<2	1.08	<5	6
MF0851-005	Drill Core	0.063	23	2	0.30	384	0.078	<20	0.75	0.05	0.34	<2	0.28	<5	15
MF0851-006	Drill Core	0.057	19	1	0.30	187	0.093	<20	0.75	0.06	0.46	<2	0.45	<5	18
MF0851-007	Drill Core	0.066	29	1	0.24	125	0.059	<20	0.70	0.04	0.39	<2	0.17	<5	12
MF0851-008	Drill Core	0.069	24	1	0.35	201	0.103	<20	0.82	0.06	0.49	<2	0.10	<5	18
MF0851-009	Drill Core	0.067	26	3	0.34	229	0.097	<20	0.81	0.06	0.45	<2	0.07	<5	20
MF0851-010	Drill Core	0.069	32	1	0.20	249	0.059	<20	0.65	0.04	0.41	<2	0.45	<5	13
MF0851-011	Drill Core	0.069	29	2	0.29	319	0.083	<20	0.77	0.05	0.48	<2	0.16	<5	17
MF0851-012	Drill Core	0.043	17	2	0.15	137	0.039	<20	0.56	0.03	0.34	<2	2.30	<5	9
MF0851-013	Drill Core	0.066	29	2	0.37	233	0.119	<20	0.91	0.08	0.55	<2	<0.05	<5	24
MF0851-014	Drill Core	0.063	28	2	0.30	196	0.083	<20	0.79	0.05	0.41	<2	0.14	<5	18
MF0851-015	Drill Core	0.065	24	2	0.35	221	0.109	<20	0.86	0.06	0.49	<2	0.11	<5	20
MF0851-016	Drill Core	0.060	25	2	0.35	213	0.103	<20	0.84	0.06	0.51	<2	<0.05	<5	19
MF0851-017	Drill Core	0.033	18	1	0.10	99	0.025	<20	0.40	0.02	0.25	31	0.26	<5	6
MF0851-018	Drill Core	0.015	8	2	0.03	25	0.007	<20	0.22	0.01	0.14	<2	0.28	<5	<5
MF0851-019	Drill Core	0.062	26	3	0.33	206	0.103	<20	0.83	0.07	0.52	<2	0.06	<5	21
MF0851-020	Drill Core	0.064	26	2	0.29	181	0.083	<20	0.74	0.05	0.43	2	0.11	<5	15
MF0851-020S	Rock Pulp	0.010	3	15	0.05	134	0.002	<20	0.36	0.02	0.23	<2	0.98	<5	<5
MF0851-020B	Rock Chip	0.071	13	3	0.49	134	0.113	<20	0.96	0.11	0.44	<2	<0.05	<5	19
MF0851-021	Drill Core	0.060	27	2	0.35	188	0.096	<20	0.85	0.06	0.47	<2	<0.05	<5	19
MF0851-022	Drill Core	0.058	26	2	0.30	107	0.067	<20	0.74	0.05	0.30	<2	0.08	<5	14
MF0851-023	Drill Core	0.056	28	2	0.19	62	0.017	<20	0.67	0.04	0.20	<2	0.23	<5	9
MF0851-024	Drill Core	0.061	23	3	0.32	147	0.098	<20	0.75	0.06	0.40	<2	0.11	<5	17
MF0851-025	Drill Core	0.060	22	<1	0.20	68	0.053	<20	0.69	0.03	0.31	<2	0.24	<5	11
MF0851-026	Drill Core	0.041	16	<1	0.17	31	0.031	<20	0.55	0.04	0.20	<2	0.44	<5	8
MF0851-027	Drill Core	0.043	15	1	0.19	30	0.039	<20	0.55	0.03	0.14	<2	1.11	<5	8
MF0851-028	Drill Core	0.048	25	2	0.14	39	0.019	<20	0.55	0.03	0.24	<2	0.36	<5	7

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Project: MacFarlane
Report Date: September 11, 2011

CERTIFICATE OF ANALYSIS VAN11003911.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF0851-029	Drill Core	2.70	<0.005	2	6	8	69	<0.3	<1	<1	305	1.17	<2	<2	4	78	<0.5	<3	<3	12	1.11
MF0851-030	Drill Core	3.10	<0.005	<1	19	41	78	1.5	1	2	282	2.26	<2	<2	9	78	0.7	<3	<3	11	0.80
MF0851-031	Drill Core	3.13	<0.005	<1	6	8	72	<0.3	<1	<1	319	1.21	<2	<2	6	74	<0.5	<3	<3	10	0.98
MF0851-032	Drill Core	2.14	<0.005	<1	2	<3	54	<0.3	<1	<1	282	1.29	<2	<2	8	80	<0.5	<3	<3	16	0.82

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Project: MacFarlane
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CERTIFICATE OF ANALYSIS VAN11003911.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF0851-029	Drill Core	0.057	24	2	0.21	53	0.047	<20	0.68	0.04	0.27	<2	0.19	<5	13
MF0851-030	Drill Core	0.056	31	1	0.19	83	0.047	<20	0.62	0.04	0.31	<2	1.68	<5	11
MF0851-031	Drill Core	0.068	27	3	0.19	56	0.046	<20	0.64	0.04	0.24	<2	0.52	<5	10
MF0851-032	Drill Core	0.056	28	1	0.28	91	0.075	<20	0.76	0.05	0.29	2	0.14	<5	16

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Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003911.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF0851-001	Drill Core	2.32	<0.005	1	3	4	36	<0.3	<1	<1	231	0.91	<2	<2	5	41	<0.5	<3	<3	10	0.79
REP MF0851-001	QC		<0.005																		
MF0851-009	Drill Core	2.99	<0.005	2	2	<3	63	<0.3	1	<1	273	1.48	<2	<2	3	72	<0.5	<3	<3	20	0.62
REP MF0851-009	QC			2	2	<3	63	<0.3	1	<1	269	1.44	<2	<2	2	72	<0.5	<3	<3	20	0.62
MF0851-032	Drill Core	2.14	<0.005	<1	2	<3	54	<0.3	<1	<1	282	1.29	<2	<2	8	80	<0.5	<3	<3	16	0.82
REP MF0851-032	QC			<1	2	3	54	<0.3	<1	<1	285	1.30	<2	<2	7	81	<0.5	<3	<3	16	0.83
Core Reject Duplicates																					
MF0851-027	Drill Core	2.56	<0.005	326	11	5	52	<0.3	1	2	232	1.81	<2	<2	<2	52	<0.5	<3	<3	10	0.63
DUP MF0851-027	QC		<0.005	288	11	5	51	<0.3	1	2	237	1.91	<2	<2	<2	55	<0.5	<3	<3	10	0.65
Reference Materials																					
STD DS8	Standard			14	109	117	334	1.9	39	5	619	2.54	25	<2	2	65	2.4	5	<3	43	0.72
STD DS8	Standard			15	108	121	336	1.3	40	6	623	2.58	25	<2	6	65	2.5	3	4	44	0.74
STD OREAS45CA	Standard			3	518	18	69	0.3	256	93	941	16.69	<2	<2	<2	15	<0.5	<3	<3	211	0.45
STD OREAS45CA	Standard			1	521	20	56	<0.3	257	93	926	16.30	<2	<2	3	14	<0.5	<3	<3	212	0.43
STD OXH82	Standard		1.330																		
STD OXH82	Standard		1.268																		
STD OXH82	Standard		1.299																		
STD OXK79	Standard		3.556																		
STD OXK79	Standard		3.316																		
STD OXK79	Standard		3.504																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<0.005																		
BLK	Blank		0.007																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		

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Project: MacFarlane
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QUALITY CONTROL REPORT VAN11003911.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
MF0851-001	Drill Core	0.040	20	<1	0.14	49	0.027	<20	0.54	0.04	0.26	<2	0.10	<5	9
REP MF0851-001	QC														
MF0851-009	Drill Core	0.067	26	3	0.34	229	0.097	<20	0.81	0.06	0.45	<2	0.07	<5	20
REP MF0851-009	QC	0.066	26	2	0.34	226	0.099	<20	0.81	0.06	0.45	<2	0.07	<5	18
MF0851-032	Drill Core	0.056	28	1	0.28	91	0.075	<20	0.76	0.05	0.29	2	0.14	<5	16
REP MF0851-032	QC	0.056	28	<1	0.28	92	0.076	<20	0.77	0.05	0.29	<2	0.14	<5	15
Core Reject Duplicates															
MF0851-027	Drill Core	0.043	15	1	0.19	30	0.039	<20	0.55	0.03	0.14	<2	1.11	<5	8
DUP MF0851-027	QC	0.043	15	<1	0.20	32	0.041	<20	0.57	0.04	0.15	<2	1.18	<5	9
Reference Materials															
STD DS8	Standard	0.081	14	123	0.62	302	0.113	<20	0.94	0.09	0.42	3	0.17	<5	17
STD DS8	Standard	0.083	15	124	0.63	310	0.116	<20	0.94	0.09	0.42	5	0.17	<5	19
STD OREAS45CA	Standard	0.040	17	742	0.13	164	0.137	<20	3.70	<0.01	0.07	<2	<0.05	46	30
STD OREAS45CA	Standard	0.040	18	786	0.13	160	0.135	<20	3.84	<0.01	0.08	<2	<0.05	47	32
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														

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QUALITY CONTROL REPORT VAN11003911.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.005	<1	2	<3	45	<0.3	2	2	521	1.85	<2	<2	2	67	<0.5	<3	<3	35	0.50
G1	Prep Blank	<0.01	<0.005	<1	3	<3	48	<0.3	2	2	546	1.98	<2	<2	<2	75	<0.5	<3	<3	38	0.52

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 11, 2011

QUALITY CONTROL REPORT VAN11003911.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.069	11	4	0.47	121	0.110	<20	0.88	0.08	0.42	<2	<0.05	<5	18
G1	Prep Blank	0.074	11	4	0.50	121	0.113	<20	0.94	0.08	0.46	<2	<0.05	<5	19

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Cranbrook BC V1C 2R7 Canada

Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: October 27, 2011
Report Date: October 28, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN11003911R.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-004
P.O. Number
Number of Samples: 1

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
P200	1	Pulverize to 85% passing 200 mesh			VAN
8TD	1	4 Acid Digest AAS Finish	1	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. 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: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: October 28, 2011

CERTIFICATE OF ANALYSIS VAN11003911R.1

		Method	8TD
		Analyte	Mo
		Unit	%
		MDL	0.001
MF0851-012	Core Reject		0.250

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: October 28, 2011

QUALITY CONTROL REPORT VAN11003911R.1

		Method	8TD
		Analyte	Mo
		Unit	%
		MDL	0.001
Pulp Duplicates			
MF0851-012	Core Reject		0.250
REP MF0851-012	QC		0.250
Reference Materials			
STD CU148	Standard		0.230
STD MP-2	Standard		0.282
STD CU148 Expected			0.232
STD MP-2 Expected			0.281
BLK	Blank		<0.001
Prep Wash			
G1	Prep Blank		<0.001

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 26, 2011
Report Date: September 18, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN11004240.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-11-009
P.O. Number
Number of Samples: 142

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	133	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	3	Pulverize to 85% - 200 mesh			VAN
G601	142	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	142	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL 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. 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: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11004240.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-001	Drill Core	2.94	0.008	137	31	5	101	<0.3	58	22	653	4.55	<2	<2	13	24	<0.5	<3	4	44	1.08
MF08-30-002	Drill Core	2.13	0.009	<1	46	3	116	<0.3	68	26	711	4.66	<2	<2	13	26	<0.5	<3	<3	62	0.92
MF08-30-003	Drill Core	2.76	0.007	2	42	5	120	<0.3	68	26	637	4.94	<2	<2	13	17	<0.5	<3	<3	71	0.71
MF08-30-004	Drill Core	3.04	0.006	1	48	3	130	<0.3	75	30	517	5.50	<2	<2	15	9	<0.5	<3	<3	76	0.50
MF08-30-005	Drill Core	1.61	0.005	4	42	<3	124	<0.3	73	28	523	5.46	<2	<2	14	13	<0.5	<3	<3	88	0.68
MF08-30-006	Drill Core	2.53	<0.005	5	34	<3	112	<0.3	64	24	333	4.91	<2	<2	15	5	<0.5	<3	<3	61	0.31
MF08-30-007	Drill Core	3.03	0.006	1	29	<3	105	<0.3	59	23	446	4.23	<2	<2	14	8	<0.5	<3	<3	60	0.49
MF08-30-008	Drill Core	3.73	0.005	3	32	<3	143	<0.3	60	24	508	4.44	<2	<2	15	11	<0.5	<3	<3	67	0.69
MF08-30-009	Drill Core	4.43	<0.005	2	45	6	121	<0.3	71	27	450	5.33	<2	<2	12	11	<0.5	<3	<3	54	0.38
MF08-30-010	Drill Core	2.47	0.005	25	57	6	184	<0.3	79	30	732	6.02	<2	<2	10	27	<0.5	<3	<3	74	0.60
MF08-30-011	Drill Core	3.06	0.007	10	41	<3	135	<0.3	85	32	580	6.08	<2	<2	13	20	<0.5	<3	<3	66	0.36
MF08-30-012	Drill Core	3.99	0.007	21	49	5	143	<0.3	82	32	741	6.06	<2	<2	11	38	<0.5	<3	<3	83	0.90
MF08-30-013	Drill Core	2.48	0.005	1	45	6	120	<0.3	76	29	673	5.67	<2	<2	11	24	<0.5	<3	<3	68	0.59
MF08-30-014	Drill Core	2.58	<0.005	<1	45	<3	94	<0.3	64	24	634	4.76	<2	<2	11	39	<0.5	<3	<3	46	0.89
MF08-30-015	Drill Core	2.16	<0.005	<1	47	8	130	<0.3	73	29	1061	5.92	<2	<2	16	32	<0.5	<3	<3	73	1.12
MF08-30-016	Drill Core	2.97	0.006	<1	42	4	110	<0.3	73	26	821	5.41	<2	<2	11	40	<0.5	<3	<3	65	0.97
MF08-30-017	Drill Core	2.64	<0.005	<1	42	<3	99	<0.3	68	24	527	5.02	<2	<2	10	30	<0.5	<3	<3	47	0.37
MF08-30-018	Drill Core	4.24	0.006	<1	41	9	93	<0.3	63	20	518	4.57	<2	<2	12	14	<0.5	<3	<3	34	0.18
MF08-30-019	Drill Core	2.09	0.006	<1	37	8	100	<0.3	70	24	666	5.16	<2	<2	16	12	<0.5	<3	<3	50	0.27
MF08-30-020	Drill Core	2.47	0.006	14	56	7	183	<0.3	72	26	780	5.59	3	<2	15	12	<0.5	<3	<3	51	0.43
MF08-30-020S	Rock Pulp	0.05	0.016	2	6	4	20	<0.3	4	4	356	1.73	<2	<2	6	15	<0.5	<3	<3	16	0.24
MF08-30-020B	Rock Chip	0.20	0.007	<1	2	<3	44	<0.3	2	4	520	1.89	<2	<2	7	84	<0.5	<3	<3	37	0.55
MF08-30-021	Drill Core	2.61	<0.005	2	21	12	60	<0.3	31	12	467	2.71	<2	<2	11	17	<0.5	<3	<3	22	0.68
MF08-30-022	Drill Core	3.29	0.006	7	47	53	172	<0.3	59	22	773	4.59	3	<2	15	23	1.5	<3	<3	33	0.57
MF08-30-023	Drill Core	2.42	0.006	2	4	10	57	<0.3	<1	3	292	1.26	<2	<2	12	55	<0.5	<3	<3	13	0.92
MF08-30-024	Drill Core	2.20	0.010	3	5	6	32	<0.3	<1	2	201	0.83	<2	<2	11	34	<0.5	<3	<3	7	0.79
MF08-30-025	Drill Core	2.20	0.007	7	5	6	29	<0.3	<1	<1	188	0.73	<2	<2	11	38	<0.5	<3	<3	7	0.60
MF08-30-026	Drill Core	1.91	0.005	1	13	6	30	<0.3	<1	<1	223	0.86	<2	<2	10	41	<0.5	<3	<3	8	0.96
MF08-30-027	Drill Core	3.16	<0.005	<1	4	10	34	<0.3	<1	<1	174	0.63	<2	<2	10	83	<0.5	<3	<3	5	0.87
MF08-30-028	Drill Core	2.88	<0.005	<1	5	29	67	0.4	<1	1	196	0.80	<2	<2	12	86	0.6	<3	<3	7	0.90

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11004240.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF08-30-001	Drill Core	0.069	16	60	1.49	52	0.128	<20	2.59	0.02	0.52	<2	1.13	<5	14
MF08-30-002	Drill Core	0.051	16	95	1.81	42	0.154	<20	3.22	0.10	0.23	<2	0.32	<5	16
MF08-30-003	Drill Core	0.070	15	105	1.86	26	0.123	<20	3.21	0.08	0.17	<2	0.33	5	15
MF08-30-004	Drill Core	0.051	13	116	1.97	24	0.092	<20	3.22	0.03	0.14	<2	0.28	6	15
MF08-30-005	Drill Core	0.058	15	132	1.96	24	0.123	<20	3.33	0.06	0.15	<2	0.23	7	17
MF08-30-006	Drill Core	0.061	16	95	1.66	24	0.054	<20	2.74	0.01	0.17	<2	0.17	<5	12
MF08-30-007	Drill Core	0.046	13	93	1.47	24	0.075	<20	2.48	0.03	0.15	<2	0.18	<5	10
MF08-30-008	Drill Core	0.043	14	99	1.52	27	0.114	<20	2.57	0.03	0.17	<2	0.21	5	14
MF08-30-009	Drill Core	0.059	17	76	1.70	70	0.087	<20	3.06	0.03	0.53	<2	0.32	<5	11
MF08-30-010	Drill Core	0.065	12	117	2.06	81	0.099	<20	3.79	0.07	0.50	<2	0.41	7	16
MF08-30-011	Drill Core	0.047	11	106	1.95	83	0.092	<20	3.41	0.04	0.50	<2	0.35	6	15
MF08-30-012	Drill Core	0.054	11	135	2.05	71	0.128	<20	4.11	0.10	0.42	<2	0.40	9	20
MF08-30-013	Drill Core	0.067	14	106	1.95	75	0.072	<20	3.73	0.06	0.45	<2	0.23	7	15
MF08-30-014	Drill Core	0.062	17	67	1.62	68	0.064	<20	3.51	0.06	0.41	<2	0.24	<5	12
MF08-30-015	Drill Core	0.088	12	122	2.21	65	0.130	<20	4.29	0.09	0.32	<2	0.26	7	16
MF08-30-016	Drill Core	0.063	13	95	1.96	105	0.085	<20	3.93	0.10	0.53	<2	0.32	7	15
MF08-30-017	Drill Core	0.047	18	68	1.69	73	0.047	<20	3.04	0.05	0.38	<2	0.33	<5	10
MF08-30-018	Drill Core	0.047	24	49	1.54	64	0.062	<20	2.71	0.02	0.43	<2	0.22	<5	9
MF08-30-019	Drill Core	0.056	20	76	1.69	58	0.067	<20	3.01	0.02	0.35	<2	0.13	<5	12
MF08-30-020	Drill Core	0.063	18	80	1.80	39	0.045	<20	3.15	0.02	0.25	<2	0.17	<5	11
MF08-30-020S	Rock Pulp	0.019	7	17	0.23	127	0.076	<20	0.63	0.09	0.30	<2	<0.05	<5	6
MF08-30-020B	Rock Chip	0.076	14	5	0.45	124	0.101	<20	0.90	0.08	0.40	<2	<0.05	<5	8
MF08-30-021	Drill Core	0.035	11	32	0.87	27	0.018	<20	1.61	0.03	0.21	<2	0.15	<5	6
MF08-30-022	Drill Core	0.059	15	51	1.45	46	0.066	<20	2.77	0.01	0.29	<2	0.23	<5	10
MF08-30-023	Drill Core	0.054	30	2	0.25	40	0.071	<20	0.73	0.04	0.21	<2	0.19	<5	7
MF08-30-024	Drill Core	0.037	20	1	0.13	30	0.040	<20	0.52	0.04	0.23	<2	0.18	<5	<5
MF08-30-025	Drill Core	0.026	15	1	0.09	28	0.031	<20	0.46	0.04	0.21	<2	0.09	<5	<5
MF08-30-026	Drill Core	0.032	16	2	0.10	26	0.028	<20	0.49	0.04	0.25	<2	0.08	<5	<5
MF08-30-027	Drill Core	0.027	16	1	0.09	24	0.011	<20	0.48	0.05	0.20	<2	0.14	<5	<5
MF08-30-028	Drill Core	0.048	24	1	0.12	31	0.011	<20	0.56	0.03	0.22	<2	0.25	<5	<5

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11004240.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-029	Drill Core	2.99	<0.005	177	5	7	64	<0.3	<1	2	265	0.95	<2	<2	12	87	<0.5	<3	<3	10	1.37
MF08-30-030	Drill Core	2.69	0.006	7	3	7	56	<0.3	<1	2	302	0.97	<2	<2	10	80	<0.5	<3	<3	9	1.33
MF08-30-031	Drill Core	3.41	0.007	<1	3	21	90	0.3	<1	2	288	1.01	<2	<2	10	132	1.0	<3	6	10	1.03
MF08-30-032	Drill Core	2.12	<0.005	1	5	10	59	<0.3	<1	<1	227	0.73	<2	<2	9	282	<0.5	<3	<3	8	1.21
MF08-30-033	Drill Core	2.85	<0.005	1	8	37	60	0.5	<1	<1	225	0.92	<2	<2	12	159	<0.5	5	17	8	1.25
MF08-30-034	Drill Core	2.91	<0.005	1	4	15	57	<0.3	1	<1	270	1.23	<2	<2	11	143	<0.5	4	<3	13	0.78
MF08-30-035	Drill Core	3.04	<0.005	<1	<1	4	61	<0.3	1	<1	287	1.29	<2	<2	10	91	<0.5	<3	<3	16	0.95
MF08-30-036	Drill Core	3.10	<0.005	<1	1	6	65	<0.3	<1	<1	283	1.37	<2	<2	11	67	<0.5	5	<3	18	0.73
MF08-30-037	Drill Core	2.97	<0.005	1	1	5	68	<0.3	<1	<1	282	1.44	<2	<2	10	90	<0.5	3	<3	20	0.69
MF08-30-038	Drill Core	3.15	<0.005	1	2	8	71	<0.3	1	<1	250	1.30	<2	<2	10	70	<0.5	4	<3	18	0.63
MF08-30-039	Drill Core	2.74	<0.005	<1	<1	<3	67	<0.3	1	<1	266	1.47	<2	<2	9	59	<0.5	<3	<3	22	0.41
MF08-30-040	Drill Core	2.32	<0.005	<1	1	11	62	<0.3	1	<1	249	1.24	<2	<2	8	99	<0.5	3	<3	14	0.82
MF08-30-040S	Rock Pulp	0.05	<0.005	2	5	5	18	<0.3	3	<1	349	1.60	<2	<2	6	14	<0.5	<3	<3	13	0.22
MF08-30-041	Drill Core	2.66	<0.005	2	7	6	52	<0.3	1	<1	251	1.12	3	<2	9	116	<0.5	6	<3	11	1.05
MF08-30-042	Drill Core	3.21	<0.005	<1	4	13	68	<0.3	1	<1	265	1.24	<2	<2	8	109	<0.5	4	<3	15	0.75
MF08-30-043	Drill Core	2.59	<0.005	2	4	6	71	<0.3	1	<1	290	1.20	<2	<2	9	87	<0.5	<3	<3	15	0.87
MF08-30-044	Drill Core	3.01	0.027	2	2	6	67	<0.3	<1	<1	264	1.46	<2	<2	8	65	<0.5	<3	<3	21	0.57
MF08-30-045	Drill Core	2.71	<0.005	6	4	8	64	<0.3	1	<1	242	1.34	<2	<2	9	69	<0.5	<3	4	18	0.57
MF08-30-046	Drill Core	2.65	0.039	441	13	17	38	<0.3	<1	2	225	1.26	<2	<2	8	76	<0.5	<3	10	10	0.88
MF08-30-047	Drill Core	2.70	<0.005	3	7	8	64	<0.3	1	<1	237	1.48	3	<2	7	60	<0.5	4	<3	21	0.48
MF08-30-048	Drill Core	2.89	<0.005	2	8	9	65	<0.3	1	<1	235	1.37	<2	<2	7	60	<0.5	3	<3	18	0.50
MF08-30-049	Drill Core	3.02	<0.005	2	2	6	68	<0.3	2	<1	256	1.33	2	<2	8	66	<0.5	<3	<3	18	0.57
MF08-30-050	Drill Core	2.76	<0.005	4	4	8	72	<0.3	<1	<1	276	1.30	<2	<2	9	79	<0.5	<3	<3	17	0.76
MF08-30-051	Drill Core	2.96	<0.005	3	1	6	63	<0.3	1	<1	252	1.41	<2	<2	9	61	<0.5	<3	<3	20	0.57
MF08-30-052	Drill Core	2.63	<0.005	<1	<1	3	63	<0.3	1	<1	266	1.30	<2	<2	10	77	<0.5	<3	<3	16	0.80
MF08-30-053	Drill Core	2.59	0.009	1	2	10	55	<0.3	1	<1	261	1.29	<2	<2	8	103	<0.5	<3	<3	16	0.94
MF08-30-054	Drill Core	3.02	<0.005	2	5	6	61	<0.3	<1	<1	252	1.37	<2	<2	8	59	<0.5	5	<3	18	0.67
MF08-30-055	Drill Core	2.93	<0.005	66	4	8	95	<0.3	<1	<1	216	1.28	<2	<2	10	77	0.9	<3	5	14	0.76
MF08-30-056	Drill Core	2.89	<0.005	<1	4	10	67	<0.3	1	<1	229	1.35	<2	<2	8	47	<0.5	4	<3	19	0.40
MF08-30-057	Drill Core	2.80	<0.005	1	3	12	63	<0.3	2	<1	247	1.30	<2	<2	8	48	<0.5	<3	8	18	0.45

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Project: MacFarlane
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11004240.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF08-30-029	Drill Core	0.060	27	1	0.14	58	0.055	<20	0.79	0.02	0.37	<2	0.38	<5	6
MF08-30-030	Drill Core	0.053	26	2	0.16	46	0.063	<20	0.68	0.03	0.28	<2	0.15	<5	6
MF08-30-031	Drill Core	0.053	25	1	0.18	42	0.073	<20	0.74	0.04	0.25	<2	0.22	<5	6
MF08-30-032	Drill Core	0.053	20	<1	0.12	35	0.081	<20	0.77	0.03	0.23	<2	<0.05	<5	<5
MF08-30-033	Drill Core	0.075	32	1	0.14	60	0.069	<20	0.72	0.02	0.30	<2	0.40	<5	<5
MF08-30-034	Drill Core	0.073	36	2	0.28	42	0.083	<20	0.77	0.03	0.18	<2	0.20	<5	<5
MF08-30-035	Drill Core	0.065	28	3	0.30	47	0.084	<20	0.77	0.04	0.21	<2	<0.05	<5	<5
MF08-30-036	Drill Core	0.064	28	1	0.33	56	0.093	<20	0.73	0.04	0.18	<2	<0.05	<5	<5
MF08-30-037	Drill Core	0.069	27	3	0.36	119	0.099	<20	0.78	0.05	0.27	<2	<0.05	<5	<5
MF08-30-038	Drill Core	0.066	28	<1	0.31	174	0.103	<20	0.73	0.04	0.44	<2	0.11	<5	<5
MF08-30-039	Drill Core	0.066	25	2	0.36	233	0.121	<20	0.82	0.07	0.57	<2	<0.05	<5	<5
MF08-30-040	Drill Core	0.067	21	<1	0.27	87	0.086	<20	0.70	0.04	0.28	<2	0.20	<5	<5
MF08-30-040S	Rock Pulp	0.018	6	11	0.22	113	0.074	<20	0.60	0.09	0.28	<2	<0.05	<5	<5
MF08-30-041	Drill Core	0.062	25	1	0.20	50	0.048	<20	0.66	0.03	0.23	<2	0.34	<5	<5
MF08-30-042	Drill Core	0.066	22	2	0.30	91	0.083	<20	0.76	0.04	0.27	<2	0.09	<5	<5
MF08-30-043	Drill Core	0.068	24	2	0.30	89	0.080	<20	0.71	0.04	0.27	<2	0.13	<5	<5
MF08-30-044	Drill Core	0.067	24	2	0.36	136	0.107	<20	0.77	0.05	0.34	<2	<0.05	<5	<5
MF08-30-045	Drill Core	0.067	21	2	0.32	160	0.097	<20	0.70	0.04	0.39	<2	0.11	<5	<5
MF08-30-046	Drill Core	0.050	21	<1	0.17	90	0.046	<20	0.53	0.03	0.32	<2	0.64	<5	<5
MF08-30-047	Drill Core	0.066	21	1	0.35	169	0.113	<20	0.77	0.05	0.42	<2	0.12	<5	<5
MF08-30-048	Drill Core	0.064	21	<1	0.33	166	0.105	<20	0.75	0.05	0.42	<2	0.15	<5	<5
MF08-30-049	Drill Core	0.062	24	2	0.32	139	0.097	<20	0.73	0.05	0.36	<2	0.08	<5	<5
MF08-30-050	Drill Core	0.066	24	<1	0.30	91	0.095	<20	0.71	0.04	0.27	<2	0.15	<5	<5
MF08-30-051	Drill Core	0.061	24	1	0.33	129	0.104	<20	0.74	0.05	0.33	<2	0.08	<5	<5
MF08-30-052	Drill Core	0.065	23	1	0.30	78	0.081	<20	0.68	0.04	0.24	<2	0.06	<5	<5
MF08-30-053	Drill Core	0.058	25	2	0.27	50	0.071	<20	0.70	0.04	0.19	<2	0.07	<5	<5
MF08-30-054	Drill Core	0.061	25	1	0.31	97	0.092	<20	0.70	0.05	0.29	<2	0.07	<5	<5
MF08-30-055	Drill Core	0.061	26	1	0.24	77	0.073	<20	0.62	0.03	0.25	<2	0.36	<5	<5
MF08-30-056	Drill Core	0.056	22	<1	0.31	188	0.102	<20	0.70	0.06	0.47	<2	0.08	<5	<5
MF08-30-057	Drill Core	0.056	21	2	0.29	193	0.094	<20	0.67	0.06	0.46	<2	0.09	<5	<5

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Project: MacFarlane
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CERTIFICATE OF ANALYSIS VAN11004240.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-058	Drill Core	2.98	<0.005	24	6	16	113	<0.3	<1	<1	203	1.27	<2	<2	10	51	1.5	3	13	12	0.58
MF08-30-059	Drill Core	3.10	<0.005	1	10	16	83	<0.3	2	<1	211	1.09	<2	<2	7	56	0.7	<3	7	12	0.56
MF08-30-060	Drill Core	2.59	0.006	<1	5	7	37	<0.3	<1	<1	153	0.74	<2	<2	7	41	<0.5	<3	<3	6	0.35
MF08-30-060S	Rock Pulp	0.05	0.006	2	6	9	18	<0.3	4	2	356	1.69	<2	2	5	13	<0.5	<3	<3	14	0.21
MF08-30-060B	Rock Chip	0.19	0.006	<1	3	3	44	<0.3	2	2	550	1.96	3	<2	5	85	<0.5	<3	<3	38	0.61
MF08-30-061	Drill Core	3.24	<0.005	1	1	9	59	<0.3	1	<1	224	1.25	<2	<2	8	48	<0.5	4	<3	18	0.34
MF08-30-062	Drill Core	3.09	<0.005	2	1	5	67	<0.3	<1	<1	267	1.26	<2	<2	9	71	<0.5	<3	<3	15	0.69
MF08-30-063	Drill Core	3.03	<0.005	<1	<1	8	59	<0.3	1	<1	233	1.25	<2	<2	8	58	<0.5	<3	<3	16	0.50
MF08-30-064	Drill Core	2.95	<0.005	<1	<1	4	57	<0.3	<1	<1	225	1.06	<2	<2	8	65	<0.5	4	<3	13	0.62
MF08-30-065	Drill Core	2.81	<0.005	<1	<1	7	59	<0.3	1	<1	221	1.17	<2	<2	8	64	<0.5	5	3	15	0.47
MF08-30-066	Drill Core	2.77	<0.005	<1	<1	6	58	<0.3	<1	<1	204	1.03	<2	<2	7	74	<0.5	<3	<3	13	0.55
MF08-30-067	Drill Core	2.73	<0.005	<1	<1	<3	47	<0.3	2	<1	174	0.86	<2	<2	6	58	<0.5	<3	<3	11	0.43
MF08-30-068	Drill Core	2.72	0.006	1	7	11	58	<0.3	<1	1	264	0.97	<2	<2	8	76	<0.5	<3	<3	8	1.05
MF08-30-069	Drill Core	2.76	0.006	<1	118	468	95	2.5	<1	<1	288	0.95	<2	<2	9	109	1.4	<3	458	11	1.17
MF08-30-070	Drill Core	2.80	<0.005	<1	<1	7	58	<0.3	<1	<1	216	1.22	<2	<2	9	66	<0.5	<3	<3	16	0.47
MF08-30-071	Drill Core	2.93	<0.005	<1	4	8	57	<0.3	<1	<1	237	1.08	<2	<2	8	73	<0.5	<3	<3	11	0.73
MF08-30-072	Drill Core	2.64	<0.005	<1	5	8	32	<0.3	<1	1	257	0.89	<2	<2	8	116	<0.5	5	<3	6	1.11
MF08-30-073	Drill Core	3.16	<0.005	35	4	5	54	<0.3	<1	<1	233	1.18	<2	<2	9	98	<0.5	4	4	11	0.77
MF08-30-074	Drill Core	2.47	<0.005	<1	2	4	55	<0.3	<1	<1	220	1.04	<2	<2	7	52	<0.5	<3	<3	11	0.69
MF08-30-075	Drill Core	2.90	<0.005	<1	<1	4	60	<0.3	<1	<1	230	1.29	<2	<2	7	44	<0.5	4	<3	18	0.33
MF08-30-076	Drill Core	2.48	<0.005	<1	<1	6	60	<0.3	<1	<1	236	1.27	<2	<2	8	58	<0.5	4	<3	17	0.43
MF08-30-077	Drill Core	2.78	<0.005	<1	<1	8	58	<0.3	1	<1	214	1.21	<2	<2	8	59	<0.5	3	<3	16	0.40
MF08-30-078	Drill Core	2.70	<0.005	<1	<1	7	63	<0.3	<1	<1	222	1.25	<2	<2	9	61	<0.5	<3	6	17	0.39
MF08-30-079	Drill Core	3.34	<0.005	<1	<1	6	61	<0.3	1	<1	227	1.30	<2	<2	7	58	<0.5	<3	<3	18	0.35
MF08-30-080	Drill Core	2.94	<0.005	<1	<1	4	60	<0.3	<1	<1	231	1.20	<2	<2	6	73	<0.5	6	<3	16	0.46
MF08-30-080S	Rock Pulp	0.02	0.050	365	8482	43	28	30.9	2	<1	222	0.85	16	<2	<2	147	<0.5	40	4	5	0.93
MF08-30-081	Drill Core	3.04	<0.005	<1	<1	5	56	<0.3	<1	<1	219	1.10	<2	<2	6	63	<0.5	<3	4	14	0.53
MF08-30-082	Drill Core	2.97	<0.005	<1	<1	6	62	<0.3	<1	<1	236	1.30	<2	<2	7	51	<0.5	3	<3	18	0.33
MF08-30-083	Drill Core	2.68	<0.005	<1	<1	4	59	<0.3	<1	<1	234	1.18	<2	<2	9	61	<0.5	<3	<3	16	0.44
MF08-30-084	Drill Core	2.61	<0.005	<1	<1	7	53	<0.3	<1	<1	232	1.10	<2	<2	8	50	<0.5	<3	<3	13	0.61

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CERTIFICATE OF ANALYSIS VAN11004240.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
MF08-30-058	Drill Core	0.064	31	1	0.19	112	0.056	<20	0.52	0.03	0.33	<2	0.54	<5	<5
MF08-30-059	Drill Core	0.051	18	2	0.22	134	0.071	<20	0.55	0.05	0.36	<2	0.25	<5	<5
MF08-30-060	Drill Core	0.027	9	<1	0.12	41	0.037	<20	0.41	0.05	0.19	2	0.15	<5	<5
MF08-30-060S	Rock Pulp	0.017	6	14	0.22	117	0.075	<20	0.62	0.09	0.28	<2	<0.05	<5	<5
MF08-30-060B	Rock Chip	0.073	13	3	0.51	134	0.117	<20	0.93	0.09	0.43	<2	<0.05	<5	<5
MF08-30-061	Drill Core	0.051	21	2	0.28	169	0.096	<20	0.66	0.06	0.44	<2	<0.05	<5	<5
MF08-30-062	Drill Core	0.059	22	<1	0.27	109	0.080	<20	0.62	0.04	0.30	<2	0.21	<5	<5
MF08-30-063	Drill Core	0.059	20	1	0.28	158	0.093	<20	0.65	0.05	0.40	<2	0.09	<5	<5
MF08-30-064	Drill Core	0.054	18	3	0.23	150	0.072	<20	0.57	0.05	0.38	<2	0.16	<5	<5
MF08-30-065	Drill Core	0.056	20	3	0.27	153	0.084	<20	0.67	0.06	0.41	<2	<0.05	<5	<5
MF08-30-066	Drill Core	0.056	19	3	0.24	103	0.070	<20	0.59	0.05	0.30	<2	0.09	<5	<5
MF08-30-067	Drill Core	0.045	16	5	0.20	97	0.068	<20	0.52	0.04	0.27	<2	0.06	<5	<5
MF08-30-068	Drill Core	0.054	24	3	0.14	148	0.030	<20	0.51	0.03	0.30	7	0.41	<5	<5
MF08-30-069	Drill Core	0.050	23	1	0.19	122	0.051	<20	0.57	0.03	0.30	<2	0.17	<5	<5
MF08-30-070	Drill Core	0.056	21	4	0.27	140	0.088	<20	0.67	0.06	0.38	<2	<0.05	<5	<5
MF08-30-071	Drill Core	0.053	22	3	0.19	157	0.061	<20	0.52	0.04	0.34	<2	0.32	<5	<5
MF08-30-072	Drill Core	0.052	25	3	0.12	298	0.028	<20	0.51	0.03	0.24	<2	0.39	<5	<5
MF08-30-073	Drill Core	0.056	19	2	0.22	53	0.065	<20	0.65	0.04	0.21	<2	0.26	<5	<5
MF08-30-074	Drill Core	0.047	18	2	0.21	81	0.055	<20	0.55	0.04	0.23	<2	0.16	<5	<5
MF08-30-075	Drill Core	0.055	20	4	0.30	164	0.094	<20	0.65	0.06	0.44	<2	<0.05	<5	<5
MF08-30-076	Drill Core	0.058	22	3	0.29	135	0.087	<20	0.64	0.05	0.37	<2	<0.05	<5	<5
MF08-30-077	Drill Core	0.055	20	3	0.26	141	0.087	<20	0.63	0.06	0.38	<2	0.06	<5	<5
MF08-30-078	Drill Core	0.057	21	2	0.27	137	0.087	<20	0.65	0.06	0.38	<2	0.07	<5	<5
MF08-30-079	Drill Core	0.054	21	4	0.28	164	0.094	<20	0.66	0.07	0.44	<2	<0.05	<5	<5
MF08-30-080	Drill Core	0.057	18	3	0.28	145	0.090	<20	0.65	0.06	0.39	<2	0.05	<5	<5
MF08-30-080S	Rock Pulp	0.010	3	15	0.05	127	0.001	<20	0.32	0.02	0.22	<2	0.88	<5	<5
MF08-30-081	Drill Core	0.055	16	2	0.24	121	0.076	<20	0.58	0.05	0.35	<2	0.13	<5	<5
MF08-30-082	Drill Core	0.053	20	3	0.29	159	0.094	<20	0.66	0.07	0.42	<2	<0.05	<5	<5
MF08-30-083	Drill Core	0.053	20	2	0.26	130	0.083	<20	0.61	0.05	0.35	<2	0.06	<5	<5
MF08-30-084	Drill Core	0.045	20	3	0.21	286	0.061	<20	0.58	0.05	0.34	<2	0.09	<5	<5

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Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-085	Drill Core	2.07	<0.005	20	1	5	56	<0.3	<1	<1	251	1.19	<2	<2	8	74	<0.5	<3	<3	14	1.46
MF08-30-086	Drill Core	2.44	<0.005	<1	<1	5	64	<0.3	1	<1	254	1.26	<2	<2	7	48	<0.5	6	<3	16	0.48
MF08-30-087	Drill Core	3.32	<0.005	<1	3	<3	57	<0.3	1	<1	253	1.35	<2	<2	8	31	<0.5	3	<3	16	0.38
MF08-30-088	Drill Core	2.80	<0.005	<1	1	4	29	<0.3	<1	<1	130	0.75	<2	<2	7	36	<0.5	<3	<3	8	0.24
MF08-30-089	Drill Core	2.66	<0.005	29	1	8	35	<0.3	<1	<1	157	0.95	<2	<2	7	38	<0.5	4	3	9	0.40
MF08-30-090	Drill Core	2.69	<0.005	<1	1	4	39	<0.3	<1	<1	172	0.84	<2	<2	12	37	<0.5	<3	<3	10	0.39
MF08-30-091	Drill Core	2.89	<0.005	<1	<1	6	35	<0.3	<1	<1	155	0.86	<2	<2	7	39	<0.5	4	<3	10	0.36
MF08-30-092	Drill Core	3.19	<0.005	<1	2	4	22	<0.3	<1	<1	200	0.62	<2	<2	10	73	<0.5	3	<3	6	0.95
MF08-30-093	Drill Core	2.98	0.005	14	2	5	26	<0.3	<1	<1	176	0.74	<2	<2	8	56	<0.5	4	<3	7	0.75
MF08-30-094	Drill Core	2.79	<0.005	10	<1	4	38	<0.3	<1	<1	155	0.85	<2	<2	6	54	<0.5	<3	<3	9	0.48
MF08-30-095	Drill Core	2.71	<0.005	<1	<1	<3	46	<0.3	<1	<1	186	0.99	<2	<2	7	246	<0.5	<3	<3	11	0.48
MF08-30-096	Drill Core	2.77	<0.005	<1	2	3	62	<0.3	<1	<1	277	1.21	<2	<2	9	61	<0.5	4	<3	14	0.70
MF08-30-097	Drill Core	2.69	<0.005	<1	<1	<3	76	<0.3	1	3	295	1.59	<2	<2	10	55	<0.5	<3	<3	23	0.49
MF08-30-098	Drill Core	2.55	<0.005	16	3	<3	74	<0.3	<1	2	321	1.39	<2	<2	10	68	<0.5	<3	<3	14	0.96
MF08-30-099	Drill Core	2.54	<0.005	<1	3	4	61	<0.3	<1	2	276	1.29	<2	<2	10	191	<0.5	<3	<3	13	0.86
MF08-30-100	Drill Core	3.10	<0.005	<1	1	4	66	<0.3	<1	2	270	1.18	<2	<2	12	137	<0.5	<3	<3	13	0.86
MF08-30-100S	Rock Pulp	0.02	0.044	392	8932	49	31	33.2	2	<1	239	0.92	25	<2	<2	160	<0.5	31	5	6	1.02
MF08-30-100B	Rock Chip	0.23	<0.005	<1	<1	<3	42	<0.3	2	4	508	1.87	<2	<2	5	81	<0.5	<3	<3	35	0.59
MF08-30-101	Drill Core	2.83	<0.005	<1	3	6	64	<0.3	<1	2	267	1.19	<2	<2	11	84	<0.5	<3	6	11	1.06
MF08-30-102	Drill Core	2.54	<0.005	<1	1	7	62	<0.3	<1	2	266	1.31	<2	<2	10	75	<0.5	<3	<3	16	0.75
MF08-30-103	Drill Core	3.24	<0.005	<1	1	5	63	<0.3	<1	2	257	1.24	<2	<2	11	169	<0.5	<3	<3	13	0.86
MF08-30-104	Drill Core	2.69	<0.005	<1	<1	5	63	<0.3	<1	2	256	1.36	<2	<2	11	123	<0.5	<3	<3	16	0.80
MF08-30-105	Drill Core	3.14	<0.005	<1	2	<3	68	<0.3	<1	2	242	1.34	<2	<2	9	85	<0.5	<3	<3	16	0.68
MF08-30-106	Drill Core	2.49	<0.005	<1	<1	<3	59	<0.3	<1	2	273	1.28	<2	<2	10	94	<0.5	<3	<3	13	0.99
MF08-30-107	Drill Core	2.88	<0.005	9	3	<3	61	<0.3	<1	2	266	1.45	<2	<2	10	73	<0.5	<3	3	15	0.96
MF08-30-108	Drill Core	2.85	<0.005	3	3	<3	54	<0.3	<1	2	269	1.32	<2	<2	11	79	<0.5	<3	<3	15	1.12
MF08-30-109	Drill Core	2.90	<0.005	<1	1	<3	63	<0.3	<1	2	236	1.47	<2	<2	9	119	<0.5	<3	<3	20	0.57
MF08-30-110	Drill Core	2.90	<0.005	19	<1	<3	56	<0.3	<1	2	235	1.33	<2	<2	8	79	<0.5	<3	<3	16	0.68
MF08-30-111	Drill Core	2.97	<0.005	<1	4	5	53	<0.3	<1	2	256	1.16	<2	<2	7	77	<0.5	<3	<3	12	0.99
MF08-30-112	Drill Core	2.75	<0.005	<1	2	3	58	<0.3	<1	2	205	1.23	<2	<2	7	64	<0.5	<3	<3	16	0.50

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Project: MacFarlane
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11004240.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF08-30-085	Drill Core	0.049	26	3	0.21	118	0.050	<20	0.97	0.03	0.35	<2	0.20	<5	<5
MF08-30-086	Drill Core	0.055	20	3	0.28	129	0.080	<20	0.65	0.05	0.36	<2	0.08	<5	<5
MF08-30-087	Drill Core	0.051	17	3	0.28	145	0.077	<20	0.63	0.05	0.41	<2	<0.05	<5	<5
MF08-30-088	Drill Core	0.021	12	3	0.13	61	0.046	<20	0.41	0.05	0.22	<2	<0.05	<5	<5
MF08-30-089	Drill Core	0.030	15	1	0.15	69	0.044	<20	0.43	0.05	0.24	<2	0.22	<5	<5
MF08-30-090	Drill Core	0.032	19	1	0.16	87	0.050	<20	0.43	0.04	0.28	<2	0.06	<5	<5
MF08-30-091	Drill Core	0.026	17	2	0.14	78	0.045	<20	0.44	0.05	0.27	<2	0.08	<5	<5
MF08-30-092	Drill Core	0.028	18	<1	0.08	51	0.008	<20	0.38	0.04	0.22	<2	<0.05	<5	<5
MF08-30-093	Drill Core	0.029	18	2	0.11	54	0.022	<20	0.41	0.04	0.22	<2	0.12	<5	<5
MF08-30-094	Drill Core	0.031	17	1	0.15	69	0.043	<20	0.45	0.05	0.23	<2	0.10	<5	<5
MF08-30-095	Drill Core	0.036	20	3	0.19	104	0.054	<20	0.60	0.05	0.27	<2	0.08	<5	<5
MF08-30-096	Drill Core	0.058	27	2	0.26	59	0.068	<20	0.67	0.05	0.22	<2	0.06	<5	<5
MF08-30-097	Drill Core	0.076	30	3	0.37	179	0.108	<20	0.78	0.05	0.48	<2	<0.05	<5	10
MF08-30-098	Drill Core	0.065	26	3	0.27	66	0.049	<20	0.72	0.03	0.22	<2	0.27	<5	6
MF08-30-099	Drill Core	0.057	27	2	0.26	48	0.052	<20	0.76	0.04	0.16	<2	0.10	<5	6
MF08-30-100	Drill Core	0.059	29	2	0.25	33	0.079	<20	0.76	0.04	0.17	<2	0.13	<5	7
MF08-30-100S	Rock Pulp	0.011	3	17	0.05	134	0.002	<20	0.35	0.02	0.23	<2	0.98	<5	<5
MF08-30-100B	Rock Chip	0.073	13	4	0.47	121	0.101	<20	0.85	0.08	0.39	<2	<0.05	<5	7
MF08-30-101	Drill Core	0.056	25	2	0.19	44	0.062	<20	0.68	0.03	0.25	<2	0.28	<5	6
MF08-30-102	Drill Core	0.059	28	2	0.27	58	0.080	<20	0.69	0.04	0.21	<2	0.12	<5	7
MF08-30-103	Drill Core	0.061	29	2	0.27	42	0.083	<20	0.85	0.04	0.18	<2	0.09	<5	8
MF08-30-104	Drill Core	0.063	29	2	0.30	33	0.086	<20	0.83	0.04	0.16	<2	<0.05	<5	8
MF08-30-105	Drill Core	0.056	26	2	0.27	38	0.080	<20	0.67	0.04	0.15	<2	0.14	<5	8
MF08-30-106	Drill Core	0.059	29	2	0.24	39	0.061	<20	0.73	0.04	0.21	<2	0.17	<5	7
MF08-30-107	Drill Core	0.060	27	2	0.25	41	0.044	<20	0.69	0.04	0.21	<2	0.30	<5	6
MF08-30-108	Drill Core	0.066	27	2	0.23	72	0.050	<20	0.75	0.04	0.30	<2	0.14	<5	6
MF08-30-109	Drill Core	0.057	24	2	0.32	97	0.092	<20	0.75	0.06	0.26	<2	<0.05	<5	8
MF08-30-110	Drill Core	0.054	22	2	0.25	93	0.062	<20	0.64	0.05	0.29	<2	0.16	<5	6
MF08-30-111	Drill Core	0.053	20	2	0.19	73	0.044	<20	0.56	0.04	0.29	<2	0.24	<5	<5
MF08-30-112	Drill Core	0.047	17	3	0.25	73	0.077	<20	0.64	0.05	0.24	<2	<0.05	<5	6

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Project: MacFarlane
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11004240.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-113	Drill Core	2.98	<0.005	<1	2	6	57	<0.3	<1	2	199	1.19	<2	<2	7	117	<0.5	<3	<3	15	0.75
MF08-30-114	Drill Core	2.91	<0.005	<1	3	<3	66	<0.3	<1	2	227	1.31	<2	<2	9	176	<0.5	<3	<3	18	0.70
MF08-30-115	Drill Core	2.55	<0.005	15	2	<3	60	<0.3	<1	2	230	1.31	<2	<2	7	84	<0.5	<3	<3	15	0.79
MF08-30-116	Drill Core	3.06	<0.005	<1	2	6	60	<0.3	<1	2	231	1.25	<2	<2	6	106	<0.5	<3	<3	15	1.16
MF08-30-117	Drill Core	3.34	<0.005	<1	1	<3	64	<0.3	<1	2	222	1.44	<2	<2	7	76	<0.5	<3	<3	20	0.54
MF08-30-118	Drill Core	3.08	<0.005	<1	<1	<3	72	<0.3	1	2	241	1.54	<2	<2	7	68	<0.5	<3	<3	24	0.42
MF08-30-119	Drill Core	2.70	<0.005	<1	<1	6	73	<0.3	1	3	244	1.47	<2	<2	7	87	<0.5	<3	<3	23	0.39
MF08-30-120	Drill Core	2.96	<0.005	<1	<1	3	92	<0.3	2	3	307	1.78	<2	<2	9	129	<0.5	<3	<3	28	0.63
MF08-30-120S	Rock Pulp	0.02	0.039	396	8860	47	31	34.2	2	<1	237	0.90	26	<2	<2	162	<0.5	32	6	6	1.01
MF08-30-121	Drill Core	2.90	<0.005	<1	3	4	80	<0.3	2	3	306	1.63	<2	<2	8	100	<0.5	<3	<3	25	0.72
MF08-30-122	Drill Core	2.92	<0.005	<1	<1	<3	88	<0.3	2	3	296	1.75	<2	<2	9	119	<0.5	<3	<3	28	0.58
MF08-30-123	Drill Core	3.08	<0.005	<1	2	6	94	<0.3	2	3	349	1.56	<2	<2	9	161	<0.5	<3	3	22	0.89
MF08-30-124	Drill Core	2.61	<0.005	<1	<1	<3	92	<0.3	2	3	314	1.74	<2	<2	9	169	<0.5	<3	<3	26	0.73
MF08-30-125	Drill Core	2.45	<0.005	<1	<1	<3	91	<0.3	2	3	304	1.75	<2	<2	9	104	<0.5	<3	<3	29	0.52
MF08-30-126	Drill Core	3.00	<0.005	<1	<1	3	87	<0.3	2	3	318	1.68	<2	<2	10	121	<0.5	<3	<3	25	0.81
MF08-30-127	Drill Core	2.92	<0.005	<1	<1	<3	79	<0.3	2	3	264	1.65	<2	<2	9	120	<0.5	<3	<3	28	0.46
MF08-30-128	Drill Core	2.79	<0.005	<1	<1	<3	85	<0.3	2	3	282	1.67	<2	<2	8	120	<0.5	<3	<3	28	0.54
MF08-30-129	Drill Core	2.64	<0.005	<1	<1	<3	62	<0.3	1	2	218	1.07	<2	<2	3	67	<0.5	<3	<3	12	0.44
MF08-30-130	Drill Core	3.05	<0.005	39	49	14	154	0.3	1	5	256	3.01	<2	<2	5	81	2.2	<3	<3	6	0.85
MF08-30-131	Drill Core	3.27	<0.005	15	14	9	49	<0.3	1	2	234	1.13	<2	<2	6	77	1.0	<3	3	1	1.04
MF08-30-132	Drill Core	2.86	<0.005	<1	6	5	86	<0.3	2	3	293	1.25	<2	<2	5	78	<0.5	<3	<3	14	0.71
MF08-30-133	Drill Core	2.88	<0.005	<1	2	<3	71	<0.3	1	3	247	1.23	<2	<2	2	52	<0.5	<3	<3	18	0.39

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Project: MacFarlane
Report Date: September 18, 2011

CERTIFICATE OF ANALYSIS VAN11004240.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
MF08-30-113	Drill Core	0.049	17	2	0.24	69	0.067	<20	0.72	0.04	0.22	<2	0.12	<5	6
MF08-30-114	Drill Core	0.055	21	2	0.28	96	0.084	<20	0.77	0.05	0.26	<2	0.06	<5	7
MF08-30-115	Drill Core	0.056	21	2	0.24	61	0.068	<20	0.66	0.04	0.22	<2	0.29	<5	6
MF08-30-116	Drill Core	0.056	21	2	0.25	48	0.065	<20	0.89	0.04	0.19	<2	0.12	<5	8
MF08-30-117	Drill Core	0.059	21	2	0.31	122	0.093	<20	0.70	0.06	0.32	<2	0.07	<5	7
MF08-30-118	Drill Core	0.067	19	3	0.37	149	0.111	<20	0.74	0.05	0.38	<2	<0.05	<5	8
MF08-30-119	Drill Core	0.067	20	3	0.37	177	0.110	<20	0.76	0.07	0.42	<2	<0.05	<5	8
MF08-30-120	Drill Core	0.092	25	4	0.48	127	0.120	<20	0.89	0.05	0.30	<2	<0.05	<5	11
MF08-30-120S	Rock Pulp	0.011	3	15	0.05	137	0.002	<20	0.37	0.02	0.25	<2	0.97	<5	<5
MF08-30-121	Drill Core	0.086	23	4	0.41	157	0.113	<20	0.81	0.05	0.38	<2	0.05	<5	9
MF08-30-122	Drill Core	0.090	26	4	0.46	142	0.122	<20	0.87	0.06	0.32	<2	<0.05	<5	9
MF08-30-123	Drill Core	0.091	26	4	0.41	109	0.107	<20	0.86	0.05	0.29	<2	0.13	<5	7
MF08-30-124	Drill Core	0.092	27	4	0.47	98	0.119	<20	0.95	0.05	0.24	<2	<0.05	<5	8
MF08-30-125	Drill Core	0.092	27	5	0.48	199	0.135	<20	0.93	0.07	0.46	<2	<0.05	<5	10
MF08-30-126	Drill Core	0.088	30	5	0.44	61	0.122	<20	0.91	0.05	0.19	<2	<0.05	<5	10
MF08-30-127	Drill Core	0.083	23	5	0.45	211	0.133	<20	0.89	0.07	0.47	<2	<0.05	<5	9
MF08-30-128	Drill Core	0.087	22	4	0.46	189	0.129	<20	0.86	0.05	0.42	<2	0.06	<5	10
MF08-30-129	Drill Core	0.084	3	4	0.34	99	0.044	<20	0.48	0.03	0.26	<2	<0.05	<5	<5
MF08-30-130	Drill Core	0.069	10	2	0.16	55	0.022	<20	0.28	0.02	0.18	<2	2.91	<5	<5
MF08-30-131	Drill Core	0.065	24	2	0.02	29	0.001	<20	0.12	<0.01	0.12	3	1.10	<5	<5
MF08-30-132	Drill Core	0.110	9	4	0.35	132	0.052	<20	0.52	0.02	0.34	<2	0.21	<5	<5
MF08-30-133	Drill Core	0.090	3	4	0.37	205	0.091	<20	0.55	0.03	0.55	<2	<0.05	<5	<5

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QUALITY CONTROL REPORT VAN11004240.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF08-30-020	Drill Core	2.47	0.006	14	56	7	183	<0.3	72	26	780	5.59	3	<2	15	12	<0.5	<3	<3	51	0.43
REP MF08-30-020	QC			14	55	10	182	<0.3	72	25	764	5.46	3	<2	15	12	<0.5	<3	<3	51	0.42
MF08-30-020S	Rock Pulp	0.05	0.016	2	6	4	20	<0.3	4	4	356	1.73	<2	<2	6	15	<0.5	<3	<3	16	0.24
REP MF08-30-020S	QC		0.010																		
MF08-30-033	Drill Core	2.85	<0.005	1	8	37	60	0.5	<1	<1	225	0.92	<2	<2	12	159	<0.5	5	17	8	1.25
REP MF08-30-033	QC			<1	8	33	63	0.3	<1	<1	227	0.93	<2	<2	12	166	<0.5	5	21	8	1.28
MF08-30-037	Drill Core	2.97	<0.005	1	1	5	68	<0.3	<1	<1	282	1.44	<2	<2	10	90	<0.5	3	<3	20	0.69
REP MF08-30-037	QC		<0.005																		
MF08-30-093	Drill Core	2.98	0.005	14	2	5	26	<0.3	<1	<1	176	0.74	<2	<2	8	56	<0.5	4	<3	7	0.75
REP MF08-30-093	QC		<0.005																		
MF08-30-115	Drill Core	2.55	<0.005	15	2	<3	60	<0.3	<1	2	230	1.31	<2	<2	7	84	<0.5	<3	<3	15	0.79
REP MF08-30-115	QC			15	2	<3	61	<0.3	<1	2	237	1.34	<2	<2	8	85	<0.5	<3	<3	15	0.81
MF08-30-121	Drill Core	2.90	<0.005	<1	3	4	80	<0.3	2	3	306	1.63	<2	<2	8	100	<0.5	<3	<3	25	0.72
REP MF08-30-121	QC		<0.005																		
Core Reject Duplicates																					
MF08-30-026	Drill Core	1.91	0.005	1	13	6	30	<0.3	<1	<1	223	0.86	<2	<2	10	41	<0.5	<3	<3	8	0.96
DUP MF08-30-026	QC		0.006	<1	13	6	29	<0.3	<1	1	224	0.87	<2	<2	10	41	<0.5	<3	<3	8	0.95
MF08-30-060	Drill Core	2.59	0.006	<1	5	7	37	<0.3	<1	<1	153	0.74	<2	<2	7	41	<0.5	<3	<3	6	0.35
DUP MF08-30-060	QC		<0.005	1	5	10	36	<0.3	1	<1	151	0.74	<2	<2	7	41	<0.5	4	<3	6	0.35
MF08-30-092	Drill Core	3.19	<0.005	<1	2	4	22	<0.3	<1	<1	200	0.62	<2	<2	10	73	<0.5	3	<3	6	0.95
DUP MF08-30-092	QC		<0.005	<1	1	<3	22	<0.3	<1	<1	201	0.63	<2	<2	9	73	<0.5	<3	<3	6	0.95
MF08-30-124	Drill Core	2.61	<0.005	<1	<1	<3	92	<0.3	2	3	314	1.74	<2	<2	9	169	<0.5	<3	<3	26	0.73
DUP MF08-30-124	QC		<0.005	<1	<1	4	91	<0.3	2	3	304	1.68	<2	<2	8	170	<0.5	<3	<3	25	0.73
Reference Materials																					
STD DS8	Standard			13	102	114	299	1.7	39	6	595	2.42	23	<2	7	63	2.0	7	6	41	0.67
STD DS8	Standard			14	115	134	340	1.7	41	8	658	2.63	28	<2	7	69	2.3	6	7	44	0.74
STD DS8	Standard			16	106	122	320	1.7	41	9	627	2.49	28	<2	7	67	2.4	5	4	45	0.71
STD DS8	Standard			13	103	116	305	1.7	38	5	606	2.41	25	<2	8	64	2.0	6	5	40	0.69

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 18, 2011

QUALITY CONTROL REPORT VAN11004240.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
MF08-30-020	Drill Core	0.063	18	80	1.80	39	0.045	<20	3.15	0.02	0.25	<2	0.17	<5	11
REP MF08-30-020	QC	0.063	18	78	1.76	40	0.046	<20	3.09	0.02	0.26	<2	0.16	<5	11
MF08-30-020S	Rock Pulp	0.019	7	17	0.23	127	0.076	<20	0.63	0.09	0.30	<2	<0.05	<5	6
REP MF08-30-020S	QC														
MF08-30-033	Drill Core	0.075	32	1	0.14	60	0.069	<20	0.72	0.02	0.30	<2	0.40	<5	<5
REP MF08-30-033	QC	0.074	32	<1	0.14	62	0.072	<20	0.75	0.02	0.31	<2	0.42	<5	<5
MF08-30-037	Drill Core	0.069	27	3	0.36	119	0.099	<20	0.78	0.05	0.27	<2	<0.05	<5	<5
REP MF08-30-037	QC														
MF08-30-093	Drill Core	0.029	18	2	0.11	54	0.022	<20	0.41	0.04	0.22	<2	0.12	<5	<5
REP MF08-30-093	QC														
MF08-30-115	Drill Core	0.056	21	2	0.24	61	0.068	<20	0.66	0.04	0.22	<2	0.29	<5	6
REP MF08-30-115	QC	0.056	22	2	0.24	63	0.068	<20	0.66	0.04	0.22	<2	0.30	<5	6
MF08-30-121	Drill Core	0.086	23	4	0.41	157	0.113	<20	0.81	0.05	0.38	<2	0.05	<5	9
REP MF08-30-121	QC														
Core Reject Duplicates															
MF08-30-026	Drill Core	0.032	16	2	0.10	26	0.028	<20	0.49	0.04	0.25	<2	0.08	<5	<5
DUP MF08-30-026	QC	0.032	17	1	0.10	26	0.028	<20	0.49	0.04	0.25	<2	0.08	<5	<5
MF08-30-060	Drill Core	0.027	9	<1	0.12	41	0.037	<20	0.41	0.05	0.19	2	0.15	<5	<5
DUP MF08-30-060	QC	0.027	9	<1	0.12	41	0.037	<20	0.41	0.05	0.19	<2	0.15	<5	<5
MF08-30-092	Drill Core	0.028	18	<1	0.08	51	0.008	<20	0.38	0.04	0.22	<2	<0.05	<5	<5
DUP MF08-30-092	QC	0.028	18	3	0.08	50	0.009	<20	0.37	0.04	0.21	<2	<0.05	<5	<5
MF08-30-124	Drill Core	0.092	27	4	0.47	98	0.119	<20	0.95	0.05	0.24	<2	<0.05	<5	8
DUP MF08-30-124	QC	0.090	28	5	0.46	98	0.120	<20	0.93	0.05	0.24	<2	<0.05	<5	9
Reference Materials															
STD DS8	Standard	0.078	13	118	0.58	291	0.103	<20	0.88	0.09	0.41	<2	0.16	<5	<5
STD DS8	Standard	0.085	15	122	0.66	311	0.115	22	0.96	0.09	0.44	3	0.18	<5	6
STD DS8	Standard	0.084	16	124	0.62	296	0.111	<20	0.93	0.09	0.41	3	0.18	<5	8
STD DS8	Standard	0.078	14	119	0.59	286	0.108	<20	0.89	0.09	0.40	4	0.16	<5	<5

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 18, 2011

QUALITY CONTROL REPORT VAN11004240.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
STD DS8	Standard			14	102	121	312	1.6	38	8	603	2.40	26	<2	7	64	2.2	6	6	42	0.69
STD OREAS45CA	Standard			1	489	12	61	0.4	234	86	865	14.10	<2	<2	6	14	<0.5	6	5	192	0.41
STD OREAS45CA	Standard			1	514	8	59	<0.3	250	93	918	15.45	4	<2	8	14	<0.5	<3	<3	210	0.43
STD OREAS45CA	Standard			2	548	15	63	0.5	276	100	982	17.03	4	<2	8	15	<0.5	<3	<3	225	0.45
STD OREAS45CA	Standard			1	496	19	59	0.6	233	87	879	14.83	3	<2	7	14	<0.5	5	<3	197	0.41
STD OREAS45CA	Standard			1	526	17	59	<0.3	263	96	933	15.94	4	<2	7	15	<0.5	<3	<3	211	0.43
STD OXH82	Standard		1.273																		
STD OXH82	Standard		1.352																		
STD OXH82	Standard		1.351																		
STD OXH82	Standard		1.359																		
STD OXH82	Standard		1.403																		
STD OXH82	Standard		1.396																		
STD OXK79	Standard		3.793																		
STD OXK79	Standard		3.728																		
STD OXK79	Standard		3.672																		
STD OXK79	Standard		3.683																		
STD OXK79	Standard		3.665																		
STD OXK79	Standard		3.887																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		0.006																		
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank		0.007																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		0.006																		

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 18, 2011

QUALITY CONTROL REPORT VAN11004240.1

		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
STD DS8	Standard	0.079	15	117	0.60	286	0.106	<20	0.89	0.08	0.40	<2	0.17	<5	7
STD OREAS45CA	Standard	0.030	16	750	0.13	150	0.108	<20	3.50	0.01	0.07	<2	<0.05	46	6
STD OREAS45CA	Standard	0.038	16	721	0.14	159	0.124	<20	3.60	<0.01	0.07	<2	<0.05	44	14
STD OREAS45CA	Standard	0.042	18	800	0.15	169	0.133	<20	4.01	<0.01	0.08	<2	<0.05	49	12
STD OREAS45CA	Standard	0.029	15	758	0.13	148	0.126	<20	3.66	0.01	0.08	<2	<0.05	45	10
STD OREAS45CA	Standard	0.037	17	758	0.14	162	0.124	<20	3.89	<0.01	0.08	<2	<0.05	49	12
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														

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Client: **TerraLogic Exploration Inc.**
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Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
Report Date: September 18, 2011

QUALITY CONTROL REPORT VAN11004240.1

		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank		0.006																		
BLK	Blank		0.008																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.008	<1	1	<3	46	<0.3	1	4	540	1.89	<2	<2	6	68	<0.5	<3	<3	38	0.51
G1	Prep Blank	<0.01	0.005	<1	1	<3	49	<0.3	2	5	582	2.09	<2	<2	7	70	<0.5	<3	<3	40	0.55

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Project: MacFarlane
Report Date: September 18, 2011

QUALITY CONTROL REPORT VAN11004240.1

		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
		%	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	5	5
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.077	13	3	0.45	118	0.109	<20	0.84	0.07	0.40	<2	<0.05	<5	6
G1	Prep Blank	0.082	15	3	0.52	180	0.117	<20	0.89	0.08	0.46	<2	<0.05	<5	9

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
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Submitted By: Chris Gallagher
Receiving Lab: Canada-Vancouver
Received: August 26, 2011
Report Date: September 23, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN11004241.1

CLIENT JOB INFORMATION

Project: MacFarlane
Shipment ID: MF11-11-009
P.O. Number
Number of Samples: 149

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	138	Crush split and pulverize 250g drill core to 200 mesh			VAN
P200	4	Pulverize to 85% - 200 mesh			VAN
G601	148	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
1D01	149	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: TerraLogic Exploration Inc.
Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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Client: **TerraLogic Exploration Inc.**
Suite 200, 44 - 12th Ave. S.
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Project: MacFarlane
Report Date: September 23, 2011

CERTIFICATE OF ANALYSIS VAN11004241.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-134	Drill Core	2.70	0.005	<1	2	<3	133	<0.3	3	<1	453	2.62	<2	<2	6	86	0.6	<3	4	50	0.60
MF08-30-135	Drill Core	2.69	<0.005	<1	2	<3	99	<0.3	2	<1	343	1.74	<2	<2	7	96	<0.5	<3	<3	29	0.51
MF08-30-136	Drill Core	3.26	<0.005	<1	2	<3	121	<0.3	3	<1	430	2.15	<2	<2	6	92	<0.5	<3	<3	38	0.67
MF08-30-137	Drill Core	2.95	<0.005	1	<1	<3	97	<0.3	2	<1	329	1.69	<2	<2	8	68	<0.5	<3	<3	28	0.53
MF08-30-138	Drill Core	2.61	<0.005	<1	2	<3	90	<0.3	2	<1	302	1.69	<2	<2	7	126	<0.5	<3	<3	27	0.46
MF08-30-139	Drill Core	2.33	<0.005	4	1	3	95	<0.3	2	<1	328	1.63	<2	<2	6	133	<0.5	<3	<3	20	1.05
MF08-30-140	Drill Core	2.60	0.013	1	2	<3	101	<0.3	2	<1	360	1.76	<2	<2	7	159	<0.5	<3	<3	23	0.83
MF08-30-140S	Rock Pulp	0.01	0.081	843	4476	11	40	9.4	4	<1	251	0.89	8	<2	<2	253	<0.5	11	<3	7	0.85
MF08-30-140B	Rock Chip	0.17	0.009	1	8	<3	42	<0.3	2	<1	523	2.02	<2	<2	5	91	<0.5	<3	<3	37	0.59
MF08-30-141	Drill Core	2.34	0.007	<1	2	<3	108	<0.3	2	<1	355	1.94	<2	<2	7	158	<0.5	<3	<3	32	0.54
MF08-30-142	Drill Core	3.67	0.008	<1	2	<3	101	<0.3	2	<1	326	1.92	<2	<2	6	155	<0.5	<3	<3	32	0.45
MF08-30-143	Drill Core	2.84	0.007	<1	2	<3	100	<0.3	2	<1	332	1.84	<2	<2	5	130	<0.5	<3	<3	30	0.58
MF08-30-144	Drill Core	2.66	0.008	<1	2	<3	89	<0.3	2	<1	305	1.76	<2	<2	5	100	<0.5	<3	<3	28	0.58
MF08-30-145	Drill Core	2.94	0.009	10	2	<3	73	<0.3	2	<1	240	1.61	<2	<2	4	88	<0.5	<3	<3	26	0.40
MF08-30-146	Drill Core	2.84	0.008	<1	1	<3	70	<0.3	2	<1	234	1.42	<2	<2	5	82	<0.5	<3	<3	23	0.38
MF08-30-147	Drill Core	2.95	0.009	243	29	<3	50	<0.3	1	4	193	1.65	<2	<2	4	64	0.5	<3	<3	14	0.54
MF08-30-148	Drill Core	2.70	0.007	<1	2	<3	90	<0.3	2	<1	295	1.85	<2	<2	6	128	<0.5	<3	<3	32	0.40
MF08-30-149	Drill Core	2.67	0.008	<1	<1	<3	90	<0.3	2	<1	309	1.76	<2	<2	5	133	<0.5	<3	<3	31	0.41
MF08-30-150	Drill Core	2.71	0.007	<1	<1	<3	90	<0.3	2	<1	319	1.69	<2	<2	6	126	<0.5	<3	<3	26	0.57
MF08-30-151	Drill Core	2.82	0.010	6	1	<3	82	<0.3	2	<1	298	1.43	<2	<2	6	94	<0.5	<3	4	20	0.79
MF08-30-152	Drill Core	2.38	0.008	<1	<1	<3	94	<0.3	2	<1	366	1.70	<2	<2	7	133	<0.5	<3	<3	23	0.81
MF08-30-153	Drill Core	3.60	0.008	2	5	31	60	1.1	2	<1	338	1.28	<2	<2	6	99	<0.5	<3	43	15	1.22
MF08-30-154	Drill Core	2.17	0.007	<1	<1	<3	76	<0.3	2	<1	312	1.39	<2	<2	7	101	<0.5	<3	<3	18	0.84
MF08-30-155	Drill Core	2.86	<0.005	<1	<1	<3	84	<0.3	2	<1	309	1.64	<2	<2	6	72	<0.5	<3	4	24	0.58
MF08-30-156	Drill Core	2.96	0.008	<1	<1	<3	83	<0.3	2	<1	330	1.56	<2	<2	7	131	<0.5	<3	<3	20	0.83
MF08-30-157	Drill Core	2.53	<0.005	<1	<1	<3	82	<0.3	2	<1	316	1.45	<2	<2	6	181	<0.5	<3	<3	18	1.07
MF08-30-158	Drill Core	2.95	<0.005	<1	<1	<3	87	<0.3	2	<1	310	1.52	<2	<2	6	120	<0.5	<3	<3	22	0.68
MF08-30-159	Drill Core	2.89	0.007	5	<1	<3	74	<0.3	2	<1	294	1.53	<2	<2	7	153	<0.5	<3	<3	20	1.01
MF08-30-160	Drill Core	2.75	0.005	13	8	26	63	<0.3	<1	<1	252	0.93	<2	<2	9	93	<0.5	<3	31	8	1.46
MF08-30-160S	Rock Pulp	0.01	I.S.	753	4214	10	38	8.9	3	1	230	0.78	7	<2	<2	246	<0.5	12	<3	6	0.80

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Project: MacFarlane
Report Date: September 23, 2011

CERTIFICATE OF ANALYSIS VAN11004241.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
MF08-30-134	Drill Core	0.156	14	10	0.82	459	0.222	<20	1.33	0.05	1.07	<2	0.07	<5	<5
MF08-30-135	Drill Core	0.091	19	6	0.49	260	0.140	<20	0.91	0.06	0.58	<2	0.07	<5	<5
MF08-30-136	Drill Core	0.124	15	8	0.66	354	0.178	<20	1.09	0.05	0.80	<2	0.13	<5	<5
MF08-30-137	Drill Core	0.091	22	6	0.45	298	0.129	<20	0.84	0.06	0.62	<2	0.20	<5	<5
MF08-30-138	Drill Core	0.084	17	5	0.46	225	0.133	<20	0.85	0.05	0.49	<2	0.05	<5	<5
MF08-30-139	Drill Core	0.086	18	4	0.38	53	0.100	<20	0.87	0.04	0.16	<2	0.33	<5	<5
MF08-30-140	Drill Core	0.093	20	4	0.44	110	0.108	<20	0.85	0.04	0.28	<2	0.32	<5	<5
MF08-30-140S	Rock Pulp	0.032	5	96	0.09	184	0.004	<20	0.33	0.03	0.18	<2	0.41	<5	<5
MF08-30-140B	Rock Chip	0.070	12	4	0.46	132	0.115	<20	0.94	0.10	0.42	<2	<0.05	<5	<5
MF08-30-141	Drill Core	0.098	21	5	0.54	255	0.151	<20	0.97	0.06	0.56	<2	<0.05	<5	<5
MF08-30-142	Drill Core	0.090	17	5	0.49	291	0.151	<20	0.93	0.07	0.63	<2	0.06	<5	<5
MF08-30-143	Drill Core	0.095	15	5	0.49	290	0.146	<20	0.88	0.05	0.63	<2	0.13	<5	<5
MF08-30-144	Drill Core	0.082	13	6	0.48	273	0.141	<20	0.91	0.06	0.61	<2	0.08	<5	<5
MF08-30-145	Drill Core	0.070	11	5	0.41	248	0.129	<20	0.79	0.06	0.51	<2	0.05	<5	<5
MF08-30-146	Drill Core	0.061	12	5	0.36	216	0.114	<20	0.75	0.07	0.46	<2	<0.05	<5	<5
MF08-30-147	Drill Core	0.046	12	4	0.23	119	0.067	<20	0.53	0.04	0.31	<2	0.96	<5	<5
MF08-30-148	Drill Core	0.076	18	6	0.48	289	0.153	<20	0.95	0.08	0.64	<2	<0.05	<5	<5
MF08-30-149	Drill Core	0.083	18	6	0.48	260	0.145	<20	0.90	0.06	0.59	<2	<0.05	<5	<5
MF08-30-150	Drill Core	0.086	21	6	0.46	147	0.121	<20	0.84	0.05	0.34	<2	<0.05	<5	<5
MF08-30-151	Drill Core	0.082	21	5	0.36	93	0.101	<20	0.77	0.04	0.30	<2	0.31	<5	<5
MF08-30-152	Drill Core	0.089	22	5	0.48	40	0.114	<20	0.91	0.04	0.14	<2	0.05	<5	<5
MF08-30-153	Drill Core	0.077	19	4	0.30	75	0.061	<20	0.72	0.03	0.28	<2	0.09	<5	<5
MF08-30-154	Drill Core	0.081	21	5	0.36	106	0.089	<20	0.73	0.04	0.30	<2	0.08	<5	<5
MF08-30-155	Drill Core	0.079	21	6	0.43	176	0.124	<20	0.82	0.05	0.44	<2	0.09	<5	<5
MF08-30-156	Drill Core	0.082	21	5	0.42	60	0.108	<20	0.81	0.04	0.18	<2	0.15	<5	<5
MF08-30-157	Drill Core	0.085	19	5	0.37	54	0.105	<20	0.83	0.03	0.16	<2	0.18	<5	<5
MF08-30-158	Drill Core	0.082	20	6	0.43	156	0.121	<20	0.84	0.05	0.39	<2	0.09	<5	<5
MF08-30-159	Drill Core	0.078	21	5	0.35	83	0.100	<20	0.81	0.04	0.23	<2	0.15	<5	<5
MF08-30-160	Drill Core	0.053	21	2	0.14	56	0.028	<20	0.54	0.03	0.27	<2	0.12	<5	<5
MF08-30-160S	Rock Pulp	0.029	5	90	0.08	160	0.004	<20	0.31	0.03	0.17	<2	0.37	<5	<5

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Project: MacFarlane
Report Date: September 23, 2011

CERTIFICATE OF ANALYSIS VAN11004241.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-161	Drill Core	2.06	<0.005	4	6	<3	29	<0.3	1	1	192	1.15	<2	<2	7	69	<0.5	<3	<3	7	1.04
MF08-30-162	Drill Core	2.28	0.006	<1	2	<3	43	<0.3	<1	1	169	0.77	<2	<2	10	70	<0.5	<3	<3	9	0.84
MF08-30-163	Drill Core	3.34	<0.005	7	3	9	47	<0.3	<1	1	163	0.84	<2	<2	9	77	<0.5	<3	4	9	0.65
MF08-30-164	Drill Core	2.82	0.005	99	4	7	68	<0.3	<1	2	164	1.16	<2	<2	10	57	0.9	<3	<3	9	0.59
MF08-30-165	Drill Core	2.81	<0.005	20	5	16	72	<0.3	<1	2	190	0.99	<2	<2	10	141	0.5	<3	<3	9	1.04
MF08-30-166	Drill Core	2.72	0.006	8	<1	5	26	<0.3	<1	<1	130	0.63	<2	<2	6	56	<0.5	<3	<3	5	0.32
MF08-30-167	Drill Core	3.00	0.006	<1	2	4	50	<0.3	<1	2	208	1.06	<2	<2	6	47	<0.5	<3	4	11	0.38
MF08-30-168	Drill Core	2.89	0.009	171	2	4	53	<0.3	<1	2	192	0.96	<2	<2	10	199	<0.5	<3	<3	13	0.52
MF08-30-169	Drill Core	3.16	<0.005	2	<1	9	62	<0.3	<1	2	212	1.23	<2	<2	9	108	<0.5	<3	<3	18	0.39
MF08-30-170	Drill Core	2.79	0.007	<1	<1	9	67	<0.3	<1	2	233	1.27	<2	<2	8	152	<0.5	<3	<3	17	0.72
MF08-30-171	Drill Core	2.80	0.007	12	1	8	73	<0.3	<1	2	244	1.25	<2	<2	8	257	<0.5	<3	<3	15	0.83
MF08-30-172	Drill Core	3.09	0.007	98	50	7	53	<0.3	1	4	217	3.13	<2	<2	6	133	<0.5	<3	<3	12	0.52
MF08-30-173	Drill Core	2.79	0.007	6	1	8	63	<0.3	<1	2	220	1.28	<2	<2	9	71	<0.5	<3	<3	18	0.45
MF08-30-174	Drill Core	3.17	0.009	<1	<1	7	66	<0.3	<1	2	212	1.28	<2	<2	8	88	<0.5	<3	<3	18	0.39
MF08-30-175	Drill Core	3.01	0.006	<1	<1	7	67	<0.3	<1	2	221	1.29	<2	<2	9	118	<0.5	<3	<3	19	0.41
MF08-30-176	Drill Core	2.88	0.007	136	2	6	67	<0.3	<1	5	242	1.58	<2	<2	8	114	<0.5	<3	<3	18	0.58
MF08-30-177	Drill Core	2.82	0.006	35	3	5	62	<0.3	<1	6	214	1.97	<2	<2	7	98	<0.5	<3	<3	16	0.62
MF08-30-178	Drill Core	2.64	<0.005	2	<1	<3	68	<0.3	<1	2	236	1.43	<2	<2	8	110	<0.5	<3	<3	20	0.37
MF08-30-179	Drill Core	2.84	0.006	137	1	4	59	<0.3	<1	2	200	1.20	<2	<2	8	93	<0.5	<3	<3	16	0.44
MF08-30-180	Drill Core	2.96	0.006	<1	<1	<3	68	<0.3	<1	2	228	1.32	<2	<2	8	117	<0.5	<3	<3	17	0.56
MF08-30-180S	Rock Pulp	0.01	0.082	399	9056	49	32	26.6	2	<1	247	0.95	25	<2	<2	163	<0.5	25	6	6	1.05
MF08-30-180B	Rock Chip	0.20	0.006	<1	<1	<3	44	<0.3	2	4	533	1.95	<2	<2	6	84	<0.5	<3	<3	38	0.61
MF08-30-181	Drill Core	2.78	<0.005	5	2	11	63	<0.3	<1	2	237	1.34	<2	<2	9	145	<0.5	<3	16	17	0.75
MF08-30-182	Drill Core	2.67	0.007	13	<1	5	47	<0.3	<1	2	206	1.09	<2	<2	10	145	<0.5	<3	<3	11	1.05
MF08-30-183	Drill Core	3.21	0.006	4	<1	4	63	<0.3	<1	2	221	1.32	<2	<2	9	94	<0.5	<3	<3	18	0.51
MF08-30-184	Drill Core	2.30	0.006	<1	<1	7	41	<0.3	<1	1	163	0.94	<2	<2	7	95	<0.5	<3	<3	11	0.41
MF08-30-185	Drill Core	2.79	0.005	<1	<1	6	56	<0.3	<1	2	220	1.24	<2	<2	7	123	<0.5	<3	<3	16	0.55
MF08-30-186	Drill Core	3.40	0.005	6	<1	4	59	<0.3	<1	2	212	1.19	<2	<2	9	77	<0.5	<3	<3	17	0.41
MF08-30-187	Drill Core	3.19	<0.005	<1	<1	4	61	<0.3	<1	2	233	1.23	<2	<2	9	96	<0.5	<3	<3	16	0.57
MF08-30-188	Drill Core	3.00	<0.005	<1	5	5	59	<0.3	<1	3	222	1.54	<2	<2	8	139	<0.5	<3	<3	11	0.80

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CERTIFICATE OF ANALYSIS VAN11004241.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF08-30-161	Drill Core	0.039	12	1	0.09	36	0.018	<20	0.39	0.03	0.20	<2	0.50	<5	<5
MF08-30-162	Drill Core	0.030	20	2	0.10	39	0.035	<20	0.47	0.04	0.22	<2	0.10	<5	<5
MF08-30-163	Drill Core	0.032	18	2	0.13	38	0.048	<20	0.50	0.04	0.18	<2	0.15	<5	<5
MF08-30-164	Drill Core	0.039	25	2	0.11	42	0.039	<20	0.48	0.04	0.23	<2	0.52	<5	<5
MF08-30-165	Drill Core	0.054	22	2	0.13	37	0.055	<20	0.76	0.03	0.25	<2	0.40	<5	6
MF08-30-166	Drill Core	0.022	9	2	0.08	31	0.028	<20	0.38	0.04	0.18	<2	0.11	<5	<5
MF08-30-167	Drill Core	0.039	12	2	0.19	61	0.064	<20	0.52	0.05	0.26	<2	0.11	<5	5
MF08-30-168	Drill Core	0.054	27	2	0.18	126	0.057	<20	0.61	0.04	0.32	<2	0.13	<5	6
MF08-30-169	Drill Core	0.052	21	2	0.27	164	0.090	<20	0.69	0.06	0.39	<2	0.05	<5	8
MF08-30-170	Drill Core	0.056	22	3	0.28	111	0.096	<20	0.94	0.06	0.29	<2	0.06	<5	8
MF08-30-171	Drill Core	0.058	22	2	0.25	81	0.082	<20	0.77	0.05	0.23	<2	0.15	<5	6
MF08-30-172	Drill Core	0.046	15	2	0.18	102	0.056	<20	0.56	0.04	0.34	<2	2.45	<5	6
MF08-30-173	Drill Core	0.054	24	2	0.26	156	0.086	<20	0.67	0.06	0.42	<2	0.16	<5	7
MF08-30-174	Drill Core	0.055	22	2	0.28	173	0.096	<20	0.70	0.06	0.46	<2	0.11	<5	6
MF08-30-175	Drill Core	0.053	24	3	0.29	172	0.097	<20	0.72	0.07	0.45	<2	0.07	<5	8
MF08-30-176	Drill Core	0.056	21	3	0.29	116	0.098	<20	0.76	0.06	0.31	<2	0.38	<5	8
MF08-30-177	Drill Core	0.055	17	2	0.27	91	0.087	<20	0.74	0.06	0.26	<2	0.97	<5	7
MF08-30-178	Drill Core	0.055	24	3	0.32	178	0.104	<20	0.74	0.07	0.44	<2	<0.05	<5	7
MF08-30-179	Drill Core	0.049	21	2	0.24	129	0.079	<20	0.62	0.06	0.35	<2	0.20	<5	6
MF08-30-180	Drill Core	0.055	23	3	0.27	129	0.088	<20	0.67	0.06	0.34	<2	0.11	<5	7
MF08-30-180S	Rock Pulp	0.012	3	16	0.06	135	0.002	<20	0.38	0.02	0.25	<2	1.00	<5	<5
MF08-30-180B	Rock Chip	0.074	15	4	0.48	134	0.113	<20	0.94	0.10	0.43	<2	<0.05	<5	7
MF08-30-181	Drill Core	0.058	25	3	0.27	60	0.086	<20	0.74	0.05	0.20	<2	0.15	<5	7
MF08-30-182	Drill Core	0.056	23	2	0.17	69	0.070	<20	0.75	0.04	0.32	<2	0.28	<5	6
MF08-30-183	Drill Core	0.054	25	2	0.27	141	0.088	<20	0.69	0.06	0.39	<2	0.17	<5	8
MF08-30-184	Drill Core	0.035	16	1	0.17	53	0.059	<20	0.49	0.05	0.20	<2	0.08	<5	<5
MF08-30-185	Drill Core	0.051	21	3	0.25	125	0.086	<20	0.71	0.06	0.34	<2	0.11	<5	6
MF08-30-186	Drill Core	0.052	23	2	0.27	155	0.090	<20	0.67	0.06	0.41	<2	0.09	<5	7
MF08-30-187	Drill Core	0.055	23	2	0.27	147	0.086	<20	0.67	0.06	0.37	<2	0.10	<5	8
MF08-30-188	Drill Core	0.056	19	1	0.20	76	0.059	<20	0.60	0.05	0.25	<2	0.80	<5	6

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Project: MacFarlane
Report Date: September 23, 2011

CERTIFICATE OF ANALYSIS VAN11004241.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-189	Drill Core	3.13	<0.005	<1	<1	4	63	<0.3	<1	2	237	1.26	<2	<2	10	100	<0.5	<3	<3	17	0.64
MF08-30-190	Drill Core	2.79	0.007	27	39	132	794	0.4	<1	2	170	1.23	<2	<2	7	78	18.7	<3	146	10	0.50
MF08-30-191	Drill Core	3.04	<0.005	<1	<1	5	54	<0.3	<1	2	205	1.12	<2	<2	7	96	<0.5	<3	<3	15	0.51
MF08-30-192	Drill Core	2.76	<0.005	4	1	<3	60	<0.3	<1	2	222	1.32	<2	<2	7	84	<0.5	<3	<3	16	0.45
MF08-30-193	Drill Core	2.87	<0.005	4	<1	5	62	<0.3	<1	2	222	1.20	<2	<2	8	99	<0.5	<3	<3	16	0.56
MF08-30-194	Drill Core	2.94	<0.005	29	<1	<3	61	<0.3	<1	2	209	1.17	<2	<2	8	76	<0.5	<3	<3	16	0.46
MF08-30-195	Drill Core	2.74	<0.005	<1	<1	3	68	<0.3	1	<1	243	1.35	<2	<2	4	72	<0.5	<3	<3	20	0.39
MF08-30-196	Drill Core	2.88	<0.005	<1	<1	<3	67	<0.3	<1	<1	241	1.38	<2	<2	5	75	<0.5	<3	<3	20	0.39
MF08-30-197	Drill Core	3.11	0.006	14	1	<3	64	<0.3	1	<1	253	1.37	<2	<2	4	69	<0.5	<3	<3	19	0.44
MF08-30-198	Drill Core	2.86	0.006	47	<1	4	59	<0.3	<1	<1	218	1.36	<2	<2	4	69	<0.5	<3	<3	18	0.39
MF08-30-199	Drill Core	2.69	<0.005	<1	<1	<3	68	<0.3	<1	<1	237	1.35	<2	<2	4	108	<0.5	<3	<3	19	0.39
MF08-30-200	Drill Core	2.92	<0.005	3	<1	<3	67	<0.3	1	<1	240	1.37	<2	<2	5	67	<0.5	<3	<3	20	0.37
MF08-30-200S	Rock Pulp	0.01	0.068	398	8947	45	31	33.3	2	<1	243	0.91	23	<2	<2	155	<0.5	28	4	6	1.02
MF08-30-201	Drill Core	3.10	<0.005	<1	<1	4	68	<0.3	1	<1	227	1.31	<2	<2	6	69	<0.5	<3	4	18	0.44
MF08-30-202	Drill Core	2.82	<0.005	<1	<1	<3	63	<0.3	<1	<1	232	1.31	<2	<2	4	68	<0.5	<3	<3	18	0.46
MF08-30-203	Drill Core	3.21	0.006	1065	2	5	57	<0.3	<1	<1	207	1.27	<2	<2	4	60	<0.5	<3	<3	15	0.48
MF08-30-204	Drill Core	2.37	0.005	5	<1	6	74	<0.3	<1	<1	258	1.48	<2	<2	4	94	<0.5	<3	<3	21	0.45
MF08-30-205	Drill Core	2.76	0.006	3	<1	5	67	<0.3	<1	<1	245	1.31	<2	<2	4	100	<0.5	<3	<3	18	0.68
MF08-30-206	Drill Core	2.80	<0.005	27	3	6	53	<0.3	<1	<1	222	1.44	<2	<2	5	77	<0.5	<3	<3	10	0.86
MF08-30-207	Drill Core	2.67	<0.005	<1	<1	3	63	<0.3	1	<1	248	1.30	<2	<2	4	77	<0.5	<3	<3	16	0.64
MF08-30-208	Drill Core	2.44	0.007	35	2	12	53	<0.3	<1	<1	227	1.14	<2	<2	5	91	<0.5	<3	<3	13	0.83
MF08-30-209	Drill Core	2.83	0.007	9	2	6	54	<0.3	<1	<1	268	1.26	<2	<2	5	74	<0.5	<3	<3	10	1.09
MF08-30-210	Drill Core	3.12	0.006	3	2	9	52	<0.3	<1	<1	268	1.10	<2	<2	5	90	<0.5	<3	<3	9	1.15
MF08-30-211	Drill Core	2.20	<0.005	111	2	11	57	<0.3	<1	<1	185	1.10	<2	<2	8	203	<0.5	<3	6	7	1.03
MF08-30-212	Drill Core	3.23	0.005	135	3	<3	41	<0.3	<1	<1	186	1.16	<2	<2	4	64	<0.5	<3	<3	9	0.81
MF08-30-213	Drill Core	2.98	<0.005	1	2	3	54	<0.3	<1	<1	251	1.22	<2	<2	6	85	<0.5	<3	<3	10	0.94
MF08-30-214	Drill Core	2.31	<0.005	7	<1	<3	62	<0.3	1	<1	264	1.38	<2	<2	4	95	<0.5	<3	<3	17	0.67
MF08-30-215	Drill Core	2.88	0.006	17	1	6	64	<0.3	1	<1	271	1.30	<2	<2	4	87	<0.5	<3	<3	14	0.87
MF08-30-216	Drill Core	2.64	0.006	7	4	8	65	<0.3	1	<1	308	1.44	<2	<2	6	169	<0.5	<3	<3	14	1.96
MF08-30-217	Drill Core	2.45	<0.005	174	13	17	67	<0.3	<1	<1	182	1.57	<2	<2	6	62	<0.5	<3	13	10	0.82

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Project: MacFarlane
Report Date: September 23, 2011

CERTIFICATE OF ANALYSIS VAN11004241.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF08-30-189	Drill Core	0.056	25	2	0.27	114	0.087	<20	0.72	0.06	0.31	<2	0.05	<5	8
MF08-30-190	Drill Core	0.044	17	2	0.16	69	0.046	<20	0.51	0.04	0.27	<2	0.59	<5	<5
MF08-30-191	Drill Core	0.044	22	2	0.23	126	0.077	<20	0.62	0.06	0.34	<2	0.08	<5	7
MF08-30-192	Drill Core	0.052	22	2	0.25	147	0.083	<20	0.67	0.06	0.39	<2	0.20	<5	6
MF08-30-193	Drill Core	0.055	25	2	0.24	136	0.080	<20	0.65	0.06	0.36	<2	0.16	<5	7
MF08-30-194	Drill Core	0.053	22	2	0.24	141	0.078	<20	0.61	0.06	0.37	<2	0.19	<5	6
MF08-30-195	Drill Core	0.053	22	3	0.30	187	0.104	<20	0.73	0.07	0.48	<2	<0.05	<5	19
MF08-30-196	Drill Core	0.053	24	3	0.30	185	0.102	<20	0.75	0.08	0.46	<2	<0.05	<5	19
MF08-30-197	Drill Core	0.053	24	2	0.29	186	0.101	<20	0.73	0.07	0.46	3	0.08	<5	19
MF08-30-198	Drill Core	0.050	23	2	0.27	163	0.091	<20	0.69	0.07	0.43	<2	0.19	<5	16
MF08-30-199	Drill Core	0.052	25	2	0.31	186	0.103	<20	0.77	0.07	0.44	<2	<0.05	<5	19
MF08-30-200	Drill Core	0.053	27	3	0.30	194	0.107	20	0.77	0.09	0.50	<2	<0.05	<5	21
MF08-30-200S	Rock Pulp	0.010	3	17	0.05	132	0.001	<20	0.38	0.02	0.24	<2	1.00	<5	<5
MF08-30-201	Drill Core	0.054	23	3	0.28	164	0.096	<20	0.71	0.07	0.43	<2	0.10	<5	19
MF08-30-202	Drill Core	0.050	22	2	0.27	176	0.092	<20	0.70	0.08	0.44	<2	0.10	<5	16
MF08-30-203	Drill Core	0.047	21	3	0.22	130	0.075	<20	0.61	0.06	0.37	<2	0.36	<5	15
MF08-30-204	Drill Core	0.056	26	2	0.33	169	0.110	<20	0.82	0.07	0.40	<2	<0.05	<5	21
MF08-30-205	Drill Core	0.053	25	2	0.28	115	0.090	<20	0.74	0.06	0.30	<2	0.06	<5	19
MF08-30-206	Drill Core	0.053	21	2	0.17	74	0.048	<20	0.55	0.04	0.26	<2	0.84	<5	11
MF08-30-207	Drill Core	0.052	23	3	0.27	121	0.081	<20	0.70	0.06	0.33	<2	0.12	<5	16
MF08-30-208	Drill Core	0.048	20	2	0.19	65	0.055	<20	0.60	0.04	0.25	<2	0.30	<5	12
MF08-30-209	Drill Core	0.054	21	2	0.17	54	0.040	<20	0.58	0.04	0.24	<2	0.54	<5	8
MF08-30-210	Drill Core	0.050	20	2	0.16	48	0.043	<20	0.55	0.04	0.23	<2	0.42	<5	10
MF08-30-211	Drill Core	0.053	28	1	0.12	40	0.058	<20	0.70	0.03	0.26	<2	0.64	<5	12
MF08-30-212	Drill Core	0.049	23	1	0.11	40	0.038	<20	0.54	0.03	0.24	<2	0.71	<5	9
MF08-30-213	Drill Core	0.051	24	1	0.16	91	0.047	<20	0.55	0.04	0.24	<2	0.62	<5	10
MF08-30-214	Drill Core	0.053	23	2	0.26	80	0.085	<20	0.67	0.05	0.24	<2	0.19	<5	17
MF08-30-215	Drill Core	0.055	23	2	0.25	41	0.074	<20	0.81	0.04	0.20	<2	0.21	<5	14
MF08-30-216	Drill Core	0.052	23	3	0.21	40	0.040	<20	1.62	0.03	0.18	<2	0.50	<5	12
MF08-30-217	Drill Core	0.046	20	<1	0.14	79	0.045	<20	0.79	0.03	0.23	<2	1.19	<5	11

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Project: MacFarlane
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CERTIFICATE OF ANALYSIS VAN11004241.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-218	Drill Core	2.98	<0.005	<1	20	9	69	<0.3	<1	<1	274	1.33	<2	<2	7	98	<0.5	<3	<3	12	1.22
MF08-30-219	Drill Core	2.29	<0.005	<1	2	18	79	<0.3	1	<1	280	1.11	<2	<2	7	125	<0.5	<3	<3	9	1.56
MF08-30-220	Drill Core	3.00	0.006	3	2	4	57	<0.3	1	<1	254	1.25	<2	<2	5	495	<0.5	<3	<3	15	0.79
MF08-30-220S	Rock Pulp	0.01	0.065	399	9225	46	31	34.3	2	<1	244	0.92	21	<2	<2	160	<0.5	28	4	5	1.04
MF08-30-220B	Rock Chip	0.13	0.006	<1	<1	<3	45	<0.3	2	<1	529	2.01	<2	<2	4	87	<0.5	<3	<3	37	0.59
MF08-30-221	Drill Core	3.04	0.006	14	3	7	59	<0.3	<1	<1	223	1.43	<2	<2	5	127	0.6	<3	11	11	0.88
MF08-30-222	Drill Core	3.20	<0.005	28	2	4	51	<0.3	1	<1	252	1.40	<2	<2	5	95	<0.5	<3	<3	13	0.90
MF08-30-223	Drill Core	2.95	<0.005	<1	1	4	59	<0.3	1	<1	236	1.27	<2	<2	5	110	<0.5	<3	<3	15	0.69
MF08-30-224	Drill Core	1.91	<0.005	<1	1	<3	59	<0.3	1	<1	257	1.37	<2	<2	4	148	<0.5	<3	<3	17	0.90
MF08-30-225	Drill Core	2.33	0.005	<1	2	3	55	<0.3	1	<1	244	1.25	<2	<2	4	143	<0.5	<3	<3	15	0.82
MF08-30-226	Drill Core	3.59	0.005	<1	2	<3	46	<0.3	1	<1	233	1.24	<2	<2	5	105	<0.5	<3	<3	13	0.74
MF08-30-227	Drill Core	3.28	0.006	3	<1	5	57	<0.3	<1	2	209	1.20	<2	<2	8	99	<0.5	<3	<3	15	0.60
MF08-30-228	Drill Core	2.70	<0.005	<1	<1	<3	58	<0.3	<1	2	238	1.23	<2	<2	10	113	<0.5	<3	<3	15	0.95
MF08-30-229	Drill Core	3.03	0.006	<1	2	4	55	<0.3	<1	2	219	1.22	<2	<2	9	165	<0.5	<3	<3	15	0.76
MF08-30-230	Drill Core	3.09	<0.005	4	1	4	60	<0.3	<1	2	213	1.31	<2	<2	8	150	<0.5	<3	<3	18	0.61
MF08-30-231	Drill Core	3.21	<0.005	6	<1	4	63	<0.3	<1	2	222	1.32	<2	<2	8	136	<0.5	<3	<3	17	0.63
MF08-30-232	Drill Core	3.41	0.005	31	2	<3	54	<0.3	<1	2	211	1.26	<2	<2	8	146	<0.5	<3	<3	15	0.75
MF08-30-233	Drill Core	2.35	0.006	2	<1	4	51	<0.3	<1	2	196	1.22	<2	<2	8	199	<0.5	<3	<3	16	0.78
MF08-30-234	Drill Core	2.95	<0.005	13	<1	4	59	<0.3	<1	2	212	1.38	<2	<2	7	198	<0.5	<3	<3	18	0.58
MF08-30-235	Drill Core	2.63	<0.005	<1	<1	11	56	<0.3	<1	2	212	1.20	<2	<2	8	203	<0.5	<3	<3	14	0.91
MF08-30-236	Drill Core	2.85	<0.005	<1	<1	<3	55	<0.3	<1	2	209	1.23	<2	<2	8	208	<0.5	<3	<3	15	1.23
MF08-30-237	Drill Core	2.72	0.006	<1	<1	<3	64	<0.3	<1	2	217	1.45	<2	<2	9	142	<0.5	<3	<3	21	0.60
MF08-30-238	Drill Core	3.03	<0.005	2	1	5	59	<0.3	<1	2	212	1.20	<2	<2	8	129	<0.5	<3	5	16	0.67
MF08-30-239	Drill Core	3.19	0.006	3	<1	4	53	<0.3	<1	2	210	1.30	<2	<2	8	107	<0.5	<3	<3	18	0.63
MF08-30-240	Drill Core	3.32	0.007	57	<1	<3	52	<0.3	<1	2	187	1.37	<2	<2	7	100	<0.5	<3	<3	18	0.43
MF08-30-240S	Rock Pulp	0.01	0.037	771	4047	15	37	9.4	3	1	227	0.83	8	<2	<2	235	<0.5	7	<3	8	0.78
MF08-30-241	Drill Core	3.09	0.006	1	6	5	45	<0.3	<1	2	221	1.14	<2	<2	8	131	<0.5	<3	<3	15	0.86
MF08-30-242	Drill Core	2.97	<0.005	<1	1	<3	55	<0.3	<1	2	202	1.33	<2	<2	9	138	<0.5	<3	<3	18	0.49
MF08-30-243	Drill Core	2.83	<0.005	<1	1	<3	49	<0.3	<1	2	248	1.10	<2	<2	9	117	<0.5	<3	<3	13	1.21
MF08-30-244	Drill Core	2.75	0.006	<1	1	7	62	<0.3	<1	2	243	1.26	<2	<2	11	124	<0.5	<3	<3	17	0.79

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Project: MacFarlane
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CERTIFICATE OF ANALYSIS VAN11004241.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF08-30-218	Drill Core	0.062	23	2	0.20	87	0.061	<20	0.83	0.04	0.25	<2	0.50	<5	12
MF08-30-219	Drill Core	0.061	21	2	0.18	110	0.052	<20	0.91	0.03	0.28	<2	0.25	<5	11
MF08-30-220	Drill Core	0.053	21	1	0.25	98	0.080	<20	0.76	0.06	0.20	<2	0.17	<5	16
MF08-30-220S	Rock Pulp	0.010	3	16	0.05	133	0.001	<20	0.36	0.02	0.23	<2	0.99	<5	<5
MF08-30-220B	Rock Chip	0.070	14	5	0.45	136	0.111	<20	0.95	0.11	0.43	<2	<0.05	<5	19
MF08-30-221	Drill Core	0.055	26	<1	0.17	50	0.053	<20	0.59	0.04	0.24	<2	0.82	<5	11
MF08-30-222	Drill Core	0.050	22	2	0.20	59	0.064	<20	0.67	0.05	0.24	<2	0.55	<5	14
MF08-30-223	Drill Core	0.054	20	1	0.25	115	0.088	<20	0.68	0.05	0.31	<2	0.19	<5	17
MF08-30-224	Drill Core	0.058	21	2	0.28	70	0.092	<20	0.78	0.05	0.21	<2	0.17	<5	17
MF08-30-225	Drill Core	0.054	23	2	0.24	79	0.082	<20	0.68	0.05	0.23	<2	0.19	<5	15
MF08-30-226	Drill Core	0.046	24	2	0.20	115	0.068	<20	0.60	0.06	0.33	22	0.30	<5	12
MF08-30-227	Drill Core	0.051	24	2	0.24	132	0.079	<20	0.64	0.06	0.37	<2	0.18	<5	7
MF08-30-228	Drill Core	0.057	29	2	0.24	63	0.066	<20	0.73	0.04	0.25	<2	0.07	<5	7
MF08-30-229	Drill Core	0.052	27	2	0.23	117	0.074	<20	0.70	0.05	0.34	<2	0.17	<5	8
MF08-30-230	Drill Core	0.052	26	2	0.28	116	0.089	<20	0.78	0.06	0.30	<2	0.10	<5	10
MF08-30-231	Drill Core	0.056	25	2	0.27	129	0.085	<20	0.70	0.06	0.34	<2	0.23	<5	9
MF08-30-232	Drill Core	0.052	27	2	0.22	100	0.068	<20	0.66	0.05	0.32	<2	0.31	<5	8
MF08-30-233	Drill Core	0.051	26	3	0.25	89	0.079	<20	0.76	0.06	0.25	<2	0.09	<5	8
MF08-30-234	Drill Core	0.059	25	2	0.29	123	0.090	<20	0.75	0.06	0.33	<2	0.19	<5	9
MF08-30-235	Drill Core	0.060	25	2	0.24	74	0.078	<20	0.75	0.04	0.25	<2	0.13	<5	8
MF08-30-236	Drill Core	0.062	23	2	0.24	79	0.084	<20	1.02	0.04	0.27	<2	0.19	<5	9
MF08-30-237	Drill Core	0.058	31	3	0.33	114	0.104	<20	0.83	0.07	0.29	<2	<0.05	<5	12
MF08-30-238	Drill Core	0.058	24	2	0.25	126	0.081	<20	0.66	0.05	0.34	<2	0.18	<5	9
MF08-30-239	Drill Core	0.055	25	2	0.27	152	0.084	<20	0.68	0.06	0.39	<2	0.16	<5	9
MF08-30-240	Drill Core	0.051	24	2	0.27	146	0.087	<20	0.67	0.07	0.39	<2	0.24	<5	9
MF08-30-240S	Rock Pulp	0.033	5	105	0.09	168	0.003	<20	0.37	0.03	0.20	<2	0.38	<5	<5
MF08-30-241	Drill Core	0.052	24	2	0.23	103	0.074	<20	0.67	0.05	0.32	7	0.15	<5	7
MF08-30-242	Drill Core	0.057	28	2	0.28	137	0.092	<20	0.69	0.06	0.36	<2	0.12	<5	10
MF08-30-243	Drill Core	0.060	27	2	0.20	84	0.052	<20	0.70	0.04	0.32	<2	0.14	<5	6
MF08-30-244	Drill Core	0.060	30	2	0.27	79	0.083	<20	0.74	0.05	0.25	<2	<0.05	<5	9

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Project: MacFarlane
Report Date: September 23, 2011

CERTIFICATE OF ANALYSIS VAN11004241.1

Method		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
MF08-30-245	Drill Core	3.03	<0.005	<1	1	3	71	<0.3	<1	2	248	1.44	<2	<2	9	96	<0.5	<3	<3	20	0.51
MF08-30-246	Drill Core	2.84	<0.005	29	4	7	42	<0.3	<1	2	189	0.92	<2	<2	7	90	<0.5	<3	<3	7	0.97
MF08-30-247	Drill Core	2.86	<0.005	41	4	16	69	<0.3	<1	1	205	0.80	<2	<2	11	99	<0.5	<3	<3	7	1.01
MF08-30-248	Drill Core	3.37	0.005	16	6	7	91	<0.3	<1	<1	249	0.80	<2	<2	11	103	<0.5	<3	<3	8	0.68
MF08-30-249	Drill Core	3.00	0.006	60	6	13	75	<0.3	<1	2	283	1.19	<2	<2	11	126	<0.5	<3	<3	7	0.99
MF08-30-250	Drill Core	2.93	<0.005	37	7	8	96	<0.3	<1	<1	299	0.87	<2	<2	11	155	<0.5	<3	<3	10	0.64
MF08-30-251	Drill Core	2.95	0.006	4	4	6	79	<0.3	<1	<1	269	0.70	<2	<2	11	122	<0.5	<3	<3	7	1.19
MF08-30-252	Drill Core	3.15	<0.005	3	6	11	71	<0.3	<1	<1	292	0.60	<2	<2	10	118	<0.5	<3	<3	5	1.32
MF08-30-253	Drill Core	2.45	0.007	13	6	14	53	<0.3	<1	1	316	0.86	<2	<2	14	183	<0.5	<3	<3	6	1.70
MF08-30-254	Drill Core	2.74	<0.005	<1	1	9	50	<0.3	<1	2	244	1.03	<2	<2	12	242	<0.5	<3	<3	11	1.27
MF08-30-255	Drill Core	2.84	0.007	<1	3	8	56	<0.3	<1	2	221	1.22	<2	<2	10	147	<0.5	<3	<3	15	0.85
MF08-30-256	Drill Core	2.89	0.005	<1	2	<3	38	<0.3	1	1	159	0.77	<2	<2	11	81	<0.5	<3	<3	10	0.43
MF08-30-257	Drill Core	2.18	<0.005	<1	<1	12	12	<0.3	<1	<1	68	0.16	<2	<2	11	42	<0.5	<3	<3	<1	0.40
MF08-30-258	Drill Core	2.92	<0.005	11	1	5	8	<0.3	<1	<1	56	0.17	<2	<2	11	40	<0.5	<3	<3	<1	0.52
MF08-30-259	Drill Core	3.24	<0.005	<1	<1	5	3	<0.3	<1	<1	60	0.22	<2	<2	11	29	<0.5	<3	<3	<1	0.46
MF08-30-260	Drill Core	2.52	0.005	<1	<1	4	2	<0.3	<1	<1	60	0.32	<2	<2	9	51	<0.5	<3	<3	<1	0.57
MF08-30-260S	Rock Pulp	0.01	0.057	683	4066	16	37	8.9	3	1	229	0.79	8	<2	<2	243	<0.5	15	<3	6	0.78
MF08-30-260B	Rock Chip	0.19	<0.005	1	4	5	42	<0.3	1	4	508	1.85	<2	<2	5	73	<0.5	<3	<3	33	0.60
MF08-30-261	Drill Core	2.66	0.007	5	1	10	7	<0.3	<1	<1	64	0.22	<2	<2	8	49	<0.5	<3	<3	1	0.45
MF08-30-262	Drill Core	2.64	0.007	1	2	9	58	<0.3	<1	2	224	1.20	<2	<2	8	66	<0.5	<3	<3	16	0.47
MF08-30-263	Drill Core	2.63	0.005	<1	<1	<3	55	<0.3	<1	2	204	1.27	<2	<2	7	65	<0.5	<3	<3	17	0.41
MF08-30-264	Drill Core	1.87	<0.005	<1	<1	7	51	<0.3	<1	2	197	1.19	<2	<2	8	67	<0.5	<3	<3	15	0.42
MF08-30-265	Drill Core	2.69	<0.005	<1	3	7	43	<0.3	<1	2	215	1.14	<2	<2	7	70	<0.5	<3	<3	12	1.01
MF08-30-266	Drill Core	2.83	<0.005	<1	3	8	53	<0.3	<1	2	235	1.01	<2	<2	6	90	<0.5	<3	7	10	0.72
MF08-30-267	Drill Core	3.49	<0.005	4	5	6	45	<0.3	<1	2	269	1.14	<2	<2	8	119	<0.5	<3	<3	8	1.18
MF08-30-268	Drill Core	2.94	<0.005	<1	2	5	52	<0.3	<1	2	212	1.25	<2	<2	6	69	<0.5	<3	<3	16	0.43
MF08-30-269	Drill Core	2.74	<0.005	<1	1	5	52	<0.3	1	2	200	1.29	<2	<2	7	93	<0.5	<3	<3	17	0.38
MF08-30-270	Drill Core	2.94	<0.005	<1	2	6	58	<0.3	<1	2	228	1.34	<2	<2	7	85	<0.5	<3	<3	18	0.38
MF08-30-271	Drill Core	3.95	<0.005	<1	3	5	64	<0.3	1	2	246	1.32	<2	<2	7	74	<0.5	<3	<3	15	0.55

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Project: MacFarlane
Report Date: September 23, 2011

CERTIFICATE OF ANALYSIS VAN11004241.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	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	5	5
MF08-30-245	Drill Core	0.060	28	2	0.32	147	0.103	<20	0.78	0.07	0.39	<2	0.07	<5	10
MF08-30-246	Drill Core	0.045	18	2	0.12	63	0.038	<20	0.49	0.04	0.26	<2	0.45	<5	<5
MF08-30-247	Drill Core	0.072	27	1	0.11	75	0.057	<20	0.66	0.03	0.35	<2	0.48	<5	6
MF08-30-248	Drill Core	0.065	30	2	0.21	82	0.068	<20	0.60	0.04	0.31	<2	0.35	<5	7
MF08-30-249	Drill Core	0.064	23	2	0.17	75	0.051	<20	0.59	0.05	0.30	<2	0.91	<5	6
MF08-30-250	Drill Core	0.062	22	3	0.26	84	0.072	<20	0.65	0.05	0.30	<2	0.30	<5	7
MF08-30-251	Drill Core	0.065	23	2	0.17	73	0.055	<20	0.63	0.03	0.30	<2	0.30	<5	6
MF08-30-252	Drill Core	0.062	25	<1	0.13	74	0.038	<20	0.54	0.04	0.27	<2	0.26	<5	<5
MF08-30-253	Drill Core	0.067	26	2	0.16	58	0.039	<20	0.71	0.05	0.32	<2	0.46	<5	5
MF08-30-254	Drill Core	0.058	32	2	0.19	49	0.095	<20	0.93	0.03	0.29	<2	0.09	<5	9
MF08-30-255	Drill Core	0.058	31	3	0.25	41	0.096	<20	0.87	0.05	0.23	<2	0.09	<5	10
MF08-30-256	Drill Core	0.033	22	3	0.16	38	0.056	<20	0.52	0.05	0.16	<2	<0.05	<5	6
MF08-30-257	Drill Core	0.006	8	1	0.01	39	0.004	<20	0.19	0.05	0.13	<2	<0.05	<5	<5
MF08-30-258	Drill Core	0.005	7	<1	<0.01	88	0.004	<20	0.18	0.04	0.14	<2	<0.05	<5	<5
MF08-30-259	Drill Core	0.005	6	<1	0.01	19	0.003	<20	0.18	0.05	0.14	<2	0.05	<5	<5
MF08-30-260	Drill Core	0.006	4	1	<0.01	325	0.001	<20	0.20	0.04	0.15	<2	0.22	<5	<5
MF08-30-260S	Rock Pulp	0.031	4	78	0.08	166	0.004	<20	0.28	0.03	0.16	<2	0.34	<5	<5
MF08-30-260B	Rock Chip	0.073	10	3	0.51	121	0.094	<20	0.82	0.08	0.40	<2	<0.05	<5	8
MF08-30-261	Drill Core	0.008	8	<1	0.02	94	0.003	<20	0.18	0.04	0.13	<2	0.07	<5	<5
MF08-30-262	Drill Core	0.050	18	3	0.29	140	0.079	<20	0.67	0.06	0.36	<2	<0.05	<5	8
MF08-30-263	Drill Core	0.052	19	2	0.29	126	0.086	<20	0.66	0.06	0.33	<2	<0.05	<5	8
MF08-30-264	Drill Core	0.049	21	2	0.29	101	0.079	<20	0.65	0.06	0.27	<2	<0.05	<5	7
MF08-30-265	Drill Core	0.050	17	1	0.23	60	0.055	<20	0.81	0.04	0.20	<2	0.14	<5	7
MF08-30-266	Drill Core	0.048	16	1	0.21	78	0.049	<20	0.51	0.04	0.24	<2	0.23	<5	<5
MF08-30-267	Drill Core	0.083	21	1	0.16	104	0.034	<20	0.48	0.04	0.22	<2	0.55	<5	<5
MF08-30-268	Drill Core	0.055	16	2	0.29	118	0.077	<20	0.63	0.06	0.32	<2	0.08	<5	8
MF08-30-269	Drill Core	0.051	18	3	0.30	140	0.083	<20	0.66	0.06	0.35	<2	<0.05	<5	9
MF08-30-270	Drill Core	0.054	19	2	0.31	152	0.089	<20	0.68	0.06	0.39	<2	<0.05	<5	9
MF08-30-271	Drill Core	0.053	18	2	0.30	80	0.079	<20	0.69	0.06	0.22	<2	0.09	<5	8

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QUALITY CONTROL REPORT VAN11004241.1

	Method	WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
MF08-30-137	Drill Core	2.95	<0.005	1	<1	<3	97	<0.3	2	<1	329	1.69	<2	<2	8	68	<0.5	<3	<3	28	0.53
REP MF08-30-137	QC		<0.005																		
MF08-30-149	Drill Core	2.67	0.008	<1	<1	<3	90	<0.3	2	<1	309	1.76	<2	<2	5	133	<0.5	<3	<3	31	0.41
REP MF08-30-149	QC		0.008																		
MF08-30-156	Drill Core	2.96	0.008	<1	<1	<3	83	<0.3	2	<1	330	1.56	<2	<2	7	131	<0.5	<3	<3	20	0.83
REP MF08-30-156	QC			<1	<1	<3	84	<0.3	2	<1	334	1.56	<2	<2	7	138	<0.5	<3	<3	20	0.85
MF08-30-166	Drill Core	2.72	0.006	8	<1	5	26	<0.3	<1	<1	130	0.63	<2	<2	6	56	<0.5	<3	<3	5	0.32
REP MF08-30-166	QC			8	<1	5	27	<0.3	<1	<1	132	0.62	<2	<2	6	57	<0.5	<3	<3	6	0.32
MF08-30-194	Drill Core	2.94	<0.005	29	<1	<3	61	<0.3	<1	2	209	1.17	<2	<2	8	76	<0.5	<3	<3	16	0.46
REP MF08-30-194	QC		0.005																		
MF08-30-200	Drill Core	2.92	<0.005	3	<1	<3	67	<0.3	1	<1	240	1.37	<2	<2	5	67	<0.5	<3	<3	20	0.37
REP MF08-30-200	QC			4	<1	<3	68	<0.3	<1	<1	243	1.38	<2	<2	6	68	<0.5	<3	<3	21	0.37
MF08-30-204	Drill Core	2.37	0.005	5	<1	6	74	<0.3	<1	<1	258	1.48	<2	<2	4	94	<0.5	<3	<3	21	0.45
REP MF08-30-204	QC		0.005																		
MF08-30-240	Drill Core	3.32	0.007	57	<1	<3	52	<0.3	<1	2	187	1.37	<2	<2	7	100	<0.5	<3	<3	18	0.43
REP MF08-30-240	QC			57	<1	<3	52	<0.3	<1	2	191	1.39	<2	<2	8	101	<0.5	<3	<3	18	0.43
MF08-30-257	Drill Core	2.18	<0.005	<1	<1	12	12	<0.3	<1	<1	68	0.16	<2	<2	11	42	<0.5	<3	<3	<1	0.40
REP MF08-30-257	QC		0.005																		
MF08-30-261	Drill Core	2.66	0.007	5	1	10	7	<0.3	<1	<1	64	0.22	<2	<2	8	49	<0.5	<3	<3	1	0.45
REP MF08-30-261	QC			6	1	15	6	<0.3	<1	<1	65	0.22	<2	<2	8	48	<0.5	<3	<3	1	0.45
Core Reject Duplicates																					
MF08-30-139	Drill Core	2.33	<0.005	4	1	3	95	<0.3	2	<1	328	1.63	<2	<2	6	133	<0.5	<3	<3	20	1.05
DUP MF08-30-139	QC		0.006	4	<1	3	92	<0.3	1	<1	321	1.56	<2	<2	7	145	<0.5	<3	<3	19	1.09
MF08-30-171	Drill Core	2.80	0.007	12	1	8	73	<0.3	<1	2	244	1.25	<2	<2	8	257	<0.5	<3	<3	15	0.83
DUP MF08-30-171	QC		0.010	14	1	9	71	<0.3	<1	2	235	1.24	<2	<2	9	307	<0.5	<3	6	15	0.83
MF08-30-203	Drill Core	3.21	0.006	1065	2	5	57	<0.3	<1	<1	207	1.27	<2	<2	4	60	<0.5	<3	<3	15	0.48
DUP MF08-30-203	QC		0.006	1233	2	4	60	<0.3	<1	<1	211	1.28	<2	<2	3	66	<0.5	<3	<3	15	0.50
MF08-30-236	Drill Core	2.85	<0.005	<1	<1	<3	55	<0.3	<1	2	209	1.23	<2	<2	8	208	<0.5	<3	<3	15	1.23

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QUALITY CONTROL REPORT VAN11004241.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
	Unit	%	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	5	5
Pulp Duplicates															
MF08-30-137	Drill Core	0.091	22	6	0.45	298	0.129	<20	0.84	0.06	0.62	<2	0.20	<5	<5
REP MF08-30-137	QC														
MF08-30-149	Drill Core	0.083	18	6	0.48	260	0.145	<20	0.90	0.06	0.59	<2	<0.05	<5	<5
REP MF08-30-149	QC														
MF08-30-156	Drill Core	0.082	21	5	0.42	60	0.108	<20	0.81	0.04	0.18	<2	0.15	<5	<5
REP MF08-30-156	QC	0.083	22	5	0.42	60	0.112	<20	0.85	0.04	0.18	<2	0.16	<5	<5
MF08-30-166	Drill Core	0.022	9	2	0.08	31	0.028	<20	0.38	0.04	0.18	<2	0.11	<5	<5
REP MF08-30-166	QC	0.022	9	2	0.09	32	0.029	<20	0.38	0.04	0.18	<2	0.11	<5	<5
MF08-30-194	Drill Core	0.053	22	2	0.24	141	0.078	<20	0.61	0.06	0.37	<2	0.19	<5	6
REP MF08-30-194	QC														
MF08-30-200	Drill Core	0.053	27	3	0.30	194	0.107	20	0.77	0.09	0.50	<2	<0.05	<5	21
REP MF08-30-200	QC	0.053	28	<1	0.31	197	0.108	<20	0.78	0.09	0.51	<2	<0.05	<5	22
MF08-30-204	Drill Core	0.056	26	2	0.33	169	0.110	<20	0.82	0.07	0.40	<2	<0.05	<5	21
REP MF08-30-204	QC														
MF08-30-240	Drill Core	0.051	24	2	0.27	146	0.087	<20	0.67	0.07	0.39	<2	0.24	<5	9
REP MF08-30-240	QC	0.051	25	2	0.28	149	0.089	<20	0.69	0.07	0.39	<2	0.24	<5	9
MF08-30-257	Drill Core	0.006	8	1	0.01	39	0.004	<20	0.19	0.05	0.13	<2	<0.05	<5	<5
REP MF08-30-257	QC														
MF08-30-261	Drill Core	0.008	8	<1	0.02	94	0.003	<20	0.18	0.04	0.13	<2	0.07	<5	<5
REP MF08-30-261	QC	0.008	8	<1	0.02	94	0.004	<20	0.18	0.04	0.13	<2	0.07	<5	<5
Core Reject Duplicates															
MF08-30-139	Drill Core	0.086	18	4	0.38	53	0.100	<20	0.87	0.04	0.16	<2	0.33	<5	<5
DUP MF08-30-139	QC	0.083	19	3	0.36	53	0.103	<20	0.90	0.04	0.17	<2	0.35	<5	<5
MF08-30-171	Drill Core	0.058	22	2	0.25	81	0.082	<20	0.77	0.05	0.23	<2	0.15	<5	6
DUP MF08-30-171	QC	0.056	22	3	0.24	83	0.080	<20	0.80	0.05	0.24	<2	0.18	<5	7
MF08-30-203	Drill Core	0.047	21	3	0.22	130	0.075	<20	0.61	0.06	0.37	<2	0.36	<5	15
DUP MF08-30-203	QC	0.047	21	2	0.23	137	0.077	<20	0.65	0.07	0.39	<2	0.35	<5	15
MF08-30-236	Drill Core	0.062	23	2	0.24	79	0.084	<20	1.02	0.04	0.27	<2	0.19	<5	9

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Suite 200, 44 - 12th Ave. S.
Cranbrook BC V1C 2R7 Canada

Project: MacFarlane
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QUALITY CONTROL REPORT VAN11004241.1

		WGHT Wgt kg 0.01	G6 Au ppm 0.005	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Au ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01
DUP MF08-30-236	QC		<0.005	<1	<1	3	56	<0.3	<1	2	202	1.19	<2	<2	8	184	<0.5	<3	<3	15	1.13
MF08-30-268	Drill Core	2.94	<0.005	<1	2	5	52	<0.3	<1	2	212	1.25	<2	<2	6	69	<0.5	<3	<3	16	0.43
DUP MF08-30-268	QC		<0.005	<1	2	4	52	<0.3	<1	2	211	1.24	<2	<2	6	68	<0.5	<3	<3	15	0.43
Reference Materials																					
STD DS8	Standard			15	102	116	319	1.6	39	8	610	2.47	28	<2	7	66	2.4	4	6	42	0.72
STD DS8	Standard			16	106	121	322	1.7	40	5	618	2.53	23	<2	5	64	2.5	<3	<3	43	0.72
STD DS8	Standard			15	105	125	325	1.3	39	8	617	2.50	27	<2	7	67	2.3	5	7	44	0.71
STD DS8	Standard			14	106	115	321	1.6	39	5	594	2.46	26	<2	6	63	2.4	<3	8	41	0.69
STD DS8	Standard			12	106	119	322	1.6	37	8	602	2.46	27	<2	6	61	2.2	5	7	40	0.66
STD OREAS45CA	Standard			1	519	15	60	<0.3	259	93	917	16.27	4	<2	8	14	<0.5	<3	<3	209	0.42
STD OREAS45CA	Standard			1	519	17	62	<0.3	256	92	931	16.80	<2	<2	<2	15	0.5	<3	<3	210	0.45
STD OREAS45CA	Standard			1	530	16	61	<0.3	265	97	941	16.81	5	<2	8	15	<0.5	<3	<3	219	0.44
STD OREAS45CA	Standard			1	497	16	63	0.3	243	89	911	15.71	4	<2	6	15	1.0	<3	<3	212	0.43
STD OREAS45CA	Standard			1	483	19	57	<0.3	227	91	921	15.67	3	<2	7	14	<0.5	<3	<3	204	0.44
STD OXH82	Standard		1.387																		
STD OXH82	Standard		1.291																		
STD OXH82	Standard		1.330																		
STD OXH82	Standard		1.372																		
STD OXH82	Standard		1.375																		
STD OXH82	Standard		1.363																		
STD OXK79	Standard		3.805																		
STD OXK79	Standard		3.553																		
STD OXK79	Standard		3.573																		
STD OXK79	Standard		3.724																		
STD OXK79	Standard		3.617																		
STD OXK79	Standard		3.747																		
STD OXH82 Expected			1.278																		
STD OXK79 Expected			3.532																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7

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		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
DUP MF08-30-236	QC	0.061	23	2	0.24	79	0.081	<20	0.92	0.04	0.26	<2	0.17	<5	10
MF08-30-268	Drill Core	0.055	16	2	0.29	118	0.077	<20	0.63	0.06	0.32	<2	0.08	<5	8
DUP MF08-30-268	QC	0.054	16	<1	0.29	114	0.077	<20	0.62	0.05	0.31	<2	0.08	<5	7
Reference Materials															
STD DS8	Standard	0.082	15	119	0.61	293	0.104	<20	0.92	0.09	0.42	<2	0.17	<5	11
STD DS8	Standard	0.081	15	126	0.61	294	0.111	<20	0.92	0.09	0.41	<2	0.17	<5	19
STD DS8	Standard	0.083	15	121	0.62	293	0.106	<20	0.91	0.09	0.41	2	0.17	<5	7
STD DS8	Standard	0.079	13	112	0.60	292	0.107	<20	0.87	0.08	0.40	3	0.17	<5	<5
STD DS8	Standard	0.080	12	112	0.61	286	0.098	<20	0.85	0.08	0.40	<2	0.16	<5	8
STD OREAS45CA	Standard	0.039	17	749	0.14	160	0.123	<20	3.90	<0.01	0.08	<2	<0.05	47	15
STD OREAS45CA	Standard	0.041	17	773	0.13	162	0.115	<20	3.78	<0.01	0.07	<2	<0.05	46	27
STD OREAS45CA	Standard	0.037	17	771	0.15	164	0.141	<20	3.90	<0.01	0.08	<2	<0.05	47	12
STD OREAS45CA	Standard	0.038	16	709	0.13	165	0.124	<20	3.34	0.01	0.07	<2	<0.05	45	<5
STD OREAS45CA	Standard	0.039	16	676	0.13	162	0.104	<20	3.20	<0.01	0.07	<2	<0.05	43	15
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXK79	Standard														
STD OXH82 Expected															
STD OXK79 Expected															
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7

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		WGHT	G6	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank		0.005																		
BLK	Blank		0.007																		
BLK	Blank		0.005																		
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank		0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<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	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.007	<1	1	<3	49	<0.3	3	2	525	1.98	14	<2	5	61	<0.5	<3	<3	37	0.52
G1	Prep Blank	<0.01	0.006	<1	1	<3	48	<0.3	2	1	541	1.98	2	<2	5	66	<0.5	<3	<3	37	0.54

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		1D P % 0.001	1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Sc ppm 5	1D Ga ppm 5
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
Prep Wash															
G1	Prep Blank	0.078	11	6	0.61	133	0.111	<20	0.89	0.06	0.50	<2	<0.05	<5	<5
G1	Prep Blank	0.078	11	5	0.56	138	0.113	<20	0.89	0.07	0.47	<2	<0.05	<5	<5