Ministry of Energy and Mines BC Geological Survey

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S)_nx-13-154 YEAR OF WORK 2010 STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) Event No. 4838155 Feb 21, 2010

Propertiname CAPTAIN
CLAM NaMES (On which work was done) Tenvie Nos 550298, 550254, 553521, 707061

COMMODITIES SOUGHT $\qquad$ $\mathrm{An}, \mathrm{Cu}$
MINERAL INVENTORY MISFILE NUMBERS), IF KNOWN $\qquad$ minna omision_Cariboo, Omineca $\qquad$ NiTs $93 \mathrm{~J} / 13$ LATITUDE $\qquad$ 54 - 57 - longitude $1233^{\circ} 50$. $\qquad$ - (at centre of work) OWNER (S)

1) Orestone mining Corp 2) $\qquad$
$\qquad$
$\qquad$
MAILING ADDRESS

$$
975-163 \text { Street }
$$

Whiterock BC V4A 978
$\qquad$
$\qquad$
OPERATOR(S) [who paid for the work]

1) $\qquad$ Orestone mining corp 2) $\qquad$
$\qquad$
MAILING ADDRESS
$\qquad$
$\qquad$
$\qquad$
$\qquad$
PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Takla volcanics, breccia, pyrite, chalco pyrite
$\qquad$
$\qquad$
$\qquad$
REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS $\qquad$

$$
17547,17873,21430,31780,29908,30194,30912
$$

| TYPE OF WORK IN EXTENT OF WORK <br> THIS REPORT (IN METRIC UNITS) | ON WHICH CLAIMS | PROJECT COSTS APPORTIONED (incl. support) |
| :---: | :---: | :---: |
| GEOLOGICAL (scale, area) |  |  |
| Ground, mapping |  |  |
| Photo interpretation |  |  |
| GEOPHYSICAL (line-kilometres) |  |  |
| Ground |  |  |
| Magnetic 5 km |  |  |
| Electromagnetic |  |  |
| Induced Polarization 5 km | 550248,553522 | 9336.76 |
| Radiometric | 707061 |  |
| Seismic |  |  |
| Other |  |  |
| Airborne |  |  |
| GEOCHEMICAL <br> (number of samples analysed for ...) |  |  |
|  |  |  |
| Soil $\qquad$ 191 samples $A_{h}$ | 550254, 550248, | $18,285.77$ |
| Silt | 553522,707061 |  |
| Rock |  |  |
| Other |  |  |
| DRILLING |  |  |
| (total metres; number of holes, size) |  |  |
| Core |  |  |
| Non-core |  |  |
| RELATED TECHNICAL |  |  |
| Sampling/assaying split tsample core 37 samples | 550248 | 5000.00 |
| Petrographic |  |  |
| Mineralographic |  |  |
| Metallurgic |  |  |
| PROSPECTING (scale, area) |  |  |
| PREPARATORY/PHYSICAL |  |  |
| Line/grid (kilometres) |  |  |
| Topographic/Photogrammetric (scale, area) $\qquad$ |  |  |
| Legal surveys (scale, area) |  |  |
| Road, local access (kilometres)/trail |  |  |
| Trench (metres) |  |  |
| Underground dev. (metres) |  |  |
| Other |  |  |
|  | TOTAL COST | 砋解 $32,622.5$ |

# INDUCED POLARIZATION - SOIL \&CORE GEOCHEMICAL ASSESSMENT REPORT <br> on the <br> CAPTAIN PROPERTY <br> Cariboo and Omineca Mining Divisions 

## CLAIMS WORKED ON

550248, 550254, 553521, 707061.

LOCATION<br>NTS 93J/13<br>Latitude: $54^{\circ} 57^{\prime} \mathrm{N}$<br>Longitude: $123^{\circ} 50^{\prime} \mathrm{W}$<br>NAD 83 Zone 10<br>6,076,271N/441,292E

| BC Geological Survey |
| :---: |
| Assessment Report |
| 32173 |

OWNER-OPERATOR<br>Orestone Mining Corp<br>975-163 Street<br>Whiterock, B.C., V4A 9T8

PREPARED BY
Gordon G Richards P.Eng.
Ruanco Enterprises Ltd
6410 Holly Park Drive
Delta, B.C., V4K 4W6

April 20, 2011

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### 1.0 INTRODUCTION

Orestone Mining Corp. ("ORS" or "Orestone") holds contiguous mineral tenures referred to as the Captain Property (CP). The Captain Property, within the Cariboo and Omineca Mining Divisions, covers about 41,000 hectares of prospective Quesnel Terrane. The property is centered about 65 kilometers northeast of Fort St. James in the Nechako Plateau area of north-central British Columbia. The property covers several areas of copper-gold +/- molybdenum mineralization located in outcrop, float and historic drill holes and a number of large, untested or partially-tested IP chargeability anomalies which may represent pyrite $\pm$ chalcopyrite mineralization of an overburden-covered or buried, copper-gold +/molybdenum mineralized center in an alkalic porphyry setting. DDH 09-05 completed in Dec, 2009 yielded encouraging Au and Cu assays from nine samples collected from this hole.

Work in 2010 began in July with an Induced Polarization survey along the McLeod-Tsilcoh Forest Service Road over a five km length starting from the west end of a previous IP survey along this same road. In September to early October a preliminary Ah soil survey was completed adjacent to the 2010 IP survey and a second sub parallel line to the north. At the same time, the remaining unsplit core from DDH 09-05 was split and assayed. This work is the subject of this report.

A target for discovery of an alkali $\mathrm{Cu}-\mathrm{Au}$ porphyry deposit has been defined based on aeromagnetic, I.P., Ah soil, and DDH 09-05 assay data. More work is recommended.

### 2.0 PROPERTY CLAIMS. Figure 2 and Table 1

The Captain Property, consisting of about 41,000 hectares is situated in the Cariboo and Omineca Mining Divisions. It is centered near coordinates $54^{\circ} 57^{\prime} \mathrm{N}$ latitude and $123^{\circ} 50^{\prime} \mathrm{W}$ longitude in 1: 50,000 map sheet NTS 093J13. Expiry dates of all claims listed in Table 1 has been extended by applying work described in this report.

### 3.0 LOCATION AND ACCESS. Figure 1.

Access to the QTSP is driving via 45 to 50 km along Highway 27 North from Fort St. James and then via the McLeod-Tsilcoh and GermansenCripple Forest Service Roads. The Forest Service Roads lead easterly and northeasterly over a distance of about 15 km to the property boundary. Driving time from Fort St. James is about $11 / 4$ hours. Spur roads off the


Figure 6.1 General Location Plan CP, British Columbia, Canada
Figure 1. General Location Plan Captain Property.


Table 1. Captain Property Titles

| Tenure Number | Claim Name | Map <br> Number | Issue Date | Good To Date | Area (ha) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 516387 |  | 093J | 2005/jul/08 | 2010/dec/31 | 259.821 |
| 516406 |  | 093J | 2005/jul/08 | 2015/aug/15 | 519.803 |
| 516408 |  | 093J | 2005/jul/08 | 2015/aug/15 | 650.054 |
| 516410 |  | 093J | 2005/jul/08 | 2015/aug/15 | 557.277 |
| 516418 |  | 093J | 2005/jul/08 | 2012/aug/15 | 92.913 |
| 516420 |  | 093J | 2005/jul/08 | 2015/aug/15 | 111.495 |
| 516455 |  | 093J | 2005/jul/08 | 2015/aug/15 | 222.956 |
| 532784 | CAPTAIN 19 | 093J | 2006/apr/20 | 2012/aug/15 | 464.134 |
| 532786 | CAPTAIN 20 | 093J | 2006/apr/20 | 2010/dec/31 | 408.256 |
| 532788 | CAPTAIN 21 | 093J | 2006/apr/20 | 2010/dec/31 | 446.073 |
| 532789 | CAPTAIN 22 | 093J | 2006/apr/20 | 2010/dec/31 | 278.778 |
| 549073 | ADMIRAL 1 | 093J | 2007/jan/10 | 2011/aug/15 | 445.7252 |
| 549075 | ADMIRAL 2 | 093J | 2007/jan/10 | 2011/aug/15 | 445.7226 |
| 549277 | CAPTAIN 23 | 093J | 2007/jan/13 | 2012/aug/15 | 371.4794 |
| 549278 | CAPTAIN 24 | 093J | 2007/jan/13 | 2010/dec/31 | 371.6321 |
| 550248 |  | 093J | 2007/jan/25 | 2012/aug/15 | 391.2316 |
| 550251 | COMMODORE | 093J | 2007/jan/25 | 2010/dec/31 | 391.3517 |
| 550254 | COMMODORE 1 | 093J | 2007/jan/25 | 2012/aug/15 | 465.7453 |
| 550256 | COMMODORE 2 | 093J | 2007/jan/25 | 2010/dec/31 | 465.9656 |
| 550257 | COMMODORE 3 | 093J | 2007/jan/25 | 2010/dec/31 | 130.4182 |
| 550261 | COMMODORE 4 | 093J | 2007/jan/25 | 2010/dec/31 | 205.0841 |
| 550336 | FATHOM | 093J | 2007/jan/26 | 2015/aug/15 | 465.1711 |
| 550337 | ADMIRAL 3 | 093J | 2007/jan/26 | 2010/dec/31 | 445.7245 |
| 550338 | ADMIRAL 4 | 093J | 2007/jan/26 | 2010/dec/31 | 371.6475 |
| 550339 | FATHOM 1 | 093J | 2007/jan/26 | 2012/aug/15 | 465.3058 |
| 550340 | ADMIRAL 5 | 093J | 2007/jan/26 | 2010/dec/31 | 371.6474 |
| 550341 | FATHOM 2 | 093J | 2007/jan/26 | 2010/dec/31 | 428.2275 |
| 550343 | ADMIRAL 6 | 093J | 2007/jan/26 | 2010/dec/31 | 464.2742 |
| 550344 | FATHOM 3 | 093J | 2007/jan/26 | 2012/aug/15 | 390.5644 |
| 550345 | ADMIRAL 7 | 093J | 2007/jan/26 | 2010/dec/31 | 464.5133 |
| 550346 | ADMIRAL 8 | 093J | 2007/jan/26 | 2010/dec/31 | 334.5768 |
| 550347 | COMMODORE 5 | 093J | 2007/jan/26 | 2010/dec/31 | 37.2792 |
| 550348 | COMMODORE 6 | 093J | 2007/jan/26 | 2010/dec/31 | 37.2867 |
| 550353 | ADMIRAL 9 | 093J | 2007/jan/26 | 2010/dec/31 | 222.9644 |
| 550354 | FATHOM 4 | 093J | 2007/jan/26 | 2015/aug/15 | 18.6071 |
| 550740 | FATHOM 5 | 093K | 2007/jan/30 | 2012/aug/15 | 427.8603 |
| 550741 | FATHOM 6 | 093J | 2007/jan/30 | 2015/aug/15 | 316.3181 |
| 550947 | FATHOM 7 | 093K | 2007/feb/01 | 2010/dec/31 | 297.6391 |
| 550948 | COMMODORE 7 | 093J | 2007/feb/01 | 2010/dec/31 | 465.9599 |
| 550949 | COMMODORE 8 | 093J | 2007/feb/01 | 2010/dec/31 | 111.8495 |
| 551573 | COMMODORE 7 | 093J | 2007/feb/10 | 2015/aug/15 | 465.5454 |
| 551574 | COMMODORE 8 | 093J | 2007/feb/10 | 2012/aug/15 | 93.1282 |
| 551575 | FATHOM 8 | 093J | 2007/feb/10 | 2015/aug/15 | 204.7192 |
| 552154 | COMMODORE 9 | 093J | 2007/feb/16 | 2012/aug/15 | 465.3413 |
| 552155 | COMMODORE 10 | 093J | 2007/feb/16 | 2015/aug/15 | 446.874 |


| Tenure Number | Claim Name | Map <br> Number | Issue Date | Good To Date | Area (ha) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 552157 | COMMODORE 11 | 093J | 2007/feb/16 | 2012/aug/15 | 204.7855 |
| 552158 | COMMODORE 12 | 093J | 2007/feb/16 | 2010/dec/31 | 167.6352 |
| 552555 | ADMIRAL 10 | 093J | 2007/feb/23 | 2010/dec/31 | 223.0329 |
| 553521 | COMMODORE 13 | 093J | 2007/mar/04 | 2015/aug/15 | 409.6622 |
| 553522 | COMMODORE 14 | 093J | 2007/mar/04 | 2010/dec/31 | 409.8737 |
| 556719 | CAPTAIN 26 | 093J | 2007/apr/20 | 2012/aug/15 | 278.5092 |
| 556721 | CAPTAIN 25 | 093J | 2007/apr/20 | 2015/aug/15 | 463.9915 |
| 556860 | PLUS 1 | 093J | 2007/apr/20 | 2010/dec/31 | 428.6799 |
| 556861 | PLUS 2 | 093J | 2007/apr/20 | 2010/dec/31 | 447.4551 |
| 556862 | PLUS 3 | 093J | 2007/apr/20 | 2010/dec/31 | 466.1841 |
| 556863 | PLUS 4 | 093J | 2007/apr/20 | 2010/dec/31 | 447.5942 |
| 556865 | PLUS 5 | 093J | 2007/apr/20 | 2010/dec/31 | 466.1797 |
| 556868 | PLUS 6 | 093J | 2007/apr/20 | 2010/dec/31 | 335.7588 |
| 556875 | PLUS 7 | 093J | 2007/apr/20 | 2010/dec/31 | 335.7937 |
| 558751 | SALMON 2 | 093J | 2007/may/16 | 2010/dec/31 | 445.2493 |
| 558753 | SALMON 3 | 093J | 2007/may/16 | 2010/dec/31 | 111.2952 |
| 558754 | SALMON 1 | 0930 | 2007/may/16 | 2010/dec/31 | 445.1125 |
| 558761 | SALMON 4 | 0930 | 2007/may/16 | 2010/dec/31 | 463.1673 |
| 558762 | SALMON 5 | 0930 | 2007/may/16 | 2010/dec/31 | 389.3642 |
| 558763 | SALMON 6 | 093J | 2007/may/16 | 2010/dec/31 | 371.1362 |
| 560302 | HEADING 1 | 093J | 2007/jun/07 | 2010/dec/31 | 92.963 |
| 561484 | CAPTAIN 28 | 093J | 2007/jun/28 | 2010/dec/31 | 371.4412 |
| 561488 | CAPTAIN 27 | 093J | 2007/jun/28 | 2010/dec/31 | 222.7847 |
| 561493 | CAPTAIN 29 | 093J | 2007/jun/28 | 2010/dec/31 | 92.8078 |
| 561495 | CAPTAIN 30 | 093J | 2007/jun/28 | 2010/dec/31 | 55.6961 |
| 561705 | BRIDGE 1 | 093J | 2007/jun/29 | 2010/dec/31 | 464.8454 |
| 561707 | BRIDGE 2 | 093J | 2007/jun/29 | 2011/aug/15 | 464.8433 |
| 561710 | BRIDGE 3 | 093J | 2007/jun/29 | 2010/dec/31 | 465.0822 |
| 561712 | BRIDGE 4 | 093J | 2007/jun/29 | 2010/dec/31 | 465.0804 |
| 561716 | BRIDGE 5 | 093J | 2007/jun/29 | 2010/dec/31 | 464.84 |
| 561718 | BRIDGE 6 | 093J | 2007/jun/29 | 2010/dec/31 | 465.0771 |
| 561721 | BRIDGE 7 | 093J | 2007/jun/29 | 2010/dec/31 | 464.8418 |
| 561723 | BRIDGE 8 | 093J | 2007/jun/29 | 2010/dec/31 | 372.0455 |
| 561724 | BRIDGE 9 | 093J | 2007/jun/29 | 2011/aug/15 | 464.9264 |
| 561725 | BRIDGE 10 | 093J | 2007/jun/29 | 2010/dec/31 | 74.3884 |
| 561726 | HEADING 2 | 093J | 2007/jun/29 | 2010/dec/31 | 371.777 |
| 561727 | HEADING 3 | 093J | 2007/jun/29 | 2010/dec/31 | 111.4761 |
| 561728 | BRIDGE 11 | 093J | 2007/jun/29 | 2010/dec/31 | 465.2444 |
| 561729 | BRIDGE 12 | 093J | 2007/jun/29 | 2010/dec/31 | 278.8784 |
| 564538 | LYNX 1 | 093K | 2007/aug/14 | 2010/dec/31 | 223.4034 |
| 564539 | LYNX 2 | 093K | 2007/aug/14 | 2010/dec/31 | 37.2321 |
| 564540 | LYNX 3 | 093K | 2007/aug/14 | 2010/dec/31 | 18.6189 |
| 580507 | KEEL 1 | 093K | 2008/apr/05 | 2010/dec/31 | 297.7608 |
| 580510 | KEEL 2 | 093K | 2008/apr/05 | 2010/dec/31 | 55.8497 |
| 580512 | KEEL 2 | 093J | 2008/apr/05 | 2010/dec/31 | 111.7164 |
| 580513 | KEEL 4 | 093K | 2008/apr/05 | 2010/dec/31 | 297.6714 |
| 582092 | NORTHEASTER 1 | 093J | 2008/apr/21 | 2010/dec/31 | 463.9431 |
| 582094 | NORTHEASTER 2 | 093J | 2008/apr/21 | 2010/dec/31 | 445.6371 |
| 582110 | NORTHEASTER 3 | 0930 | 2008/apr/21 | 2010/dec/31 | 445.1352 |


| Tenure Number | Claim Name | Map <br> Number | Issue Date | Good To Date | Area (ha) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 583501 | LYNX 2 | 093K | 2008/may/02 | 2010/dec/31 | 446.8019 |
| 583599 |  | 093K | 2008/may/04 | 2010/dec/31 | 446.8111 |
| 584576 | DECK 1 | 093J | 2008/may/19 | 2010/dec/31 | 371.6128 |
| 586434 | ANCHOR 1 | 093J | 2008/jun/16 | 2010/dec/31 | 465.531 |
| 586435 | ANCHOR 2 | 093J | 2008/jun/16 | 2010/dec/31 | 428.4658 |
| 586436 | ANCHOR 3 | 093J | 2008/jun/16 | 2010/dec/31 | 130.4442 |
| 586437 | ANCHOR 4 | 093J | 2008/jun/16 | 2010/dec/31 | 391.2697 |
| 586439 | ANCHOR 5 | 093J | 2008/jun/16 | 2010/dec/31 | 410.222 |
| 586440 | ANCHOR 6 | 093J | 2008/jun/16 | 2010/dec/31 | 466.1598 |
| 586442 | ANCHOR 7 | 093J | 2008/jun/16 | 2010/dec/31 | 410.0332 |
| 586443 | ANCHOR 8 | 093J | 2008/jun/16 | 2010/dec/31 | 466.3531 |
| 586444 | ANCHOR 9 | 093J | 2008/jun/16 | 2010/dec/31 | 447.6687 |
| 586445 | ANCHOR 10 | 093J | 2008/jun/16 | 2010/dec/31 | 447.8057 |
| 586446 | ANCHOR 11 | 093J | 2008/jun/16 | 2010/dec/31 | 261.2672 |
| 707060 | TALL SHIP 1 | 093J | 2010/feb/24 | 2011/feb/24 | 465.7083 |
| 707061 | TALL SHIP 2 | 093J | 2010/feb/24 | 2011/feb/24 | 465.9623 |
| 707062 | TALL SHIP 3 | 093J | 2010/feb/24 | 2011/feb/24 | 466.2032 |
| 707063 | TALL SHIP 4 | 093K | 2010/feb/24 | 2011/feb/24 | 465.7122 |
| 707064 | TALL SHIP 5 | 093K | 2010/feb/24 | 2011/feb/24 | 465.9683 |
| 707065 | TALL SHIP 6 | 093K | 2010/feb/24 | 2011/feb/24 | 466.2089 |
| 707066 | TALL SHIP 7 | 093K | 2010/feb/24 | 2011/feb/24 | 466.182 |
| 707067 | TALL SHIP 8 | 093J | 2010/feb/24 | 2011/feb/24 | 242.0786 |
| 707068 | TALL SHIP 9 | 093J | 2010/feb/24 | 2011/feb/24 | 186.54 |

forest service roads lead into several areas of the property, portions of which have been clear-cut logged. BC Ministry of Forests maps show that alternate road access to the property exists from the town of Mackenzie via the Williston Lake causeway and a system of forest service and company logging roads.

The writer reviewed road access to the property from both Fort St. James and Mackenzie. Although the driving time from both communities is about equal, the route from Fort St. James, which follows well-maintained highway and forest service roads, is the better of the two access routes into the property.

Fort St. James provides a local source of labor and basic supplies and services necessary for exploration programs. The city of Prince George, a further two hours drive via paved Highways 27 and 16, provides geochemical laboratory service, drilling contractors and a larger supply center.

### 4.0 TOPOGRAPHY, VEGETATION \& CLIMATE

The property is located in gently sloping plateau areas with rounded summits typical of the Nechako Plateau of north-central British Columbia. Topography consists of rolling low hills with elevations ranging from about 900 m to $1,100 \mathrm{~m}$. The property lies in the headwaters area of the Salmon River which drains out from Windy Lake (North Salmon Lake) in the northern part of the property.

The claims area is heavily forested with spruce, fir and pine. Much of the pine forests have been killed by pine beetle infestations over the past ten years. Tag alder occurs in some areas of up to several hectares. Small lakes, ponds and swampy areas are common in low-lying areas.

The climate in the region is characterized by short, cool summers and relatively cold winters. Climate statistics (AMEC, 2006) from the nearby Mt. Milligan project indicate total annual precipitation to be 730 mm and the minimum and maximum monthly mean temperatures to be $-15.2^{\circ} \mathrm{C}$ and $14.8^{\circ} \mathrm{C}$ in December and July respectively.

Snow conditions persist from late October to the end of April, but with winter maintenance of the access road, exploration work can be conducted throughout the year.

### 5.0 HISTORY

The following historical description is divided into prior work on various parts of the Captain Property.

### 5.1 Prior Ownership and Exploration Activity

Exploration activity on the CP began in 1985 when prospector Richard Haslinger Sr. of Fort St. James discovered copper mineralization along the banks of the Salmon River in the northern part of the present CP. In 1987, prospector Gerry Klein located copper and molybdenum-bearing float in the northeastern part of the CP. These two discoveries, staked as the Windy and PM properties respectively, led to several major exploration programs being carried out in the CP area by Placer Dome Inc., Noranda Exploration and others during the period 1985-96. Past exploration expenditures on the CP total about $\mathrm{C} \$ 1,400,000$.

Exploration work carried out by previous operators on the Windy and PM portion of the CP is summarized as follows:
Windy Property:

- 1985: Brinco Limited completed a soil geochemical survey over an area trenched by Richard Haslinger immediately north of the Salmon

River. Brinco concluded that alteration, rock types and mineralization are compatible with a porphyry style of mineralization.

- 1986-90: Placer Dome Inc. optioned the Windy property in August 1986 and expanded their land holdings by staking additional legacy claims to the north and northeast. Work completed by Placer in 198690 included: soil geochemical, ground magnetometer, VLF-EM and IP surveys; the excavation of 11 trenches totaling 686 m ; and the drilling of 15 NQ core holes totaling $2,180 \mathrm{~m}$. In 1990, Placer optioned claims immediately to the west of Windy from Tex Gold Resources Ltd. and carried out a program of soil geochemical, ground magnetometer and VLF-EM surveys.
- 1991: Big Bar Gold Corp. farmed into Placer's option on the Windy property and funded a drilling program consisting of 24 percussion holes (total meterage unknown).
- 1996: Columbia Gold Mines Ltd. optioned the Windy property and drilled 8 NQ core holes totaling 547 m .
- 2003: The Windy property lapsed in July and was re-staked as the Captain claims in November by Brian Bowen and Gordon Richards.
- 2004-06: Bowen and Richards carried out modest assessment work programs consisting of MMI geochemical sampling and prospecting on the Captain claims.
- 2007: Bowen and Richards staked a large block of MTO cell claims east, west and south of the original claims. The claims to the east cover the old Alpha and PM properties. Those to the west and south were staked to cover various geochemical and geophysical targets underlain by favourable Quesnel Terrane geology. All claims were subsequently acquired by ORS through a Property Purchase Agreement between ORS (the Purchaser) and Ruanco Enterprises Ltd., Gordon Richards and Brian Bowen (collectively, the Vendors) dated April 30, 2007.


## PM Property:

- 1988: Noranda Exploration optioned Mr. Klein's PM property in (what is now) the northeast part of the CP and completed a small soil geochemical survey in the area of mineralized float.
- 1989-91: Noranda flew an airborne EM-magnetic survey over the property and also completed soil geochemical, ground magnetic and IP surveys and geological mapping.
- 1996: Guinet Management optioned the PM property, completed soil geochemistry and prospecting surveys on it and then drilled 27 percussion holes totaling $1,149 \mathrm{~m}$.


## Alpha Property:

- 1987: The Alpha claims, located between and contiguous with the Windy and PM properties, were staked in March by Mr. E.S. Peters of Vancouver, B.C. In October, a program of prospecting and soil, silt and rock geochemical sampling was completed under the supervision of John Poloni, P. Eng.
- 1989-91: Noranda optioned the Alpha claims and completed soil geochemical, ground magnetic and IP surveys.
- 1994: The Alpha claims lapsed and were re-staked in part by Hudson Bay Exploration \& Development Co. Ltd. and in part by Talisman Silver Corporation. The former conducted prospecting traverses and collected a few rock samples for analyses. The latter completed a program of geological mapping in areas of copper +/- gold soil anomalies identified by Noranda.


### 5.2 Other Past Exploration Activity

Other Captain claims to the west and south of the original claims includes the Admiral-Heading, Bridge and Commodore-Fathom-Plus Claims. During the period 1981-91, Noranda Exploration, Selco Inc., two junior mining companies and one individual carried out a variety of exploration programs in these property areas. A brief summary of the types of work, results and associated costs are presented below. Admiral-Heading claims in west portion of the Property:

Work done on the Admiral-Heading claims by Placer Dome Inc. (1990) and Anthian Resource Corp. (1990) includes airborne and ground magnetometer surveys, a ground VLF survey, grid soil geochemistry, prospecting and geological mapping. Cost of the work totaled approximately $C \$ 100,000$. Soil geochemistry outlined a copper anomaly, measuring about 1 km long by 200-300 m wide, with some associated gold values, in the western part of the Admiral-Heading claims area. The anomaly is coincident with a magnetic high anomaly identified in both airborne and ground surveys. Prospecting and geological mapping identified some pyrite and traces of chalcopyrite in the anomalous area which has limited bedrock exposure.
Bridge claims in the central portion of the Property:
Companies or individuals who carried out work in the Bridge claims area include Selco Inc. (1981-82), Mr. E.S. Peters (1987), Noranda

Exploration (1989-91) and Taseko Mines Ltd. (1990). Work done includes ground magnetometer and EM surveys, silt sampling, prospecting, grid soil geochemistry, an induced polarization survey and the drilling of one diamond drill hole to test a ground EM conductor. Past expenditures total about C $\$ 90,000$.

Ground magnetometer surveys outlined a magnetic high in an area of heavy drift cover south of the Salmon River. Readings from a small induced polarization survey over the magnetic high were considered unreliable. Some silt samples taken from streams draining this general area returned anomalous gold values to 550 ppb . Soil geochemical surveys did not identify any significant copper-gold anomalies, although it was noted in the reports that the effectiveness of conventional soil sampling in areas of heavy drift cover is limited. Prospecting did not locate any mineralized showings; this work was hampered by heavy drift cover which covers a good portion of the Bridge claims area. EM surveys identified a number of conductors, one of which was tested by a single drill hole, 89 m in length. In the drill hole, which cuts a sequence of intercalated black shale and limy wacke, "geochemical values do not rise significantly above background" (AR 11258).

Commodore-Fathom-Plus claims in the southern portion of the Property
Noranda Exploration carried out several work programs on the previously located Tsil property in the western part of the Commodore-Fathom-Plus claims area during the period 1986 and 1988-91. The work, which cost about $\mathrm{C} \$ 120,000$, included an airborne magnetic/resistivity survey, ground magnetometer and induced polarization surveys, grid soil geochemistry, silt sampling, prospecting, geological mapping and the drilling of five reported diamond drill holes in two separate grid areas to test IP chargeability anomalies with anomalous $\mathrm{Cu}-\mathrm{Au}$ soil support.

The airborne survey identified a number of magnetic highs which have been confirmed by ground magnetic surveys and may be associated with possible buried, mineralized alkalic stocks. In one magnetic high area, soil geochemistry outlined a copper anomaly measuring about $700 \times 500 \mathrm{~m}$ with values in the 100-200 ppm range, coincident with an IP chargeability anomaly. Anomalous gold-in-soil values occur in several grid locations, but in general sampling produced scattered and erratic gold results. This may reflect the variable depth and character of overburden in the area. Prospecting and geological mapping identified relatively weak propylitic alteration with pyrite, traces of chalcopyrite and weak copper-gold rock geochemical values near the northeast flank of an IP chargeability anomaly in another part of the property.


Figure 9.1 Regional Geology Plan, QTSP Area
Figure 3. Regional Geological Plan, Captain Property Area.

Five diamond drill holes tested two areas of anomalous IP chargeability response on the Tsil property; no results are available in assessment reports. Gord Maxwell, the geologist who supervised Noranda's past work at Tsil, informed Mr. Bowen (personal communication, 2007) that "although the drill holes encountered variably pyritized rock, no significant copper or gold values were obtained".

### 6.0 GEOLOGICAL SETTING. Figure 3.

The property lies within Quesnel Terrane, part of the Intermontane Belt. The latter is comprised of low metamorphic grade magmatic arc segments consisting of mixed oceanic and continental affinities, and oceanic plates, which amalgamated with North America in Early Jurassic Period.

Quesnel Terrane is characterized by a Late Triassic to Early Jurassic magmatic arc complex that formed along or near the western North American continental margin. Takla Group volcanic and sedimentary rocks comprise the majority of Quesnel Terrane in the map area. Comagmatic intrusions of similar age cut the volcano-sedimentary rocks. The geological setting represented by these lithologies is known to host many alkaline copper-gold porphyry deposits in British Columbia.

Quesnel Terrane is in contact to the east with Proterozoic and Paleozoic carbonates and siliciclastics of Cassiar Terrane, representing part of the ancestral North American miogeocline. In places the Quesnel and Cassiar terranes are separated by an intervening assemblage of Late Paleozoic oceanic rocks assigned to Slide Mountain Terrane. The boundary between the Quesnel and Cassiar terranes is a complex structural zone that includes Early Jurassic, east-directed thrust faults that juxtapose Quesnel Terrane above Cassiar Terrane. These east-directed faults and related folds are locally overprinted by somewhat younger west-directed structures that reverse this stacking order, as well as by dextral strike-slip and normal faults that formed in Cretaceous and early Tertiary time (Schiarizza, 2005).

To the west Quesnel Terrane is in fault contact with Late Paleozoic through mid-Mesozoic oceanic rocks of the Cache Creek Terrane, interpreted to be part of the accretion-subduction complex that was responsible for generating the Quesnel magmatic arc. Younger rocks commonly found in the region include Cretaceous granitic stocks and batholiths, Upper Cretaceous to Eocene Wolverine Metamorphic Complex rocks, Eocene volcanic and sedimentary rocks, and flat-lying basalt of both Neogene and Quaternary age.

### 7.0 EXPLORATION CONCEPT

To date, no mineral resources have been defined on the property. There are, however, widespread copper, gold and lesser molybdenum occurrences in float, outcrop and historic drill holes indicative of two possible styles of mineralization:

1. a porphyry or bulk mineable-type similar to those present on the nearby Mt. Milligan property.
2. a structurally-controlled style of mineralization resulting in a deposit morphology which is more planar and elongate then the porphyry-type.
The Mt. Milligan deposits are alkalic copper-gold porphyry deposits that are associated with alkaline igneous rocks. They commonly consist of stockworks, veinlets and disseminations of pyrite, chalcopyrite, bornite and magnetite that occur in large zones of economically bulk-mineable mineralization in or adjoining porphyritic intrusions of diorite to syenite composition.

In selecting priority drill targets for a porphyry-type deposit, it is best to utilize geophysical methods such as induced polarization (IP) and magnetics, supported by multi-element soil geochemical data. IP can be used to outline large volumes of iron sulphide bearing rock associated with base and precious metals mineralized centers. Magnetics can identify concentrations of magnetite commonly associated with alkaline stocks and zones of potassically-altered, copper, gold and molybdenum-bearing rock. Multi-element soil geochemical surveys have been successful in locating near surface mineralization. For structurally-controlled deposits, the VLFEM geophysical method can aid in the interpretation of a mineralized structure's planar orientation.

### 8.0 WORK CONDUCTED BY ORESTONE 2007 to 2009.

During the months of June and July, 2007, ORS completed programs of Mobile Metal Ion ("MMI") soil geochemical, induced polarization (IP) and ground magnetic surveys on the Windy and PM portions of the property and an MMI survey on the Commodore portion of the property. Cost of the work totaled $\$ 150,844.86$. The IP survey filled in areas between previous IP surveys by Placer and Noranda to form complete chargeability and resistivity patterns for this area. These patterns formed the basis for diamond drilling of five holes during Feb to April 2008.

During 2008 ORS conducted additional IP surveys on lines located across magnetic highs identified from government airborne surveys.

In June to August, 2009 ORS conducted a percussion drill program of 27 holes to test targets identified from all the above mentioned surveys but particularly the IP anomalies. Twenty of these holes penetrated bedrock. Many holes explained IP chargeability highs by the presence of pyrite. One hole at the southeast limit of drilling, PDH 09-02, intersected argillic-pyrite alteration with elevated Cu and Au values.

In December 2009, five diamond drill holes were completed to test targets that could not be tested by the percussion drilling program because of excessively deep overburden. Results of this work are reported in a recently filed Assessment Report. Of particular note are the assay results of DDH 09-05 where gold and copper showed an increase of assay grades with depth, bottoming in $0.16 \% \mathrm{Cu}$ and $0.34 \mathrm{~g} / \mathrm{t}$ Au over 3.1 m .

In July 2010, P. Walcott and Associates conducted an IP survey. In Sep-Oct G Richards supervised an Ah soil survey and splitting of the remaining core from $\mathrm{DDH} 09-05$. It is this work that is described in this report.

### 9.0 CURRENT WORK. I.P. \& Ah Soils \& Core Analysis

### 9.1 Induced Polarization \& Magnetic Survey.

DDH 09-05 was drilled towards the west end of a road IP and magnetic survey along the McLeod-Tsilcoh Forest Service Road east of a pronounced aeromagnetic high. Gold and copper assay results were encouraging in the shallow ( 137 m ) drill hole with the hole bottoming in 3.1 m of $0.16 \% \mathrm{Cu}$ and $0.34 \mathrm{~g} / \mathrm{t} \mathrm{Au}$. Overburden was 45 m deep.

From July 9 to 11, 2010 the road IP and magnetic survey was extended 5 km to the west across the aeromagnetic high referred to above. Results of this survey provided in an Appendix were positive. An additional 500 m of chargeability high with resistivity low was defined between the west end of the previous IP survey and the start of the magnetic high bringing the total length of this chargeability high and resistivity low to 1100 m and perhaps as much as 3000 m depending on interpretation.

West of this chargeability high a 1500 m wide magnetic high was defined from the ground magnetic survey coincident with the aeromagnetic high from the government survey. Magnetic highs in Quesnel Terrane are targets for possible magnetite bearing intrusions with related $\mathrm{Cu}-\mathrm{Au}$ alkalic porphyry mineralization.

West of the magnetic high was a two km long chargeability high with an accompanying resistivity high. High resistivity in this setting can be
caused by potassic alteration, particularly potassium feldspar, a common alteration mineral found in alkalic porphyry deposits. The chargeability highs could be caused by sulphide mineralization like that found in DDH 0905 . This pattern of chargeability highs associated with a magnetic high with some resistivity highs is the classic target sought in Quesnel Terrane for alkalic porphyry $\mathrm{Cu}-\mathrm{Au}$ deposits.

### 9.2 Ah Soil Sample Survey.

Between September 27, 2010 and October 8, 2010 a program of soil sampling and splitting the remaining core from DDH 09-05 was completed.

The soil sampling was designed to evaluate the usefulness of organic soil sampling of the Ah horizon, which had recently been shown to be a useful technique over deeply buried porphyry $\mathrm{Cu}-\mathrm{Au}$ mineralization at the Kwanika deposit of Serengeti Resources Inc. Refer to Geoscience BC Report 2010-03 by D. Heberlein and H. Samson.

Samples were collected by scraping the moss and forest floor litter away from about a square metre area to expose the top of the Ah horizon. The Ah horizon measured from one mm to two cm thick. It was thinnest in areas of previous 20 -year old clear cuts. Here considerable time was spent finding areas of thicker Ah soil horizon in order to collect enough material for a sample. Samples were collected by plastic scoop and placed in gusseted kraft soil sample bags with enough material to fill the bag. Samples were numbered and their location entered into a hand-held Garmin 60Cx GPS unit. A pit was dug at each site by shovel to about 30 cm depth for the collection of soil from 10 to 25 cm depth suitable for MMI analyses. These samples have been stored for future analyses. 191 Ah soil samples were collected as shown on the attached maps.

Samples were sent to ALS Minerals, 2013 Dollarton Highway, North Vancouver, V7H 0A7 for analyses. Samples were prepared by recording received weights and screened to -180 micron and saving both portions. An analysis for gold was done by their Au-ST43 supertrace method where 25 g was dissolved in aqua regia and analyzed by ICPMS. Forty-one other elements were reported by using their ME-MS41 methodology with an aqua regia digestion and ICPMS finish. Results are reported in an appendix. Sample sites and results are also reported in an Appendix.


Results were somewhat encouraging and are plotted on the attached maps showing sample sites and response ratios for gold and copper. Response ratios are calculated by dividing the values for gold or copper by the average of the lower quartile of the 191 samples and rounded to whole number.

Gold values show a low background at the east and west limits of the survey with somewhat spotty results elsewhere. There is a good cluster of higher values on the two lines north and south of the small pond at the west side of the survey area. Copper shows a similar spotty response across the central portion of the survey with a cluster of higher values north of the pond mentioned above. These clusters of higher Cu and Au values north and south of the small pond occur in a trough of magnetic low on the flank of the strong aeromagnetic response central to the two IP surveys and should be considered a target for diamond drilling. There is also a cluster of anomalous Cu and Au beside and east of DDH 09-05.

### 9.3 Core Splitting DDH 09-05.

During the period of September 27, 2010 to October 8, 2010 the remaining unsplit core of DDH $09-05$ was split for assay. Only nine samples were split in the original sampling of DDH 09-05. Core was logged and split in an unheated shed situated across from the Ft St James High School and owned by Mr John Helweg of Ft St James. Core was split with an anvil type core-splitter. A three-tag assay book was used with one tag placed back in the core box with the saved portion of the split core, another tag placed in the plastic sample bag containing the split core for analyses and the third tag left in the book with a brief description of the sampled core. Core was transported by G Richards' van directly to Acme Labs, 1020 Cordova St East, Vancouver, V6A 4A3. Core from hole 09-05 is stored at the side of the core-logging shed in Ft St James.

In Vancouver core was prepared using Acme's R200-250 procedure where the core is crushed, split and a 250 g sample pulverized to -200 mesh. Samples were analyzed using Acme's 1DX method where a 15 gram split of the prepared sample is digested in 1:1:1 Aqua Regia and analyzed by ICPMS. Results are in an Appendix.

The position of DDH 09-05 is shown on Figures 4 and the maps in the appendix. DDH $09-05$ was drilled vertically to a depth of 137 m . It is situated at UTM NAD 83 co-ordinates 441,292/6,076,271. Drill logs, assay logs with Cu and Au values, and complete assay results are provided in Appendices.

Results show a strong increase of copper and gold grades with depth to a high of $0.16 \% \mathrm{cu}$ and $0.34 \mathrm{~g} / \mathrm{t}$ au in the bottom 3.1 metre of the hole.

### 10.0 CONCLUSIONS AND RECOMMENDATIONS.

The IP and magnetometer survey defined a 1500 m wide magnetic high coincident with a government aeromagnetic high. West of and partly overlapping the west shoulder of the magnetic high is a 2000 m chargeability high at the deepest levels of the survey with highs of 10 to 12 $\mathrm{mv} / \mathrm{v}$. There is a nearly coincident resistivity high that is encouraging because of the possibility that it could be caused by potassic alteration, notably potassium feldspar. East of the magnetic high is a chargeability high of similar strength with a resistivity low that together with a previous IPmag survey now measures 1100 m and perhaps 3000 m depending on interpretation.
The only drill holes that are known to have intersected bedrock in the area are a percussion drill hole PDH 09-02 and a diamond drill hole DDH 09-05. PDH 09-02 intersected altered diorite with 132 to 161 ppm Cu and 12 to 36 ppb Au and is located towards the east end of the IP survey as shown on accompanying maps. More significantly DDH 09-05 intersected altered volcaniclastics from bedrock ( 45 m ) to the bottom of the hole ( 137 m ) with a pronounced increase in grade over this length. The bottom 3.1 m assayed $0.16 \% \mathrm{Cu}$ and $0.34 \mathrm{~g} / \mathrm{t} \mathrm{Au}$. The nearest other drill holes are two percussion drill holes 2 km north that intersected pyrite bearing diorite with low Cu and Au grades.

The preliminary Ah soil survey demonstrated that this method provides modest assistance in defining drill targets. Clusters of anomalous Cu and Au occur in two areas as discussed. A more thorough survey is required to provide more convincing usefulness of this method on the property.

It is recommended that additional diamond drilling be undertaken to redrill DDH09-05 to at least 300 m and to test other targets. An additional IP survey and Ah soil survey is recommended prior to drilling to assist in defining drill targets. These surveys should extend 1500 m north of and 2000 $m$ south of the present road IP survey.

### 11.0 COST STATEMENT

Time:
G Richards (Geologist)- Sep 27, 30, Oct 1-8
10 days @ \$600/day
\$6,000.00
HST 12 \%
Charlie Crookes (Sampler) Oct 1-6 720.00

1,850.00
Expenses
Motel \$ 906.68
Gas 338.51

Supplies
312.19

Radio rental
Core splitter 83.00
Food
484.37

ALS Minerals assays
6,864.01
P Walcott and Associates: IP-Mag survey
9,336.76
Report
6,000.00
TOTAL \$ 32,622.53

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### 12.0 STATEMENT OF QUALIFICATIONS.

I, Gordon G Richards, with business address at 6410 Holly Park
Drive, Delta, B.C., V4K 4W6, do hereby certify that:

1. I am a Consulting Geological Engineer registration number 11,411 with the Association of Professional Engineers and Geoscientists of British Columbia since 1978.
2. I hold a B.A.Sc. (1968) in Geology from The University of British Columbia, and an M.A.Sc. (1974) in Geology from The University of British Columbia.
3. I have been practicing my profession as a geologist for over 40 years and as a consulting geological engineer since 1985. I have work experience in western areas of the United States, Alaska, Canada, Mexico and Africa.
4. I have based this report on work conducted by P Walcott and Associates as described and on my supervision of the Ah soil sampling survey and splitting of the remaining core from DDH 0905 during Sep 27, 2010 to Oct 8, 2010.
5. I have written this report based on results of the fieldwork described and references cited.

Respectfully submitted,

Gordon G Richards P.Eng.

Orestone Mining Corp.
Captain Property
Hole Number: DDH 09-05
2009Diamoond Drill Hole Record
Page:
1

| ole Number: |  |  | Page: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From <br> (m) | $\begin{aligned} & \hline \text { To } \\ & \text { (m) } \\ & \hline \end{aligned}$ | Lithology | Graphic Column | Structure, Alteration \& Mineralization |  |  | Average Rec. |
|  |  |  |  | Sub Interva | CA | Remarks |  |
| 0 | 45.75 | OVERBURDEN |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 45.75 | 51.91 | ARGILLITE |  |  |  |  |  |
|  |  | leached mudstone to 48 m |  |  |  |  |  |
|  |  | irregular shearing 48-51.91 m |  | 48-51.91 |  | 1-2\% pyrite |  |
|  |  |  |  |  |  |  |  |
| 51.91 | 109.1 | FELDSPAR PORPHYRY |  |  |  | Local pyrite veinlets and diss pyrite: 1-2\% locally. |  |
|  |  | Unit is tuff to volcanic sandst |  |  |  | Magnetite diss throughout as 3-7\%. Below 77 m |  |
|  |  | with fragments to 5 mm but |  |  |  | magnetite is sporadic. |  |
|  |  | generally less than 1 or 2 mm . |  |  |  | Calcite veining very common to $1-2 \mathrm{~mm}$ with irregular |  |
|  |  | Fspars are 1-3 mm forming |  |  |  | attitudes. Many are irregular discontinuous seams. |  |
|  |  | 10-30\% of rock. Rare fspars |  |  |  | Pyrite <1/2\% except short sections 1-2\%. Cpy rare as |  |
|  |  | appear as shards. |  |  |  | fine disseminations and thin streaks. |  |
|  |  | 77-83.5 m fspar texture more |  |  |  | $77-83.5 \mathrm{~m}$ magnetite is sporadic and bleached |  |
|  |  | fragmental. |  |  |  | sections present. |  |
|  |  | 83.5-109.1 massive feldspar |  |  |  | 83.5-109.1 disseminated magnetite 3-5\%. Pyrite- |  |
|  |  | porphyry with uniform texture |  |  |  | calcite forms reaction rims on some fragments and |  |
|  |  | Rare fragments to 2 cm . Some |  |  |  | feldspars. Mafics non chloritized. |  |
|  |  | pink calcite amygdules(?) |  |  |  |  |  |
|  |  | with gypsum up to 3\% of some |  |  |  | Bedding rare: 85.1 m 61* CA |  |
|  |  | sections. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 109.1 | 111.64 | BRECCIA |  |  |  |  |  |
|  |  | "marbled" breccia. Soft with |  |  |  | very minor local magnetite |  |
|  |  | very fine pyrite matrix with cpy. |  |  |  |  |  |
|  |  | Up to 15\% py but 5\% overall. |  |  |  |  |  |
|  |  | Fragments have diffuse |  |  |  |  |  |
|  |  | borders giving marble |  |  |  |  |  |
|  |  | appearance. |  |  |  |  |  |
| 111.64 | 111.8 | FAULT ZONE |  |  |  | no magnetite |  |
|  |  | badly broken. Shears 50* CA |  |  |  |  |  |


|  |  |  |
| :---: | :---: | :---: |
| 111.8 | 134.13 | VOLCANICLASTIC |
|  |  | medium to pale grey. Some |
|  |  | porphyritic sections different |
|  |  | than 51.9-109.1. Some fragmnts |
|  |  | 111.8-112.17 is strong pink-tan |
|  |  | altered zone. Feldspar porphc |
|  |  | 15\% fspars. Upper contact 60* |
|  |  | CA, lower contact 45* irregular |
|  |  | 112.17-116.8 fspar porphyry |
|  |  | like 51-109 m but with many |
|  |  | more fragments of dark |
|  |  | aphanitic basalt(?) and others. |
|  |  | Pronounced bedding at 50- |
|  |  | 65* CA. |
|  |  | 116.8-134.13 different feldspar |
|  |  | texture in groundmass and |
|  |  | fragments. |
|  |  | 128.5-131.5 fine grained |
|  |  | ss-tuff |
|  |  | 131.5-134.1 fspar porphyritic |
|  |  | and mafic porphyritic andesite |
|  |  | agglomerate or flow or(?) with |
|  |  | mafics altered to chlorite. |
|  |  |  |
| 134.13 | 137.16 | BRECCIA |
|  |  | "marbled" breccia. Soft with |
|  |  | high sulphide matrix locally |
|  |  | up to $15 \%$. |
|  |  | 136.5-137.16 less altered. |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  | End of hole at 137.16 m |


|  |  |  |
| :--- | :--- | :--- |


| Diamond Drill |  | Cuppm |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 45.75-49.05 | 3.3 | 812294 | 176.8 | 29.2 poor recovery, limonitic, bxia texture |
| 49.05-51.91 | 2.86 | 812295 | 147 | 79.3 sheared, broken, soft, bxia, 1-2\% py, poor recovery |
| 51.91-54.86 | 2.95 | 812296 | 129.9 | 30.6 soft, bxiated, sheared, broken, poor recovery |
| 54.86-56.40 | 1.54 | 812297 | 120.9 | 20.6 broken, 1-2\% py, 60\% recovery |
| 56.40-57.50 | 1.1 | 812298 | 821.9 | 162.7 solid core, 2 qtz veins 0.5 \& 1.5 cm irregular |
| 57.50-58.50 | 1 | 812306 | 436.4 | 172.2 carbonate altered, shearing |
| 58.50-60.60 | 2 | 812307 | 142.8 | 50.5 carbonate altered along shearing |
| 60.60-62.11 | 1.51 | 812308 | 99.4 | 13.2 feldspar porphyry |
| 62.11-64.97 | 2.86 | 812309 | 128 | 18 feldspar porphyry |
| 64.97-66.75 | 1.78 | 812310 | 121.8 | 18.3 feldspar porphyry |
| 66.75-69.00 | 2.25 | 812311 | 120.6 | 18 1-2\%py, Volcanic ss with pink colour (Kspar?) |
| 69.00-71.00 | 2 | 812312 | 121.6 | 23.9 feldspar porphyry |
| 71.00-73.00 | 2 | 812313 | 133.1 | 1 feldspar porphyry |
| 73.00-75.00 | 2 | 812314 | 122.4 | 1.1 feldspar porphyry |
| 75.00-77.00 | 2 | 812315 | 146.3 | 9.1 feldspar porphyry |
| 77.00-79.00 | 2 | 812316 | 225.1 | 39.7 more py, very fine grained, $3-4 \%$ overall $8 \%$ locally |
| 79.00-80.50 | 1.5 | 812317 | 153.8 | 85 feldspar porphyry |
| 80.50-82.97 | 2.47 | 812318 | 154.5 | 42.6 feldspar porphyry |
| 82.97-84.07 | 1.1 | 812299 | 168.8 | 47.5 volc ss, one $1-\mathrm{cm}$ qtz calcite vein, $1-2 \%$ py tr cpy |
| 84.07-85.34 | 1.27 | 812300 | 146 | 33.6 volc ss, tr cpy, $2 \%$ diss py, one qtz-calcite vein 1 cm |
| 85.34-86.36 | 1.02 | 812301 | 149.5 | 47.1 continuous core, tr cpy, 1-2\% py, one qtz calcite veir |
| 86.36-88.39 | 2.03 | 812319 | 152 | 18.1 feldspar porphyry |
| 88.39-91.00 | 1.61 | 812320 | 167.7 | 18.8 feldspar porphyry |
| 91.00-93.00 | 2 | 812321 | 185.4 | 53.3 feldspar porphyry |
| 93.00-95.00 | 2 | 812322 | 175.4 | 28.8 feldspar porphyry |
| 95.00-97.00 | 2 | 812323 | 175.8 | 34.7 feldspar porphyry |
| 97.00-99.00 | 2 | 812324 | 162.7 | 38.6 feldspar porphyry |
| 99.00-101.00 | 2 | 812325 | 171 | 35.1 feldspar porphyry |
| 101.00-103.00 | 2 | 812326 | 163.3 | 19.7 feldspar porphyry |
| 103.00-105.00 | 2 | 812327 | 172.6 | 14.2 feldspar porphyry |
| 105.00-107.00 | 2 | 812328 | 165.7 | 149.6 feldspar porphyry |
| 107.00-109.12 | 2.12 | 812329 | 320.8 | $65.51 \%$ very fine grained diss py, very minor cpy, 107.55 m strong shear 65*-70* CA |
| 109.12-110.12 | 1 | 812302 | 545.2 | 83.8 start marbled section to $111.82,1-5 \%$ fine py. Very hard first 30 cm |


| 110.12-111.64 | 1.52 | 812330 | 491.4 | 152.1 marble breccia. Calcite-sulphide matrix |
| :--- | ---: | ---: | ---: | :---: |
| 111.64-112.30 | 0.66 | 812331 | 178.2 | 83.2 fault zone. Pinky colour (kspar?) |
| 112.30-114.80 | 2.5 | 812332 | 45.1 | 162.5 volcaniclastic |
| 114.80-116.80 | 2 | 812333 | 95.5 | 17.9 volcaniclastic |
| 116.80-118.80 | 2 | 812334 | 886.4 | 158.2 volcaniclastic |
| $\mathbf{1 1 8 . 8 0 - 1 2 0 . 8 0}$ | 2 | 812335 | 769.7 | 237.5 volcaniclastic |
| $\mathbf{1 2 0 . 8 0 - 1 2 2 . 5 3}$ | 1.73 | 812336 | 462.7 | 160.9 volcaniclastic |
| $\mathbf{1 2 2 . 5 3 - 1 2 4 . 6 6}$ | 2.13 | 812337 | 542 | 229.1 volcaniclastic |
| $\mathbf{1 2 4 . 6 6 - 1 2 6 . 5 2}$ | 1.86 | 812338 | 415.7 | 129.1 volcaniclastic |
| $\mathbf{1 2 6 . 5 2 - 1 2 8 . 5 0}$ | 1.98 | 812339 | 881.1 | 654.5 volcaniclastic |
| $\mathbf{1 2 8 . 5 0 - 1 3 0 . 7 6}$ | 2.26 | 812340 | 15.3 | 4 volcaniclastic |
| $\mathbf{1 3 0 . 7 6 - 1 3 2 . 2 8}$ | 1.52 | 812341 | 375.2 | 63.5 volcaniclastic |
| $\mathbf{1 3 2 . 2 8 - 1 3 4 . 1 3}$ | 1.85 | 812342 | 1027.7 | 72.4 volcaniclastic |
| $\mathbf{1 3 4 . 1 3 - 1 3 5 . 0 3}$ | 0.9 | 812303 | 2172.5 | 358 marbled texture.High sulphide matrix bxia. Soft 5-10\% py, local cpy. |
| 135.03-136.23 | 1.2 | 812304 | 721.2 | 333.3 marbled like above |
| 136.23-137.23 | 1 | 812305 | 2086.2 | 345.7 solid core, less marbled-more blotchy, 1-4\% fine py local cpy |

Bold type = assays from this report. Others were assayed previously.

## Client: Orestone Mining Corp.

## AcmeLabs

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

Submitted By: Receiving Lab: Received: Report Date: Page:

975-163rd Street
Surrey BC V4A 9T8 Canada

Gordon Richards Canada-Vancouver October 13, 2010 November 01, 2010 1 of 3

## CERTIFICATE OF ANALYSIS

VAN10005403.1

## CLIENT JOB INFORMATION

| Project: | CAPTAIN |
| :--- | :--- |
| Shipment ID: |  |
| P.O. Number |  |
| Number of Samples: | 37 |

Number of Samples: 37

## SAMPLE DISPOSAL

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method | Number of <br> Somples | Code Description | Test <br> Wgt $(\mathbf{g})$ | Report <br> Status | Lab |
| :--- | :--- | :--- | :--- | :--- | :--- |
| R200-250 | 37 | Crush split and pulverize 250g drill core to 200 mesh |  | VAN |  |
| 1DX2 | 37 | $1: 1: 1$ Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |
|  |  |  |  |  |  |



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

Project:
Report Date:

CAPTAIN
November 01, 2010

|  | Method <br> Analyte Unit MDL | $\begin{array}{r} \text { WGHT } \\ \text { Wgt } \\ \text { kg } \\ 0.01 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \text { Mo } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \text { Cu } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} \hline 1 \mathrm{DX15} \\ \mathrm{~Pb} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \text { Zn } \\ \text { ppm } \\ 1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Ag } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \mathrm{Ni} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Co } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Mn } \\ \text { ppm } \\ 1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Fe } \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { As } \\ \text { ppm } \\ 0.5 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{U} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Au} \\ \mathrm{ppb} \\ 0.5 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Th } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sr} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Cd } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Sb } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \mathrm{V} \\ \mathrm{ppm} \\ 2 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \mathrm{Ca} \\ \% \\ 0.01 \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 812306 | Drill Core | 2.82 | 2.1 | 436.4 | 11.1 | 133 | 0.4 | 6.3 | 21.1 | 2186 | 4.93 | 7.1 | 0.6 | 172.2 | 1.5 | 455 | <0.1 | 0.5 | <0.1 | 127 | 6.22 |
| 812307 | Drill Core | 3.79 | 4.7 | 142.8 | 7.9 | 95 | 0.2 | 5.8 | 20.5 | 2161 | 4.42 | 11.0 | 0.4 | 50.5 | 1.3 | 996 | <0.1 | 0.5 | <0.1 | 110 | 7.37 |
| 812308 | Drill Core | 3.81 | 0.4 | 99.4 | 3.9 | 86 | <0.1 | 3.7 | 16.8 | 1656 | 4.12 | 6.5 | 0.5 | 13.2 | 1.5 | 474 | 0.1 | 0.4 | <0.1 | 98 | 5.39 |
| 812309 | Drill Core | 6.93 | 3.2 | 128.0 | 4.2 | 89 | 0.1 | 4.6 | 17.7 | 1789 | 4.27 | 10.6 | 0.6 | 18.0 | 1.8 | 1042 | <0.1 | 0.4 | <0.1 | 106 | 4.78 |
| 812310 | Drill Core | 3.69 | 0.7 | 121.8 | 3.0 | 101 | 0.1 | 4.2 | 18.6 | 1865 | 4.33 | 3.4 | 0.5 | 18.3 | 1.6 | 291 | <0.1 | 0.2 | <0.1 | 104 | 4.46 |
| 812311 | Drill Core | 4.74 | 2.0 | 120.6 | 4.7 | 99 | 0.1 | 4.9 | 20.4 | 1883 | 4.45 | 16.5 | 0.4 | 18.0 | 1.7 | 266 | 0.2 | 0.4 | <0.1 | 99 | 4.35 |
| 812312 | Drill Core | 3.99 | 3.4 | 121.6 | 6.8 | 74 | 0.3 | 6.1 | 23.1 | 1762 | 4.74 | 12.2 | 0.5 | 23.9 | 1.6 | 646 | 0.1 | 0.4 | <0.1 | 141 | 5.41 |
| 812313 | Drill Core | 4.61 | 1.2 | 133.1 | 4.3 | 62 | <0.1 | 5.0 | 16.7 | 1530 | 4.36 | 2.9 | 0.6 | 1.0 | 2.0 | 321 | 0.1 | 0.4 | 0.3 | 141 | 4.62 |
| 812314 | Drill Core | 4.24 | 1.7 | 122.4 | 3.1 | 64 | <0.1 | 6.0 | 20.7 | 1468 | 4.82 | 2.7 | 0.7 | 1.1 | 1.9 | 274 | 0.1 | 0.2 | <0.1 | 169 | 4.60 |
| 812315 | Drill Core | 4.75 | 1.7 | 146.3 | 4.3 | 74 | 0.2 | 6.1 | 20.6 | 1452 | 4.83 | 6.5 | 0.5 | 9.1 | 1.7 | 307 | <0.1 | 0.3 | 0.1 | 166 | 3.89 |
| 812316 | Drill Core | 4.89 | 1.0 | 225.1 | 20.0 | 111 | 0.4 | 4.9 | 20.7 | 1954 | 4.69 | 12.8 | 0.7 | 39.7 | 1.9 | 751 | 0.2 | 0.7 | <0.1 | 127 | 5.32 |
| 812317 | Drill Core | 3.74 | 1.1 | 153.8 | 16.2 | 124 | 0.3 | 5.7 | 20.4 | 2232 | 4.96 | 11.0 | 0.6 | 85.0 | 1.5 | 383 | 0.2 | 0.8 | <0.1 | 162 | 5.23 |
| 812318 | Drill Core | 6.39 | 1.5 | 154.5 | 9.9 | 107 | 0.2 | 7.1 | 23.6 | 1787 | 5.17 | 21.2 | 0.3 | 42.6 | 1.1 | 735 | <0.1 | 0.6 | <0.1 | 182 | 4.73 |
| 812319 | Drill Core | 5.20 | 1.9 | 152.0 | 7.0 | 105 | 0.3 | 5.9 | 24.6 | 1869 | 5.41 | 5.8 | 0.3 | 18.1 | 1.2 | 508 | <0.1 | 0.5 | <0.1 | 184 | 4.79 |
| 812320 | Drill Core | 6.36 | 1.2 | 167.7 | 6.6 | 107 | 0.2 | 6.2 | 25.4 | 2052 | 5.52 | 12.2 | 0.3 | 18.8 | 1.4 | 516 | <0.1 | 0.3 | <0.1 | 179 | 4.77 |
| 812321 | Drill Core | 5.68 | 1.5 | 185.4 | 12.0 | 90 | 0.4 | 5.9 | 24.4 | 1734 | 5.47 | 30.5 | 0.3 | 53.3 | 1.3 | 669 | <0.1 | 0.5 | <0.1 | 141 | 4.67 |
| 812322 | Drill Core | 6.04 | 1.6 | 175.4 | 5.5 | 120 | 0.3 | 6.5 | 25.8 | 2053 | 5.67 | 4.4 | 0.4 | 28.8 | 1.4 | 607 | <0.1 | 0.3 | <0.1 | 222 | 4.03 |
| 812323 | Drill Core | 5.32 | 1.0 | 175.8 | 6.8 | 120 | 0.3 | 6.2 | 24.7 | 2180 | 5.62 | 4.0 | 0.3 | 34.7 | 1.2 | 486 | <0.1 | 0.3 | <0.1 | 202 | 4.34 |
| 812324 | Drill Core | 4.90 | 1.2 | 162.7 | 8.1 | 116 | 0.3 | 6.7 | 26.6 | 2183 | 5.73 | 4.5 | 0.3 | 38.6 | 1.2 | 653 | 0.1 | 0.4 | <0.1 | 181 | 4.80 |
| 812325 | Drill Core | 4.50 | 1.6 | 171.0 | 5.7 | 126 | 0.3 | 6.5 | 26.3 | 2436 | 5.80 | 3.5 | 0.3 | 35.1 | 1.1 | 770 | <0.1 | 0.3 | <0.1 | 191 | 4.40 |
| 812326 | Drill Core | 5.11 | 1.2 | 163.3 | 4.2 | 120 | 0.2 | 6.4 | 24.7 | 2333 | 5.90 | 4.3 | 0.4 | 19.7 | 1.3 | 501 | <0.1 | 0.2 | <0.1 | 214 | 4.81 |
| 812327 | Drill Core | 5.53 | 1.3 | 172.6 | 2.9 | 119 | 0.1 | 6.7 | 25.0 | 2435 | 5.78 | 1.9 | 0.3 | 14.2 | 1.0 | 421 | <0.1 | 0.2 | <0.1 | 189 | 5.16 |
| 812328 | Drill Core | 5.70 | 1.4 | 165.7 | 5.4 | 133 | 0.3 | 7.2 | 26.1 | 2050 | 5.42 | 3.2 | 0.3 | 149.6 | 0.9 | 903 | <0.1 | 0.2 | <0.1 | 180 | 5.06 |
| 812329 | Drill Core | 5.76 | 1.1 | 320.8 | 10.3 | 139 | 0.3 | 12.9 | 27.3 | 1662 | 5.62 | 7.1 | 0.6 | 65.5 | 1.4 | 1172 | <0.1 | 0.3 | <0.1 | 149 | 5.64 |
| 812330 | Drill Core | 5.23 | 0.4 | 491.4 | 27.7 | 104 | 0.7 | 17.1 | 26.3 | 531 | 2.69 | 7.1 | 0.9 | 152.1 | 2.6 | 1218 | 0.1 | 1.3 | 0.4 | 36 | 2.13 |
| 812331 | Drill Core | 1.58 | 0.7 | 178.2 | 14.8 | 85 | 0.2 | 7.3 | 11.4 | 1154 | 2.43 | 4.5 | 0.5 | 83.2 | 1.6 | 948 | <0.1 | 0.9 | 0.1 | 56 | 4.41 |
| 812332 | Drill Core | 6.29 | 0.2 | 45.1 | 5.1 | 91 | <0.1 | 15.8 | 20.6 | 1775 | 4.67 | 1.3 | 0.3 | 162.5 | 0.6 | 657 | 0.1 | 0.2 | <0.1 | 158 | 5.36 |
| 812333 | Drill Core | 4.69 | 0.2 | 95.5 | 5.4 | 93 | <0.1 | 14.3 | 19.4 | 1653 | 4.56 | 1.1 | 0.4 | 17.9 | 0.8 | 365 | <0.1 | 0.8 | <0.1 | 155 | 5.63 |
| 812334 | Drill Core | 4.66 | 1.4 | 886.4 | 16.0 | 142 | 0.7 | 17.2 | 23.1 | 1145 | 4.81 | 5.5 | 1.3 | 158.2 | 2.4 | 154 | 0.1 | 0.6 | 0.2 | 79 | 2.23 |
| 812335 | Drill Core | 4.71 | 0.9 | 769.7 | 20.9 | 168 | 0.5 | 15.8 | 22.2 | 1046 | 5.55 | 6.1 | 1.1 | 237.5 | 2.4 | 111 | 0.1 | 1.0 | 0.1 | 81 | 1.94 |

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

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

975-163rd Street
Surrey BC V4A 9T8 Canada

Project:
Report Date:

CAPTAIN
November 01, 2010


|  | Method <br> Analyte <br> Unit <br> MDL | $\begin{array}{r} 1 \mathrm{DX15} \\ P \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{La} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \text { Mg } \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 1 \end{array}$ | 1DX15 Ti $\%$ 0.001 | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~B} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { AI } \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Na} \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~K} \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 D X 15 \\ \mathrm{w} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sc} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{TI} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~s} \\ \% \\ 0.05 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \mathrm{Ga} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Se} \\ \mathrm{ppm} \\ 0.5 \end{array}$ | $\begin{array}{r} \hline 1 \mathrm{DX15} \\ \mathrm{Te} \\ \mathrm{ppm} \\ 0.2 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 812306 | Drill Core | 0.213 | 12 | 3 | 2.11 | 193 | 0.002 | 4 | 1.78 | 0.017 | 0.28 | <0.1 | 0.17 | 6.2 | <0.1 | 0.88 | 6 | <0.5 | <0.2 |
| 812307 | Drill Core | 0.196 | 12 | 3 | 1.90 | 388 | 0.002 | 3 | 1.51 | 0.017 | 0.34 | <0.1 | 0.05 | 6.0 | <0.1 | 0.49 | 5 | <0.5 | <0.2 |
| 812308 | Drill Core | 0.182 | 14 | 3 | 1.58 | 303 | 0.002 | 3 | 1.98 | 0.022 | 0.24 | <0.1 | 0.15 | 4.0 | <0.1 | 0.26 | 8 | <0.5 | $<0.2$ |
| 812309 | Drill Core | 0.192 | 14 | 2 | 1.85 | 375 | 0.003 | 2 | 2.16 | 0.030 | 0.27 | <0.1 | 0.10 | 3.8 | <0.1 | 0.52 | 10 | <0.5 | <0.2 |
| 812310 | Drill Core | 0.181 | 14 | 2 | 1.96 | 183 | 0.003 | 2 | 2.26 | 0.030 | 0.21 | $<0.1$ | 0.09 | 3.4 | <0.1 | 0.38 | 10 | <0.5 | <0.2 |
| 812311 | Drill Core | 0.200 | 13 | 2 | 1.84 | 180 | 0.003 | 3 | 1.61 | 0.030 | 0.26 | 0.4 | 0.08 | 4.1 | <0.1 | 0.79 | 7 | <0.5 | <0.2 |
| 812312 | Drill Core | 0.186 | 12 | 4 | 1.79 | 200 | 0.003 | 3 | 1.57 | 0.031 | 0.21 | $<0.1$ | 0.13 | 6.6 | <0.1 | 0.83 | 7 | <0.5 | $<0.2$ |
| 812313 | Drill Core | 0.185 | 12 | 4 | 1.43 | 307 | 0.004 | 4 | 1.20 | 0.042 | 0.27 | <0.1 | 0.03 | 7.7 | <0.1 | 0.05 | 5 | <0.5 | <0.2 |
| 812314 | Drill Core | 0.179 | 12 | 5 | 1.64 | 206 | 0.007 | 4 | 1.68 | 0.053 | 0.16 | <0.1 | 0.04 | 6.7 | <0.1 | 0.06 | 9 | <0.5 | <0.2 |
| 812315 | Drill Core | 0.178 | 12 | 5 | 1.88 | 268 | 0.004 | 3 | 2.04 | 0.046 | 0.16 | <0.1 | 0.07 | 6.0 | <0.1 | 0.25 | 9 | 0.8 | <0.2 |
| 812316 | Drill Core | 0.200 | 12 | 3 | 1.54 | 146 | 0.003 | 3 | 2.00 | 0.049 | 0.24 | <0.1 | 0.06 | 5.5 | <0.1 | 1.28 | 8 | 0.7 | <0.2 |
| 812317 | Drill Core | 0.205 | 12 | 3 | 2.12 | 78 | 0.003 | 2 | 2.31 | 0.041 | 0.15 | <0.1 | 0.08 | 6.0 | <0.1 | 1.99 | 10 | 0.7 | <0.2 |
| 812318 | Drill Core | 0.203 | 12 | 3 | 2.50 | 106 | 0.005 | 2 | 2.69 | 0.069 | 0.15 | <0.1 | 0.07 | 6.9 | <0.1 | 1.70 | 11 | 1.5 | 0.3 |
| 812319 | Drill Core | 0.222 | 12 | 4 | 2.28 | 145 | 0.003 | 3 | 2.55 | 0.102 | 0.15 | <0.1 | 0.03 | 6.7 | <0.1 | 1.41 | 10 | 0.8 | <0.2 |
| 812320 | Drill Core | 0.217 | 12 | 3 | 2.31 | 125 | 0.006 | 2 | 2.54 | 0.095 | 0.15 | <0.1 | 0.03 | 6.6 | <0.1 | 1.70 | 10 | 1.2 | 0.4 |
| 812321 | Drill Core | 0.237 | 11 | 3 | 2.09 | 73 | 0.003 | 3 | 2.35 | 0.065 | 0.21 | <0.1 | 0.11 | 5.0 | 0.2 | 2.76 | 9 | 2.2 | 0.4 |
| 812322 | Drill Core | 0.230 | 13 | 4 | 2.65 | 208 | 0.005 | 2 | 2.76 | 0.085 | 0.14 | <0.1 | 0.19 | 7.5 | <0.1 | 0.69 | 12 | 1.5 | 0.4 |
| 812323 | Drill Core | 0.234 | 12 | 3 | 2.50 | 174 | 0.003 | 2 | 2.74 | 0.063 | 0.14 | <0.1 | 0.30 | 6.8 | <0.1 | 0.93 | 11 | 0.9 | <0.2 |
| 812324 | Drill Core | 0.236 | 14 | 4 | 2.50 | 209 | 0.004 | 2 | 2.70 | 0.059 | 0.18 | <0.1 | 0.34 | 6.3 | <0.1 | 1.11 | 11 | 1.5 | <0.2 |
| 812325 | Drill Core | 0.243 | 13 | 4 | 2.73 | 299 | 0.003 | 2 | 2.97 | 0.046 | 0.16 | <0.1 | 0.38 | 6.4 | <0.1 | 0.81 | 12 | 0.7 | <0.2 |
| 812326 | Drill Core | 0.247 | 13 | 3 | 2.74 | 268 | 0.004 | 3 | 2.95 | 0.050 | 0.17 | <0.1 | 0.13 | 7.2 | <0.1 | 0.74 | 12 | <0.5 | 0.3 |
| 812327 | Drill Core | 0.234 | 12 | 4 | 2.60 | 166 | 0.004 | 1 | 2.76 | 0.042 | 0.14 | <0.1 | 0.12 | 5.9 | <0.1 | 1.20 | 12 | 0.5 | <0.2 |
| 812328 | Drill Core | 0.217 | 11 | 4 | 2.40 | 96 | 0.006 | 2 | 2.59 | 0.049 | 0.15 | <0.1 | 0.11 | 5.8 | <0.1 | 1.73 | 11 | 0.6 | <0.2 |
| 812329 | Drill Core | 0.212 | 12 | 11 | 1.56 | 163 | 0.003 | 2 | 2.29 | 0.043 | 0.22 | <0.1 | 0.12 | 4.7 | <0.1 | 1.35 | 8 | 0.6 | <0.2 |
| 812330 | Drill Core | 0.281 | 12 | 5 | 0.32 | 88 | 0.002 | 4 | 1.10 | 0.042 | 0.46 | <0.1 | 0.18 | 4.2 | <0.1 | 1.97 | 2 | 3.3 | 0.3 |
| 812331 | Drill Core | 0.201 | 9 | 8 | 0.85 | 283 | 0.003 | 3 | 0.85 | 0.033 | 0.33 | 0.3 | 0.23 | 3.6 | <0.1 | 0.76 | 2 | 0.6 | 0.5 |
| 812332 | Drill Core | 0.154 | 11 | 22 | 1.62 | 202 | 0.014 | <1 | 1.82 | 0.038 | 0.18 | <0.1 | 0.08 | 7.0 | <0.1 | 0.06 | 9 | <0.5 | <0.2 |
| 812333 | Drill Core | 0.148 | 12 | 20 | 1.52 | 283 | 0.015 | <1 | 1.78 | 0.044 | 0.18 | 0.1 | 0.07 | 6.9 | <0.1 | <0.05 | 9 | <0.5 | <0.2 |
| 812334 | Drill Core | 0.177 | 9 | 7 | 1.16 | 57 | 0.003 | 2 | 1.72 | 0.062 | 0.24 | <0.1 | 0.24 | 4.1 | 0.1 | 3.09 | 6 | 5.5 | 1.3 |
| 812335 | Drill Core | 0.179 | 10 | 8 | 1.24 | 66 | 0.004 | 1 | 1.88 | 0.051 | 0.26 | <0.1 | 0.23 | 4.2 | 0.1 | 3.18 | 7 | 4.2 | 0.4 |

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.

## Client: <br> Orestone Mining Corp.

975-163rd Street
Surrey BC V4A 9T8 Canada

Project:
Report Date:

CAPTAIN
November 01, 2010

CERTIFICATE OF ANALYSIS
VAN10005403.1

|  | Method <br> Analyte <br> Unit <br> MDL | $\begin{array}{r} \text { WGHT } \\ \text { Wgt } \\ \mathrm{kg} \\ 0.01 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Mo} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Cu} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~Pb} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} \text { 1DX15 } \\ \text { Zn } \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ag} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ni} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 D X 15 \\ \text { Co } \\ \text { ppm } \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Mn} \\ \mathrm{ppm} \\ 1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Fe} \\ \% \\ 0.01 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{As} \\ \mathrm{ppm} \\ 0.5 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{U} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Au} \\ \mathrm{ppb} \\ 0.5 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Th} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sr} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Cd} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sb} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~V} \\ \mathrm{ppm} \\ 2 \\ \hline \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \mathrm{Ca} \\ \% \\ 0.01 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 812336 | Drill Core | 5.05 | 0.8 | 462.7 | 18.7 | 242 | 0.3 | 13.2 | 23.2 | 1578 | 5.39 | 6.8 | 0.6 | 160.9 | 2.4 | 232 | 0.1 | 0.9 | 0.1 | 109 | 3.30 |
| 812337 | Drill Core | 3.31 | 1.9 | 542.0 | 20.1 | 192 | 0.5 | 13.6 | 26.0 | 1383 | 5.44 | 8.0 | 0.6 | 229.1 | 1.9 | 286 | 0.1 | 1.0 | 0.2 | 99 | 3.14 |
| 812338 | Drill Core | 4.42 | 1.1 | 415.7 | 18.2 | 208 | 0.3 | 13.0 | 22.3 | 1503 | 5.30 | 5.6 | 0.6 | 129.1 | 2.7 | 194 | 0.1 | 0.8 | <0.1 | 100 | 2.91 |
| 812339 | Drill Core | 3.67 | 4.1 | 881.1 | 14.8 | 70 | 0.6 | 9.2 | 17.3 | 726 | 3.86 | 16.4 | 0.4 | 654.5 | 1.4 | 658 | 0.1 | 0.5 | 0.2 | 39 | 1.84 |
| 812340 | Drill Core | 6.28 | <0.1 | 15.3 | 4.5 | 50 | <0.1 | 10.7 | 13.0 | 1172 | 3.32 | <0.5 | 0.3 | 4.0 | 0.7 | 459 | 0.1 | 0.2 | <0.1 | 114 | 4.40 |
| 812341 | Drill Core | 2.91 | 0.5 | 375.2 | 10.4 | 125 | 0.2 | 10.5 | 16.1 | 1411 | 3.85 | 1.0 | 0.4 | 63.5 | 1.3 | 705 | 0.1 | 0.3 | <0.1 | 103 | 3.89 |
| 812342 | Drill Core | 5.00 | 1.0 | 1028 | 18.6 | 280 | 0.4 | 11.3 | 21.6 | 1595 | 5.07 | 3.2 | 0.5 | 72.4 | 2.2 | 534 | 0.1 | 0.5 | <0.1 | 93 | 2.71 |

## Client: <br> Orestone Mining Corp.

975-163rd Street
Surrey BC V4A 9T8 Canada

Project:
Report Date

CAPTAIN
November 01, 2010

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

CERTIFICATE OF ANALYSIS

|  | Method <br> Analyte Unit MDL | $\begin{array}{r} 1 D X 15 \\ P \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{La} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Mg} \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ti} \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~B} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Al} \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Na} \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~K} \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{w} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sc} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{TI} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~s} \\ \% \\ 0.05 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ga} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Se} \\ \mathrm{ppm} \\ 0.5 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Te} \\ \mathrm{ppm} \\ 0.2 \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 812336 | Drill Core | 0.197 | 12 | 8 | 2.37 | 99 | 0.005 | 3 | 2.82 | 0.055 | 0.25 | <0.1 | 0.16 | 4.2 | <0.1 | 2.19 | 10 | 1.3 | 0.5 |
| 812337 | Drill Core | 0.192 | 10 | 5 | 1.63 | 64 | 0.004 | 3 | 2.38 | 0.056 | 0.32 | <0.1 | 0.24 | 5.3 | 0.2 | 3.08 | 8 | 3.1 | 0.7 |
| 812338 | Drill Core | 0.227 | 13 | 9 | 2.23 | 93 | 0.005 | 2 | 2.70 | 0.063 | 0.26 | <0.1 | 0.22 | 4.2 | 0.1 | 1.98 | 10 | 1.8 | 0.4 |
| 812339 | Drill Core | 0.196 | 8 | 6 | 0.69 | 54 | 0.004 | 3 | 1.26 | 0.030 | 0.28 | <0.1 | 0.12 | 1.6 | 0.1 | 2.13 | 4 | 3.2 | 0.2 |
| 812340 | Drill Core | 0.097 | 9 | 22 | 0.95 | 153 | 0.016 | 1 | 1.25 | 0.050 | 0.23 | <0.1 | <0.01 | 3.9 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 812341 | Drill Core | 0.140 | 11 | 19 | 1.51 | 451 | 0.007 | 3 | 1.97 | 0.050 | 0.22 | <0.1 | 0.04 | 3.6 | <0.1 | 0.43 | 8 | 0.9 | <0.2 |
| 812342 | Drill Core | 0.176 | 12 | 11 | 2.00 | 94 | 0.003 | 3 | 2.68 | 0.046 | 0.26 | <0.1 | 0.12 | 3.2 | <0.1 | 1.37 | 8 | 2.0 | <0.2 |

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

Orestone Mining Corp.
975-163rd Street
Surrey BC V4A 9T8 Canada

CAPTAIN
November 01, 2010

## QUALITY CONTROL REPORT

|  | Method <br> Analyte <br> Unit <br> MDL | $\begin{array}{r} \hline \text { WGHT } \\ \text { Wgt } \\ \mathrm{kg} \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \text { Mo } \\ \text { ppm } \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Cu} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~Pb} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Zn} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ag} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ni} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Co} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \text { Mn } \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Fe} \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \text { As } \\ \text { ppm } \\ 0.5 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{U} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \mathrm{Au} \\ \mathrm{ppb} \\ 0.5 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Th} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sr} \\ \mathrm{ppm} \\ 1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Cd} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sb} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.1 \\ \hline \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{v} \\ \mathrm{ppm} \\ 2 \\ \hline \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \mathrm{Ca} \\ \% \\ 0.01 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pulp Duplicates |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 812321 | Drill Core | 5.68 | 1.5 | 185.4 | 12.0 | 90 | 0.4 | 5.9 | 24.4 | 1734 | 5.47 | 30.5 | 0.3 | 53.3 | 1.3 | 669 | <0.1 | 0.5 | $<0.1$ | 141 | 4.67 |
| REP 812321 | QC |  | 1.5 | 178.1 | 10.0 | 92 | 0.4 | 5.6 | 26.3 | 1711 | 5.46 | 30.0 | 0.3 | 56.7 | 1.2 | 661 | <0.1 | 0.5 | <0.1 | 141 | 4.62 |
| Core Reject Duplicates |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 812313 | Drill Core | 4.61 | 1.2 | 133.1 | 4.3 | 62 | <0.1 | 5.0 | 16.7 | 1530 | 4.36 | 2.9 | 0.6 | 1.0 | 2.0 | 321 | 0.1 | 0.4 | 0.3 | 141 | 4.62 |
| DUP 812313 | QC |  | 1.1 | 114.0 | 3.8 | 57 | <0.1 | 4.8 | 15.5 | 1408 | 3.95 | 2.3 | 0.5 | 0.8 | 1.8 | 286 | <0.1 | 0.3 | <0.1 | 127 | 4.30 |
| Reference Materials |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STD DS7 | Standard |  | 20.7 | 112.3 | 69.8 | 398 | 0.9 | 56.8 | 9.6 | 607 | 2.43 | 48.7 | 5.0 | 102.0 | 4.5 | 69 | 6.3 | 6.1 | 4.8 | 81 | 0.96 |
| STD DS7 | Standard |  | 21.0 | 110.0 | 66.1 | 383 | 1.0 | 57.2 | 10.0 | 633 | 2.45 | 48.9 | 4.9 | 71.2 | 4.5 | 72 | 6.5 | 6.1 | 4.6 | 84 | 0.97 |
| STD DS7 | Standard |  | 20.7 | 113.7 | 65.2 | 421 | 1.1 | 58.2 | 9.4 | 658 | 2.55 | 58.9 | 4.8 | 69.9 | 4.7 | 73 | 6.5 | 6.1 | 4.6 | 88 | 1.03 |
| STD DS7 | Standard |  | 19.0 | 106.7 | 60.8 | 392 | 1.0 | 53.3 | 9.3 | 627 | 2.41 | 52.8 | 4.8 | 159.2 | 4.5 | 70 | 6.3 | 5.4 | 4.4 | 83 | 0.98 |
| STD DS7 Expected |  |  | 20.5 | 109 | 70.6 | 411 | 0.9 | 56 | 9.7 | 627 | 2.39 | 48.2 | 4.9 | 70 | 4.4 | 69 | 6.4 | 4.6 | 4.5 | 84 | 0.93 |
| BLK | Blank |  | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | $<1$ | <0.01 | <0.5 | <0.1 | 1.0 | <0.1 | <1 | <0.1 | <0.1 | $<0.1$ | <2 | $<0.01$ |
| BLK | Blank |  | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| Prep Wash |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G1 | Prep Blank | <0.01 | 0.4 | 2.3 | 3.1 | 46 | $<0.1$ | 3.3 | 4.2 | 581 | 1.97 | 0.6 | 1.9 | <0.5 | 5.4 | 61 | <0.1 | <0.1 | $<0.1$ | 37 | 0.53 |
| G1 | Prep Blank | <0.01 | 0.7 | 2.7 | 3.1 | 41 | <0.1 | 3.0 | 4.3 | 578 | 1.97 | 0.8 | 1.8 | <0.5 | 5.2 | 54 | <0.1 | <0.1 | 0.2 | 38 | 0.51 |

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Project:
Report Date:

## QUALITY CONTROL REPORT

Orestone Mining Corp.
975-163rd Street
Surrey BC V4A 9T8 Canada

CAPTAIN
November 01, 2010

|  | Method <br> Analyte <br> Unit <br> MDL | $\begin{array}{r} \hline \text { 1DX15 } \\ P \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{La} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \text { Mg } \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \mathrm{Ti} \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~B} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \text { AI } \\ \% \\ 0.01 \end{array}$ | $\begin{array}{r} \hline \text { 1DX15 } \\ \mathrm{Na} \\ \% \\ 0.001 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~K} \\ \% \\ 0.01 \end{array}$ | 1DX15 <br> W <br> ppm <br> 0.1 | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 0.01 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Sc} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{TI} \\ \mathrm{ppm} \\ 0.1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{~S} \\ \% \\ 0.05 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Ga} \\ \mathrm{ppm} \\ 1 \end{array}$ | $\begin{array}{r} 1 \mathrm{DX15} \\ \mathrm{Se} \\ \mathrm{ppm} \\ 0.5 \end{array}$ | $\begin{array}{r} \hline 1 \mathrm{DX15} \\ \mathrm{Te} \\ \mathrm{ppm} \\ 0.2 \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pulp Duplicates |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 812321 | Drill Core | 0.237 | 11 | 3 | 2.09 | 73 | 0.003 | 3 | 2.35 | 0.065 | 0.21 | <0.1 | 0.11 | 5.0 | 0.2 | 2.76 | 9 | 2.2 | 0.4 |
| REP 812321 | QC | 0.243 | 12 | 3 | 2.08 | 75 | 0.004 | 2 | 2.33 | 0.065 | 0.20 | <0.1 | 0.10 | 4.7 | 0.2 | 2.76 | 9 | 1.5 | <0.2 |
| Core Reject Duplicates |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 812313 | Drill Core | 0.185 | 12 | 4 | 1.43 | 307 | 0.004 | 4 | 1.20 | 0.042 | 0.27 | <0.1 | 0.03 | 7.7 | <0.1 | 0.05 | 5 | <0.5 | <0.2 |
| DUP 812313 | QC | 0.176 | 11 | 3 | 1.30 | 243 | 0.004 | 3 | 1.06 | 0.038 | 0.25 | <0.1 | 0.02 | 7.0 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| Reference Materials |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STD DS7 | Standard | 0.075 | 12 | 194 | 1.06 | 395 | 0.123 | 41 | 1.02 | 0.091 | 0.45 | 3.9 | 0.24 | 2.2 | 3.9 | 0.20 | 5 | 3.3 | 1.4 |
| STD DS7 | Standard | 0.075 | 13 | 198 | 1.07 | 397 | 0.127 | 42 | 1.04 | 0.093 | 0.45 | 3.7 | 0.22 | 2.2 | 3.8 | 0.20 | 5 | 3.6 | 2.1 |
| STD DS7 | Standard | 0.083 | 13 | 195 | 1.11 | 436 | 0.118 | 42 | 1.10 | 0.101 | 0.52 | 3.6 | 0.24 | 2.5 | 4.2 | 0.21 | 5 | 3.1 | 2.0 |
| STD DS7 | Standard | 0.079 | 13 | 186 | 1.06 | 400 | 0.114 | 41 | 1.04 | 0.096 | 0.48 | 3.7 | 0.23 | 2.4 | 4.0 | 0.20 | 5 | 3.0 | 0.9 |
| STD DS7 Expected |  | 0.08 | 12 | 179 | 1.05 | 410 | 0.124 | 39 | 0.959 | 0.089 | 0.44 | 3.4 | 0.2 | 2.5 | 4.2 | 0.19 | 5 | 3.5 | 1.08 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | $<0.01$ | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| Prep Wash |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G1 | Prep Blank | 0.083 | 12 | 8 | 0.54 | 200 | 0.120 | 1 | 1.03 | 0.123 | 0.54 | <0.1 | <0.01 | 2.1 | 0.3 | <0.05 | 5 | <0.5 | <0.2 |
| G1 | Prep Blank | 0.083 | 12 | 8 | 0.53 | 185 | 0.118 | 1 | 0.98 | 0.109 | 0.54 | <0.1 | <0.01 | 2.0 | 0.3 | <0.05 | 4 | <0.5 | <0.2 |

ALS Canada Ltd.
2103 Dollarton Hwy
2103 Dollarton Hwy Vorth Vancouver BC V7H 0A7
To:ORESTONE MINING CORP

## CERTIFICATE VA10146619

## Project:

P.O. No.:

This report is for 191 Soil samples submitted to our lab in Vancouver, BC, Canada on 20-OCT-2010.
The following have access to data associated with this certificate: GORDON RICHARDS

|  | SAMPLE PREPARATION |
| :--- | :--- |
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LO-22 | Sample login - Rcd w/o BarCode |
| SCR-41 | Screen to -180 um and save both |


|  | ANALYTICAL PROCEDURES |  |
| :--- | :--- | :--- |
| ALS CODE | DESCRIPTION | INSTRUMENT |
| Au-ST43 | Super Trace Au - 25g AR | ICP-MS |
| ME-MS41 | 51 anal. aqua regia ICPMS |  |

To: ORESTONE MINING CORP.
ATTN: GORDON RICHARDS 6410 HOLLY PARK DRIVE DELTA BC V4K 4W6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release

Signature:
Shaun Kenny, Brisbane Laboratory Manager

ALS Canada Ltd.
To:ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE
North Vancouver BC V7H 0A7
Phone: 6049840221 Fax: 6049840218 www.alsglobal.com

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Total \# Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{aligned} & \text { WEI-21 } \\ & \text { Recvd Wt. } \\ & \text { kg } \\ & 0.02 \end{aligned}$ | $\begin{gathered} \text { Au-ST43 } \\ \text { Au } \\ \text { ppm } \\ 0.0001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ag } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { As } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Au } \\ \text { ppm } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Be} \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Cd } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ce } \\ \text { ppm } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Co } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A1 |  | 0.16 | 0.0012 | 0.47 | 1.25 | 1.5 | <0.2 | <10 | 230 | 0.42 | 0.07 | 0.31 | 0.76 | 15.45 | 10.9 | 39 |
| A2 |  | 0.22 | 0.0023 | 0.50 | 0.88 | 2.5 | $<0.2$ | <10 | 220 | 0.31 | 0.09 | 0.52 | 1.15 | 13.25 | 5.4 | 37 |
| A3 |  | 0.28 | 0.0009 | 0.42 | 1.93 | 1.5 | <0.2 | <10 | 330 | 0.80 | 0.10 | 0.35 | 0.78 | 19.15 | 7.0 | 41 |
| A4 |  | 0.22 | 0.0007 | 0.94 | 2.13 | 2.2 | <0.2 | <10 | 370 | 0.84 | 0.10 | 0.33 | 0.78 | 28.3 | 8.6 | 46 |
| A5 |  | 0.16 | 0.0016 | 0.40 | 0.95 | 2.2 | $<0.2$ | <10 | 240 | 0.39 | 0.08 | 0.35 | 0.77 | 16.90 | 7.6 | 22 |
| A6 |  | 0.16 | 0.0017 | 0.17 | 1.07 | 2.3 | <0.2 | <10 | 260 | 0.29 | 0.08 | 0.52 | 0.63 | 15.90 | 11.0 | 25 |
| A7 |  | 0.20 | 0.0012 | 0.23 | 0.79 | 2.4 | $<0.2$ | <10 | 170 | 0.21 | 0.07 | 0.42 | 0.44 | 10.95 | 5.7 | 18 |
| A8 |  | 0.26 | 0.0008 | 0.14 | 0.52 | 1.6 | <0.2 | <10 | 210 | 0.14 | 0.09 | 0.49 | 0.39 | 6.76 | 2.9 | 13 |
| A9 |  | 0.18 | 0.0007 | 0.33 | 0.82 | 2.3 | $<0.2$ | <10 | 390 | 0.31 | 0.08 | 0.46 | 1.92 | 22.8 | 36.0 | 28 |
| A10 |  | 0.24 | 0.0003 | 0.24 | 0.69 | 2.2 | $<0.2$ | <10 | 640 | 0.12 | 0.07 | 0.99 | 0.83 | 7.00 | 5.3 | 17 |
| A11 |  | 0.16 | 0.0019 | 0.29 | 0.83 | 2.5 | $<0.2$ | <10 | 360 | 0.30 | 0.10 | 0.45 | 1.86 | 21.6 | 33.1 | 28 |
| A12 |  | 0.12 | 0.0014 | 0.16 | 0.54 | 2.0 | $<0.2$ | <10 | 140 | 0.11 | 0.07 | 0.36 | 0.44 | 7.01 | 3.3 | 14 |
| A13 |  | 0.16 | 0.0010 | 0.24 | 0.66 | 1.9 | $<0.2$ | <10 | 170 | 0.19 | 0.07 | 0.46 | 0.23 | 7.29 | 3.4 | 15 |
| A14 |  | 0.24 | 0.0007 | 0.42 | 1.73 | 2.6 | $<0.2$ | <10 | 220 | 0.49 | 0.11 | 0.36 | 0.51 | 18.95 | 6.0 | 41 |
| A15 |  | 0.26 | 0.0019 | 0.12 | 0.92 | 2.9 | <0.2 | <10 | 200 | 0.19 | 0.07 | 0.64 | 0.65 | 11.85 | 12.5 | 49 |
| A16 |  | 0.12 | 0.0006 | 0.21 | 0.63 | 2.1 | <0.2 | <10 | 160 | 0.12 | 0.07 | 0.41 | 0.45 | 8.11 | 3.9 | 20 |
| A17 |  | 0.24 | 0.0006 | 0.16 | 0.77 | 2.4 | <0.2 | <10 | 140 | 0.18 | 0.07 | 0.34 | 0.59 | 10.65 | 5.6 | 24 |
| A18 |  | 0.28 | 0.0001 | 0.20 | 0.70 | 3.1 | <0.2 | $<10$ | 230 | 0.17 | 0.07 | 0.56 | 0.69 | 8.25 | 5.7 | 20 |
| A19 |  | 0.20 | 0.0018 | 0.24 | 0.85 | 3.4 | $<0.2$ | $<10$ | 80 | 0.15 | 0.08 | 0.30 | 0.26 | 9.41 | 4.6 | 23 |
| A20 |  | 0.22 | 0.0011 | 0.26 | 0.81 | 4.1 | <0.2 | $<10$ | 150 | 0.21 | 0.08 | 0.36 | 0.51 | 10.15 | 6.3 | 21 |
| A21 |  | 0.32 | 0.0014 | 0.45 | 1.17 | 3.6 | <0.2 | <10 | 310 | 0.29 | 0.08 | 0.82 | 1.09 | 13.20 | 12.2 | 26 |
| A22 |  | 0.22 | 0.0017 | 0.10 | 1.10 | 3.7 | $<0.2$ | <10 | 180 | 0.21 | 0.07 | 0.56 | 1.09 | 10.80 | 11.3 | 29 |
| A23 |  | 0.32 | 0.0008 | 0.30 | 1.41 | 2.7 | <0.2 | $<10$ | 170 | 0.25 | 0.10 | 0.40 | 0.43 | 13.80 | 7.8 | 37 |
| A24 |  | 0.14 | 0.0051 | 0.24 | 0.70 | 2.5 | $<0.2$ | $<10$ | 130 | 0.13 | 0.07 | 0.46 | 0.59 | 8.49 | 4.9 | 21 |
| A25 |  | 0.14 | 0.0017 | 0.66 | 1.54 | 3.8 | $<0.2$ | <10 | 240 | 0.54 | 0.09 | 0.32 | 0.46 | 23.5 | 11.7 | 27 |
| A26 |  | 0.30 | 0.0033 | 1.34 | 2.12 | 4.9 | <0.2 | <10 | 230 | 0.65 | 0.10 | 0.44 | 0.70 | 24.7 | 12.9 | 40 |
| A27 |  | 0.20 | 0.0026 | 0.39 | 1.42 | 4.3 | $<0.2$ | <10 | 220 | 0.38 | 0.09 | 0.57 | 0.51 | 17.75 | 10.6 | 33 |
| A28 |  | 0.34 | 0.0019 | 0.80 | 2.06 | 3.7 | <0.2 | $<10$ | 240 | 0.62 | 0.10 | 0.43 | 0.65 | 19.60 | 9.9 | 40 |
| A29 |  | 0.34 | 0.0010 | 0.52 | 1.18 | 3.6 | $<0.2$ | $<10$ | 300 | 0.35 | 0.07 | 0.91 | 0.61 | 22.3 | 8.8 | 23 |
| A30 |  | 0.34 | 0.0006 | 1.05 | 1.80 | 2.2 | <0.2 | <10 | 420 | 0.85 | 0.08 | 0.39 | 1.16 | 35.8 | 19.2 | 26 |
| A31 |  | 0.38 | 0.0007 | 1.49 | 1.61 | 2.5 | <0.2 | <10 | 230 | 0.70 | 0.10 | 0.35 | 0.94 | 27.8 | 5.9 | 24 |
| A32 |  | 0.32 | 0.0004 | 0.43 | 0.60 | 1.3 | $<0.2$ | <10 | 210 | 0.36 | 0.04 | 0.44 | 0.81 | 14.65 | 2.6 | 11 |
| $\wedge 33$ |  | 0.28 | 0.0003 | 0.97 | 0.91 | 1.5 | $<0.2$ | <10 | 250 | 0.62 | 0.07 | 0.36 | 1.09 | 17.75 | 6.4 | 20 |
| A34 |  | 0.40 | 0.0005 | 0.18 | 0.73 | 2.2 | <0.2 | $<10$ | 120 | 0.17 | 0.07 | 0.34 | 0.28 | 8.87 | 3.5 | 18 |
| A35 |  | 0.22 | 0.0006 | 0.45 | 0.46 | 1.3 | $<0.2$ | <10 | 120 | 0.08 | 0.07 | 0.35 | 0.43 | 5.21 | 1.8 | 12 |
| A36 |  | 0.24 | 0.0011 | 0.52 | 0.93 | 1.6 | <0.2 | <10 | 210 | 0.36 | 0.08 | 0.58 | 0.46 | 13.40 | 4.0 | 17 |
| A37 |  | 0.40 | 0.0007 | 0.75 | 1.55 | 2.1 | $<0.2$ | <10 | 440 | 1.06 | 0.07 | 0.56 | 0.99 | 42.5 | 8.7 | 24 |
| A38 |  | 0.20 | 0.0031 | 0.10 | 0.59 | 1.6 | $<0.2$ | <10 | 150 | 0.11 | 0.07 | 0.44 | 0.62 | 6.03 | 3.1 | 18 |
| A39 |  | 0.24 | 0.0013 | 0.23 | 0.43 | 1.3 | <0.2 | <10 | 130 | 0.07 | 0.06 | 0.36 | 0.63 | 5.14 | 1.8 | 13 |
| A40 |  | 0.22 | 0.0030 | 1.00 | 3.27 | 6.6 | <0.2 | <10 | 280 | 0.74 | 0.13 | 0.39 | 0.35 | 33.1 | 84.0 | 81 |

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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Cs } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cu} \\ \text { pprim } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Fe } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ga } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ge } \\ \text { ppाI } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Hf } \\ \text { pprit } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Hg} \\ \text { PpIII } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { In } \\ \text { Npril } \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { K } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { La } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Li } \\ \text { pprin } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mn } \\ \text { pprI } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mo } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A1 |  | 0.40 | 17.6 | 1.33 | 3.75 | <0.05 | <0.02 | 0.08 | 0.014 | 0.05 | 7.7 | 4.4 | 0.43 | 135 | 0.63 | 0.01 |
| A2 |  | 0.17 | 19.1 | 1.11 | 2.82 | <0.05 | <0.02 | 0.16 | 0.013 | 0.05 | 7.3 | 2.7 | 0.31 | 79 | 0.77 | 0.01 |
| A3 |  | 0.66 | 26.2 | 1.56 | 6.75 | <0.05 | <0.02 | 0.08 | 0.019 | 0.06 | 9.5 | 6.5 | 0.34 | 148 | 0.64 | 0.01 |
| A4 |  | 0.64 | 28.2 | 1.97 | 6.46 | 0.05 | <0.02 | 0.10 | 0.023 | 0.07 | 14.3 | 8.8 | 0.45 | 251 | 1.07 | 0.01 |
| A5 |  | 0.37 | 18.5 | 1.25 | 2.68 | $<0.05$ | <0.02 | 0.10 | 0.013 | 0.08 | 8.3 | 3.7 | 0.27 | 214 | 1.14 | 0.01 |
| A6 |  | 0.40 | 19.6 | 1.34 | 3.02 | <0.05 | <0.02 | 0.12 | 0.014 | 0.08 | 7.7 | 4.9 | 0.40 | 946 | 1.14 | 0.01 |
| A7 |  | 0.32 | 15.8 | 1.20 | 2.69 | <0.05 | <0.02 | 0.14 | 0.011 | 0.08 | 5.6 | 4.1 | 0.25 | 895 | 1.32 | <0.01 |
| A8 |  | 0.32 | 10.6 | 0.71 | 2.11 | <0.05 | <0.02 | 0.08 | 0.008 | 0.05 | 3.5 | 2.3 | 0.14 | 536 | 0.86 | <0.01 |
| A9 |  | 0.47 | 22.0 | 1.38 | 3.07 | <0.05 | $<0.02$ | 0.12 | 0.015 | 0.08 | 8.6 | 4.8 | 0.42 | 3050 | 2.15 | 0.01 |
| A10 |  | 0.42 | 19.4 | 1.02 | 2.21 | <0.05 | <0.02 | 0.15 | 0.009 | 0.07 | 3.4 | 3.7 | 0.21 | 4600 | 0.97 | 0.01 |
| A11 |  | 0.53 | 20.5 | 1.45 | 3.14 | <0.05 | <0.02 | 0.11 | 0.016 | 0.08 | 8.2 | 5.1 | 0.42 | 2810 | 2.11 | 0.01 |
| A12 |  | 0.32 | 14.3 | 0.91 | 2.12 | <0.05 | <0.02 | 0.13 | 0.009 | 0.06 | 3.4 | 3.0 | 0.18 | 342 | 1.06 | <0.01 |
| A13 |  | 0.29 | 15.1 | 0.94 | 2.29 | <0.05 | <0.02 | 0.13 | 0.010 | 0.06 | 3.7 | 2.7 | 0.21 | 292 | 1.05 | 0.01 |
| A14 |  | 0.49 | 32.5 | 1.87 | 5.92 | <0.05 | <0.02 | 0.11 | 0.018 | 0.07 | 9.4 | 6.4 | 0.40 | 217 | 1.06 | 0.01 |
| A15 |  | 0.60 | 18.0 | 1.78 | 3.25 | $<0.05$ | <0.02 | 0.11 | 0.012 | 0.06 | 5.9 | 7.1 | 0.78 | 1240 | 0.87 | 0.01 |
| A16 |  | 0.44 | 13.8 | 1.09 | 2.26 | <0.05 | <0.02 | 0.15 | 0.009 | 0.06 | 3.9 | 3.3 | 0.25 | 767 | 1.11 | 0.01 |
| A17 |  | 0.51 | 15.9 | 1.35 | 2.72 | <0.05 | <0.02 | 0.11 | 0.012 | 0.06 | 5.4 | 4.5 | 0.32 | 537 | 1.08 | 0.01 |
| A18 |  | 0.61 | 18.4 | 1.32 | 2.67 | <0.05 | <0.02 | 0.20 | 0.011 | 0.10 | 4.1 | 4.8 | 0.32 | 3250 | 1.30 | 0.01 |
| A19 |  | 0.38 | 17.0 | 1.53 | 3.26 | <0.05 | <0.02 | 0.09 | 0.011 | 0.09 | 4.9 | 5.3 | 0.31 | 473 | 1.06 | 0.01 |
| A20 |  | 0.46 | 19.9 | 1.48 | 2.85 | <0.05 | <0.02 | 0.11 | 0.012 | 0.08 | 5.1 | 5.2 | 0.32 | 668 | 1.13 | 0.01 |
| A21 |  | 0.60 | 23.2 | 1.65 | 3.63 | <0.05 | <0.02 | 0.15 | 0.017 | 0.12 | 6.3 | 7.1 | 0.41 | 2500 | 1.34 | 0.01 |
| A22 |  | 0.44 | 23.0 | 1.75 | 3.91 | <0.05 | <0.02 | 0.05 | 0.014 | 0.08 | 5.2 | 8.4 | 0.48 | 1880 | 1.53 | 0.01 |
| A23 |  | 0.57 | 18.9 | 1.72 | 5.19 | <0.05 | <0.02 | 0.08 | 0.017 | 0.10 | 7.2 | 6.7 | 0.37 | 667 | 0.86 | 0.01 |
| A24 |  | 0.32 | 13.7 | 1.30 | 2.74 | <0.05 | <0.02 | 0.08 | 0.010 | 0.09 | 4.1 | 4.4 | 0.29 | 718 | 1.29 | 0.01 |
| A25 |  | 0.66 | 30.7 | 1.94 | 4.24 | 0.05 | <0.02 | 0.14 | 0.020 | 0.09 | 11.0 | 6.2 | 0.33 | 607 | 1.76 | 0.01 |
| A26 |  | 0.75 | 40.8 | 2.48 | 6.11 | 0.05 | <0.02 | 0.14 | 0.027 | 0.09 | 11.7 | 10.3 | 0.47 | 619 | 1.13 | <0.01 |
| A27 |  | 0.68 | 25.8 | 2.03 | 4.50 | <0.05 | <0.02 | 0.11 | 0.018 | 0.09 | 8.5 | 9.0 | 0.47 | 1320 | 1.10 | 0.01 |
| A28 |  | 0.83 | 37.1 | 2.32 | 6.57 | <0.05 | <0.02 | 0.10 | 0.026 | 0.10 | 9.5 | 9.6 | 0.47 | 925 | 1.08 | 0.01 |
| A29 |  | 0.53 | 25.8 | 1.55 | 2.85 | 0.05 | <0.02 | 0.18 | 0.016 | 0.15 | 9.9 | 5.7 | 0.36 | 2030 | 1.25 | 0.01 |
| A30 |  | 0.58 | 31.9 | 1.61 | 4.11 | 0.05 | <0.02 | 0.19 | 0.024 | 0.08 | 17.1 | 5.1 | 0.24 | 1710 | 0.93 | <0.01 |
| A31 |  | 0.53 | 39.3 | 1.59 | 4.18 | 0.05 | <0.02 | 0.20 | 0.022 | 0.07 | 13.5 | 5.3 | 0.25 | 197 | 0.89 | <0.01 |
| A32 |  | 0.24 | 15.3 | 0.67 | 1.40 | $<0.05$ | <0.02 | 0.11 | 0.008 | 0.06 | 7.8 | 1.9 | 0.14 | 1000 | 0.59 | <0.01 |
| $\wedge 33$ |  | 0.30 | 20.4 | 1.08 | 2.80 | <0.05 | <0.02 | 0.10 | 0.014 | 0.08 | 8.8 | 3.0 | 0.19 | 548 | 0.90 | <0.01 |
| A34 |  | 0.28 | 10.1 | 1.08 | 3.33 | <0.05 | <0.02 | 0.08 | 0.009 | 0.05 | 4.6 | 2.4 | 0.15 | 482 | 0.73 | <0.01 |
| A35 |  | 0.20 | 7.9 | 0.57 | 1.95 | $<0.05$ | $<0.02$ | 0.12 | 0.006 | 0.09 | 2.6 | 1.8 | 0.11 | 1120 | 0.86 | <0.01 |
| A36 |  | 0.29 | 17.0 | 1.05 | 3.37 | $<0.05$ | $<0.02$ | 0.17 | 0.012 | 0.08 | 7.2 | 3.2 | 0.18 | 527 | 0.89 | 0.01 |
| A37 |  | 0.28 | 30.6 | 1.55 | 4.23 | 0.06 | 0.02 | 0.15 | 0.022 | 0.07 | 22.2 | 3.4 | 0.26 | 268 | 0.84 | 0.01 |
| A38 |  | 0.31 | 7.4 | 1.05 | 2.65 | <0.05 | <0.02 | 0.10 | 0.008 | 0.06 | 3.4 | 3.1 | 0.17 | 601 | 1.30 | 0.01 |
| A39 |  | 0.20 | 6.3 | 0.69 | 2.02 | <0.05 | <0.02 | 0.09 | 0.006 | 0.05 | 2.8 | 2.1 | 0.11 | 133 | 0.93 | 0.01 |
| A40 |  | 1.23 | 41.0 | 5.76 | 9.79 | 0.09 | 0.02 | 0.15 | 0.052 | 0.06 | 12.0 | 14.2 | 0.52 | 6080 | 5.58 | 0.01 |

LS Canada Ltd.
To:ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE
North Vancouver BC V7H 0A7
Phone: 6049840221 Fax: 6049840218 www.alsglobal.com

Total \# Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 14-NOV-2010 Account: MINORE
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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Nb } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ni} \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { P } \\ \text { ppाII } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Pb } \\ \text { Ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Rb } \\ \mu \mu I I \\ 0.1 \end{gathered}$ | $\begin{aligned} & \text { ME-MS41 } \\ & \operatorname{Re} \\ & \text { pprir } \\ & 0.001 \end{aligned}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sb } \\ \text { Ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sc } \\ \text { ppril } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Se} \\ \text { pprol } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sn } \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sr } \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ta } \\ \text { ppril } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Te } \\ \text { ppril } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Th } \\ \text { ppाII } \\ 0.2 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A1 |  | 0.52 | 63.6 | 680 | 5.5 | 5.3 | <0.001 | 0.04 | 0.20 | 1.8 | 0.3 | 0.3 | 42.0 | <0.01 | 0.01 | <0.2 |
| A2 |  | 0.35 | 76.0 | 930 | 5.0 | 2.0 | <0.001 | 0.06 | 0.21 | 0.6 | 0.4 | 0.2 | 45.3 | $<0.01$ | 0.01 | $<0.2$ |
| A3 |  | 0.47 | 51.4 | 860 | 6.7 | 6.4 | <0.001 | 0.03 | 0.21 | 1.0 | 0.4 | 0.5 | 38.7 | $<0.01$ | 0.01 | <0.2 |
| A4 |  | 0.70 | 65.3 | 970 | 6.7 | 7.6 | <0.001 | 0.03 | 0.29 | 2.2 | 0.5 | 0.5 | 40.8 | $<0.01$ | 0.01 | <0.2 |
| A5 |  | 0.40 | 34.1 | 910 | 6.1 | 4.4 | <0.001 | 0.05 | 0.27 | 1.1 | 0.5 | 0.2 | 40.3 | $<0.01$ | 0.01 | $<0.2$ |
| A6 |  | 0.37 | 63.8 | 1090 | 6.0 | 6.2 | <0.001 | 0.07 | 0.33 | 1.0 | 0.5 | 0.2 | 49.3 | <0.01 | 0.01 | <0.2 |
| A7 |  | 0.37 | 23.4 | 790 | 7.7 | 5.7 | <0.001 | 0.05 | 0.35 | 1.0 | 0.5 | 0.2 | 36.3 | $<0.01$ | 0.01 | <0.2 |
| A8 |  | 0.18 | 10.6 | 500 | 7.4 | 5.7 | <0.001 | 0.03 | 0.21 | 0.3 | 0.3 | 0.2 | 47.3 | $<0.01$ | <0.01 | <0.2 |
| A9 |  | 0.38 | 84.4 | 920 | 9.4 | 6.9 | <0.001 | 0.04 | 0.30 | 1.5 | 0.5 | 0.3 | 49.7 | $<0.01$ | 0.02 | $<0.2$ |
| A10 |  | 0.36 | 18.0 | 630 | 5.8 | 9.1 | $<0.001$ | 0.04 | 0.28 | 1.2 | 0.4 | 0.2 | 81.7 | $<0.01$ | 0.02 | $<0.2$ |
| A11 |  | 0.42 | 79.2 | 870 | 8.9 | 7.7 | <0.001 | 0.04 | 0.33 | 1.6 | 0.4 | 0.2 | 47.0 | $<0.01$ | 0.01 | <0.2 |
| A12 |  | 0.39 | 13.1 | 630 | 7.4 | 4.0 | <0.001 | 0.04 | 0.31 | 1.2 | 0.4 | 0.2 | 34.9 | $<0.01$ | 0.01 | <0.2 |
| A13 |  | 0.30 | 16.2 | 710 | 7.1 | 4.4 | <0.001 | 0.06 | 0.27 | 0.7 | 0.4 | 0.2 | 50.9 | $<0.01$ | 0.01 | <0.2 |
| A14 |  | 0.51 | 38.2 | 1010 | 8.0 | 5.3 | <0.001 | 0.05 | 0.32 | 1.4 | 0.4 | 0.6 | 39.4 | <0.01 | 0.02 | <0.2 |
| A15 |  | 0.66 | 87.8 | 650 | 5.4 | 8.2 | $<0.001$ | 0.03 | 0.31 | 2.5 | 0.4 | 0.2 | 43.0 | $<0.01$ | 0.01 | 0.2 |
| A16 |  | 0.29 | 20.4 | 720 | 6.3 | 6.1 | <0.001 | 0.06 | 0.29 | 0.5 | 0.4 | 0.2 | 28.3 | $<0.01$ | 0.01 | <0.2 |
| A17 |  | 0.31 | 24.3 | 690 | 7.2 | 7.1 | <0.001 | 0.05 | 0.35 | 0.9 | 0.4 | 0.2 | 32.5 | $<0.01$ | 0.01 | <0.2 |
| A18 |  | 0.29 | 19.9 | 1120 | 7.5 | 6.7 | $<0.001$ | 0.06 | 0.38 | 1.0 | 0.4 | 0.2 | 45.7 | <0.01 | 0.02 | <0.2 |
| A19 |  | 0.57 | 16.0 | 690 | 5.8 | 5.2 | $<0.001$ | 0.02 | 0.40 | 2.2 | 0.3 | 0.3 | 20.7 | $<0.01$ | 0.01 | 0.4 |
| A20 |  | 0.45 | 17.9 | 730 | 10.4 | 5.4 | <0.001 | 0.04 | 0.43 | 1.6 | 0.5 | 0.2 | 30.2 | $<0.01$ | 0.02 | $<0.2$ |
| A21 |  | 0.30 | 31.5 | 1400 | 7.1 | 11.4 | <0.001 | 0.07 | 0.42 | 0.7 | 0.5 | 0.3 | 57.2 | $<0.01$ | 0.01 | <0.2 |
| A22 |  | 0.37 | 28.2 | 960 | 5.0 | 6.5 | <0.001 | 0.04 | 0.43 | 1.6 | 0.4 | 0.3 | 37.1 | $<0.01$ | 0.02 | $<0.2$ |
| A23 |  | 0.55 | 36.1 | 890 | 6.3 | 8.0 | <0.001 | 0.02 | 0.30 | 2.2 | 0.4 | 0.4 | 27.9 | $<0.01$ | 0.01 | <0.2 |
| A24 |  | 0.21 | 20.4 | 560 | 6.3 | 5.2 | <0.001 | 0.04 | 0.31 | 0.5 | 0.3 | 0.2 | 31.4 | $<0.01$ | 0.01 | $<0.2$ |
| A25 |  | 0.50 | 32.9 | 1110 | 8.1 | 10.5 | <0.001 | 0.06 | 0.53 | 1.7 | 0.6 | 0.3 | 33.3 | <0.01 | 0.02 | $<0.2$ |
| A26 |  | 0.67 | 37.7 | 1400 | 6.5 | 8.1 | <0.001 | 0.04 | 0.54 | 3.2 | 0.7 | 0.4 | 35.1 | $<0.01$ | 0.03 | <0.2 |
| A27 |  | 0.52 | 29.0 | 930 | 6.1 | 8.3 | <0.001 | 0.02 | 0.47 | 2.7 | 0.5 | 0.3 | 39.3 | <0.01 | 0.02 | $<0.2$ |
| A28 |  | 0.39 | 34.1 | 990 | 6.1 | 9.2 | <0.001 | 0.03 | 0.43 | 1.3 | 0.5 | 0.4 | 32.7 | <0.01 | 0.02 | <0.2 |
| A29 |  | 0.41 | 26.4 | 1510 | 10.2 | 12.4 | <0.001 | 0.07 | 0.45 | 1.3 | 0.5 | 0.2 | 54.7 | $<0.01$ | 0.02 | <0.2 |
| A30 |  | 0.39 | 27.2 | 1580 | 5.9 | 6.1 | $<0.001$ | 0.05 | 0.39 | 0.9 | 0.6 | 0.3 | 40.4 | $<0.01$ | 0.02 | <0.2 |
| A31 |  | 0.51 | 31.5 | 1260 | 5.9 | 5.4 | <0.001 | 0.05 | 0.39 | 1.6 | 0.6 | 0.3 | 31.0 | $<0.01$ | 0.02 | <0.2 |
| A32 |  | 0.27 | 15.2 | 640 | 4.3 | 2.7 | <0.001 | 0.03 | 0.19 | 0.9 | 0.4 | 0.2 | 40.8 | $<0.01$ | 0.01 | $<0.2$ |
| $\wedge 33$ |  | 0.36 | 25.3 | 950 | 6.5 | 4.3 | $<0.001$ | 0.03 | 0.20 | 1.0 | 0.4 | 0.2 | 30.9 | $<0.01$ | 0.01 | $<0.2$ |
| A34 |  | 0.45 | 12.3 | 590 | 6.9 | 3.2 | <0.001 | 0.03 | 0.24 | 1.3 | 0.3 | 0.3 | 22.3 | $<0.01$ | 0.01 | <0.2 |
| A35 |  | 0.29 | 7.4 | 760 | 6.1 | 2.3 | $<0.001$ | 0.04 | 0.17 | 0.6 | 0.3 | 0.4 | 17.7 | $<0.01$ | 0.01 | $<0.2$ |
| A36 |  | 0.47 | 16.9 | 930 | 7.2 | 4.6 | <0.001 | 0.07 | 0.26 | 1.2 | 0.5 | 0.3 | 45.9 | $<0.01$ | 0.01 | <0.2 |
| A37 |  | 0.48 | 28.3 | 1120 | 5.3 | 3.9 | <0.001 | 0.06 | 0.38 | 1.5 | 0.7 | 0.3 | 81.3 | $<0.01$ | 0.02 | $<0.2$ |
| A38 |  | 0.46 | 9.0 | 740 | 6.8 | 4.7 | $<0.001$ | 0.06 | 0.24 | 0.9 | 0.4 | 0.3 | 36.3 | <0.01 | 0.01 | $<0.2$ |
| A39 |  | 0.40 | 6.9 | 570 | 6.1 | 2.5 | <0.001 | 0.05 | 0.21 | 0.8 | 0.3 | 0.2 | 29.3 | <0.01 | 0.01 | <0.2 |
| A40 |  | 0.31 | 81.4 | 1780 | 6.9 | 6.7 | 0.001 | 0.10 | 0.41 | 1.8 | 1.1 | 0.5 | 33.1 | $<0.01$ | 0.04 | <0.2 |

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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ T i \\ \% \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { TI } \\ \text { pprm } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { U } \\ \text { ppiri } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ V \\ \text { pprin } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { W } \\ \text { ppmin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Y } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Zn } \\ \text { pprin } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Zr} \\ \mu \mu \mathrm{II} \\ 0.5 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A1 |  | 0.036 | 0.05 | 0.27 | 31 | 0.08 | 5.28 | 40 | <0.5 |
| A2 |  | 0.019 | 0.04 | 0.30 | 23 | 0.06 | 4.87 | 39 | $<0.5$ |
| A3 |  | 0.017 | 0.08 | 0.48 | 39 | 0.07 | 7.01 | 55 | $<0.5$ |
| A4 |  | 0.024 | 0.10 | 0.55 | 48 | 0.10 | 10.65 | 74 | <0.5 |
| A5 |  | 0.024 | 0.05 | 0.26 | 26 | 0.08 | 6.28 | 44 | <0.5 |
| A6 |  | 0.021 | 0.05 | 0.28 | 30 | 0.08 | 6.45 | 49 | <0.5 |
| A7 |  | 0.025 | 0.06 | 0.20 | 29 | 0.09 | 3.88 | 40 | <0.5 |
| A8 |  | 0.017 | 0.04 | 0.11 | 22 | 0.07 | 1.69 | 30 | <0.5 |
| A9 |  | 0.029 | 0.08 | 0.26 | 33 | 0.10 | 6.61 | 70 | $<0.5$ |
| A10 |  | 0.032 | 0.09 | 0.12 | 26 | 0.84 | 1.94 | 174 | $<0.5$ |
| A11 |  | 0.033 | 0.08 | 0.25 | 35 | 0.11 | 6.23 | 71 | <0.5 |
| A12 |  | 0.030 | 0.05 | 0.13 | 26 | 0.08 | 2.06 | 36 | <0.5 |
| A13 |  | 0.021 | 0.04 | 0.17 | 25 | 0.08 | 2.21 | 31 | $<0.5$ |
| A14 |  | 0.032 | 0.06 | 0.41 | 42 | 0.12 | 6.32 | 53 | <0.5 |
| A15 |  | 0.054 | 0.08 | 0.23 | 40 | 0.10 | 3.83 | 76 | <0.5 |
| A16 |  | 0.021 | 0.08 | 0.14 | 27 | 0.07 | 2.34 | 50 | <0.5 |
| A17 |  | 0.028 | 0.06 | 0.19 | 33 | 0.13 | 3.47 | 44 | <0.5 |
| A18 |  | 0.027 | 0.13 | 0.16 | 34 | 0.09 | 2.74 | 91 | <0.5 |
| A19 |  | 0.050 | 0.07 | 0.18 | 41 | 0.10 | 2.67 | 46 | <0.5 |
| A20 |  | 0.036 | 0.06 | 0.20 | 39 | 0.11 | 3.68 | 53 | <0.5 |
| A21 |  | 0.017 | 0.09 | 0.25 | 37 | 0.08 | 4.41 | 99 | <0.5 |
| A22 |  | 0.044 | 0.07 | 0.23 | 46 | 0.18 | 3.46 | 94 | $<0.5$ |
| A23 |  | 0.037 | 0.08 | 0.28 | 40 | 0.09 | 4.08 | 55 | <0.5 |
| A24 |  | 0.026 | 0.06 | 0.15 | 34 | 0.09 | 2.19 | 49 | <0.5 |
| A25 |  | 0.024 | 0.09 | 0.46 | 39 | 0.11 | 9.18 | 50 | <0.5 |
| A26 |  | 0.030 | 0.10 | 0.58 | 50 | 0.33 | 10.95 | 79 | <0.5 |
| A27 |  | 0.046 | 0.09 | 0.34 | 49 | 0.12 | 6.43 | 74 | $<0.5$ |
| A28 |  | 0.019 | 0.11 | 0.45 | 49 | 0.10 | 7.49 | 77 | <0.5 |
| A29 |  | 0.022 | 0.08 | 0.39 | 32 | 0.09 | 8.41 | 86 | <0.5 |
| A30 |  | 0.011 | 0.09 | 0.59 | 27 | 0.09 | 14.75 | 66 | <0.5 |
| A31 |  | 0.016 | 0.07 | 0.58 | 27 | 0.11 | 11.15 | 55 | <0.5 |
| A32 |  | 0.016 | 0.05 | 0.19 | 13 | 0.07 | 7.77 | 29 | $<0.5$ |
| $\wedge 33$ |  | 0.019 | 0.06 | 0.26 | 22 | 0.08 | 6.41 | 44 | $<0.5$ |
| A34 |  | 0.037 | 0.06 | 0.14 | 28 | 0.09 | 2.17 | 45 | <0.5 |
| A35 |  | 0.022 | 0.07 | 0.08 | 18 | 0.08 | 1.00 | 35 | <0.5 |
| A36 |  | 0.026 | 0.06 | 0.24 | 26 | 0.10 | 4.83 | 48 | <0.5 |
| A37 |  | 0.023 | 0.04 | 0.55 | 29 | 0.11 | 18.45 | 50 | $<0.5$ |
| A38 |  | 0.037 | 0.04 | 0.12 | 31 | 0.10 | 1.39 | 44 | $<0.5$ |
| A39 |  | 0.033 | 0.03 | 0.10 | 21 | 0.08 | 1.11 | 35 | <0.5 |
| A40 |  | 0.015 | 0.30 | 0.96 | 138 | 0.11 | 10.35 | 92 | <0.5 |

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To:ORESTONE MINING CORP.
6410 HOLLY PARK DRIVE
2103 Dollarton Hwy
BC V7H 0A7
DELTA BC V4K 4W6

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Finalized Date: 14-NOV-2010 Account: MINORE
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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { WEI-21 } \\ \text { Recvd Wt. } \\ \text { kg } \\ 0.02 \end{gathered}$ | $\begin{gathered} \mathrm{Au}-\mathrm{ST} 43 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.0001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ag } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { As } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Be } \\ \text { ppm } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Cd } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ce } \\ \text { ppm } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Co } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A41 |  | 0.24 | 0.0012 | 0.51 | 0.67 | 2.6 | $<0.2$ | <10 | 210 | 0.16 | 0.08 | 0.31 | 0.49 | 6.41 | 3.2 | 18 |
| A42 |  | 0.24 | 0.0008 | 0.11 | 0.66 | 2.1 | $<0.2$ | <10 | 170 | 0.13 | 0.06 | 0.41 | 0.33 | 4.89 | 4.2 | 17 |
| A43 |  | 0.16 | 0.0008 | 0.30 | 0.54 | 1.3 | $<0.2$ | $<10$ | 200 | 0.12 | 0.09 | 0.33 | 0.54 | 5.81 | 2.1 | 15 |
| A44 |  | 0.22 | 0.0007 | 0.84 | 0.73 | 1.2 | $<0.2$ | $<10$ | 240 | 0.42 | 0.05 | 0.75 | 3.61 | 24.3 | 4.8 | 11 |
| A45 |  | 0.24 | 0.0016 | 0.90 | 2.78 | 3.7 | $<0.2$ | $<10$ | 330 | 0.86 | 0.11 | 0.49 | 1.20 | 39.2 | 18.8 | 43 |
| A46 |  | 0.20 | 0.0009 | 0.94 | 1.99 | 3.1 | <0.2 | <10 | 320 | 0.66 | 0.10 | 0.60 | 0.68 | 28.2 | 16.9 | 34 |
| A47 |  | 0.28 | 0.0006 | 1.03 | 2.02 | 3.1 | $<0.2$ | <10 | 370 | 0.75 | 0.12 | 0.66 | 0.48 | 28.4 | 17.1 | 33 |
| A48 |  | 0.14 | 0.0029 | 0.12 | 0.78 | 1.9 | $<0.2$ | $<10$ | 220 | 0.15 | 0.05 | 0.78 | 0.44 | 11.05 | 4.1 | 17 |
| A49 |  | 0.24 | 0.0016 | 0.55 | 1.47 | 2.7 | $<0.2$ | <10 | 370 | 0.44 | 0.09 | 1.22 | 0.95 | 21.3 | 11.8 | 26 |
| A50 |  | 0.18 | 0.0008 | 0.32 | 1.86 | 2.7 | $<0.2$ | <10 | 340 | 0.74 | 0.08 | 0.97 | 0.89 | 33.5 | 15.9 | 31 |
| A51 |  | 0.20 | 0.0013 | 0.31 | 1.24 | 2.0 | $<0.2$ | <10 | 280 | 0.31 | 0.07 | 0.99 | 0.62 | 22.9 | 6.9 | 20 |
| A52 |  | 0.18 | 0.0009 | 0.78 | 2.23 | 2.8 | <0.2 | $<10$ | 390 | 0.65 | 0.07 | 2.28 | 1.13 | 33.5 | 9.1 | 34 |
| A53 |  | 0.16 | 0.0014 | 0.75 | 0.91 | 1.7 | $<0.2$ | <10 | 280 | 0.24 | 0.07 | 1.72 | 0.72 | 12.70 | 5.6 | 20 |
| A54 |  | 0.16 | 0.0011 | 0.18 | 0.70 | 2.2 | $<0.2$ | 10 | 280 | 0.14 | 0.05 | 1.48 | 1.77 | 9.48 | 6.8 | 22 |
| A55 |  | 0.18 | 0.0016 | 0.26 | 1.37 | 2.1 | $<0.2$ | $<10$ | 300 | 0.52 | 0.06 | 1.22 | 0.61 | 34.4 | 12.3 | 24 |
| A56 |  | 0.24 | 0.0011 | 0.38 | 1.00 | 1.5 | $<0.2$ | <10 | 240 | 0.28 | 0.06 | 0.85 | 0.80 | 24.1 | 17.2 | 30 |
| A57 |  | 0.20 | 0.0009 | 1.14 | 2.39 | 2.4 | $<0.2$ | <10 | 420 | 0.96 | 0.09 | 0.85 | 1.69 | 46.0 | 25.8 | 50 |
| A58 |  | 0.28 | 0.0014 | 0.73 | 1.59 | 2.4 | <0.2 | $<10$ | 390 | 0.50 | 0.08 | 1.10 | 1.14 | 42.6 | 21.8 | 37 |
| A59 |  | 0.20 | 0.0003 | 1.38 | 1.77 | 2.1 | $<0.2$ | <10 | 540 | 1.06 | 0.08 | 0.74 | 1.56 | 54.1 | 30.6 | 45 |
| A60 |  | 0.20 | 0.0005 | 0.93 | 0.26 | 1.0 | $<0.2$ | <10 | 300 | <0.05 | 0.08 | 1.37 | 0.75 | 5.77 | 1.3 | 6 |
| A61 |  | 0.22 | 0.0224 | 0.52 | 0.38 | 1.0 | $<0.2$ | <10 | 260 | 0.09 | 0.06 | 1.22 | 1.48 | 8.47 | 2.8 | 11 |
| A62 |  | 0.20 | 0.0006 | 0.22 | 0.39 | 0.8 | $<0.2$ | $<10$ | 200 | 0.07 | 0.08 | 0.40 | 1.52 | 7.39 | 2.2 | 15 |
| A63 |  | 0.16 | 0.0011 | 0.45 | 0.94 | 1.1 | $<0.2$ | <10 | 280 | 0.50 | 0.07 | 0.53 | 1.11 | 30.9 | 8.2 | 18 |
| A64 |  | 0.16 | NSS | 0.84 | 0.79 | 1.7 | $<0.2$ | <10 | 310 | 0.50 | 0.08 | 0.55 | 1.18 | 33.3 | 9.1 | 11 |
| A65 |  | 0.20 | 0.0011 | 1.76 | 0.58 | 1.0 | $<0.2$ | <10 | 230 | 0.27 | 0.08 | 0.36 | 1.38 | 16.65 | 3.1 | 9 |
| A66 |  | 0.22 | 0.0005 | 1.21 | 0.78 | 1.0 | $<0.2$ | <10 | 280 | 0.44 | 0.07 | 0.46 | 1.32 | 25.7 | 4.4 | 10 |
| A67 |  | 0.28 | 0.0007 | 1.22 | 1.74 | 2.8 | $<0.2$ | <10 | 440 | 0.80 | 0.11 | 1.21 | 1.95 | 40.1 | 22.1 | 29 |
| A68 |  | 0.22 | 0.0004 | 1.12 | 0.94 | 2.3 | $<0.2$ | <10 | 220 | 0.56 | 0.09 | 0.54 | 1.43 | 26.4 | 7.7 | 11 |
| A69 |  | 0.26 | 0.0007 | 1.08 | 1.60 | 1.7 | $<0.2$ | $<10$ | 390 | 0.90 | 0.08 | 0.81 | 1.24 | 35.6 | 22.0 | 25 |
| A70 |  | 0.14 | 0.0004 | 0.38 | 0.34 | 0.5 | $<0.2$ | <10 | 160 | 0.08 | 0.07 | 0.19 | 0.49 | 10.85 | 1.3 | 7 |
| A71 |  | 0.16 | 0.0020 | 0.65 | 1.29 | 1.7 | <0.2 | <10 | 190 | 0.39 | 0.08 | 0.24 | 0.87 | 12.30 | 4.6 | 18 |
| A72 |  | 0.22 | 0.0010 | 0.32 | 0.60 | 1.4 | $<0.2$ | <10 | 210 | 0.17 | 0.08 | 0.19 | 0.58 | 7.52 | 1.8 | 12 |
| $\wedge 73$ |  | 0.14 | 0.0008 | 1.29 | 1.00 | 1.3 | $<0.2$ | <10 | 200 | 0.43 | 0.07 | 0.24 | 0.50 | 10.50 | 3.1 | 11 |
| A74 |  | 0.22 | 0.0004 | 0.36 | 0.72 | 1.0 | <0.2 | $<10$ | 240 | 0.40 | 0.07 | 0.34 | 0.83 | 13.20 | 2.5 | 10 |
| A75 |  | 0.14 | 0.0002 | 0.35 | 0.63 | 0.8 | $<0.2$ | <10 | 300 | 0.32 | 0.06 | 0.30 | 0.52 | 7.64 | 2.0 | 7 |
| A76 |  | 0.10 | 0.0006 | 0.61 | 0.56 | 1.1 | <0.2 | <10 | 420 | 0.26 | 0.08 | 0.44 | 0.73 | 8.60 | 3.6 | 6 |
| A77 |  | 0.16 | 0.0006 | 0.19 | 0.56 | 1.1 | $<0.2$ | <10 | 210 | 0.14 | 0.06 | 0.20 | 1.03 | 5.88 | 1.9 | 12 |
| A78 |  | 0.18 | 0.0013 | 0.66 | 1.20 | 1.3 | $<0.2$ | <10 | 180 | 0.38 | 0.07 | 0.24 | 0.48 | 13.15 | 4.4 | 18 |
| A79 |  | 0.24 | 0.0005 | 0.80 | 1.39 | 1.6 | $<0.2$ | <10 | 300 | 1.02 | 0.07 | 0.29 | 0.87 | 18.70 | 6.7 | 19 |
| A80 |  | 0.10 | NSS | 2.00 | 1.34 | 1.7 | <0.2 | <10 | 200 | 0.39 | 0.07 | 0.30 | 0.45 | 17.55 | 4.0 | 25 |

LS Canada Ltd.
To:ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE
North Vancouver BC V7H 0A7
Phone: 6049840221 Fax: 6049840218 www.alsglobal.com
DELTA BC V4K 4W6

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minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Cs } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cu} \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Fe } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ga } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ge } \\ \text { pprII } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Hf } \\ \text { ppाir } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Hg} \\ \mathrm{\mu pmi} \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { In } \\ \text { ppril } \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { K } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { La } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Li } \\ \text { pprin } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mn } \\ \text { MpIII } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mo } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A41 |  | 0.30 | 13.1 | 1.25 | 3.02 | <0.05 | <0.02 | 0.14 | 0.010 | 0.08 | 3.5 | 3.1 | 0.19 | 124 | 1.10 | 0.01 |
| A42 |  | 0.32 | 11.8 | 1.14 | 2.17 | $<0.05$ | <0.02 | 0.14 | 0.008 | 0.11 | 3.0 | 4.0 | 0.20 | 324 | 1.62 | 0.01 |
| A43 |  | 0.14 | 6.2 | 0.83 | 2.59 | <0.05 | <0.02 | 0.10 | 0.007 | 0.06 | 3.2 | 1.9 | 0.10 | 588 | 1.09 | 0.01 |
| A44 |  | 0.23 | 24.5 | 0.67 | 1.71 | <0.05 | 0.02 | 0.13 | 0.010 | 0.14 | 12.2 | 1.9 | 0.17 | 992 | 1.73 | 0.01 |
| A45 |  | 0.96 | 44.5 | 2.69 | 8.68 | 0.06 | 0.02 | 0.13 | 0.033 | 0.09 | 17.0 | 10.9 | 0.46 | 2700 | 1.63 | 0.01 |
| A46 |  | 0.67 | 34.3 | 2.10 | 6.13 | <0.05 | <0.02 | 0.15 | 0.026 | 0.08 | 12.5 | 7.9 | 0.38 | 3510 | 1.75 | 0.01 |
| A47 |  | 0.49 | 34.3 | 2.14 | 7.03 | <0.05 | <0.02 | 0.14 | 0.026 | 0.07 | 14.8 | 7.0 | 0.34 | 1660 | 1.49 | 0.01 |
| A48 |  | 0.33 | 15.7 | 1.06 | 2.40 | <0.05 | <0.02 | 0.13 | 0.009 | 0.08 | 6.1 | 4.0 | 0.24 | 1240 | 1.95 | 0.01 |
| A49 |  | 0.65 | 27.1 | 1.62 | 4.60 | $<0.05$ | $<0.02$ | 0.22 | 0.018 | 0.09 | 10.5 | 6.1 | 0.33 | 2510 | 1.74 | 0.01 |
| A50 |  | 0.58 | 36.5 | 1.94 | 5.35 | 0.05 | 0.02 | 0.15 | 0.023 | 0.06 | 17.5 | 8.2 | 0.41 | 2090 | 1.52 | 0.01 |
| A51 |  | 0.49 | 21.1 | 1.36 | 3.56 | <0.05 | <0.02 | 0.29 | 0.015 | 0.07 | 11.1 | 5.5 | 0.32 | 882 | 1.99 | 0.01 |
| A52 |  | 0.68 | 45.7 | 1.95 | 5.68 | 0.06 | 0.03 | 0.16 | 0.025 | 0.07 | 19.0 | 6.7 | 0.41 | 979 | 0.99 | 0.01 |
| A53 |  | 0.49 | 15.1 | 1.06 | 2.83 | $<0.05$ | 0.02 | 0.27 | 0.013 | 0.09 | 8.2 | 3.5 | 0.30 | 832 | 2.68 | 0.01 |
| A54 |  | 0.26 | 21.9 | 1.20 | 2.35 | <0.05 | 0.02 | 0.09 | 0.010 | 0.20 | 4.9 | 4.2 | 0.43 | 1330 | 3.40 | 0.01 |
| A55 |  | 0.51 | 28.0 | 1.29 | 3.14 | <0.05 | <0.02 | 0.13 | 0.015 | 0.13 | 15.5 | 4.4 | 0.49 | 1280 | 1.71 | 0.01 |
| A56 |  | 0.39 | 20.3 | 1.33 | 2.86 | 0.05 | <0.02 | 0.11 | 0.013 | 0.07 | 11.2 | 4.8 | 0.47 | 940 | 0.87 | 0.01 |
| A57 |  | 0.78 | 48.5 | 2.11 | 6.58 | 0.06 | 0.02 | 0.16 | 0.029 | 0.12 | 22.4 | 7.6 | 0.71 | 2000 | 1.55 | 0.01 |
| A58 |  | 0.48 | 33.1 | 1.72 | 3.99 | 0.06 | 0.02 | 0.18 | 0.020 | 0.11 | 18.0 | 5.1 | 0.54 | 2550 | 1.56 | 0.02 |
| A59 |  | 0.60 | 46.5 | 1.89 | 4.87 | 0.05 | 0.02 | 0.18 | 0.026 | 0.09 | 26.4 | 5.0 | 0.41 | 4040 | 1.38 | 0.01 |
| A60 |  | 0.16 | 18.6 | 0.29 | 0.92 | $<0.05$ | <0.02 | 0.32 | 0.006 | 0.05 | 3.4 | 0.5 | 0.07 | 2140 | 1.50 | 0.01 |
| A61 |  | 0.20 | 9.1 | 0.55 | 1.56 | <0.05 | <0.02 | 0.24 | 0.006 | 0.05 | 4.8 | 1.2 | 0.13 | 1180 | 1.02 | 0.01 |
| A62 |  | 0.17 | 6.4 | 0.59 | 1.99 | <0.05 | <0.02 | 0.08 | 0.007 | 0.05 | 4.0 | 1.1 | 0.10 | 444 | 1.08 | 0.01 |
| A63 |  | 0.25 | 22.4 | 0.95 | 3.18 | <0.05 | <0.02 | 0.10 | 0.013 | 0.07 | 18.0 | 2.7 | 0.22 | 624 | 1.02 | 0.01 |
| A64 |  | 0.20 | 18.9 | 0.76 | 1.72 | $<0.05$ | <0.02 | 0.14 | 0.012 | 0.07 | 17.1 | 1.8 | 0.15 | 940 | 1.33 | <0.01 |
| A65 |  | 0.20 | 20.9 | 0.53 | 1.80 | <0.05 | <0.02 | 0.16 | 0.011 | 0.06 | 9.2 | 1.5 | 0.08 | 152 | 0.91 | <0.01 |
| A66 |  | 0.27 | 25.0 | 0.84 | 1.76 | $<0.05$ | $<0.02$ | 0.17 | 0.012 | 0.06 | 14.9 | 1.5 | 0.14 | 131 | 0.82 | $<0.01$ |
| A67 |  | 0.60 | 43.8 | 1.61 | 5.61 | 0.05 | <0.02 | 0.18 | 0.027 | 0.08 | 19.7 | 6.1 | 0.48 | 3780 | 1.73 | 0.01 |
| A68 |  | 0.37 | 22.8 | 1.00 | 2.49 | <0.05 | <0.02 | 0.15 | 0.016 | 0.05 | 14.5 | 2.3 | 0.19 | 300 | 1.20 | <0.01 |
| A69 |  | 0.40 | 35.7 | 1.60 | 4.52 | <0.05 | <0.02 | 0.11 | 0.024 | 0.07 | 19.9 | 4.7 | 0.28 | 1260 | 1.16 | 0.01 |
| A70 |  | 0.18 | 5.9 | 0.31 | 1.63 | <0.05 | <0.02 | 0.09 | 0.008 | 0.03 | 6.7 | 1.0 | 0.07 | 196 | 0.65 | <0.01 |
| A71 |  | 0.39 | 26.7 | 1.09 | 4.84 | <0.05 | <0.02 | 0.12 | 0.019 | 0.05 | 7.0 | 2.7 | 0.14 | 41 | 0.74 | 0.01 |
| A72 |  | 0.16 | 9.2 | 0.72 | 2.67 | <0.05 | <0.02 | 0.08 | 0.009 | 0.04 | 4.0 | 1.4 | 0.09 | 68 | 0.80 | 0.01 |
| $\wedge 73$ |  | 0.21 | 18.5 | 0.98 | 2.85 | <0.05 | <0.02 | 0.14 | 0.016 | 0.05 | 5.9 | 1.8 | 0.11 | 68 | 1.19 | 0.01 |
| A74 |  | 0.30 | 13.6 | 0.63 | 2.47 | <0.05 | <0.02 | 0.07 | 0.011 | 0.05 | 7.1 | 2.0 | 0.12 | 161 | 0.65 | 0.01 |
| A75 |  | 0.14 | 12.8 | 0.56 | 1.98 | $<0.05$ | $<0.02$ | 0.14 | 0.010 | 0.05 | 4.0 | 1.0 | 0.07 | 127 | 0.67 | 0.01 |
| A76 |  | 0.11 | 17.1 | 0.54 | 1.33 | <0.05 | <0.02 | 0.14 | 0.009 | 0.07 | 4.8 | 0.9 | 0.08 | 210 | 0.87 | 0.01 |
| A77 |  | 0.18 | 6.9 | 0.62 | 2.41 | $<0.05$ | <0.02 | 0.08 | 0.008 | 0.04 | 3.2 | 1.2 | 0.09 | 73 | 0.69 | 0.01 |
| A78 |  | 0.28 | 15.2 | 1.21 | 4.45 | <0.05 | <0.02 | 0.12 | 0.014 | 0.05 | 7.4 | 3.0 | 0.16 | 90 | 0.77 | 0.01 |
| A79 |  | 0.45 | 35.8 | 1.54 | 4.35 | <0.05 | <0.02 | 0.12 | 0.022 | 0.06 | 10.0 | 3.9 | 0.21 | 172 | 0.77 | 0.01 |
| A80 |  | 0.43 | 21.1 | 0.71 | 3.46 | <0.05 | <0.02 | 0.30 | 0.020 | 0.06 | 8.8 | 3.6 | 0.15 | 113 | 1.02 | 0.02 |

LS Canada Ltd.
To:ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE
2103 Dollarton Hwy $\qquad$
North Vancouver BC V7H 0A7
Phone: 6049840221 Fax: 6049840218 www.alsglobal.com

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Total \# Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: $14-$ NOV-2010 Account: MINORE
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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Nb } \\ \text { pprni } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ni} \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{P} \\ \text { ppri } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Pb } \\ \text { Ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \text { Rb } \\ \text { prाI } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \operatorname{Re} \\ \text { ppाI } \\ 0.001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sb } \\ \text { Ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sc } \\ \text { ppril } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Se } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sn } \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sr } \\ \text { pprim } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ta } \\ \text { pprin } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Te } \\ \text { ppril } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Th } \\ \text { ppiri } \\ 0.2 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A41 |  | 0.37 | 11.8 | 1030 | 7.3 | 4.3 | <0.001 | 0.08 | 0.43 | 0.5 | 0.4 | 0.6 | 35.1 | <0.01 | 0.02 | <0.2 |
| A42 |  | 0.36 | 10.4 | 1250 | 6.8 | 5.0 | $<0.001$ | 0.10 | 0.24 | 0.6 | 0.4 | 0.2 | 38.7 | <0.01 | 0.01 | $<0.2$ |
| A43 |  | 0.33 | 6.9 | 750 | 8.5 | 1.9 | <0.001 | 0.06 | 0.24 | 0.5 | 0.3 | 0.3 | 27.8 | <0.01 | 0.01 | $<0.2$ |
| A44 |  | 0.22 | 18.0 | 1320 | 6.4 | 3.1 | <0.001 | 0.11 | 0.33 | 0.7 | 0.7 | 0.2 | 70.5 | <0.01 | 0.01 | <0.2 |
| A45 |  | 0.69 | 39.9 | 1390 | 9.2 | 11.9 | $<0.001$ | 0.07 | 0.60 | 2.9 | 0.7 | 0.5 | 47.8 | <0.01 | 0.02 | $<0.2$ |
| A46 |  | 0.49 | 30.1 | 1050 | 8.6 | 8.6 | <0.001 | 0.06 | 0.47 | 1.8 | 0.5 | 0.4 | 53.5 | <0.01 | 0.02 | <0.2 |
| A47 |  | 0.51 | 26.1 | 920 | 10.1 | 6.4 | $<0.001$ | 0.05 | 0.41 | 1.6 | 0.6 | 0.5 | 61.3 | <0.01 | 0.03 | <0.2 |
| A48 |  | 0.43 | 17.4 | 1000 | 4.5 | 4.3 | <0.001 | 0.10 | 0.26 | 1.1 | 0.4 | 0.2 | 55.1 | <0.01 | 0.01 | $<0.2$ |
| A49 |  | 0.55 | 22.6 | 1080 | 8.0 | 8.5 | $<0.001$ | 0.09 | 0.39 | 1.8 | 0.6 | 0.3 | 66.4 | <0.01 | 0.02 | <0.2 |
| A50 |  | 0.59 | 27.7 | 1010 | 7.4 | 7.0 | <0.001 | 0.07 | 0.46 | 2.4 | 0.6 | 0.3 | 69.1 | <0.01 | 0.02 | $<0.2$ |
| A51 |  | 0.50 | 20.8 | 1030 | 6.0 | 7.0 | <0.001 | 0.10 | 0.47 | 1.3 | 0.6 | 0.3 | 71.9 | <0.01 | 0.02 | <0.2 |
| A52 |  | 0.72 | 39.7 | 900 | 3.9 | 6.1 | 0.001 | 0.09 | 0.46 | 2.4 | 0.9 | 0.4 | 124.0 | <0.01 | 0.02 | <0.2 |
| A53 |  | 0.43 | 16.3 | 950 | 6.4 | 4.9 | $<0.001$ | 0.13 | 0.43 | 1.7 | 0.6 | 0.8 | 91.5 | <0.01 | 0.01 | 0.2 |
| A54 |  | 0.50 | 21.8 | 1170 | 3.0 | 4.6 | <0.001 | 0.11 | 0.28 | 1.9 | 0.5 | 0.3 | 80.9 | <0.01 | 0.02 | 0.3 |
| A55 |  | 0.40 | 44.4 | 1560 | 3.9 | 10.4 | $<0.001$ | 0.12 | 0.42 | 0.6 | 0.7 | 0.3 | 95.3 | <0.01 | 0.02 | $<0.2$ |
| A56 |  | 0.53 | 82.0 | 790 | 4.5 | 5.6 | <0.001 | 0.07 | 0.33 | 1.1 | 0.5 | 0.3 | 71.6 | <0.01 | 0.01 | <0.2 |
| A57 |  | 0.54 | 120.0 | 1370 | 7.4 | 9.2 | <0.001 | 0.09 | 0.48 | 1.0 | 0.8 | 0.5 | 80.7 | <0.01 | 0.02 | <0.2 |
| A58 |  | 0.48 | 124.0 | 1480 | 6.2 | 6.7 | <0.001 | 0.14 | 0.61 | 1.1 | 0.8 | 0.4 | 95.1 | <0.01 | 0.02 | <0.2 |
| A59 |  | 0.37 | 99.8 | 1220 | 8.5 | 7.9 | $<0.001$ | 0.06 | 0.37 | 1.3 | 0.7 | 0.4 | 67.2 | <0.01 | 0.02 | <0.2 |
| A60 |  | 0.22 | 9.1 | 740 | 7.6 | 1.8 | $<0.001$ | 0.11 | 0.22 | 0.3 | 0.5 | 0.3 | 62.1 | <0.01 | 0.01 | $<0.2$ |
| A61 |  | 0.30 | 14.8 | 600 | 5.9 | 3.5 | <0.001 | 0.08 | 0.20 | 0.6 | 0.4 | 0.3 | 59.2 | <0.01 | 0.01 | <0.2 |
| A62 |  | 0.19 | 11.2 | 520 | 10.3 | 2.1 | <0.001 | 0.04 | 0.16 | 0.2 | 0.3 | 0.6 | 27.1 | <0.01 | 0.01 | $<0.2$ |
| A63 |  | 0.31 | 46.3 | 820 | 6.8 | 3.1 | $<0.001$ | 0.05 | 0.22 | 0.5 | 0.4 | 0.4 | 48.4 | <0.01 | 0.01 | <0.2 |
| A64 |  | 0.25 | 25.9 | 1070 | 6.5 | 2.4 | $<0.001$ | 0.07 | 0.31 | 0.3 | 0.6 | 0.5 | 53.0 | <0.01 | 0.02 | $<0.2$ |
| A65 |  | 0.26 | 13.2 | 790 | 9.3 | 2.2 | <0.001 | 0.05 | 0.21 | 0.5 | 0.4 | 0.4 | 32.0 | <0.01 | 0.02 | $<0.2$ |
| A66 |  | 0.39 | 24.4 | 1040 | 6.8 | 2.9 | <0.001 | 0.07 | 0.27 | 0.4 | 0.5 | 0.3 | 44.7 | $<0.01$ | 0.01 | <0.2 |
| A67 |  | 0.47 | 82.3 | 1340 | 11.1 | 6.1 | <0.001 | 0.08 | 0.44 | 0.9 | 0.7 | 0.5 | 92.8 | <0.01 | 0.02 | <0.2 |
| A68 |  | 0.42 | 36.0 | 980 | 6.6 | 3.4 | <0.001 | 0.07 | 0.35 | 0.8 | 0.5 | 0.4 | 48.9 | <0.01 | 0.01 | <0.2 |
| A69 |  | 0.45 | 32.2 | 1110 | 8.1 | 4.5 | <0.001 | 0.06 | 0.39 | 0.9 | 0.6 | 0.8 | 69.7 | <0.01 | 0.02 | $<0.2$ |
| A70 |  | 0.20 | 8.0 | 500 | 8.8 | 1.9 | $<0.001$ | 0.03 | 0.14 | 0.2 | 0.2 | 0.3 | 14.8 | <0.01 | 0.01 | $<0.2$ |
| A71 |  | 0.14 | 26.0 | 1310 | 6.4 | 3.9 | <0.001 | 0.05 | 0.23 | 0.2 | 0.4 | 0.7 | 31.3 | <0.01 | 0.01 | <0.2 |
| A72 |  | 0.21 | 8.5 | 490 | 7.7 | 2.7 | $<0.001$ | 0.03 | 0.22 | 0.3 | 0.3 | 0.3 | 33.0 | <0.01 | 0.01 | $<0.2$ |
| $\wedge 73$ |  | 0.15 | 15.7 | 1210 | 10.0 | 3.4 | $<0.001$ | 0.07 | 0.20 | 0.2 | 0.4 | 0.4 | 38.5 | <0.01 | 0.01 | $<0.2$ |
| A74 |  | 0.13 | 10.3 | 530 | 7.6 | 3.5 | $<0.001$ | 0.03 | 0.16 | 0.2 | 0.3 | 0.3 | 50.5 | <0.01 | 0.01 | <0.2 |
| A75 |  | 0.23 | 8.7 | 620 | 7.7 | 2.5 | 0.001 | 0.04 | 0.15 | 0.3 | 0.4 | 0.3 | 40.9 | $<0.01$ | 0.01 | $<0.2$ |
| A76 |  | 0.19 | 16.2 | 700 | 9.0 | 1.9 | <0.001 | 0.05 | 0.19 | 0.3 | 0.5 | 0.3 | 54.2 | <0.01 | 0.01 | <0.2 |
| A77 |  | 0.14 | 7.7 | 500 | 6.0 | 2.8 | $<0.001$ | 0.03 | 0.18 | 0.2 | 0.3 | 0.3 | 34.4 | $<0.01$ | 0.01 | $<0.2$ |
| A78 |  | 0.60 | 26.6 | 830 | 5.9 | 4.0 | $<0.001$ | 0.04 | 0.21 | 2.0 | 0.4 | 0.4 | 28.2 | <0.01 | 0.02 | $<0.2$ |
| A79 |  | 0.46 | 40.7 | 1060 | 7.7 | 6.1 | <0.001 | 0.05 | 0.22 | 1.3 | 0.5 | 0.4 | 37.3 | <0.01 | 0.02 | $<0.2$ |
| A80 |  | 0.19 | 41.2 | 2000 | 4.4 | 4.9 | <0.001 | 0.09 | 0.32 | 0.4 | 0.7 | 0.4 | 31.7 | <0.01 | 0.01 | $<0.2$ |

Total \# Pages: 6 (A - D) Plus Appendix Pages Finalized Date: 14-NOV-2010 Account: MINORE
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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ T i \\ \% \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{TI} \\ \text { ppril } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { U } \\ \text { ppiri } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ V \\ \text { pprin } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { W } \\ \text { ppmin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ Y \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Zn } \\ \text { pprin } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Zr} \\ \mu \mu \mathrm{II} \\ 0.5 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A41 |  | 0.027 | 0.03 | 0.15 | 36 | 0.11 | 1.47 | 36 | <0.5 |
| A42 |  | 0.025 | 0.04 | 0.10 | 32 | 0.10 | 1.28 | 44 | <0.5 |
| A43 |  | 0.027 | 0.05 | 0.11 | 27 | 0.11 | 1.17 | 47 | <0.5 |
| A44 |  | 0.009 | 0.05 | 0.27 | 12 | 0.07 | 11.20 | 55 | <0.5 |
| A45 |  | 0.024 | 0.14 | 0.75 | 57 | 0.16 | 16.15 | 95 | $<0.5$ |
| A46 |  | 0.024 | 0.11 | 0.50 | 45 | 0.11 | 11.20 | 76 | <0.5 |
| A47 |  | 0.028 | 0.08 | 0.52 | 52 | 0.12 | 11.70 | 64 | <0.5 |
| A48 |  | 0.026 | 0.05 | 0.16 | 26 | 0.08 | 5.79 | 58 | $<0.5$ |
| A49 |  | 0.027 | 0.11 | 0.52 | 36 | 0.14 | 9.23 | 83 | $<0.5$ |
| A50 |  | 0.030 | 0.08 | 0.69 | 43 | 0.14 | 14.65 | 68 | $<0.5$ |
| A51 |  | 0.023 | 0.07 | 0.52 | 31 | 0.11 | 10.30 | 53 | <0.5 |
| A52 |  | 0.024 | 0.07 | 1.18 | 43 | 0.12 | 16.95 | 69 | 0.5 |
| A53 |  | 0.022 | 0.07 | 0.64 | 24 | 0.09 | 6.01 | 40 | 0.6 |
| A54 |  | 0.034 | 0.04 | 0.25 | 30 | 0.10 | 3.64 | 137 | 0.9 |
| A55 |  | 0.010 | 0.06 | 0.57 | 24 | 0.09 | 13.70 | 53 | $<0.5$ |
| A56 |  | 0.024 | 0.05 | 0.30 | 27 | 0.08 | 10.15 | 50 | <0.5 |
| A57 |  | 0.011 | 0.10 | 0.69 | 39 | 0.11 | 18.35 | 81 | <0.5 |
| A58 |  | 0.016 | 0.10 | 0.53 | 33 | 0.12 | 17.45 | 62 | $<0.5$ |
| A59 |  | 0.018 | 0.09 | 0.65 | 33 | 0.09 | 21.4 | 84 | $<0.5$ |
| A60 |  | 0.012 | 0.10 | 0.09 | 8 | 0.08 | 0.62 | 84 | $<0.5$ |
| A61 |  | 0.022 | 0.07 | 0.13 | 15 | 0.06 | 1.32 | 78 | <0.5 |
| A62 |  | 0.015 | 0.04 | 0.11 | 18 | 0.05 | 1.07 | 34 | $<0.5$ |
| A63 |  | 0.013 | 0.05 | 0.35 | 21 | 0.08 | 8.71 | 43 | <0.5 |
| A64 |  | 0.005 | 0.04 | 0.35 | 13 | 0.12 | 13.20 | 40 | <0.5 |
| A65 |  | 0.011 | 0.08 | 0.29 | 12 | 0.10 | 4.78 | 43 | $<0.5$ |
| A66 |  | 0.009 | 0.06 | 0.37 | 11 | 0.06 | 6.25 | 33 | <0.5 |
| A67 |  | 0.011 | 0.12 | 0.84 | 34 | 0.12 | 11.75 | 67 | <0.5 |
| A68 |  | 0.011 | 0.06 | 0.50 | 14 | 0.08 | 8.30 | 29 | <0.5 |
| A69 |  | 0.013 | 0.06 | 0.75 | 26 | 0.10 | 11.30 | 53 | $<0.5$ |
| A70 |  | 0.006 | 0.04 | 0.11 | 9 | $<0.05$ | 1.02 | 22 | <0.5 |
| A71 |  | <0.005 | 0.06 | 0.41 | 25 | $<0.05$ | 4.46 | 25 | <0.5 |
| A72 |  | 0.016 | 0.03 | 0.12 | 24 | 0.07 | 1.81 | 18 | <0.5 |
| $\wedge 73$ |  | $<0.005$ | 0.03 | 0.28 | 19 | 0.06 | 3.78 | 21 | $<0.5$ |
| A74 |  | 0.006 | 0.04 | 0.19 | 17 | 0.07 | 4.67 | 17 | $<0.5$ |
| A75 |  | 0.012 | 0.03 | 0.18 | 15 | $<0.05$ | 2.33 | 29 | <0.5 |
| A76 |  | 0.008 | 0.03 | 0.16 | 12 | 0.06 | 3.88 | 38 | <0.5 |
| A77 |  | 0.010 | 0.02 | 0.13 | 20 | 0.06 | 1.44 | 26 | $<0.5$ |
| A78 |  | 0.032 | 0.06 | 0.35 | 26 | 0.09 | 4.40 | 30 | <0.5 |
| A79 |  | 0.021 | 0.05 | 0.54 | 26 | 0.08 | 7.74 | 43 | <0.5 |
| A80 |  | <0.005 | 0.07 | 0.85 | 15 | 0.13 | 6.38 | 30 | <0.5 |

ALS Canada Ltd.
To:ORESTONE MINING CORP.
6410 HOLLY PARK DRIVE
2103 Dollarton Hwy
BC V7H 0A7
DELTA BC V4K 4W6

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Total \# Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | WEI-21 <br> Recvd Wt. <br> kg <br> 0.02 | $\begin{gathered} \mathrm{Au}-\mathrm{ST} 43 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.0001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ag } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { As } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Be } \\ \text { ppm } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Cd } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ce } \\ \text { ppm } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Co } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A81 |  | 0.22 | NSS | 0.93 | 1.77 | 1.7 | $<0.2$ | <10 | 140 | 0.39 | 0.08 | 0.25 | 0.30 | 14.05 | 3.4 | 39 |
| A82 |  | 0.22 | 0.0012 | 0.22 | 0.73 | 1.0 | $<0.2$ | <10 | 200 | 0.26 | 0.07 | 0.23 | 0.36 | 10.25 | 1.9 | 11 |
| A83 |  | 0.14 | 0.0005 | 0.44 | 0.95 | 1.0 | $<0.2$ | <10 | 340 | 0.72 | 0.06 | 0.21 | 0.94 | 14.80 | 4.4 | 10 |
| A84 |  | 0.14 | 0.0009 | 1.31 | 1.01 | 2.1 | <0.2 | <10 | 170 | 0.28 | 0.06 | 0.28 | 0.27 | 13.90 | 2.5 | 10 |
| A85 |  | 0.14 | 0.0008 | 0.26 | 0.52 | 3.6 | $<0.2$ | <10 | 220 | 0.22 | 0.08 | 0.28 | 0.75 | 7.69 | 2.3 | 9 |
| A86 |  | 0.12 | 0.0009 | 0.58 | 0.56 | 2.4 | <0.2 | <10 | 240 | 0.19 | 0.08 | 0.44 | 0.76 | 5.88 | 3.5 | 13 |
| A87 |  | 0.18 | 0.0021 | 0.57 | 0.68 | 2.4 | $<0.2$ | <10 | 180 | 0.17 | 0.07 | 0.32 | 0.49 | 6.66 | 3.7 | 17 |
| A88 |  | 0.16 | 0.0016 | 0.66 | 0.73 | 4.0 | <0.2 | <10 | 500 | 0.33 | 0.45 | 0.29 | 0.32 | 8.28 | 4.7 | 13 |
| A89 |  | 0.14 | 0.0015 | 0.86 | 2.95 | 8.6 | $<0.2$ | <10 | 300 | 1.21 | 0.17 | 0.28 | 0.87 | 22.0 | 10.6 | 56 |
| A90 |  | 0.16 | 0.0023 | 1.45 | 1.72 | 44.5 | $<0.2$ | <10 | 320 | 0.79 | 0.09 | 0.59 | 1.17 | 35.3 | 5.4 | 23 |
| A91 |  | 0.20 | 0.0011 | 1.26 | 3.02 | 4.0 | <0.2 | <10 | 320 | 0.90 | 0.13 | 0.39 | 0.84 | 22.5 | 8.8 | 52 |
| A92 |  | 0.14 | 0.0011 | 0.55 | 0.82 | 2.5 | $<0.2$ | <10 | 230 | 0.33 | 0.08 | 0.59 | 1.01 | 19.15 | 6.3 | 19 |
| A93 |  | 0.12 | 0.0010 | 0.18 | 0.41 | 4.3 | $<0.2$ | <10 | 200 | 0.09 | 0.09 | 0.29 | 1.27 | 6.87 | 12.4 | 40 |
| A94 |  | 0.20 | 0.0014 | 0.89 | 3.80 | 3.9 | <0.2 | <10 | 380 | 0.84 | 0.11 | 0.67 | 0.89 | 20.6 | 17.6 | 93 |
| A95 |  | 0.14 | 0.0006 | 0.24 | 0.60 | 4.4 | $<0.2$ | $<10$ | 260 | 0.24 | 0.08 | 0.45 | 0.76 | 11.50 | 5.1 | 21 |
| A96 |  | 0.18 | 0.0009 | 0.48 | 3.19 | 4.0 | <0.2 | <10 | 400 | 1.06 | 0.14 | 0.87 | 0.66 | 38.9 | 22.5 | 94 |
| A97 |  | 0.14 | 0.0003 | 0.16 | 0.39 | 1.0 | <0.2 | <10 | 330 | 0.14 | 0.07 | 0.57 | 0.90 | 6.69 | 4.1 | 16 |
| A98 |  | 0.14 | 0.0002 | 0.23 | 0.44 | 1.2 | $<0.2$ | <10 | 310 | 0.21 | 0.06 | 0.78 | 1.28 | 8.67 | 5.0 | 19 |
| A99 |  | 0.14 | 0.0005 | 0.26 | 0.47 | 1.3 | $<0.2$ | <10 | 250 | 0.17 | 0.07 | 0.49 | 0.63 | 8.62 | 4.4 | 15 |
| A100 |  | 0.10 | 0.0001 | 0.54 | 0.52 | 1.3 | $<0.2$ | <10 | 340 | 0.30 | 0.08 | 0.44 | 1.23 | 9.73 | 6.9 | 11 |
| A101 |  | 0.14 | 0.0007 | 0.54 | 1.76 | 2.5 | $<0.2$ | <10 | 360 | 0.94 | 0.08 | 0.84 | 1.80 | 43.0 | 20.8 | 39 |
| A102 |  | 0.10 | 0.0008 | 0.24 | 0.56 | 1.2 | <0.2 | $<10$ | 260 | 0.34 | 0.08 | 0.68 | 1.45 | 20.5 | 9.3 | 19 |
| A103 |  | 0.14 | 0.0005 | 0.53 | 1.71 | 2.6 | $<0.2$ | <10 | 290 | 1.05 | 0.08 | 0.50 | 0.81 | 29.1 | 16.8 | 35 |
| A104 |  | 0.22 | 0.0016 | 0.87 | 1.28 | 2.7 | $<0.2$ | <10 | 260 | 0.58 | 0.07 | 0.60 | 0.75 | 27.6 | 7.9 | 18 |
| A105 |  | 0.18 | 0.0019 | 0.62 | 1.31 | 3.6 | $<0.2$ | <10 | 270 | 0.40 | 0.08 | 0.60 | 0.77 | 20.4 | 11.1 | 30 |
| A106 |  | 0.24 | 0.0011 | 0.41 | 0.61 | 2.1 | <0.2 | <10 | 170 | 0.16 | 0.07 | 0.51 | 0.34 | 8.87 | 3.2 | 15 |
| A107 |  | 0.14 | 0.0007 | 0.38 | 0.35 | 1.8 | $<0.2$ | <10 | 140 | 0.06 | 0.10 | 0.40 | 1.34 | 4.16 | 1.5 | 11 |
| A108 |  | 0.16 | 0.0009 | 0.20 | 0.67 | 3.4 | <0.2 | <10 | 260 | 0.10 | 0.10 | 0.84 | 0.75 | 6.86 | 4.8 | 18 |
| A109 |  | 0.16 | 0.0005 | 0.31 | 0.44 | 2.4 | $<0.2$ | <10 | 900 | 0.06 | 0.07 | 1.89 | 2.92 | 3.73 | 4.1 | 11 |
| A110 |  | 0.14 | 0.0035 | 0.29 | 0.66 | 2.5 | $<0.2$ | <10 | 310 | 0.13 | 0.11 | 0.89 | 1.35 | 6.37 | 3.8 | 18 |
| A111 |  | 0.18 | 0.0015 | 0.62 | 0.53 | 3.1 | <0.2 | <10 | 170 | 0.10 | 0.08 | 0.57 | 0.65 | 4.13 | 2.9 | 18 |
| A112 |  | 0.20 | 0.0003 | 0.50 | 0.35 | 1.5 | $<0.2$ | <10 | 190 | 0.06 | 0.07 | 0.40 | 0.61 | 3.82 | 1.4 | 11 |
| $\wedge 113$ |  | 0.12 | 0.0018 | 0.45 | 1.13 | 3.4 | $<0.2$ | $<10$ | 240 | 0.28 | 0.07 | 1.36 | 0.43 | 11.70 | 4.3 | 27 |
| A114 |  | 0.16 | 0.0017 | 0.49 | 0.43 | 2.0 | $<0.2$ | $<10$ | 190 | 0.08 | 0.09 | 0.60 | 0.44 | 5.04 | 2.8 | 13 |
| A115 |  | 0.20 | 0.0018 | 0.14 | 0.99 | 5.0 | $<0.2$ | <10 | 230 | 0.17 | 0.08 | 1.20 | 0.49 | 9.22 | 7.3 | 30 |
| A116 |  | 0.12 | 0.0017 | 0.91 | 1.74 | 6.4 | $<0.2$ | <10 | 260 | 0.45 | 0.10 | 2.50 | 1.04 | 19.20 | 7.4 | 35 |
| A117 |  | 0.16 | 0.0014 | 0.20 | 0.31 | 2.0 | $<0.2$ | <10 | 120 | 0.06 | 0.06 | 0.51 | 0.75 | 4.71 | 1.5 | 12 |
| A118 |  | 0.22 | 0.0050 | 0.95 | 2.50 | 6.6 | $<0.2$ | $<10$ | 360 | 0.56 | 0.11 | 1.18 | 2.21 | 53.4 | 37.1 | 49 |
| A119 |  | 0.26 | 0.0009 | 0.20 | 0.49 | 1.6 | $<0.2$ | $<10$ | 220 | 0.14 | 0.08 | 0.34 | 0.92 | 8.03 | 2.0 | 15 |
| A120 |  | 0.14 | 0.0009 | 0.46 | 0.86 | 2.6 | $<0.2$ | $<10$ | 190 | 0.32 | 0.07 | 0.37 | 0.84 | 17.50 | 7.2 | 20 |

Total \# Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Cs } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cu} \\ \text { pprim } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Fe } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ga } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ge } \\ \text { ppाI } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Hf } \\ \text { pprit } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Hg} \\ \text { PpIII } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { In } \\ \text { Npril } \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { K } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { La } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Li } \\ \text { pprin } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mn } \\ \text { pprI } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mo } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A81 |  | 0.83 | 25.5 | 1.37 | 5.49 | <0.05 | <0.02 | 0.24 | 0.027 | 0.05 | 7.7 | 7.4 | 0.22 | 85 | 0.77 | 0.01 |
| A82 |  | 0.14 | 8.1 | 0.68 | 2.90 | <0.05 | <0.02 | 0.08 | 0.010 | 0.05 | 5.8 | 1.6 | 0.09 | 66 | 0.64 | 0.01 |
| A83 |  | 0.19 | 24.5 | 0.89 | 2.16 | <0.05 | <0.02 | 0.14 | 0.015 | 0.06 | 7.8 | 1.7 | 0.09 | 62 | 0.60 | 0.01 |
| A84 |  | 0.25 | 16.7 | 1.57 | 2.28 | <0.05 | <0.02 | 0.19 | 0.013 | 0.06 | 7.8 | 1.3 | 0.08 | 57 | 1.09 | 0.02 |
| A85 |  | 0.07 | 7.2 | 0.57 | 1.87 | <0.05 | <0.02 | 0.11 | 0.009 | 0.04 | 3.9 | 0.8 | 0.07 | 59 | 0.67 | 0.01 |
| A86 |  | 0.31 | 12.4 | 0.80 | 1.92 | <0.05 | <0.02 | 0.20 | 0.010 | 0.06 | 3.1 | 2.2 | 0.13 | 330 | 1.02 | 0.01 |
| A87 |  | 0.25 | 12.6 | 1.06 | 2.42 | <0.05 | <0.02 | 0.12 | 0.009 | 0.05 | 3.4 | 2.9 | 0.19 | 194 | 0.83 | 0.01 |
| A88 |  | 0.18 | 12.2 | 0.88 | 2.33 | <0.05 | <0.02 | 0.13 | 0.011 | 0.06 | 4.3 | 2.5 | 0.15 | 160 | 0.84 | 0.02 |
| A89 |  | 1.18 | 54.6 | 2.40 | 9.60 | <0.05 | <0.02 | 0.10 | 0.039 | 0.09 | 11.3 | 12.6 | 0.53 | 285 | 1.02 | 0.01 |
| A90 |  | 0.53 | 31.7 | 1.48 | 3.77 | 0.06 | <0.02 | 0.15 | 0.023 | 0.09 | 17.7 | 4.8 | 0.26 | 121 | 1.00 | 0.02 |
| A91 |  | 1.12 | 42.6 | 2.88 | 9.78 | 0.05 | <0.02 | 0.09 | 0.037 | 0.10 | 11.8 | 11.8 | 0.55 | 282 | 1.18 | 0.01 |
| A92 |  | 0.33 | 13.8 | 1.06 | 2.68 | <0.05 | <0.02 | 0.11 | 0.012 | 0.07 | 9.9 | 3.6 | 0.23 | 673 | 1.37 | 0.01 |
| A93 |  | 0.26 | 9.3 | 1.08 | 1.56 | <0.05 | <0.02 | 0.11 | 0.008 | 0.07 | 3.6 | 2.0 | 0.53 | 209 | 1.96 | 0.02 |
| A94 |  | 1.49 | 42.9 | 3.25 | 11.90 | 0.06 | 0.02 | 0.14 | 0.046 | 0.12 | 10.7 | 16.2 | 1.05 | 488 | 0.95 | 0.02 |
| A95 |  | 0.31 | 13.4 | 0.94 | 2.33 | <0.05 | <0.02 | 0.11 | 0.012 | 0.07 | 6.4 | 2.5 | 0.23 | 198 | 1.45 | 0.01 |
| A96 |  | 1.44 | 49.2 | 3.46 | 9.81 | 0.07 | 0.02 | 0.11 | 0.042 | 0.08 | 20.1 | 13.7 | 1.12 | 1100 | 1.14 | 0.02 |
| A97 |  | 0.22 | 7.5 | 0.61 | 1.59 | <0.05 | <0.02 | 0.09 | 0.008 | 0.06 | 3.6 | 1.8 | 0.19 | 222 | 1.75 | 0.01 |
| A98 |  | 0.33 | 10.6 | 0.76 | 1.31 | <0.05 | <0.02 | 0.11 | 0.008 | 0.06 | 5.9 | 1.9 | 0.30 | 140 | 1.29 | 0.01 |
| A99 |  | 0.21 | 9.5 | 0.79 | 1.76 | <0.05 | <0.02 | 0.10 | 0.010 | 0.06 | 4.6 | 1.8 | 0.14 | 252 | 1.57 | 0.01 |
| A100 |  | 0.33 | 15.2 | 0.71 | 1.64 | <0.05 | <0.02 | 0.12 | 0.010 | 0.06 | 4.8 | 1.6 | 0.13 | 634 | 1.61 | 0.01 |
| A101 |  | 0.63 | 39.2 | 1.84 | 3.96 | 0.07 | 0.02 | 0.18 | 0.023 | 0.08 | 21.1 | 5.9 | 0.55 | 1900 | 1.21 | 0.01 |
| A102 |  | 0.23 | 18.2 | 0.79 | 1.70 | <0.05 | <0.02 | 0.12 | 0.011 | 0.07 | 10.0 | 2.0 | 0.32 | 463 | 1.50 | 0.02 |
| A103 |  | 0.65 | 33.1 | 1.96 | 4.52 | 0.05 | <0.02 | 0.12 | 0.026 | 0.08 | 14.7 | 5.5 | 0.39 | 973 | 1.35 | 0.02 |
| A104 |  | 0.39 | 25.8 | 1.42 | 2.96 | 0.05 | <0.02 | 0.23 | 0.021 | 0.06 | 13.6 | 4.0 | 0.22 | 413 | 1.15 | 0.01 |
| A105 |  | 0.66 | 26.7 | 1.77 | 3.98 | $<0.05$ | <0.02 | 0.12 | 0.018 | 0.08 | 9.6 | 6.6 | 0.37 | 1710 | 1.35 | 0.01 |
| A106 |  | 0.47 | 11.3 | 0.96 | 2.46 | <0.05 | <0.02 | 0.17 | 0.009 | 0.08 | 4.9 | 2.4 | 0.18 | 285 | 1.11 | 0.02 |
| A107 |  | 0.23 | 6.1 | 0.56 | 1.37 | <0.05 | <0.02 | 0.14 | 0.006 | 0.07 | 2.4 | 1.5 | 0.10 | 60 | 1.45 | 0.02 |
| A108 |  | 0.26 | 13.2 | 1.23 | 2.47 | <0.05 | <0.02 | 0.15 | 0.011 | 0.09 | 3.6 | 3.7 | 0.23 | 2410 | 1.55 | 0.02 |
| A109 |  | 0.31 | 11.4 | 0.72 | 1.87 | <0.05 | <0.02 | 0.34 | 0.008 | 0.10 | 2.0 | 2.1 | 0.19 | 15850 | 1.22 | 0.02 |
| A110 |  | 0.24 | 12.7 | 1.18 | 2.41 | $<0.05$ | <0.02 | 0.19 | 0.010 | 0.10 | 3.3 | 3.6 | 0.20 | 1340 | 1.06 | 0.02 |
| A111 |  | 0.33 | 13.0 | 1.06 | 1.94 | <0.05 | <0.02 | 0.22 | 0.008 | 0.10 | 2.1 | 2.2 | 0.17 | 503 | 1.62 | 0.02 |
| A112 |  | 0.17 | 7.1 | 0.54 | 1.60 | $<0.05$ | <0.02 | 0.16 | 0.006 | 0.09 | 2.1 | 1.0 | 0.08 | 179 | 0.80 | 0.02 |
| $\wedge 113$ |  | 0.45 | 28.6 | 2.06 | 3.32 | $<0.05$ | 0.05 | 0.15 | 0.016 | 0.03 | 6.1 | 3.4 | 0.22 | 414 | 0.68 | 0.02 |
| A114 |  | 0.49 | 7.6 | 0.74 | 1.96 | <0.05 | <0.02 | 0.21 | 0.007 | 0.05 | 2.6 | 2.0 | 0.12 | 1560 | 1.19 | 0.02 |
| A115 |  | 0.34 | 27.4 | 2.02 | 3.62 | $<0.05$ | 0.02 | 0.13 | 0.015 | 0.15 | 4.9 | 6.6 | 0.45 | 1150 | 2.60 | 0.02 |
| A116 |  | 0.58 | 46.8 | 2.28 | 4.40 | 0.06 | 0.06 | 0.14 | 0.022 | 0.06 | 14.0 | 7.4 | 0.52 | 463 | 1.38 | 0.03 |
| A117 |  | 0.20 | 5.9 | 0.48 | 1.28 | <0.05 | <0.02 | 0.14 | 0.005 | 0.05 | 2.6 | 1.1 | 0.09 | 49 | 1.40 | 0.02 |
| A118 |  | 0.73 | 54.9 | 3.03 | 5.87 | 0.06 | 0.02 | 0.30 | 0.034 | 0.10 | 17.8 | 10.2 | 0.55 | 3190 | 3.62 | 0.02 |
| A119 |  | 0.38 | 6.0 | 0.63 | 2.24 | <0.05 | <0.02 | 0.12 | 0.008 | 0.06 | 4.2 | 1.6 | 0.10 | 234 | 2.02 | 0.02 |
| A120 |  | 0.39 | 16.7 | 1.19 | 2.60 | $<0.05$ | <0.02 | 0.13 | 0.013 | 0.07 | 9.1 | 3.0 | 0.18 | 319 | 1.19 | 0.02 |

LS Canada Ltd.
To:ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE
2103 Dollarton Hwy $\qquad$
North Vancouver BC V7H 0A7
Phone: 6049840221 Fax: 6049840218 www.alsglobal.com
DELTA BC V4K 4W6

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Total \# Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Nb } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ni} \\ \text { pprim } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { P } \\ \text { ppril } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Pb } \\ \text { Ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Rb } \\ \text { ppाI } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Re } \\ \text { pprit } \\ 0.001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sb } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sc } \\ \text { ppril } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Se } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sn } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sr } \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ta } \\ \text { pprit } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Te } \\ \text { ppril } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Th } \\ \text { pprin } \\ 0.2 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A81 |  | 0.14 | 26.3 | 1720 | 5.1 | 6.7 | <0.001 | 0.08 | 0.31 | 0.3 | 0.7 | 0.6 | 27.8 | <0.01 | 0.01 | <0.2 |
| A82 |  | 0.25 | 7.3 | 540 | 6.3 | 2.3 | <0.001 | 0.04 | 0.17 | 0.4 | 0.3 | 0.3 | 32.6 | <0.01 | 0.01 | <0.2 |
| A83 |  | 0.24 | 16.6 | 1020 | 8.3 | 2.9 | <0.001 | 0.04 | 0.18 | 0.3 | 0.4 | 0.3 | 41.9 | <0.01 | 0.01 | <0.2 |
| A84 |  | 0.19 | 13.3 | 1770 | 6.0 | 2.9 | 0.001 | 0.09 | 0.25 | 0.2 | 0.7 | 0.3 | 33.7 | <0.01 | 0.01 | <0.2 |
| A85 |  | 0.21 | 9.1 | 550 | 8.6 | 1.4 | <0.001 | 0.04 | 0.17 | 0.2 | 0.3 | 0.3 | 36.6 | <0.01 | 0.01 | $<0.2$ |
| A86 |  | 0.32 | 17.2 | 780 | 11.8 | 4.2 | <0.001 | 0.07 | 0.23 | 0.4 | 0.5 | 0.3 | 47.4 | <0.01 | 0.01 | <0.2 |
| A87 |  | 0.37 | 15.1 | 620 | 7.4 | 3.7 | <0.001 | 0.05 | 0.26 | 0.5 | 0.3 | 0.3 | 40.8 | <0.01 | 0.01 | $<0.2$ |
| A88 |  | 0.28 | 13.5 | 690 | 10.8 | 3.2 | <0.001 | 0.05 | 0.23 | 0.4 | 0.5 | 0.3 | 47.3 | <0.01 | 0.01 | $<0.2$ |
| A89 |  | 0.47 | 44.2 | 1070 | 6.9 | 13.4 | <0.001 | 0.04 | 0.31 | 0.8 | 0.5 | 0.6 | 33.3 | <0.01 | 0.02 | $<0.2$ |
| A90 |  | 0.37 | 42.5 | 1440 | 5.3 | 5.4 | <0.001 | 0.09 | 0.44 | 0.6 | 0.7 | 0.8 | 66.1 | $<0.01$ | 0.02 | $<0.2$ |
| A91 |  | 0.60 | 59.7 | 1440 | 6.9 | 11.2 | <0.001 | 0.05 | 0.40 | 1.0 | 0.6 | 0.7 | 41.1 | <0.01 | 0.02 | <0.2 |
| A92 |  | 0.31 | 28.1 | 800 | 8.0 | 5.5 | $<0.001$ | 0.06 | 0.27 | 0.5 | 0.5 | 0.3 | 54.7 | <0.01 | 0.02 | $<0.2$ |
| A93 |  | 0.37 | 102.0 | 760 | 8.7 | 3.0 | <0.001 | 0.06 | 0.19 | 1.4 | 0.4 | 0.4 | 30.1 | <0.01 | 0.01 | 0.2 |
| A94 |  | 0.89 | 195.0 | 1120 | 5.7 | 14.3 | <0.001 | 0.05 | 0.32 | 5.0 | 0.8 | 0.9 | 58.8 | <0.01 | 0.02 | 0.3 |
| A95 |  | 0.38 | 37.7 | 800 | 9.6 | 2.9 | $<0.001$ | 0.05 | 0.22 | 1.0 | 0.4 | 0.4 | 38.2 | <0.01 | 0.01 | $<0.2$ |
| A96 |  | 0.85 | 188.0 | 960 | 7.2 | 12.6 | <0.001 | 0.05 | 0.36 | 4.1 | 0.8 | 0.6 | 71.0 | <0.01 | 0.03 | <0.2 |
| A97 |  | 0.25 | 30.1 | 630 | 9.3 | 3.0 | <0.001 | 0.05 | 0.16 | 0.8 | 0.4 | 0.3 | 54.6 | <0.01 | 0.01 | <0.2 |
| A98 |  | 0.23 | 56.2 | 740 | 5.8 | 3.7 | <0.001 | 0.06 | 0.20 | 0.8 | 0.6 | 0.2 | 62.4 | <0.01 | 0.01 | <0.2 |
| A99 |  | 0.27 | 32.3 | 670 | 7.7 | 2.5 | <0.001 | 0.05 | 0.21 | 0.4 | 0.4 | 0.2 | 42.4 | <0.01 | 0.01 | $<0.2$ |
| A100 |  | 0.18 | 18.2 | 930 | 11.4 | 3.2 | <0.001 | 0.06 | 0.20 | 0.2 | 0.4 | 0.9 | 48.7 | <0.01 | 0.01 | <0.2 |
| A101 |  | 0.40 | 178.0 | 1650 | 7.7 | 7.2 | 0.001 | 0.10 | 0.40 | 1.0 | 0.9 | 0.3 | 78.3 | <0.01 | 0.02 | <0.2 |
| A102 |  | 0.25 | 117.0 | 930 | 8.9 | 2.6 | <0.001 | 0.07 | 0.25 | 0.6 | 0.5 | 0.2 | 58.3 | <0.01 | 0.01 | <0.2 |
| A103 |  | 0.43 | 73.8 | 1340 | 9.3 | 7.6 | <0.001 | 0.07 | 0.34 | 0.7 | 0.8 | 0.3 | 48.6 | $<0.01$ | 0.02 | $<0.2$ |
| A104 |  | 0.40 | 29.5 | 1100 | 8.4 | 4.8 | <0.001 | 0.08 | 0.38 | 0.9 | 0.7 | 0.2 | 50.7 | <0.01 | 0.02 | $<0.2$ |
| A105 |  | 0.45 | 31.3 | 940 | 7.4 | 8.9 | <0.001 | 0.06 | 0.43 | 1.3 | 0.6 | 0.3 | 50.7 | <0.01 | 0.02 | $<0.2$ |
| A106 |  | 0.45 | 14.0 | 780 | 6.4 | 5.4 | <0.001 | 0.07 | 0.30 | 1.2 | 0.4 | 0.2 | 40.2 | <0.01 | 0.01 | <0.2 |
| A107 |  | 0.30 | 6.7 | 790 | 6.2 | 3.1 | 0.001 | 0.08 | 0.21 | 0.7 | 0.5 | 0.2 | 43.8 | <0.01 | 0.01 | <0.2 |
| A108 |  | 0.49 | 14.2 | 930 | 9.5 | 5.8 | <0.001 | 0.09 | 0.36 | 1.1 | 0.5 | 0.3 | 52.7 | <0.01 | 0.01 | <0.2 |
| A109 |  | 0.25 | 15.3 | 1080 | 8.3 | 6.4 | <0.001 | 0.13 | 0.46 | 0.4 | 0.5 | 0.2 | 102.0 | <0.01 | 0.02 | $<0.2$ |
| A110 |  | 0.40 | 12.7 | 960 | 6.2 | 6.3 | <0.001 | 0.09 | 0.28 | 0.6 | 0.5 | 0.2 | 57.1 | <0.01 | 0.01 | $<0.2$ |
| A111 |  | 0.34 | 12.2 | 1150 | 7.9 | 4.2 | 0.001 | 0.11 | 0.42 | 0.8 | 0.6 | 0.2 | 41.9 | <0.01 | 0.01 | <0.2 |
| A112 |  | 0.23 | 7.4 | 720 | 6.5 | 3.0 | <0.001 | 0.07 | 0.23 | 0.4 | 0.5 | 0.2 | 39.5 | <0.01 | 0.01 | <0.2 |
| $\wedge 113$ |  | 0.61 | 20.7 | 870 | 3.9 | 2.8 | 0.001 | 0.20 | 0.48 | 3.9 | 1.6 | 0.2 | 85.6 | <0.01 | 0.02 | 0.6 |
| A114 |  | 0.34 | 7.9 | 680 | 9.1 | 3.8 | <0.001 | 0.08 | 0.34 | 0.8 | 0.4 | 0.2 | 38.1 | <0.01 | <0.01 | <0.2 |
| A115 |  | 0.68 | 22.8 | 900 | 6.5 | 5.7 | 0.001 | 0.08 | 0.54 | 3.1 | 0.6 | 0.3 | 57.9 | $<0.01$ | 0.03 | 0.4 |
| A116 |  | 0.70 | 38.3 | 870 | 4.1 | 6.1 | 0.001 | 0.12 | 1.34 | 4.0 | 1.3 | 0.3 | 114.5 | <0.01 | 0.03 | 0.4 |
| A117 |  | 0.33 | 7.8 | 660 | 5.6 | 2.3 | <0.001 | 0.09 | 0.22 | 0.8 | 0.6 | 0.2 | 48.1 | <0.01 | 0.01 | $<0.2$ |
| A118 |  | 0.48 | 56.9 | 1530 | 6.7 | 8.4 | 0.001 | 0.12 | 0.99 | 3.8 | 1.3 | 0.3 | 83.0 | <0.01 | 0.03 | <0.2 |
| A119 |  | 0.23 | 8.3 | 660 | 40.9 | 2.7 | <0.001 | 0.06 | 0.48 | 0.4 | 0.5 | 0.3 | 36.8 | <0.01 | 0.01 | <0.2 |
| A120 |  | 0.30 | 14.6 | 980 | 7.0 | 4.8 | <0.001 | 0.08 | 0.37 | 0.8 | 0.6 | 0.2 | 41.2 | <0.01 | 0.01 | $<0.2$ |

Total \# Pages: 6 (A - D)
Plus Appendix Pages Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ T i \\ \% \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{TI} \\ \text { ppril } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { U } \\ \text { pprit } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ V \\ \text { ppril } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \text { W } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ Y \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Zn } \\ \text { pprm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Zr } \\ \text { ppII } \\ 0.5 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A81 |  | <0.005 | 0.13 | 1.04 | 22 | 0.06 | 4.90 | 30 | <0.5 |
| A82 |  | 0.018 | 0.03 | 0.21 | 21 | 0.06 | 3.14 | 20 | <0.5 |
| A83 |  | 0.008 | 0.04 | 0.31 | 15 | 0.05 | 5.31 | 25 | <0.5 |
| A84 |  | $<0.005$ | 0.04 | 0.50 | 14 | 0.06 | 5.42 | 20 | <0.5 |
| A85 |  | 0.009 | 0.03 | 0.14 | 16 | 0.10 | 2.00 | 26 | $<0.5$ |
| A86 |  | 0.019 | 0.03 | 0.11 | 21 | 0.07 | 1.73 | 46 | <0.5 |
| A87 |  | 0.025 | 0.03 | 0.12 | 28 | 0.08 | 1.69 | 30 | <0.5 |
| A88 |  | 0.016 | 0.03 | 0.14 | 22 | 0.21 | 2.27 | 34 | $<0.5$ |
| A89 |  | 0.006 | 0.15 | 0.85 | 48 | 0.09 | 8.12 | 82 | $<0.5$ |
| A90 |  | 0.005 | 0.07 | 0.69 | 20 | 0.10 | 15.80 | 50 | $<0.5$ |
| A91 |  | 0.009 | 0.15 | 0.67 | 55 | 0.11 | 9.76 | 85 | <0.5 |
| A92 |  | 0.014 | 0.05 | 0.23 | 23 | 0.08 | 8.28 | 38 | <0.5 |
| A93 |  | 0.027 | 0.03 | 0.12 | 19 | 0.10 | 1.64 | 67 | 0.6 |
| A94 |  | 0.013 | 0.18 | 1.50 | 58 | 0.12 | 9.85 | 129 | <0.5 |
| A95 |  | 0.023 | 0.04 | 0.28 | 20 | 0.07 | 4.51 | 41 | $<0.5$ |
| A96 |  | 0.023 | 0.17 | 2.21 | 70 | 0.11 | 16.50 | 93 | <0.5 |
| A97 |  | 0.020 | 0.03 | 0.15 | 15 | 0.06 | 2.35 | 35 | $<0.5$ |
| A98 |  | 0.013 | 0.03 | 0.24 | 14 | 0.05 | 5.42 | 27 | $<0.5$ |
| A99 |  | 0.015 | 0.03 | 0.19 | 18 | 0.07 | 3.34 | 21 | $<0.5$ |
| A100 |  | 0.005 | 0.04 | 0.19 | 16 | 0.07 | 3.33 | 31 | $<0.5$ |
| A101 |  | 0.010 | 0.09 | 0.86 | 28 | 0.08 | 23.2 | 68 | <0.5 |
| A102 |  | 0.013 | 0.03 | 0.29 | 14 | 0.08 | 9.68 | 31 | $<0.5$ |
| A103 |  | 0.012 | 0.08 | 0.78 | 34 | 0.09 | 13.15 | 58 | $<0.5$ |
| A104 |  | 0.011 | 0.06 | 0.51 | 23 | 0.10 | 12.30 | 46 | $<0.5$ |
| A105 |  | 0.025 | 0.10 | 0.37 | 38 | 0.10 | 9.12 | 65 | $<0.5$ |
| A106 |  | 0.029 | 0.06 | 0.15 | 26 | 0.09 | 2.90 | 45 | <0.5 |
| A107 |  | 0.020 | 0.02 | 0.09 | 17 | 0.07 | 1.06 | 29 | $<0.5$ |
| A108 |  | 0.032 | 0.07 | 0.14 | 30 | 0.10 | 2.00 | 102 | $<0.5$ |
| A109 |  | 0.016 | 0.08 | 0.08 | 17 | 0.06 | 1.17 | 386 | <0.5 |
| A110 |  | 0.029 | 0.07 | 0.12 | 30 | 0.10 | 1.64 | 182 | $<0.5$ |
| A111 |  | 0.023 | 0.07 | 0.11 | 31 | 0.10 | 1.46 | 64 | <0.5 |
| A112 |  | 0.016 | 0.03 | 0.09 | 17 | 0.07 | 0.86 | 33 | <0.5 |
| $\wedge 113$ |  | 0.028 | 0.06 | 0.32 | 30 | 0.10 | 6.83 | 23 | 1.9 |
| A114 |  | 0.028 | 0.06 | 0.10 | 22 | 0.08 | 1.32 | 75 | $<0.5$ |
| A115 |  | 0.058 | 0.07 | 0.28 | 55 | 0.18 | 4.84 | 56 | 0.7 |
| A116 |  | 0.030 | 0.08 | 1.07 | 45 | 0.13 | 15.80 | 52 | 1.6 |
| A117 |  | 0.021 | 0.02 | 0.10 | 15 | 0.07 | 0.92 | 46 | $<0.5$ |
| A118 |  | 0.028 | 0.15 | 0.84 | 60 | 0.13 | 19.45 | 131 | <0.5 |
| A119 |  | 0.019 | 0.04 | 0.14 | 19 | 0.07 | 1.39 | 35 | <0.5 |
| A120 |  | 0.022 | 0.05 | 0.29 | 26 | 0.09 | 6.65 | 41 | $<0.5$ |

minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | WEI-21 <br> Recvd Wt. <br> kg <br> 0.02 | $\begin{gathered} \mathrm{Au}-\mathrm{ST} 43 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.0001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ag } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { As } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Be } \\ \text { ppm } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Cd } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ce} \\ \text { ppm } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \text { Co } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A121 |  | 0.16 | 0.0005 | 1.19 | 0.33 | 1.2 | $<0.2$ | <10 | 290 | 0.07 | 0.06 | 0.61 | 2.12 | 5.75 | 2.9 | 10 |
| A122 |  | 0.16 | 0.0016 | 1.83 | 0.55 | 4.1 | $<0.2$ | <10 | 250 | 0.15 | 0.09 | 0.51 | 0.84 | 11.35 | 6.9 | 14 |
| A123 |  | 0.14 | 0.0011 | 0.66 | 0.51 | 2.7 | $<0.2$ | <10 | 160 | 0.08 | 0.06 | 0.49 | 0.56 | 6.32 | 2.9 | 15 |
| A124 |  | 0.22 | 0.0007 | 0.69 | 0.51 | 1.8 | $<0.2$ | <10 | 130 | 0.16 | 0.06 | 0.36 | 0.52 | 8.42 | 3.0 | 12 |
| A125 |  | 0.14 | 0.0013 | 1.68 | 1.06 | 2.9 | $<0.2$ | $<10$ | 150 | 0.30 | 0.11 | 0.18 | 0.53 | 13.65 | 7.6 | 22 |
| A126 |  | 0.18 | 0.0016 | 1.29 | 0.41 | 5.7 | <0.2 | <10 | 150 | 0.08 | 0.10 | 0.49 | 1.44 | 4.90 | 2.0 | 12 |
| A127 |  | 0.16 | 0.0045 | 1.69 | 1.39 | 16.2 | $<0.2$ | $<10$ | 300 | 0.47 | 0.20 | 0.52 | 1.42 | 35.5 | 13.1 | 19 |
| A128 |  | 0.18 | 0.0012 | 0.18 | 0.94 | 6.6 | $<0.2$ | $<10$ | 110 | 0.14 | 0.14 | 0.40 | 0.37 | 9.79 | 3.1 | 25 |
| A129 |  | 0.20 | 0.0009 | 0.88 | 1.93 | 7.2 | $<0.2$ | <10 | 260 | 0.48 | 0.17 | 0.67 | 1.29 | 19.70 | 12.4 | 39 |
| A130 |  | 0.16 | 0.0024 | 1.03 | 2.64 | 9.6 | <0.2 | <10 | 390 | 0.95 | 0.19 | 1.07 | 3.54 | 33.1 | 17.4 | 54 |
| A131 |  | 0.16 | 0.0025 | 1.03 | 2.26 | 6.2 | <0.2 | <10 | 300 | 0.65 | 0.15 | 0.89 | 2.31 | 23.8 | 11.0 | 47 |
| A132 |  | 0.10 | 0.0015 | 0.68 | 0.44 | 4.6 | $<0.2$ | <10 | 200 | 0.11 | 0.11 | 0.81 | 1.07 | 6.59 | 2.4 | 12 |
| A133 |  | 0.14 | 0.0004 | 0.57 | 0.57 | 2.0 | $<0.2$ | <10 | 160 | 0.23 | 0.08 | 0.30 | 0.82 | 8.18 | 2.0 | 15 |
| A134 |  | 0.18 | 0.0008 | 0.45 | 0.34 | 4.3 | $<0.2$ | <10 | 150 | 0.11 | 0.06 | 0.40 | 1.57 | 5.70 | 1.9 | 10 |
| A135 |  | 0.20 | 0.0019 | 0.67 | 0.61 | 9.3 | $<0.2$ | <10 | 170 | 0.16 | 0.10 | 0.24 | 0.87 | 8.75 | 3.7 | 21 |
| A136 |  | 0.18 | 0.0006 | 0.87 | 0.30 | 5.6 | $<0.2$ | <10 | 280 | 0.11 | 0.08 | 0.59 | 1.86 | 4.55 | 1.6 | 9 |
| A137 |  | 0.14 | 0.0002 | 0.39 | 0.25 | 1.6 | $<0.2$ | $<10$ | 200 | 0.06 | 0.07 | 1.41 | 1.07 | 3.08 | 1.3 | 8 |
| A138 |  | 0.12 | 0.0003 | 0.44 | 0.61 | 2.5 | $<0.2$ | $<10$ | 150 | 0.13 | 0.07 | 1.90 | 0.90 | 5.63 | 3.1 | 14 |
| A139 |  | 0.14 | <0.0001 | 0.68 | 0.24 | 1.3 | $<0.2$ | <10 | 240 | 0.07 | 0.04 | 0.58 | 1.16 | 2.92 | 1.5 | 9 |
| A140 |  | 0.14 | 0.0049 | 0.86 | 3.19 | 8.5 | $<0.2$ | $<10$ | 390 | 0.84 | 0.21 | 0.95 | 0.43 | 37.7 | 15.8 | 82 |
| A141 |  | 0.20 | 0.0100 | 0.58 | 1.51 | 9.2 | $<0.2$ | <10 | 340 | 0.42 | 0.13 | 2.71 | 0.82 | 19.30 | 14.1 | 44 |
| A142 |  | 0.14 | 0.0138 | 0.46 | 1.02 | 6.7 | $<0.2$ | $<10$ | 220 | 0.38 | 0.42 | 2.97 | 0.64 | 17.00 | 10.7 | 21 |
| A143 |  | 0.22 | 0.0029 | 0.30 | 0.53 | 4.0 | $<0.2$ | <10 | 120 | 0.16 | 0.13 | 2.05 | 0.93 | 7.97 | 3.3 | 13 |
| A144 |  | 0.14 | 0.0019 | 0.51 | 1.93 | 8.6 | $<0.2$ | $<10$ | 270 | 0.48 | 0.14 | 1.01 | 0.81 | 16.10 | 13.1 | 39 |
| A145 |  | 0.14 | 0.0012 | 1.13 | 0.40 | 2.5 | $<0.2$ | <10 | 460 | 0.10 | 0.09 | 1.13 | 5.75 | 5.20 | 5.8 | 12 |
| A146 |  | 0.14 | 0.0021 | 0.34 | 0.93 | 7.8 | <0.2 | <10 | 150 | 0.25 | 0.07 | 1.73 | 2.17 | 11.65 | 9.6 | 27 |
| A147 |  | 0.20 | 0.0012 | 0.50 | 0.75 | 2.7 | $<0.2$ | $<10$ | 130 | 0.20 | 0.09 | 0.47 | 0.52 | 10.10 | 5.2 | 20 |
| A148 |  | 0.16 | 0.0010 | 0.59 | 0.40 | 2.5 | $<0.2$ | $<10$ | 160 | 0.09 | 0.08 | 0.78 | 0.56 | 4.78 | 3.6 | 11 |
| A149 |  | 0.14 | 0.0017 | 0.55 | 0.38 | 2.7 | $<0.2$ | $<10$ | 140 | 0.07 | 0.06 | 0.54 | 0.31 | 8.75 | 2.3 | 15 |
| A150 |  | 0.14 | 0.0015 | 0.77 | 0.24 | 1.5 | $<0.2$ | $<10$ | 140 | <0.05 | 0.05 | 0.49 | 0.42 | 3.92 | 1.7 | 8 |
| A151 |  | 0.12 | 0.0002 | 1.01 | 0.48 | 3.3 | <0.2 | <10 | 280 | 0.11 | 0.08 | 0.72 | 0.73 | 7.47 | 7.1 | 16 |
| A152 |  | 0.16 | <0.0001 | 0.75 | 0.26 | 2.0 | $<0.2$ | <10 | 150 | 0.06 | 0.08 | 0.54 | 1.46 | 3.50 | 3.3 | 8 |
| $\wedge 153$ |  | 0.22 | <0.0001 | 0.53 | 0.54 | 11.0 | $<0.2$ | $<10$ | 220 | 0.13 | 0.09 | 0.63 | 0.66 | 7.24 | 6.8 | 13 |
| A154 |  | 0.18 | <0.0001 | 0.77 | 0.93 | 3.7 | <0.2 | $<10$ | 150 | 0.26 | 0.07 | 2.65 | 2.00 | 8.88 | 6.4 | 17 |
| A155 |  | 0.14 | $<0.0001$ | 0.63 | 0.69 | 2.9 | $<0.2$ | $<10$ | 300 | 0.16 | 0.10 | 0.85 | 1.59 | 6.58 | 5.9 | 16 |
| A156 |  | 0.22 | <0,0001 | 0.99 | 0.35 | 1.8 | $<0.2$ | <10 | 200 | 0.07 | 0.11 | 0.36 | 1.46 | 5.72 | 1.7 | 8 |
| A157 |  | 0.22 | <0.0001 | 0.39 | 0.56 | 1.7 | $<0.2$ | $<10$ | 550 | 0.17 | 0.11 | 0.87 | 3.35 | 6.80 | 8.4 | 11 |
| A158 |  | 0.14 | <0.0001 | 0.48 | 0.78 | 4.1 | $<0.2$ | $<10$ | 610 | 0.28 | 0.10 | 0.67 | 3.18 | 15.15 | 13.4 | 16 |
| A159 |  | 0.26 | 0.0003 | 0.64 | 0.25 | 1.4 | $<0.2$ | <10 | 160 | 0.08 | 0.06 | 0.72 | 1.33 | 4.30 | 2.9 | 11 |
| A160 |  | 0.16 | 0.0005 | 0.94 | 0.26 | 1.8 | $<0.2$ | $<10$ | 190 | 0.06 | 0.07 | 0.89 | 0.66 | 5.44 | 2.3 | 8 |

minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Cs } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cu} \\ \text { pprim } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Fe } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ga } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ge } \\ \text { ppाI } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Hf } \\ \text { pprit } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Hg} \\ \text { PpIII } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { In } \\ \text { Npril } \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { K } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { La } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Li } \\ \text { pprin } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mn } \\ \text { pprI } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mo } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A121 |  | 0.25 | 10.9 | 0.42 | 1.15 | <0.05 | <0.02 | 0.19 | 0.006 | 0.08 | 3.3 | 1.1 | 0.10 | 160 | 2.14 | 0.02 |
| A122 |  | 0.54 | 13.1 | 0.84 | 1.91 | <0.05 | <0.02 | 0.27 | 0.009 | 0.10 | 5.4 | 2.2 | 0.17 | 1360 | 1.49 | 0.02 |
| A123 |  | 0.59 | 13.2 | 0.92 | 1.80 | <0.05 | <0.02 | 0.20 | 0.008 | 0.06 | 3.2 | 2.3 | 0.17 | 647 | 2.04 | 0.02 |
| A124 |  | 0.18 | 9.9 | 0.68 | 1.50 | <0.05 | <0.02 | 0.20 | 0.009 | 0.10 | 4.5 | 1.4 | 0.11 | 161 | 1.42 | 0.01 |
| A125 |  | 0.55 | 14.5 | 1.40 | 3.10 | <0.05 | <0.02 | 0.15 | 0.016 | 0.08 | 7.3 | 3.2 | 0.18 | 246 | 1.96 | 0.01 |
| A126 |  | 0.48 | 8.2 | 0.59 | 1.62 | <0.05 | <0.02 | 0.24 | 0.006 | 0.05 | 2.6 | 1.3 | 0.10 | 167 | 2.16 | 0.02 |
| A127 |  | 0.44 | 26.8 | 1.66 | 2.88 | 0.05 | <0.02 | 0.28 | 0.021 | 0.10 | 16.8 | 3.0 | 0.22 | 358 | 2.10 | 0.02 |
| A128 |  | 0.29 | 12.1 | 1.40 | 3.89 | <0.05 | <0.02 | 0.09 | 0.013 | 0.04 | 5.5 | 4.5 | 0.21 | 136 | 2.34 | 0.01 |
| A129 |  | 0.99 | 33.8 | 2.34 | 5.84 | $<0.05$ | <0.02 | 0.14 | 0.027 | 0.06 | 10.6 | 8.3 | 0.47 | 525 | 3.64 | 0.02 |
| A130 |  | 1.15 | 77.0 | 3.29 | 7.68 | 0.05 | 0.03 | 0.09 | 0.042 | 0.08 | 16.9 | 10.7 | 0.73 | 1750 | 1.75 | 0.02 |
| A131 |  | 0.74 | 51.3 | 2.77 | 6.60 | <0.05 | 0.02 | 0.11 | 0.033 | 0.06 | 12.6 | 9.9 | 0.64 | 828 | 1.66 | 0.02 |
| A132 |  | 0.47 | 9.8 | 0.68 | 1.44 | <0.05 | <0.02 | 0.28 | 0.010 | 0.07 | 3.4 | 2.0 | 0.13 | 253 | 2.60 | 0.01 |
| A133 |  | 0.42 | 13.2 | 0.75 | 2.11 | <0.05 | <0.02 | 0.18 | 0.011 | 0.08 | 4.2 | 1.7 | 0.09 | 192 | 1.27 | 0.01 |
| A134 |  | 0.21 | 8.4 | 0.42 | 0.99 | <0.05 | <0.02 | 0.25 | 0.005 | 0.08 | 2.9 | 0.6 | 0.11 | 56 | 0.84 | 0.01 |
| A135 |  | 0.56 | 15.4 | 1.11 | 2.27 | $<0.05$ | <0.02 | 0.14 | 0.011 | 0.06 | 4.5 | 2.3 | 0.16 | 97 | 1.67 | 0.01 |
| A136 |  | 0.35 | 8.9 | 0.45 | 1.03 | <0.05 | <0.02 | 0.24 | 0.007 | 0.04 | 2.5 | 0.8 | 0.07 | 178 | 1.24 | 0.01 |
| A137 |  | 0.44 | 10.9 | 0.35 | 1.16 | <0.05 | <0.02 | 0.19 | 0.005 | 0.06 | 1.6 | 0.6 | 0.19 | 70 | 1.08 | 0.01 |
| A138 |  | 0.34 | 16.5 | 0.87 | 1.82 | <0.05 | 0.02 | 0.23 | 0.010 | 0.06 | 3.4 | 2.9 | 0.30 | 127 | 1.32 | 0.02 |
| A139 |  | 0.26 | 6.7 | 0.45 | 0.87 | <0.05 | <0.02 | 0.15 | 0.005 | 0.04 | 1.6 | 0.8 | 0.07 | 59 | 0.84 | <0.01 |
| A140 |  | 1.25 | 145.0 | 3.93 | 9.37 | 0.09 | 0.13 | 0.19 | 0.047 | 0.10 | 29.3 | 17.4 | 0.98 | 493 | 1.89 | 0.02 |
| A141 |  | 0.55 | 29.3 | 2.06 | 4.30 | 0.08 | 0.04 | 0.11 | 0.018 | 0.04 | 8.3 | 10.2 | 0.45 | 1040 | 5.60 | 0.02 |
| A142 |  | 0.40 | 25.4 | 1.74 | 2.70 | 0.06 | 0.06 | 0.20 | 0.017 | 0.04 | 8.3 | 3.7 | 0.31 | 2690 | 3.42 | 0.03 |
| A143 |  | 0.19 | 13.4 | 0.80 | 1.57 | $<0.05$ | <0.02 | 0.21 | 0.009 | 0.05 | 3.8 | 1.8 | 0.28 | 162 | 1.44 | 0.03 |
| A144 |  | 0.97 | 41.4 | 3.10 | 6.49 | 0.07 | 0.02 | 0.12 | 0.029 | 0.09 | 8.6 | 11.8 | 0.55 | 1480 | 2.27 | 0.02 |
| A145 |  | 0.72 | 14.6 | 0.78 | 1.81 | <0.05 | <0.02 | 0.21 | 0.009 | 0.13 | 2.6 | 2.2 | 0.16 | 4460 | 3.14 | 0.02 |
| A146 |  | 0.44 | 34.5 | 1.94 | 3.38 | 0.07 | 0.02 | 0.08 | 0.015 | 0.18 | 5.5 | 6.9 | 0.46 | 1390 | 2.11 | 0.02 |
| A147 |  | 0.47 | 14.4 | 0.98 | 3.62 | <0.05 | <0.02 | 0.10 | 0.011 | 0.05 | 5.0 | 3.0 | 0.18 | 187 | 1.19 | 0.01 |
| A148 |  | 0.24 | 10.1 | 0.65 | 1.92 | <0.05 | <0.02 | 0.33 | 0.008 | 0.10 | 2.3 | 1.8 | 0.15 | 2900 | 1.98 | 0.02 |
| A149 |  | 0.46 | 8.8 | 0.74 | 2.10 | <0.05 | <0.02 | 0.15 | 0.008 | 0.06 | 4.9 | 1.9 | 0.13 | 363 | 2.19 | 0.01 |
| A150 |  | 0.26 | 7.1 | 0.40 | 1.05 | $<0.05$ | <0.02 | 0.20 | 0.005 | 0.09 | 2.1 | 1.0 | 0.09 | 194 | 2.02 | 0.02 |
| A151 |  | 0.57 | 14.3 | 1.07 | 2.23 | <0.05 | <0.02 | 0.17 | 0.011 | 0.09 | 3.6 | 2.6 | 0.17 | 4190 | 2.34 | 0.02 |
| A152 |  | 0.31 | 10.8 | 0.54 | 1.27 | $<0.05$ | <0.02 | 0.24 | 0.006 | 0.10 | 1.7 | 1.2 | 0.10 | 648 | 1.46 | 0.02 |
| $\wedge 153$ |  | 0.52 | 23.0 | 1.12 | 2.20 | <0.05 | <0.02 | 0.21 | 0.011 | 0.10 | 3.4 | 3.9 | 0.20 | 1650 | 2.21 | 0.02 |
| A154 |  | 0.32 | 42.9 | 1.19 | 3.72 | 0.07 | 0.02 | 0.12 | 0.011 | 0.03 | 9.3 | 5.8 | 0.26 | 414 | 1.61 | 0.02 |
| A155 |  | 0.46 | 13.5 | 1.30 | 3.38 | $<0.05$ | $<0.02$ | 0.23 | 0.011 | 0.11 | 3.3 | 4.8 | 0.17 | 4730 | 1.26 | 0.02 |
| A156 |  | 0.32 | 10.0 | 0.57 | 2.29 | <0.05 | <0.02 | 0.22 | 0.008 | 0.09 | 2.9 | 1.0 | 0.08 | 438 | 1.12 | 0.01 |
| A157 |  | 0.25 | 17.9 | 0.95 | 2.42 | <0.05 | <0.02 | 0.18 | 0.013 | 0.08 | 3.5 | 2.1 | 0.09 | 4350 | 1.54 | 0.02 |
| A158 |  | 0.50 | 19.4 | 1.23 | 3.25 | <0.05 | <0.02 | 0.30 | 0.015 | 0.10 | 6.4 | 4.2 | 0.22 | 11000 | 3.23 | 0.01 |
| A159 |  | 0.37 | 9.3 | 0.49 | 1.23 | <0.05 | <0.02 | 0.13 | 0.006 | 0.09 | 2.2 | 1.1 | 0.10 | 502 | 1.71 | 0.01 |
| A160 |  | 0.29 | 11.6 | 0.52 | 1.17 | $<0.05$ | 0.02 | 0.27 | 0.007 | 0.06 | 3.0 | 1.2 | 0.13 | 110 | 1.38 | 0.02 |

ALS Canada Ltd.
To:ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE
2103 Dollarton Hwy
BC V7H 0A7
North Vancouver BC V7H 0A7 DELTA BC V4K 4W6

Page: 5 - C
Total \# Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Nb } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ni} \\ \text { pprim } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { P } \\ \text { ppril } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Pb } \\ \text { Ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Rb } \\ \text { ppाI } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Re } \\ \text { pprit } \\ 0.001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sb } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sc } \\ \text { ppril } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Se } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sn } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sr } \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ta } \\ \text { pprit } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Te } \\ \text { ppril } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Th } \\ \text { pprin } \\ 0.2 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A121 |  | 0.25 | 9.2 | 930 | 6.6 | 3.5 | <0.001 | 0.12 | 0.22 | 0.6 | 0.6 | 0.2 | 70.4 | <0.01 | 0.01 | <0.2 |
| A122 |  | 0.30 | 13.3 | 1080 | 8.6 | 5.2 | <0.001 | 0.09 | 0.38 | 0.8 | 0.7 | 0.2 | 66.2 | <0.01 | 0.01 | <0.2 |
| A123 |  | 0.34 | 11.3 | 720 | 9.2 | 7.4 | 0.001 | 0.08 | 0.38 | 0.9 | 0.5 | 0.2 | 33.8 | <0.01 | 0.01 | <0.2 |
| A124 |  | 0.26 | 10.1 | 1050 | 6.0 | 2.3 | <0.001 | 0.12 | 0.28 | 0.5 | 0.5 | 0.2 | 34.1 | <0.01 | 0.02 | <0.2 |
| A125 |  | 0.18 | 16.6 | 1250 | 7.9 | 5.6 | <0.001 | 0.07 | 0.37 | 0.3 | 0.7 | 0.3 | 26.7 | <0.01 | 0.01 | $<0.2$ |
| A126 |  | 0.17 | 7.2 | 770 | 4.6 | 3.8 | <0.001 | 0.07 | 0.27 | 0.1 | 0.6 | 0.2 | 46.7 | <0.01 | 0.01 | <0.2 |
| A127 |  | 0.23 | 26.8 | 2460 | 6.7 | 5.9 | <0.001 | 0.15 | 0.62 | 0.4 | 1.1 | 0.3 | 65.4 | <0.01 | 0.02 | $<0.2$ |
| A128 |  | 0.47 | 13.7 | 480 | 5.7 | 3.5 | <0.001 | 0.05 | 0.33 | 1.3 | 0.4 | 0.3 | 32.9 | <0.01 | 0.02 | $<0.2$ |
| A129 |  | 0.73 | 38.0 | 960 | 5.9 | 9.0 | $<0.001$ | 0.09 | 0.50 | 2.4 | 0.9 | 0.4 | 51.7 | <0.01 | 0.02 | $<0.2$ |
| A130 |  | 0.85 | 57.2 | 790 | 7.5 | 11.5 | 0.001 | 0.05 | 0.63 | 5.7 | 1.0 | 0.5 | 73.8 | <0.01 | 0.04 | 0.4 |
| A131 |  | 0.72 | 45.7 | 870 | 5.9 | 6.8 | <0.001 | 0.06 | 0.68 | 3.3 | 0.8 | 0.4 | 62.2 | <0.01 | 0.03 | <0.2 |
| A132 |  | 0.26 | 9.9 | 1070 | 6.3 | 3.9 | $<0.001$ | 0.12 | 0.39 | 0.9 | 0.6 | 0.2 | 45.8 | <0.01 | 0.01 | <0.2 |
| A133 |  | 0.28 | 11.4 | 950 | 7.2 | 3.9 | <0.001 | 0.06 | 0.26 | 0.6 | 0.4 | 0.2 | 24.1 | <0.01 | 0.02 | <0.2 |
| A134 |  | 0.21 | 11.5 | 830 | 5.8 | 2.1 | <0.001 | 0.08 | 0.26 | 0.4 | 0.6 | 0.2 | 44.3 | $<0.01$ | 0.01 | <0.2 |
| A135 |  | 0.32 | 15.3 | 700 | 7.4 | 3.0 | $<0.001$ | 0.06 | 0.44 | 0.7 | 0.4 | 0.2 | 33.6 | <0.01 | 0.02 | $<0.2$ |
| A136 |  | 0.19 | 7.7 | 710 | 6.1 | 2.6 | <0.001 | 0.08 | 0.22 | 0.3 | 0.5 | 0.2 | 50.2 | <0.01 | 0.01 | <0.2 |
| A137 |  | 0.20 | 7.7 | 650 | 4.0 | 1.7 | <0.001 | 0.09 | 0.24 | 0.4 | 0.6 | 0.2 | 92.9 | <0.01 | 0.01 | <0.2 |
| A138 |  | 0.34 | 13.4 | 870 | 5.7 | 2.8 | 0.001 | 0.14 | 0.38 | 1.6 | 0.9 | 0.2 | 111.5 | <0.01 | 0.01 | 0.2 |
| A139 |  | 0.19 | 7.5 | 620 | 4.7 | 2.4 | <0.001 | 0.08 | 0.22 | 0.5 | 0.5 | <0.2 | 54.0 | <0.01 | 0.01 | $<0.2$ |
| A140 |  | 0.93 | 89.1 | 760 | 10.5 | 12.3 | 0.001 | 0.02 | 0.62 | 16.6 | 1.2 | 0.5 | 65.2 | 0.01 | 0.04 | 2.6 |
| A141 |  | 0.65 | 36.4 | 710 | 4.3 | 4.8 | 0.043 | 0.10 | 0.77 | 3.4 | 6.0 | 0.3 | 161.5 | <0.01 | 0.03 | 0.3 |
| A142 |  | 0.37 | 22.7 | 1590 | 3.9 | 3.3 | 0.007 | 0.22 | 0.68 | 2.3 | 1.8 | 0.2 | 161.5 | <0.01 | 0.02 | 0.3 |
| A143 |  | 0.30 | 13.6 | 910 | 4.8 | 2.6 | 0.004 | 0.13 | 0.49 | 1.0 | 0.9 | 0.2 | 141.0 | <0.01 | 0.01 | $<0.2$ |
| A144 |  | 0.67 | 33.7 | 1150 | 9.2 | 10.5 | 0.001 | 0.07 | 0.48 | 5.0 | 1.5 | 0.4 | 72.5 | <0.01 | 0.03 | 0.3 |
| A145 |  | 0.22 | 12.1 | 1110 | 10.5 | 7.4 | 0.001 | 0.10 | 0.28 | 0.7 | 0.8 | 0.2 | 90.1 | <0.01 | 0.02 | $<0.2$ |
| A146 |  | 0.61 | 25.9 | 1170 | 4.0 | 10.2 | 0.001 | 0.13 | 0.45 | 3.0 | 0.9 | 0.2 | 107.0 | <0.01 | 0.03 | 0.2 |
| A147 |  | 0.39 | 12.6 | 570 | 5.4 | 4.3 | 0.001 | 0.04 | 0.30 | 1.4 | 0.6 | 0.3 | 47.3 | <0.01 | 0.02 | <0.2 |
| A148 |  | 0.25 | 8.6 | 940 | 7.5 | 3.2 | <0.001 | 0.09 | 0.36 | 0.7 | 0.7 | 0.2 | 58.9 | <0.01 | 0.02 | <0.2 |
| A149 |  | 0.43 | 8.8 | 540 | 5.5 | 4.4 | <0.001 | 0.05 | 0.31 | 1.5 | 0.4 | 0.2 | 49.3 | <0.01 | 0.01 | 0.3 |
| A150 |  | 0.21 | 6.5 | 1060 | 5.3 | 4.8 | 0.001 | 0.10 | 0.24 | 0.7 | 0.4 | 0.2 | 43.1 | <0.01 | <0.01 | <0.2 |
| A151 |  | 0.29 | 12.2 | 910 | 8.8 | 6.5 | 0.001 | 0.07 | 0.41 | 1.1 | 0.5 | 0.6 | 52.4 | <0.01 | 0.02 | <0.2 |
| A152 |  | 0.27 | 6.2 | 1070 | 7.3 | 6.1 | 0.001 | 0.12 | 0.23 | 0.8 | 0.5 | 0.7 | 43.8 | <0.01 | 0.01 | <0.2 |
| $\wedge 153$ |  | 0.33 | 12.9 | 1190 | 11.3 | 5.0 | 0.001 | 0.11 | 0.41 | 1.0 | 0.6 | 0.4 | 53.4 | <0.01 | 0.02 | <0.2 |
| A154 |  | 0.73 | 13.1 | 570 | 3.7 | 4.1 | 0.004 | 0.10 | 0.87 | 1.8 | 2.3 | 0.7 | 122.5 | 0.01 | 0.02 | <0.2 |
| A155 |  | 0.27 | 11.7 | 1040 | 8.3 | 7.2 | 0.001 | 0.07 | 0.36 | 0.6 | 0.5 | 0.5 | 59.8 | $<0.01$ | 0.02 | $<0.2$ |
| A156 |  | 0.32 | 5.3 | 720 | 9.8 | 4.3 | 0.001 | 0.06 | 0.31 | 0.4 | 0.5 | 0.8 | 29.9 | <0.01 | 0.01 | <0.2 |
| A157 |  | 0.20 | 10.5 | 860 | 10.6 | 3.5 | 0.001 | 0.06 | 0.28 | 0.4 | 0.7 | 0.4 | 85.6 | <0.01 | 0.01 | $<0.2$ |
| A158 |  | 0.17 | 20.9 | 1020 | 10.6 | 7.4 | 0.001 | 0.07 | 0.47 | 0.8 | 0.6 | 0.5 | 53.4 | <0.01 | 0.03 | <0.2 |
| A159 |  | 0.23 | 8.8 | 590 | 5.2 | 5.0 | <0.001 | 0.06 | 0.21 | 0.5 | 0.5 | 0.3 | 49.6 | <0.01 | 0.01 | <0.2 |
| A160 |  | 0.27 | 6.6 | 670 | 5.2 | 2.8 | 0.001 | 0.11 | 0.29 | 1.0 | 0.5 | 0.3 | 62.4 | <0.01 | 0.01 | 0.2 |

Total \# Pages: 6 (A - D) Plus Appendix Pages Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ T i \\ \% \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{TI} \\ \text { ppril } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { U } \\ \text { ppri } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ V \\ \text { ppril } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { W } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ Y \\ \text { pprim } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Zn } \\ 0 p ז I \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Zr} \\ \text { ppri } \\ 0.5 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A121 |  | 0.016 | 0.03 | 0.09 | 12 | 0.07 | 1.79 | 73 | $<0.5$ |
| A122 |  | 0.019 | 0.04 | 0.20 | 20 | 0.09 | 3.23 | 52 | <0.5 |
| A123 |  | 0.025 | 0.07 | 0.12 | 23 | 0.11 | 2.00 | 46 | <0.5 |
| A124 |  | 0.013 | 0.04 | 0.18 | 15 | 0.08 | 2.55 | 40 | <0.5 |
| A125 |  | 0.007 | 0.05 | 0.32 | 27 | 0.10 | 4.21 | 40 | $<0.5$ |
| A126 |  | <0.005 | 0.04 | 0.10 | 15 | 0.07 | 0.94 | 49 | <0.5 |
| A127 |  | <0.005 | 0.05 | 0.53 | 24 | 0.11 | 13.25 | 60 | <0.5 |
| A128 |  | 0.029 | 0.05 | 0.30 | 43 | 0.12 | 2.51 | 51 | $<0.5$ |
| A129 |  | 0.020 | 0.10 | 1.54 | 52 | 0.17 | 10.35 | 94 | <0.5 |
| A130 |  | 0.027 | 0.13 | 2.60 | 71 | 0.15 | 16.20 | 159 | $<0.5$ |
| A131 |  | 0.022 | 0.10 | 1.86 | 64 | 0.14 | 12.05 | 120 | <0.5 |
| A132 |  | 0.012 | 0.04 | 0.36 | 15 | 0.11 | 2.02 | 52 | $<0.5$ |
| A133 |  | 0.013 | 0.05 | 0.21 | 19 | 0.08 | 2.07 | 34 | <0.5 |
| A134 |  | 0.013 | 0.03 | 0.10 | 10 | 0.06 | 1.82 | 36 | <0.5 |
| A135 |  | 0.022 | 0.05 | 0.16 | 29 | 0.11 | 2.88 | 35 | <0.5 |
| A136 |  | 0.008 | 0.03 | 0.15 | 10 | 0.23 | 1.30 | 44 | <0.5 |
| A137 |  | 0.012 | 0.03 | 0.10 | 9 | 0.05 | 0.87 | 66 | $<0.5$ |
| A138 |  | 0.017 | 0.05 | 0.48 | 19 | 0.12 | 3.27 | 58 | 0.8 |
| A139 |  | 0.014 | 0.02 | 0.10 | 13 | 0.05 | 0.70 | 20 | $<0.5$ |
| A140 |  | 0.065 | 0.17 | 3.39 | 95 | 0.21 | 36.4 | 105 | 3.6 |
| A141 |  | 0.034 | 0.06 | 6.58 | 55 | 0.11 | 8.55 | 38 | 0.9 |
| A142 |  | 0.017 | 0.06 | 0.31 | 33 | 0.19 | 9.16 | 19 | 1.8 |
| A143 |  | 0.017 | 0.03 | 0.17 | 18 | 0.12 | 3.36 | 16 | 0.5 |
| A144 |  | 0.048 | 0.15 | 0.80 | 80 | 0.14 | 7.84 | 80 | $<0.5$ |
| A145 |  | 0.018 | 0.08 | 0.11 | 20 | 0.09 | 1.45 | 89 | $<0.5$ |
| A146 |  | 0.044 | 0.07 | 0.36 | 48 | 0.13 | 4.53 | 139 | 0.7 |
| A147 |  | 0.035 | 0.05 | 0.25 | 29 | 0.10 | 2.82 | 31 | $<0.5$ |
| A148 |  | 0.019 | 0.05 | 0.12 | 20 | 0.09 | 1.49 | 52 | $<0.5$ |
| A149 |  | 0.035 | 0.04 | 0.14 | 25 | 0.09 | 1.53 | 33 | <0.5 |
| A150 |  | 0.015 | 0.03 | 0.08 | 12 | 0.07 | 0.95 | 41 | $<0.5$ |
| A151 |  | 0.027 | 0.12 | 0.15 | 30 | 0.10 | 1.70 | 59 | <0.5 |
| A152 |  | 0.018 | 0.05 | 0.08 | 16 | 0.08 | 0.85 | 51 | 0.5 |
| $\wedge 153$ |  | 0.021 | 0.10 | 0.16 | 29 | 0.10 | 2.25 | 62 | $<0.5$ |
| A154 |  | 0.035 | 0.05 | 1.03 | 32 | 0.43 | 9.19 | 29 | 0.7 |
| A155 |  | 0.025 | 0.09 | 0.13 | 35 | 0.11 | 1.48 | 98 | $<0.5$ |
| A156 |  | 0.017 | 0.05 | 0.10 | 18 | 0.08 | 1.06 | 43 | <0.5 |
| A157 |  | 0.015 | 0.04 | 0.14 | 23 | 0.07 | 1.81 | 88 | $<0.5$ |
| A158 |  | 0.015 | 0.14 | 0.24 | 31 | 0.09 | 4.74 | 79 | <0.5 |
| A159 |  | 0.017 | 0.04 | 0.10 | 15 | 0.06 | 1.00 | 29 | <0.5 |
| A160 |  | 0.019 | 0.02 | 0.09 | 15 | 0.06 | 1.06 | 54 | 0.6 |

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To. ORESTONE MINING CORP.
6410 HOLLY PARK DRIVE
DELTA BC V4K 4W6

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minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{aligned} & \text { WEI-21 } \\ & \text { Recvd Wt. } \\ & \text { kg } \\ & 0.02 \end{aligned}$ | $\begin{gathered} \mathrm{Au}-\mathrm{ST} 43 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.0001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ag } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { As } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Au } \\ \text { ppm } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Be} \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Cd } \\ \text { ppm } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ce } \\ \text { ppm } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Co } \\ \text { ppm } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A161 |  | 0.26 | 0.0011 | 0.83 | 2.54 | 21.7 | <0.2 | <10 | 250 | 0.75 | 0.16 | 0.99 | 4.60 | 26.7 | 15.3 | 55 |
| A162 |  | 0.16 | 0.0010 | 0.15 | 0.65 | 3.8 | <0.2 | <10 | 180 | 0.14 | 0.07 | 1.68 | 2.07 | 7.06 | 6.2 | 16 |
| A163 |  | 0.16 | 0.0002 | 0.18 | 0.26 | 1.7 | <0.2 | <10 | 110 | 0.06 | 0.07 | 0.70 | 1.11 | 4.92 | 1.9 | 9 |
| A164 |  | 0.16 | 0.0018 | 0.22 | 0.52 | 2.3 | <0.2 | <10 | 120 | 0.11 | 0.07 | 1.66 | 2.61 | 6.26 | 6.7 | 15 |
| A165 |  | 0.30 | 0.0007 | 0.42 | 0.25 | 1.2 | $<0.2$ | <10 | 130 | $<0.05$ | 0.06 | 0.60 | 0.60 | 2.96 | 1.5 | 6 |
| A166 |  | 0.28 | <0.0001 | 1.18 | 0.32 | 1.5 | <0.2 | <10 | 470 | 0.07 | 0.07 | 1.31 | 2.40 | 3.15 | 4.3 | 7 |
| A167 |  | 0.20 | 0.0008 | 0.39 | 0.24 | 1.2 | $<0.2$ | <10 | 360 | 0.05 | 0.06 | 1.12 | 2.63 | 4.51 | 1.6 | 8 |
| A168 |  | 0.22 | 0.0003 | 1.13 | 0.36 | 1.5 | <0.2 | $<10$ | 250 | 0.19 | 0.08 | 0.55 | 1.02 | 3.95 | 1.4 | 8 |
| A169 |  | 0.22 | 0.0003 | 0.15 | 0.35 | 1.6 | $<0.2$ | <10 | 130 | 0.07 | 0.07 | 0.71 | 1.17 | 4.89 | 2.7 | 12 |
| A170 |  | 0.16 | NSS | 0.83 | 0.17 | 0.8 | $<0.2$ | <10 | 160 | $<0.05$ | 0.08 | 0.97 | 0.64 | 3.61 | 0.8 | 6 |
| A171 |  | 0.18 | 0.0014 | 0.52 | 0.50 | 1.6 | <0.2 | <10 | 260 | 0.18 | 0.07 | 0.54 | 0.53 | 5.62 | 1.7 | 13 |
| A172 |  | 0.18 | 0.0025 | 0.23 | 1.15 | 4.3 | $<0.2$ | <10 | 160 | 0.25 | 0.09 | 0.85 | 0.46 | 15.25 | 9.9 | 27 |
| A173 |  | 0.22 | NSS | 0.83 | 0.21 | 6.4 | <0.2 | <10 | 430 | <0.05 | 0.17 | 1.02 | 1.57 | 2.60 | 3.0 | 4 |
| A174 |  | 0.14 | 0.0014 | 0.25 | 0.34 | 1.8 | <0.2 | <10 | 170 | 0.08 | 0.08 | 0.57 | 1.17 | 4.66 | 1.3 | 11 |
| A175 |  | 0.12 | <0.0001 | 0.49 | 0.36 | 1.8 | <0.2 | $<10$ | 550 | 0.08 | 0.09 | 0.79 | 1.17 | 5.88 | 6.4 | 10 |
| A176 |  | 0.24 | 0.0008 | 0.61 | 0.61 | 2.8 | <0.2 | <10 | 130 | 0.17 | 0.05 | 2.69 | 1.71 | 8.50 | 5.3 | 20 |
| A177 |  | 0.16 | 0.0004 | 0.51 | 0.41 | 1.8 | <0.2 | <10 | 370 | 0.07 | 0.07 | 0.41 | 0.83 | 5.44 | 6.5 | 11 |
| A178 |  | 0.16 | 0.0008 | 0.26 | 0.87 | 3.0 | <0.2 | $<10$ | 220 | 0.29 | 0.07 | 0.69 | 0.96 | 15.25 | 9.3 | 20 |
| A179 |  | 0.12 | 0.0002 | 0.20 | 0.28 | 1.5 | $<0.2$ | <10 | 180 | 0.06 | 0.06 | 0.54 | 1.11 | 5.40 | 1.4 | 10 |
| A180 |  | 0.12 | 0.0003 | 0.75 | 1.09 | 3.3 | <0.2 | <10 | 270 | 0.40 | 0.10 | 0.87 | 2.58 | 29.8 | 8.2 | 22 |
| A181 |  | 0.16 | NSS | 0.69 | 1.17 | 5.5 | <0.2 | <10 | 180 | 0.33 | 0.08 | 1.95 | 1.30 | 26.3 | 7.8 | 20 |
| A182 |  | 0.16 | 0.0017 | 0.43 | 0.78 | 2.8 | <0.2 | <10 | 160 | 0.24 | 0.05 | 3.58 | 1.17 | 14.55 | 2.6 | 10 |
| A183 |  | 0.24 | 0.0020 | 0.63 | 1.06 | 4.8 | $<0.2$ | <10 | 180 | 0.33 | 0.08 | 2.25 | 0.73 | 19.05 | 5.9 | 23 |
| A184 |  | 0.18 | 0.0035 | 1.25 | 0.96 | 3.9 | $<0.2$ | $<10$ | 180 | 0.36 | 0.05 | 3.12 | 1.30 | 28.6 | 6.5 | 14 |
| A185 |  | 0.16 | 0.0026 | 0.92 | 0.87 | 3.4 | $<0.2$ | <10 | 170 | 0.29 | 0.06 | 2.90 | 1.30 | 25.5 | 5.1 | 12 |
| A186 |  | 0.16 | 0.0017 | 0.81 | 0.68 | 2.4 | $<0.2$ | <10 | 120 | 0.27 | 0.04 | 3.12 | 1.29 | 19.00 | 3.1 | 7 |
| A187 |  | 0.28 | 0.0076 | 1.78 | 2.03 | 4.2 | $<0.2$ | <10 | 220 | 0.53 | 0.10 | 1.06 | 1.02 | 44.2 | 6.4 | 36 |
| A188 |  | 0.10 | 0.0004 | 0.27 | 0.21 | 1.2 | $<0.2$ | <10 | 130 | $<0.05$ | 0.06 | 0.98 | 0.98 | 3.38 | 2.3 | 9 |
| A189 |  | 0.16 | 0.0017 | 1.05 | 1.63 | 4.1 | $<0.2$ | $<10$ | 210 | 0.50 | 0.07 | 1.74 | 1.46 | 47.6 | 4.7 | 18 |
| A190 |  | 0.12 | 0.0019 | 1.26 | 2.07 | 5.3 | <0.2 | <10 | 230 | 0.55 | 0.09 | 2.26 | 1.17 | 43.9 | 5.9 | 27 |
| A191 |  | 0.18 | 0.0005 | 0.47 | 0.58 | 3.5 | <0.2 | <10 | 260 | 0.11 | 0.06 | 0.95 | 0.93 | 6.25 | 5.3 | 17 |

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2103 Dollarton Hwy
BC V7H 0A7
To. ORESTONE MINING CORP.
6410 HOLLY PARK DRIVE
DELTA BC V4K 4W6

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Plus Appendix Pages
Finalized Date: 14-NOV-2010 Account: MINORE
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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Cs } \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Cu } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Fe } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ga } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS } 41 \\ \text { Ge } \\ \text { pprir } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Hf } \\ \text { ppiri } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Hg } \\ \text { ppril } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { In } \\ \text { ppril } \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ K \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { La } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Li } \\ \text { pprim } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mn } \\ \text { ppris } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Mo } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A161 |  | 1.20 | 80.9 | 3.45 | 7.66 | 0.09 | 0.03 | 0.05 | 0.034 | 0.11 | 13.4 | 12.5 | 0.70 | 1090 | 2.18 | 0.02 |
| A162 |  | 0.37 | 20.9 | 1.22 | 2.51 | $<0.05$ | 0.03 | 0.14 | 0.010 | 0.09 | 3.6 | 4.5 | 0.37 | 648 | 2.78 | 0.02 |
| A163 |  | 0.26 | 8.6 | 0.53 | 1.29 | <0.05 | <0.02 | 0.11 | 0.006 | 0.08 | 2.7 | 1.2 | 0.12 | 196 | 1.47 | 0.01 |
| A164 |  | 0.36 | 13.8 | 1.00 | 2.20 | $<0.05$ | 0.02 | 0.13 | 0.009 | 0.13 | 2.9 | 4.4 | 0.24 | 1560 | 3.62 | 0.02 |
| A165 |  | 0.20 | 9.4 | 0.37 | 1.18 | $<0.05$ | <0.02 | 0.32 | 0.005 | 0.07 | 1.5 | 0.9 | 0.07 | 3580 | 0.74 | 0.02 |
| A166 |  | 0.39 | 13.2 | 0.41 | 1.71 | <0.05 | <0.02 | 0.38 | 0.005 | 0.06 | 1.7 | 0.7 | 0.07 | 14550 | 1.25 | 0.01 |
| A167 |  | 0.24 | 7.8 | 0.37 | 1.38 | <0.05 | <0.02 | 0.16 | 0.005 | 0.07 | 2.9 | 0.9 | 0.19 | 318 | 0.59 | 0.01 |
| A168 |  | 0.31 | 11.0 | 0.41 | 1.23 | <0.05 | <0.02 | 0.41 | 0.008 | 0.05 | 2.1 | 0.6 | 0.06 | 496 | 0.88 | 0.01 |
| A169 |  | 0.21 | 6.8 | 0.67 | 2.06 | <0.05 | <0.02 | 0.10 | 0.007 | 0.05 | 2.6 | 1.5 | 0.11 | 290 | 0.83 | 0.01 |
| A170 |  | 0.29 | 10.8 | 0.20 | 0.72 | <0.05 | <0.02 | 0.22 | 0.006 | 0.07 | 2.0 | 0.5 | 0.07 | 2950 | 0.74 | 0.01 |
| A171 |  | 0.39 | 8.1 | 0.59 | 1.96 | <0.05 | <0.02 | 0.14 | 0.008 | 0.07 | 3.1 | 1.0 | 0.08 | 319 | 0.71 | 0.01 |
| A172 |  | 0.57 | 22.9 | 1.80 | 3.88 | 0.05 | <0.02 | 0.13 | 0.017 | 0.04 | 6.6 | 6.4 | 0.34 | 834 | 1.31 | 0.01 |
| A173 |  | 0.67 | 8.9 | 0.21 | 0.96 | $<0.05$ | <0.02 | 0.47 | 0.005 | 0.04 | 1.2 | 0.5 | 0.07 | 8270 | 0.83 | 0.01 |
| A174 |  | 0.37 | 7.1 | 0.43 | 1.29 | <0.05 | <0.02 | 0.18 | 0.007 | 0.09 | 2.5 | 1.1 | 0.08 | 497 | 1.02 | 0.01 |
| A175 |  | 0.44 | 9.9 | 0.64 | 2.14 | <0.05 | <0.02 | 0.21 | 0.009 | 0.06 | 2.8 | 1.4 | 0.09 | 9510 | 1.77 | 0.01 |
| A176 |  | 0.28 | 14.3 | 0.91 | 1.71 | 0.05 | 0.02 | 0.12 | 0.008 | 0.03 | 4.4 | 2.7 | 0.23 | 735 | 1.20 | 0.01 |
| A177 |  | 0.63 | 8.4 | 0.77 | 2.46 | $<0.05$ | <0.02 | 0.32 | 0.006 | 0.08 | 2.5 | 1.6 | 0.09 | 10750 | 1.40 | 0.01 |
| A178 |  | 0.48 | 17.8 | 1.20 | 3.47 | <0.05 | <0.02 | 0.05 | 0.012 | 0.03 | 7.0 | 3.0 | 0.17 | 640 | 0.78 | 0.01 |
| A179 |  | 0.49 | 7.0 | 0.54 | 1.73 | <0.05 | <0.02 | 0.09 | 0.005 | 0.05 | 2.8 | 1.1 | 0.07 | 720 | 0.79 | 0.01 |
| A180 |  | 0.57 | 29.8 | 1.52 | 3.69 | 0.06 | $<0.02$ | 0.16 | 0.016 | 0.09 | 15.6 | 4.8 | 0.28 | 1710 | 1.65 | 0.01 |
| A181 |  | 0.35 | 40.1 | 1.59 | 2.92 | 0.09 | 0.04 | 0.17 | 0.017 | 0.05 | 13.6 | 4.0 | 0.35 | 1060 | 1.48 | 0.02 |
| A182 |  | 0.15 | 32.3 | 0.85 | 1.31 | 0.11 | 0.08 | 0.22 | 0.007 | 0.03 | 10.9 | 1.5 | 0.33 | 416 | 1.10 | 0.02 |
| A183 |  | 0.40 | 39.6 | 1.96 | 2.49 | 0.08 | 0.07 | 0.24 | 0.016 | 0.04 | 13.2 | 3.6 | 0.38 | 491 | 1.37 | 0.01 |
| A184 |  | 0.14 | 48.0 | 1.16 | 1.50 | 0.11 | 0.11 | 0.31 | 0.012 | 0.02 | 20.2 | 1.2 | 0.29 | 1150 | 1.72 | 0.02 |
| A185 |  | 0.16 | 38.4 | 1.08 | 1.45 | 0.10 | 0.08 | 0.32 | 0.010 | 0.04 | 17.4 | 1.5 | 0.30 | 1070 | 1.63 | 0.02 |
| A186 |  | 0.12 | 36.9 | 0.68 | 1.21 | 0.11 | 0.06 | 0.19 | 0.008 | 0.03 | 13.0 | 1.2 | 0.30 | 506 | 1.60 | 0.02 |
| A187 |  | 0.77 | 70.2 | 1.74 | 5.02 | 0.11 | 0.10 | 0.31 | 0.029 | 0.04 | 28.7 | 7.8 | 0.43 | 472 | 1.11 | 0.01 |
| A188 |  | 0.50 | 6.6 | 0.45 | 1.09 | <0.05 | <0.02 | 0.19 | $<0.005$ | 0.05 | 1.8 | 0.9 | 0.09 | 960 | 2.13 | 0.01 |
| A189 |  | 0.37 | 51.2 | 1.42 | 3.04 | 0.12 | 0.05 | 0.30 | 0.019 | 0.05 | 27.9 | 3.1 | 0.31 | 999 | 1.62 | 0.01 |
| A190 |  | 0.62 | 62.3 | 1.81 | 4.35 | 0.12 | 0.10 | 0.31 | 0.024 | 0.05 | 29.7 | 5.6 | 0.47 | 852 | 1.67 | 0.02 |
| A191 |  | 0.36 | 15.2 | 1.32 | 2.42 | <0.05 | <0.02 | 0.15 | 0.009 | 0.08 | 3.1 | 4.4 | 0.24 | 1620 | 2.15 | 0.01 |

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2103 Dollarton Hwy
BC V7H 0A7
ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE
DELTA BC V4K 4W6

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## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \text { Nb } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ni} \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { P } \\ \text { ppril } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Pb } \\ \text { Ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Rb } \\ \text { ppाI } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Re } \\ \text { pprit } \\ 0.001 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sb } \\ \text { ppriו } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sc } \\ \text { ppril } \\ 0.1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Se } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sn } \\ \text { ppril } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Sr } \\ \text { pprin } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Ta } \\ \text { pprit } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Te } \\ \text { ppril } \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Th } \\ \text { pprin } \\ 0.2 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A161 |  | 0.86 | 78.6 | 770 | 7.0 | 15.2 | 0.001 | 0.05 | 0.96 | 6.7 | 1.1 | 1.0 | 73.7 | <0.01 | 0.04 | 0.4 |
| A162 |  | 0.53 | 16.7 | 970 | 6.1 | 6.1 | 0.001 | 0.14 | 0.32 | 1.8 | 0.6 | 0.3 | 103.0 | <0.01 | 0.01 | 0.2 |
| A163 |  | 0.30 | 7.4 | 610 | 5.3 | 3.7 | <0.001 | 0.07 | 0.22 | 0.9 | 0.6 | 0.3 | 58.2 | <0.01 | 0.01 | <0.2 |
| A164 |  | 0.40 | 15.2 | 1060 | 7.7 | 4.9 | <0.001 | 0.13 | 0.31 | 1.4 | 0.6 | 0.3 | 49.5 | <0.01 | 0.02 | 0.2 |
| A165 |  | 0.19 | 5.6 | 810 | 5.7 | 2.4 | <0.001 | 0.10 | 0.22 | 0.5 | 0.5 | 0.4 | 28.2 | <0.01 | <0.01 | <0.2 |
| A166 |  | 0.12 | 11.1 | 850 | 4.9 | 4.7 | <0.001 | 0.09 | 0.18 | 0.2 | 0.6 | 0.3 | 66.6 | <0.01 | 0.02 | <0.2 |
| A167 |  | 0.26 | 6.0 | 610 | 4.4 | 3.2 | <0.001 | 0.07 | 0.22 | 0.5 | 0.5 | 0.4 | 121.0 | <0.01 | 0.01 | $<0.2$ |
| A168 |  | 0.11 | 6.6 | 1060 | 6.6 | 2.3 | <0.001 | 0.06 | 0.21 | 0.2 | 0.7 | 0.4 | 40.8 | <0.01 | 0.01 | $<0.2$ |
| A169 |  | 0.31 | 7.3 | 500 | 6.1 | 2.6 | <0.001 | 0.04 | 0.24 | 0.6 | 0.4 | 0.4 | 41.3 | <0.01 | 0.01 | $<0.2$ |
| A170 |  | 0.12 | 5.1 | 720 | 10.1 | 3.0 | 0.001 | 0.07 | 0.21 | 0.3 | 0.4 | 0.8 | 36.9 | <0.01 | 0.01 | $<0.2$ |
| A171 |  | 0.06 | 6.1 | 770 | 5.0 | 4.5 | 0.001 | 0.03 | 0.19 | 0.1 | 0.4 | 0.3 | 48.0 | <0.01 | 0.01 | <0.2 |
| A172 |  | 0.53 | 21.9 | 880 | 4.2 | 7.3 | 0.001 | 0.06 | 0.51 | 3.1 | 0.8 | 0.4 | 60.0 | <0.01 | 0.02 | 0.2 |
| A173 |  | 0.11 | 7.4 | 900 | 5.2 | 4.0 | <0.001 | 0.11 | 0.17 | 0.3 | 0.5 | 0.8 | 52.6 | $<0.01$ | 0.01 | <0.2 |
| A174 |  | 0.17 | 6.8 | 710 | 7.7 | 3.6 | 0.001 | 0.05 | 0.17 | 0.2 | 0.5 | 0.2 | 37.8 | <0.01 | 0.01 | $<0.2$ |
| A175 |  | 0.20 | 9.3 | 730 | 7.8 | 6.8 | <0.001 | 0.06 | 0.26 | 0.6 | 0.5 | 0.4 | 53.4 | <0.01 | 0.02 | $<0.2$ |
| A176 |  | 0.28 | 12.2 | 920 | 2.5 | 3.3 | 0.001 | 0.12 | 0.54 | 1.1 | 2.7 | 0.3 | 98.7 | <0.01 | 0.01 | <0.2 |
| A177 |  | 0.19 | 7.7 | 610 | 4.6 | 7.5 | <0.001 | 0.05 | 0.27 | 0.5 | 0.6 | 0.3 | 31.1 | <0.01 | 0.02 | <0.2 |
| A178 |  | 0.18 | 12.3 | 410 | 4.1 | 6.2 | <0.001 | 0.02 | 0.29 | 1.0 | 0.6 | 0.4 | 60.3 | <0.01 | 0.01 | <0.2 |
| A179 |  | 0.24 | 5.0 | 340 | 4.8 | 5.4 | <0.001 | 0.03 | 0.25 | 0.7 | 0.3 | 0.4 | 37.0 | <0.01 | 0.01 | <0.2 |
| A180 |  | 0.40 | 22.6 | 1170 | 9.9 | 7.3 | <0.001 | 0.08 | 0.54 | 1.1 | 0.8 | 1.3 | 70.0 | <0.01 | 0.02 | <0.2 |
| A181 |  | 0.42 | 26.1 | 1110 | 5.2 | 5.0 | 0.002 | 0.14 | 1.49 | 1.9 | 1.5 | 0.5 | 108.0 | 0.01 | 0.03 | <0.2 |
| A182 |  | 0.18 | 20.3 | 1190 | 2.4 | 2.2 | 0.002 | 0.23 | 2.17 | 1.8 | 2.7 | 0.4 | 152.5 | <0.01 | 0.01 | 0.2 |
| A183 |  | 0.44 | 25.0 | 1250 | 3.7 | 4.4 | 0.005 | 0.17 | 0.66 | 3.3 | 1.9 | 0.3 | 128.5 | 0.01 | 0.02 | 0.3 |
| A184 |  | 0.25 | 25.4 | 1720 | 2.2 | 1.2 | 0.010 | 0.23 | 1.94 | 3.5 | 4.6 | 0.3 | 157.5 | 0.01 | 0.03 | 0.4 |
| A185 |  | 0.26 | 21.3 | 1480 | 2.9 | 2.2 | 0.007 | 0.21 | 1.64 | 3.0 | 3.5 | 0.4 | 154.0 | 0.01 | 0.02 | 0.3 |
| A186 |  | 0.17 | 24.2 | 1000 | 1.8 | 2.0 | 0.002 | 0.20 | 1.95 | 2.3 | 2.1 | 0.2 | 149.0 | 0.01 | 0.01 | 0.2 |
| A187 |  | 0.69 | 45.4 | 1190 | 4.3 | 4.7 | 0.006 | 0.11 | 0.82 | 6.5 | 2.9 | 0.4 | 77.4 | 0.01 | 0.03 | 0.5 |
| A188 |  | 0.22 | 6.0 | 660 | 5.9 | 3.8 | <0.001 | 0.10 | 0.21 | 0.6 | 0.5 | 0.4 | 58.5 | <0.01 | 0.01 | <0.2 |
| A189 |  | 0.39 | 33.0 | 1050 | 4.5 | 3.3 | 0.003 | 0.14 | 1.20 | 2.6 | 1.8 | 0.4 | 122.0 | 0.01 | 0.02 | 0.2 |
| A190 |  | 0.52 | 41.3 | 1180 | 3.7 | 5.1 | 0.008 | 0.15 | 1.37 | 4.5 | 1.8 | 0.6 | 141.5 | 0.01 | 0.03 | 0.4 |
| A191 |  | 0.44 | 13.0 | 840 | 6.6 | 4.7 | <0.001 | 0.08 | 0.42 | 1.2 | 0.5 | 0.4 | 70.2 | <0.01 | 0.02 | <0.2 |

Total \# Pages: 6 (A - D) Plus Appendix Pages Finalized Date: 14-NOV-2010 Account: MINORE
minerals

## CERTIFICATE OF ANALYSIS VA10146619

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Ti} \\ \% \\ 0.005 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{TI} \\ \text { ppril } \\ 0.02 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { U } \\ 0 p i r 1 \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ V \\ \text { pprin } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { W } \\ \text { ppril } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ Y \\ \text { pprin } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \text { Zn } \\ 0 p ז 1 \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-MS41 } \\ \mathrm{Zr} \\ \mu p m 1 \\ 0.5 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A161 |  | 0.044 | 0.16 | 1.30 | 77 | 0.15 | 12.00 | 111 | 0.6 |
| A162 |  | 0.033 | 0.04 | 0.20 | 30 | 0.11 | 2.69 | 72 | 1.0 |
| A163 |  | 0.021 | 0.03 | 0.10 | 15 | 0.09 | 1.14 | 18 | <0.5 |
| A164 |  | 0.026 | 0.05 | 0.20 | 26 | 0.10 | 1.97 | 76 | 0.7 |
| A165 |  | 0.014 | 0.08 | 0.05 | 11 | 0.07 | 0.51 | 74 | <0.5 |
| A166 |  | 0.005 | 0.11 | 0.06 | 12 | 0.06 | 0.69 | 416 | <0.5 |
| A167 |  | 0.017 | 0.03 | 0.08 | 12 | 0.08 | 0.88 | 124 | <0.5 |
| A168 |  | $<0.005$ | 0.04 | 0.11 | 8 | <0.05 | 0.74 | 56 | <0.5 |
| A169 |  | 0.024 | 0.04 | 0.10 | 23 | 0.08 | 1.01 | 53 | $<0.5$ |
| A170 |  | 0.008 | 0.06 | 0.08 | 5 | $<0.05$ | 0.53 | 91 | $<0.5$ |
| A171 |  | <0.005 | 0.04 | 0.12 | 16 | 0.05 | 0.98 | 22 | <0.5 |
| A172 |  | 0.036 | 0.07 | 0.32 | 43 | 0.10 | 5.71 | 56 | <0.5 |
| A173 |  | 0.006 | 0.12 | 0.06 | 6 | 0.11 | 0.60 | 125 | $<0.5$ |
| A174 |  | 0.009 | 0.04 | 0.10 | 11 | 0.05 | 0.93 | 54 | <0.5 |
| A175 |  | 0.022 | 0.17 | 0.10 | 18 | 0.07 | 1.13 | 87 | <0.5 |
| A176 |  | 0.017 | 0.04 | 0.33 | 19 | 0.06 | 4.08 | 14 | 0.6 |
| A177 |  | 0.024 | 0.12 | 0.11 | 24 | 0.07 | 0.98 | 68 | <0.5 |
| A178 |  | 0.027 | 0.05 | 0.29 | 35 | 0.08 | 6.23 | 23 | <0.5 |
| A179 |  | 0.026 | 0.03 | 0.11 | 19 | 0.07 | 0.99 | 54 | <0.5 |
| A180 |  | 0.018 | 0.08 | 0.48 | 36 | 0.11 | 12.65 | 77 | $<0.5$ |
| A181 |  | 0.015 | 0.08 | 1.13 | 32 | 0.10 | 20.7 | 42 | 0.8 |
| A182 |  | 0.006 | 0.06 | 1.61 | 10 | 0.05 | 16.30 | 16 | 2.3 |
| A183 |  | 0.016 | 0.07 | 1.28 | 34 | 0.08 | 19.60 | 27 | 1.9 |
| A184 |  | 0.008 | 0.10 | 1.91 | 17 | 0.07 | 33.5 | 10 | 2.9 |
| A185 |  | 0.008 | 0.09 | 1.64 | 16 | 0.08 | 27.8 | 19 | 2.0 |
| A186 |  | 0.007 | 0.06 | 1.18 | 9 | 0.05 | 19.70 | 11 | 1.7 |
| A187 |  | 0.025 | 0.17 | 2.21 | 39 | 0.10 | 36.4 | 44 | 2.1 |
| A188 |  | 0.016 | 0.04 | 0.08 | 13 | 0.09 | 0.91 | 19 | <0.5 |
| A189 |  | 0.010 | 0.10 | 1.37 | 23 | 0.12 | 29.5 | 32 | 0.8 |
| A190 |  | 0.014 | 0.12 | 2.38 | 33 | 0.16 | 30.9 | 49 | 2.0 |
| A191 |  | 0.031 | 0.06 | 0.16 | 36 | 0.09 | 1.97 | 61 | <0.5 |

LS Canada Ltd.
103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 6049840221 Fax: 6049840218 www.alsglobal.com
To:ORESTONE MINING CORP. 6410 HOLLY PARK DRIVE

Page: Appendix 1

## CERTIFICATE OF ANALYSIS VA10146619

| Method | CERTIFICATE COMMENTS |
| :---: | :---: |
| ALL METHODS ME-MS41 | NSS is non-sufficient sample. <br> Gold determinations by this method are semi-quantitative due to the small sample weight used ( 0.5 g ). |

## Response Ratios



| A35 | 439615 | 6076042 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 p |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A36 | 439662 | 6076067 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 g |  |
| A37 | 439702 | 6076086 | 2 | 4 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 6 | 2 | 3 g |  |
| A38 | 439752 | 6076122 | 9 | 1 | 2 | 0 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 g |  |
| A39 | 439753 | 6076122 | 4 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 g | double of A38 |
| A40 | 439796 | 6076144 | 9 | 5 | 7 | 2 | 2 | 3 | 5 | 2 | 3 | 4 |  | 10 | 1 | 11 g |  |
| A41 | 439839 | 6076166 | 4 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 g |  |
| A42 | 439889 | 6076191 | 2 | 1 | 2 | 0 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 2 p |  |
| A43 | 439933 | 6076225 | 2 | 1 | 1 | 0 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 p |  |
| A44 | 439979 | 6076254 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 3 | 2 | 1 p |  |
| A45 | 440021 | 6076276 | 5 | 5 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 4 | 2 | 8 | 2 | 5 p |  |
| A46 | 440066 | 6076291 | 3 | 4 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 4 p |  |
| A47 | 440115 | 6076319 | 2 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 5 | 2 | 4 p |  |
| A48 | 440230 | 6076343 | 9 | 2 | 2 | 0 | 1 | 1 | 2 | 1 | 3 | 2 | 1 | 2 | 3 | 2 p |  |
| A49 | 440202 | 6076368 | 5 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 4 | 3 f |  |
| A50 | 440201 | 6076367 | 2 | 4 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 7 | 3 | 4 p | double of A49 |
| A51 | 440249 | 6076408 | 4 | 3 | 3 | 0 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 5 | 3 | 3 g |  |
| A52 | 440291 | 6076425 | 3 | 6 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 |  | 12 | 7 | 4 g |  |
| A53 | 440335 | 6076455 | 4 | 2 | 3 | 1 | 2 | 4 | 1 | 2 | 4 | 2 | 1 | 6 | 6 | 2 g |  |
| A54 | 440380 | 6076485 | 3 | 3 | 4 | 0 | 2 | 2 | 2 | 1 | 3 | 5 | 1 | 3 | 5 | 2 g |  |
| A55 | 440436 | 6076509 | 5 | 3 | 2 | 0 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 6 | 4 | 2 p |  |
| A56 | 440471 | 6076530 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 3 f |  |
| A57 | 440515 | 6076552 | 3 | 6 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 7 | 3 | 4 p |  |
| A58 | 440563 | 6076582 | 4 | 4 | 2 | 1 | 2 | 2 | 2 | 3 | 4 | 2 | 1 | 5 | 4 | 3 g |  |
| A59 | 440606 | 6076601 | 1 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 7 | 2 | 4 f |  |
| A60 | 440648 | 6076631 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 3 | 2 | 1 | 4 | 1 f |  |
| A61 | 440647 | 6076631 | 67 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 f |  |
| A62 | 440697 | 6076653 | 2 | 1 | 1 | 0 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 f | double of A60 |
| A63 | 440739 | 6076686 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 2 f |  |
| A64 | 440786 | 6076710 | 999 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 4 | 2 | 1 vg |  |
| A65 | 440826 | 6076738 | 3 | 3 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 g |  |
| A66 | 440871 | 6076757 | 1 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 4 | 1 | 2 g |  |
| A67 | 440922 | 6076776 | 2 | 5 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 9 | 4 | 3 g |  |
| A68 | 440969 | 6076806 | 1 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 5 | 2 | 2 g |  |
| A69 | 441006 | 6076823 | 2 | 4 | 1 | 2 | 2 | 4 | 1 | 2 | 2 | 2 | 2 | 8 | 3 | 3 g |  |
| A70 | 441054 | 6076848 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 1 g |  |


| A71 | 440610 | 6076056 | 6 | 3 | 1 | 1 | 0 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 2 p |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A72 | 440641 | 6076079 | 3 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 g |  |
| A73 | 440704 | 6076105 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 p |  |
| A74 | 440740 | 6076122 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 g |  |
| A75 | 440794 | 6076158 | 1 | 2 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 p |  |
| A76 | 440794 | 6076153 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 g | double of A75 |
| A77 | 440849 | 6076181 | 2 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 f |  |
| A78 | 440883 | 6076211 | 4 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 2 f |  |
| A79 | 440941 | 6076257 | 1 | 4 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 5 | 1 | 3 f |  |
| A80 | 440998 | 6076259 | 999 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 9 | 1 | 1 g |  |
| A81 | 441055 | 60762619 | 999 | 3 | 1 | 1 | 1 | 3 | 1 | 2 | 2 | 1 |  | 11 | 1 | 3 g |  |
| A82 | 441101 | 6076266 | 4 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 g |  |
| A83 | 441148 | 6076272 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 2 f |  |
| A84 | 441195 | 6076275 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 5 | 1 | 3 g |  |
| A85 | 441242 | 6076279 | 2 | 1 | 1 | 0 | 2 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 g |  |
| A86 | 441297 | 6076288 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 2 g |  |
| A87 | 441296 | 6076289 | 6 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 g | double of A86 |
| A88 | 441346 | 6076293 | 5 | 1 | 1 | 1 | 4 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 2 g |  |
| A89 | 441397 | 6076300 | 4 | 7 | 1 | 1 | 2 | 3 | 7 | 2 | 1 | 3 | 2 | 9 | 1 | 5 g |  |
| A90 | 441449 | 6076303 | 7 | 4 | 1 | 2 | 2 | 4 | 36 | 2 | 2 | 2 | 1 | 7 | 2 | 3 f |  |
| A91 | 441498 | 6076314 | 3 | 5 | 2 | 2 | 2 | 4 | 3 | 2 | 1 | 3 | 2 | 7 | 1 | 6 g |  |
| A92 | 441543 | 6076317 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 p |  |
| A93 | 441601 | 6076327 | 3 | 1 | 3 | 0 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 1 | 1 | 2 f |  |
| A94 | 441650 | 6076325 | 4 | 5 | 1 | 1 | 2 | 5 | 3 | 2 | 1 | 5 |  | 15 | 2 | 6 g |  |
| A95 | 441703 | 6076334 | 2 | 2 | 2 | 0 | 1 | 2 | 4 | 1 | 1 | 2 | 2 | 3 | 1 | 2 g |  |
| A96 | 441748 | 6076332 | 3 | 6 | 1 | 1 | 2 | 3 | 3 | 2 | 1 | 4 |  | 22 | 3 | 7 g |  |
| A97 | 441797 | 6076338 | 1 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 p |  |
| A98 | 441798 | 6076339 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 1 p | double of A97 |
| A99 | 441849 | 6076341 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 p |  |
| A100 | 441903 | 6076349 | 0 | 2 | 2 | 1 | 1 | 5 | 1 | 1 | 2 | 1 | 3 | 2 | 1 | 1 p |  |
| A101 | 441954 | 6076352 | 2 | 5 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 4 p |  |
| A102 | 442001 | 6076350 | 2 | 2 | 2 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 3 | 2 | 2 p |  |
| A103 | 442053 | 6076362 | 1 | 4 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 4 p |  |
| A104 | 439253 | 6075861 | 5 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 3 g |  |
| A105 | 439201 | 6075856 | 6 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 4 | 2 | 3 p |  |
| A106 | 439157 | 6075866 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 f |  |


| A107 | 439094 | 6075871 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 11 | 1 | 1 f |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A108 | 439032 | 6075857 | 3 | 2 | 2 | 0 | 2 | 2 | 3 | 2 | 2 | 4 | 21 | 3 | 2 p |  |
| A109 | 439028 | 6075854 | 1 | 1 | 2 | 0 | 1 | 1 | 2 | 2 | 4 | 15 | 21 | 6 | 1 p | double of A108 |
| A110 | 438983 | 6075863 | 10 | 2 | 1 | 0 | 2 | 1 | 2 | 1 | 2 | 7 | 11 | 3 | 2 f |  |
| A111 | 438955 | 6075856 | 4 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 3 | 21 | 2 | 2 p |  |
| A112 | 438910 | 6075872 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 11 | 1 | 1 p |  |
| A113 | 438852 | 6075897 | 5 | 3 | 1 | 1 | 2 | 1 | 3 | 2 | 5 | 1 | 13 | 4 | 4 vg |  |
| A114 | 438819 | 6075941 | 5 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 21 | 2 | 1 p |  |
| A115 | 438761 | 6075952 | 5 | 3 | 3 | 0 | 3 | 2 | 4 | 3 | 2 | 2 | 13 | 4 | 4 g |  |
| A116 | 438713 | 6075986 | 5 | 6 | 2 | 1 | 2 | 2 | 5 | 7 | 3 | 2 | 111 | 8 | 4 vg |  |
| A117 | 438661 | 6076012 | 4 | 1 | 2 | 0 | 1 | 1 | 2 | 1 | 2 | 2 | 11 | 2 | 1 f |  |
| A118 | 438619 | 6076056 | 15 | 7 | 5 | 1 | 2 | 2 | 5 | 5 | 3 | 5 | 29 | 4 | 6 f |  |
| A119 | 438576 | 6076065 | 3 | 1 | 3 | 0 | 1 | 2 | 1 | 2 | 2 | 1 | 91 | 1 | 1 p |  |
| A120 | 438576 | 6076065 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 23 | 1 | 2 p | double of A120 |
| A121 | 438504 | 6076089 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 3 | 21 | 2 | 1 p |  |
| A122 | 438456 | 6076109 | 5 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 22 | 2 | 2 p |  |
| A123 | 438400 | 6076100 | 3 | 2 | 3 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 21 | 2 | 2 p |  |
| A124 | 438346 | 6076096 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 12 | 1 | 1 f |  |
| A125 | 438300 | 6076097 | 4 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 23 | 1 | 3 f |  |
| A126 | 438252 | 6076094 | 5 | 1 | 3 | 2 | 1 | 1 | 5 | 1 | 2 | 2 | 11 | 2 | 1 f |  |
| A127 | 438185 | 6076079 | 13 | 3 | 3 | 3 | 2 | 2 | 13 | 3 | 4 | 2 | 25 | 2 | 3 f |  |
| A128 | 438133 | 6076079 | 4 | 1 | 3 | 0 | 2 | 2 | 5 | 2 | 1 | 2 | 13 | 1 | 3 f |  |
| A129 | 438084 | 6076065 | 3 | 4 | 5 | 1 | 3 | 2 | 6 | 3 | 2 | 4 | 116 | 2 | 5 vg |  |
| A130 | 438054 | 6076078 | 7 | 9 | 2 | 2 | 3 | 3 | 8 | 3 | 1 | 6 | 226 | 3 | 6 vg |  |
| A131 | 438053 | 6076079 | 7 | 6 | 2 | 2 | 2 | 2 | 5 | 3 | 2 | 5 | 119 | 3 | 5 vg | double of A130 |
| A132 | 438005 | 6076054 | 4 | 1 | 3 | 1 | 2 | 1 | 4 | 2 | 3 | 2 | 14 | 3 | 1 f |  |
| A133 | 437950 | 6076056 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 22 | 1 | 1 f |  |
| A134 | 437902 | 6076059 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 11 | 1 | 1 p |  |
| A135 | 437845 | 6076063 | 6 | 2 | 2 | 1 | 2 | 1 | 7 | 2 | 2 | 1 | 22 | 1 | 2 f |  |
| A136 | 437802 | 6076033 | 2 | 1 | 2 | 1 | 4 | 1 | 4 | 1 | 2 | 2 | 12 | 2 | 1 g |  |
| A137 | 437749 | 6076025 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 11 | 5 | 1 vg |  |
| A138 | 437709 | 6075994 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 4 | 2 | 15 | 6 | 2 g |  |
| A139 | 437649 | 6075935 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 11 | 2 | 1 f |  |
| A140 | 437591 | 6075923 | 15 | 18 | 2 | 1 | 4 | 3 | 7 | 3 | 1 | 4 | 234 | 3 | 8 vg |  |
| A141 | 437553 | 6075901 | 30 | 4 | 7 | 1 | 2 | 2 | 7 | 4 | 3 | 2 | 167 | 9 | 4 vg |  |
| A142 | 437502 | 6075884 | 41 | 3 | 4 | 1 | 3 | 1 | 5 | 3 | 6 | 1 | 13 | 10 | 3 vg |  |


| A143 | 437456 | 6075828 | 9 | 2 | 2 | 0 | 2 | 1 | 3 | 2 | 4 | 1 |  | 12 | 7 | 2 g |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A144 | 437405 | 6075697 | 6 | 5 | 3 | 1 | 2 | 2 | 7 | 2 | 2 | 3 |  | 28 | 3 | 6 g |  |
| A145 | 437411 | 6075604 | 4 | 2 | 4 | 2 | 2 | 1 | 2 | 1 | 3 | 4 |  | 21 | 4 | 2 g |  |
| A146 | 437359 | 6075591 | 6 | 4 | 3 | 1 | 2 | 1 | 6 | 2 | 4 | 6 |  | 14 | 6 | 4 p |  |
| A147 | 437297 | 6075462 | 4 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 |  | 13 | 2 | 2 g |  |
| A148 | 437236 | 6075469 | 3 | 1 | 3 | 1 | 2 | 1 | 2 | 2 | 2 | 2 |  | 21 | 3 | 1 f |  |
| A149 | 437172 | 6075447 | 5 | 1 | 3 | 1 | 2 | 1 | 2 | 2 | 1 | 1 |  | 11 | 2 | 1 f |  |
| A150 | 437171 | 6075453 | 4 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 2 |  | 11 | 2 | 1 f | double of A149 |
| A151 | 437119 | 6075437 | 1 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 |  | 22 | 2 | 2 p |  |
| A152 | 437063 | 6075426 | 0 | 1 | 2 | 1 | 1 | 4 | 2 | 1 | 3 | 2 |  | 21 | 2 | 1 f |  |
| A153 | 437014 | 6075427 | 0 | 3 | 3 | 1 | 2 | 2 | 9 | 2 | 3 | 2 |  | 32 | 2 | 2 f |  |
| A154 | 436967 | 6075427 | 0 | 5 | 2 | 1 | 7 | 4 | 3 | 4 | 3 | 1 |  | 110 | 9 | 2 vg |  |
| A155 | 436923 | 6075422 | 0 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 4 |  | 21 | 3 | 3 p |  |
| A156 | 436880 | 6075404 | 0 | 1 | 1 | 2 | 1 | 4 | 1 | 2 | 2 | 2 |  | 21 | 1 | 1 f |  |
| A157 | 436843 | 6075367 | 0 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 4 |  | 21 | 3 | 2 f |  |
| A158 | 436740 | 6075371 | 0 | 2 | 4 | 1 | 2 | 3 | 3 | 2 | 2 | 3 |  | 22 | 2 | 2 p |  |
| A159 | 436641 | 6075293 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |  | 1 | 2 | 1 f |  |
| A160 | 436573 | 6075269 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 2 |  | 11 | 3 | 1 f |  |
| A161 | 436433 | 6075241 | 3 | 10 | 3 | 1 | 3 | 5 | 17 | 5 | 1 | 4 |  | 213 | 3 | 7 vg |  |
| A162 | 436437 | 6075242 | 3 | 3 | 4 | 0 | 2 | 2 | 3 | 2 | 4 | 3 |  | 2 | 5 | 2 g | double of A161 |
| A163 | 436332 | 6075045 | 1 | 1 | 2 | 0 | 2 | 2 | 1 | 1 | 2 | 1 |  | 11 | 2 | 1 vg |  |
| A164 | 436255 | 6074921 | 5 | 2 | 5 | 0 | 2 | 2 | 2 | 2 | 4 | 3 |  | 22 | 5 | 2 g |  |
| A165 | 438445 | 6076845 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | 3 |  | 11 | 2 | 1 vg |  |
| A166 | 438404 | 6076815 | 0 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 17 |  | 11 | 4 | 1 vg |  |
| A167 | 438483 | 6076882 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 5 |  | 1 | 4 | 1 g |  |
| A168 | 438510 | 6076951 | 1 | 1 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 2 |  | 21 | 2 | 1 g |  |
| A169 | 438507 | 6077008 | 1 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 2 |  | 11 | 2 | 1 g |  |
| A170 | 438354 | 6076790 | 999 | 1 | 1 | 1 | 0 | 4 | 1 | 1 | 2 | 4 |  | 21 | 3 | 0 f |  |
| A171 | 438304 | 6076760 | 4 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |  | 11 | 2 | 1 f |  |
| A172 | 438256 | 6076729 | 7 | 3 | 2 | 0 | 2 | 2 | 3 | 3 | 2 | 2 |  | 13 | 3 | 3 vg |  |
| A173 | 438192 | 6076690 | 999 | 1 | 1 | 1 | 2 | 4 | 5 | 1 | 3 | 5 |  | 11 | 3 | 0 vg |  |
| A174 | 438141 | 6076688 | 4 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 2 |  | 21 | 2 | 1 p |  |
| A175 | 438144 | 6076687 | 0 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 3 |  | 21 | 3 | 1 f | double of A174 |
| A176 | 438003 | 6076777 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | 1 |  | 13 | 9 | 2 vg |  |
| A177 | 437951 | 6076750 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 3 |  | 11 | 1 | 1 g |  |
| A178 | 437904 | 6076737 | 2 | 2 | 1 | 0 | 1 | 2 | 2 | 1 | 1 | 1 |  | 13 | 2 | 2 g |  |


| A 179 | 437845 | 6076717 | 1 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 p |
| :--- | :--- | :--- | :--- | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A 180 | 437804 | 6076702 | 1 | 4 | 2 | 1 | 2 | 7 | 3 | 3 | 2 | 3 | 2 | 5 | 3 | 3 p |
| A 181 | 437746 | 6076676 | 999 | 5 | 2 | 1 | 2 | 3 | 4 | 8 | 4 | 2 | 1 | 11 | 6 | 3 vg |
| A 182 | 437698 | 6076657 | 5 | 4 | 1 | 1 | 1 | 2 | 2 | 11 | 6 | 1 | 1 | 16 | 12 | 2 vg |
| A 183 | 437599 | 6076633 | 6 | 5 | 2 | 1 | 1 | 2 | 4 | 3 | 5 | 1 | 1 | 13 | 7 | 4 vg |
| A 184 | 437601 | 6076631 | 10 | 6 | 2 | 2 | 1 | 2 | 3 | 10 | 6 | 0 | 1 | 19 | 10 | 2 vg |
| A 185 | 437599 | 6076632 | 8 | 5 | 2 | 1 | 1 | 2 | 3 | 8 | 6 | 1 | 1 | 17 | 9 | 2 vg |
| A 186 | 437550 | 6076624 | 5 | 4 | 2 | 1 | 1 | 1 | 2 | 10 | 5 | 0 | 0 | 12 | 10 | 1 vg |
| A 187 | 437492 | 6076614 | 23 | 8 | 1 | 3 | 2 | 2 | 3 | 4 | 3 | 2 | 1 | 22 | 3 | 3 vg |
| A 188 | 437452 | 6076574 | 1 | 1 | 3 | 0 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 3 | 1 p |
| A 189 | 437397 | 6076559 | 5 | 6 | 2 | 2 | 2 | 2 | 3 | 6 | 4 | 1 | 1 | 14 | 6 | 3 g |
| A 190 | 437347 | 6076550 | 6 | 8 | 2 | 2 | 3 | 3 | 4 | 7 | 4 | 2 | 1 | 24 | 7 | 3 g |
| A 191 | 437300 | 6076535 | 1 | 2 | 3 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 g |

double of A184


Appendix iv Map of Ah Soils $\mathrm{Cu}+\mathrm{Au}$ Response Ratios East half and PDH09-02 and DDH09-05


Appendix iV
Map of $A_{h}$ Soils Cu + Au Response Ratios
and

## A LOGISTICS REPORT

## ON

# INDUCED POLARIZATION SURVEYING 

CAPTAIN PROJECT<br>Fort St. James Area, British Columbia<br>$54^{\circ} 49^{\prime} \mathrm{N}, 123^{\circ} 57^{\prime} \mathrm{W}$<br>Omineca Mining Division

for

ORESTONE MINING CORP.
Surrey, British Columbia

> by

PETER E. WALCOTT \& ASSOCIATES LIMITED
Vancouver, British Columbia

APRIL 2011

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## APPENDIX

Cost of Survey
Personnel Employed on Survey

| Line Location Map | $1: 5,000$ |
| :--- | ---: |
| Line 76001 |  |


| Pseudosection Plots | $1: 5,000$ |
| :--- | ---: |
| Line 76001 |  |


| Magnetic Profile | $1: 5,000$ |
| :--- | ---: |
| Line 76001 |  |

## INTRODUCTION.

From July $9^{\text {th }}$ to July $11^{\text {th }}, 2010$, Peter E. Walcott \& Associates conducted a reconnaissance induced polarization (IP) survey on a single 5 kilometre road line on Orestone’s Captain Property.

The crew was based out of Fort St. James, British Columbia. The one-way travel time to approximately 1 hour ( 75 kilometres)

The survey line was established by the geophysics crew and flagged at 50 metre intervals.
A pole-dipole array was employed measuring a total of 6 dipoles ( $n=1,2,3,4,5$ and 6 ) with a dipole separation of 50 metres ( $a=50$ metres).

A magnetic survey was also conducted over the same grid at 25 metre stations.
In addition, the elevations and horizontal positions of the line stations were measured using a Brunton altimeter and a Garmin handheld GPS unit.

## PURPOSE

The purpose of the survey was to locate and identify chargeability, resistivity and magnetic responses associated with a copper porphyry system.

## PROPERTY LOCATION AND ACCESS

The property is located some 60 kilometres north of the town of Fort St. James. Access to the survey was gained via Highway 27 North for some 75 kilometres, then easterly along a forestry spur road which was surveyed.


Figure 1 - General Survey Area

## PROPERTY LOCATION AND ACCESS con't



Figure 2 - Survey Block Locations

## SURVEY SPECIFICATIONS.

## The Induced Polarization Survey.

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Androtex of Toronto, Canada, and Iris Instruments of Orleans, France.

The system consists basically of three units, a receiver (Iris), transmitter (Androtex) and a motor generator (Honda). The transmitter, which provides a maximum of 7.5 kw d.c. to the ground, obtains its power from a 12 kw 400 c.p.s. alternator driven by a Honda 20 h.p. gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes $\mathrm{C}_{1}$ and $\mathrm{C}_{2}$, the primary voltages $(\mathrm{V})$ appearing between any two potential electrodes, $\mathrm{P}_{1}$ through $\mathrm{P}_{7}$, during the "current-on" part of the cycle, and the apparent chargeability, $\left(\mathrm{M}_{\mathrm{a}}\right)$ presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor - the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity ( $\int_{\mathrm{a}}$ ) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, $\mathrm{C}_{1}$, and the potential electrodes, $\mathrm{P}_{1}$ through $\mathrm{P}_{7}$, are moved in unison

## SURVEY SPECIFICATIONS cont'd

along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, $\mathrm{C}_{2}$, is kept constant at "infinity". The distance, "na" between $\mathrm{C}_{1}$ and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse.

On this survey a 50 metre dipole was employed and first to sixth separation readings were obtained.

## The Magentic Survey.

The magnetic survey was carried out using a GSM 19 proton precession magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario. This instrument measures variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla. Corrections for daily variations in the earth's field - the diurnal were made by comparison with a similar instrument set up at a fixed location - the base where recordings were made at 10 second intervals. On this survey readings were recorded at 25 metre intervals.

## Horizontal control.

The horizontal position of the stations were recorded using a Garmin GPSmap 60CSx.

## Vertical Control.

The elevation of the stations were recorded using a Suunto altimeter. This instrument measures elevations using barometric pressures to an accuracy of plus or minus 3 metres. Corrections for errors due to variations in atmospheric pressure were made by comparison to readings obtained on an ADC Summit altimeter manufactured by Brunton of Wyoming, U.S.A. used as a base station and taking readings at 15 minute intervals.

Respectfully submitted,

## PETER E. WALCOTT \& ASSOCIATES LIMITED

## Vancouver, B.C. April 2010

## APPENDIX

## COST OF SURVEY

Peter E. Walcott \& Associates Limited undertook survey on daily basis providing a geophysicist, operator, four assistants, IP system and a $4 \times 4$ truck at $\$ 3,250.00$ per day, reporting of $\$ 300.00$. Room and board and fuel were billed at cost so that the total cost of services provided was \$ 9.336.76.

## PERSONNEL EMPLOYED ON SURVEY

Name Occupation

Address Dates Worked

| Alexander Walcott | Geophysicist | Peter E. Walcott \& | Aug. 20th , |
| :--- | :--- | :--- | :--- |
|  |  | Associates Limited | Nov 1st - 3rd, |
|  | $608-1529$ W. 2nd Ave., 2010, April 11th |  |  |
|  |  | Vancouver, B.C. | 2011 |
|  |  | V6J 1H2 |  |

Andrea Cochrane
C. Pearson

Casey Pearson
Geophysical
Assistant

Geophysical Operator
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July10th - 12th, 2010

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