

GM 70636

Report on exploration activities 2016, Ruby Hill west project

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Énergie et Ressources
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Québec 

National Instrument 43-101
Technical Report

RUBY HILL WEST PROJECT

REPORT ON EXPLORATION ACTIVITIES 2016

for

EASTMAIN RESOURCES INC.

Prepare by:

David Frappier-Rivard (P.Geol, B.Sc)

June 29th, 2017

DATE AND SIGNATURE PAGE

I, David Frappier-Rivard, B.Sc, P.Geo, of 1550 Sommet-vert, Val-David, Quebec, do hereby certify that:

1. I am a practicing geologist.
2. I graduated with a Bachelors of Science (Geology), from the University of Quebec in Montreal in 1999.
3. I am a member of the Ordre des Géologues du Québec (OGQ No. 754).
4. I have worked as a geologist for a total of 16 years since my graduation from university.
5. I have read the definition of "qualified person", set out in National Instrument 43-101 (NI 43-101), and certify that by reason of my education, affiliation with a professional association (as defined by NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
6. I am responsible for the supervision of the technical report titled "Ruby Hill West Project, Report on Exploration Activities in 2016 for Eastmain Resources Inc.", (the "Technical Report") relating to the Project. I reviewed the geochemical data completed on the project in 2014.
7. I have had prior involvement with the property that is the subject of the Technical Report.
8. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
9. I am project geologist with Eastmain Resources Inc, since 2013.
10. I have read National Instrument 43-101 and Form 43-101FI, and the Technical Report has been prepared in compliance with that instrument and form.
11. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of the Technical Report.

Dated this 26th day of April, 2017.

Signed



TABLE OF CONTENT

DATE AND SIGNATURE PAGE	2
TABLE OF CONTENT	4
LIST OF TABLES, FIGURE & APPENDICES	5
1.0 SUMMARY	6
2.0 INTRODUCTION AND TERMS OF REFERENCE	7
2.1 Purpose of the report.....	7
2.2 Field Examination.....	7
2.3 Units & projections.....	7
2.4 Glossary and abbreviation of terms	7
3.0 RELIANCE ON OTHER EXPERTS.....	8
5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY.....	15
6.0 HISTORY	17
7.0 GEOLOGICAL SETTING AND MINERALIZATION	20
7.1 Regional Geology	20
7.2 Property Geology.....	20
8.0 DEPOSIT TYPES.....	23
9.0 EXPLORATION	23
9.1 Prospecting.....	23
11.0 SAMPLE PREPARATION, SECURITY AND ANALYSIS	28
11.1 Sample Preparation	28
11.3 Analysis	28
12.0 DATA VERIFICATION	31
12.1 Internal ALS-Chemex Quality Control Procedures	31
12.2 Internal Eastmain Quality Control Procedure.....	31
13.0 MINERAL PROCESSING AND METALLURGICAL TESTING.....	33
14.0 MINERAL RESOURCE ESTIMATES.....	34
15.0 ADJACENT PROPERTIES	35
16.0 OTHER RELEVANT DATA AND INFORMATION	36
17.0 INTERPRETATIONS AND CONCLUSIONS.....	37
18.0 RECOMMENDATIONS.....	38
19.0 REFERENCES	39

LIST OF TABLES, FIGURE & APPENDICES

TABLES

<i>Table 1: List of claims</i>	9
<i>Table 2: Summary of prospecting samples with gold assay values greater than 100 ppb</i>	25
<i>Table 2: Summary of prospecting samples with anomalous lithium values</i>	25
<i>Table 4: Lower and upper detection limits for the « ME-MS61 » assay method</i>	30
<i>Table 5: Results from control reference material (CRM)</i>	32

FIGURES

<i>Figure 1: Claims Map</i>	14
<i>Figure 2: Location and Access</i>	16
<i>Figure 3: Regional Geology</i>	21
<i>Figure 4: Property Geology</i>	22
<i>Figure 5: Grab sample results: Au, Li</i>	26

APPENDICES

<i>Appendix 1:</i>	<i>Sample Data</i>
<i>Appendix 2:</i>	<i>Outcrop Data</i>
<i>Appendix 3:</i>	<i>Assay Certificates</i>
<i>Appendix 2:</i>	<i>Sample Location Map</i>

1.0 SUMMARY

The Ruby Hill West property is located approximately 800 km north of Montreal, 320 km north-northeast of Chibougamau and 160 km north of Temiscamie, Quebec. The claim block consists of 180 contiguous claim cells centered about Longitude 72°33'W and Latitude 52°18'N on NTS sheets 33A/07 and 33A/08. The project lies within the Upper Eastmain River Greenstone belt of James Bay, Quebec in the Eeyou Istche administrative area. The eastern limit of the property is located approximately 18 km west of the Eastmain mine deposit. Eastmain holds a 100% interest in the Ruby Hill West property.

The Ruby Hill West property is located in the Superior Province, more precisely in the Opatika subprovince. The Volcano-plutonic Opatika subprovince is composed in majority of intrusive rocks with minor volcano-sedimentary sequences, ranging in ages from 2.82 Ga to 2.68 Ga. Eastmain's property is part of the west limb of the Upper Eastmain River Greenstone belt

This report summarizes recent exploration activities and discloses the results from the 15 days exploration program that took place between July 21st and August 4th, 2016. The Exploration work, consisting of geological mapping and prospecting, was carried-out by Eastmain's personnel (3 geologists and 2 technicians). A total of 237 outcrops were described and 158 grab samples were collected. The rock samples were taken to ALS Minerals laboratories in Sudbury (Ontario) for analysis.

From the 158 collected samples, 7 returned gold values greater than 100 ppb, among which 4 assayed more than 1 g/t gold. The best gold value obtained is 18.15 g/t. The gold mineralization is associated with arsenopyrite and is interpreted by the author as being the geological continuity of the EXKO showing (3.55 g/t Au; 17.0 g/t Ag; 0.12% Cu) discovered by the Eastmain Syndicate in 1989.

In the western part of the claim block, a spodumene-bearing pegmatite dyke returned values ranging from 0.50% to 2.19% Li with very anomalous Tantalum, Cesium and Rubidium values.

The following recommendations are based on the recent exploration activity and a review of the existing data from previous work completed on the property:

1. All historical work conducted on the EXKO showing are should be re-evaluated. And geophysical survey should be considered to better define the mineralized area.
2. Areas surrounding known gold showings should undergo additional prospecting and trenching to further delineate the extent and controls of mineralization.
3. Follow-up prospecting should be focus on the spodumene-bearing pegmatite to better evaluate the lithium potential of the property.

2.0 INTRODUCTION AND TERMS OF REFERENCE

2.1 Purpose of the report

This technical report has been prepared by the author, David Frappier-Rivard, for Eastmain Resources Inc. It presents the status of current geological knowledge in regards to the property and provides, on the basis of the exploration results, recommendations for future work. It also serves as an internal reference document for the Company. The content of this technical report disclose data acquired during the exploration activities carried out on the Ruby Hill West property during the summer of 2016.

2.2 Field Examination

David Frappier-Rivard (B.Sc, P.Geo) is the author of the current report and is the qualified person for the information contained in this report, as defined by section 1.1 of the National Instrument 43-101. Mr. Frappier-Rivard was on-site during the 2016 exploration program. He supervised the exploration work in the field.

2.3 Units & projections

Unless otherwise stated, all units in this report are metric. Gold assay values are reported in parts per billion (ppb), unless another unit is stated.

The property is located in UTM zone 18. As such, all work uses map datum NAD 83, unless another projection is specified.

2.4 Glossary and abbreviation of terms

« Au »	Gold
« E »	East
« ha »	Hectare
« km »	Kilometre
« m »	Metre
« N »	North
« NE »	Northeast
« NI 43-101 »	Canadian Securities Administrators National Instrument 43-101
« NTS »	National Topographic System
« NW »	Northwest.
« ppb »	Parts per billion
« ppm »	Parts per million
« property »	Ruby Hill West property or project
« S »	South
« SE »	Southeast
« SW »	Southwest
« UTM »	Universal Transverse Mercator
« W »	West

3.0 RELIANCE ON OTHER EXPERTS

The author did not rely on any other expert in the preparation and redaction of this report. David Frappier-Rivard, the author, is responsible for all the section of this technical report.

4.0 PROPERTY DESCRIPTION AND LOCATION

The Ruby Hill West property is situated in the James Bay district of Quebec, 800 km north of Montreal, 320 km north-northeast of Chibougamau and 160 km north of Temiscamie, centered about Longitude 72°33' W and Latitude 52°18' N. The property consists of 180 contiguous mineral claims across NTS map sheets 33A/07 and 33A/08 and has a total area of 9485.42 hectares (Table 1, Figure 1). The claims form a block of 4 km wide north-south by 24 km long east-northeast.

Eastmain Resources Inc. owns 100% interest in the property. All claims are in good standing and renewal of the claims is due on May 17, 2018, July 13, 2018, February 6, 2019 and July 2, 2019.

Table 1: List of Claims – Ruby Hill West Property

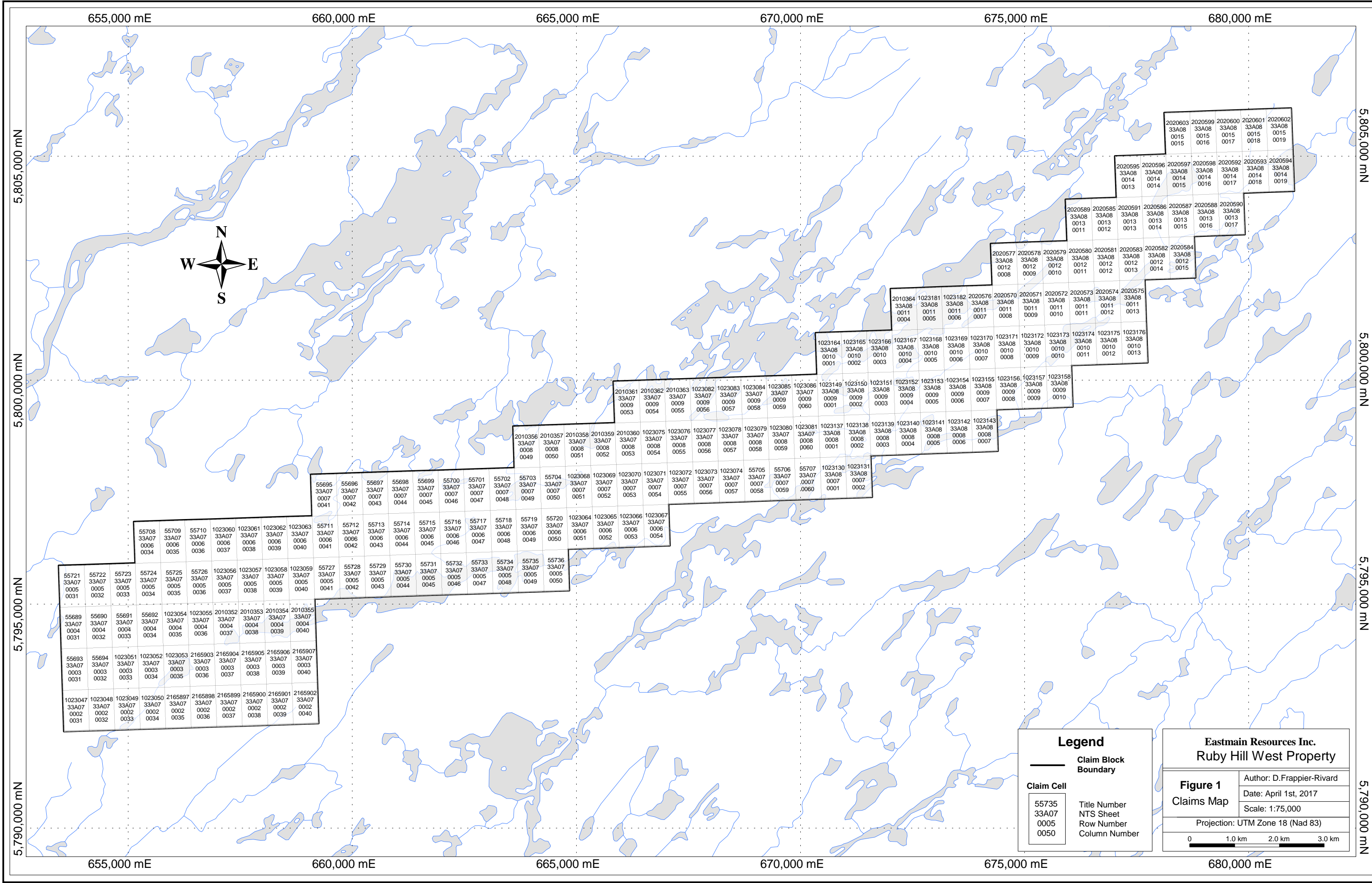
Title No.	Area (Ha)	NTS Sheet	Inscription Date	Expiration Date	Excess Work (\$)
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55691	52.73	33A07	2/7/2005 0:00	2/6/2019 23:59	\$1,011.97
55692	52.73	33A07	2/7/2005 0:00	2/6/2019 23:59	\$0.00
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55694	52.74	33A07	2/7/2005 0:00	2/6/2019 23:59	\$0.00
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55711	52.71	33A07	2/7/2005 0:00	2/6/2019 23:59	\$4,088.69
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55722	52.72	33A07	2/7/2005 0:00	2/6/2019 23:59	\$4,506.97
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2010363	52.68	33A07	5/18/2006 0:00	5/17/2018 23:59	\$1,340.99
2010364	52.67	33A08	5/18/2006 0:00	5/17/2018 23:59	\$1,326.19
2020570	52.67	33A08	7/14/2008 0:00	7/13/2018 23:59	\$20,008.03
2020571	52.67	33A08	7/14/2008 0:00	7/13/2018 23:59	\$8,301.62
2020572	52.67	33A08	7/14/2008 0:00	7/13/2018 23:59	\$3,080.18
2020573	52.67	33A08	7/14/2008 0:00	7/13/2018 23:59	\$11,560.51
2020574	52.67	33A08	7/14/2008 0:00	7/13/2018 23:59	\$1,300.96
2020575	52.67	33A08	7/14/2008 0:00	7/13/2018 23:59	\$1,300.96
2020576	52.67	33A08	7/14/2008 0:00	7/13/2018 23:59	\$17,170.19
2020577	52.66	33A08	7/14/2008 0:00	7/13/2018 23:59	\$1,325.71
2020578	52.66	33A08	7/14/2008 0:00	7/13/2018 23:59	\$1,325.71
2020579	52.66	33A08	7/14/2008 0:00	7/13/2018 23:59	\$1,765.40
2020580	52.66	33A08	7/14/2008 0:00	7/13/2018 23:59	\$1,325.71
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2165899	52.75	33A07	7/14/2008 0:00	7/13/2018 23:59	\$1,622.48
2165900	52.75	33A07	7/14/2008 0:00	7/13/2018 23:59	\$1,622.48
2165901	52.75	33A07	7/14/2008 0:00	7/13/2018 23:59	\$1,622.48
2165902	52.75	33A07	7/14/2008 0:00	7/13/2018 23:59	\$1,622.48
2165903	52.74	33A07	7/14/2008 0:00	7/13/2018 23:59	\$1,622.01
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2165907	52.74	33A07	7/14/2008 0:00	7/13/2018 23:59	\$1,622.01
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655,000 mE

660,000 mE

665,000 mE

670,000 mE

675,000 mE

680,000 mE

5,805,000 mN

5,800,000 mN

5,795,000 mN

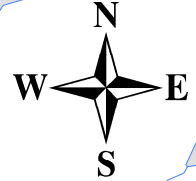
5,790,000 mN

5,805,000 mN

5,800,000 mN

5,795,000 mN

5,790,000 mN



Legend

— Claim Block Boundary

Claim Cell

55735	Title Number
33A07	NTS Sheet
0005	Row Number
0050	Column Number

Eastmain Resources Inc.
Ruby Hill West Property

Figure 1
Claims Map

Author: D.Frappier-Rivard
 Date: April 1st, 2017
 Scale: 1:75,000
 Projection: UTM Zone 18 (Nad 83)

0 1.0 km 2.0 km 3.0 km

55721	55722	55723	55724	55725	55726	1023056	1023057	1023058	1023059	55727	55728	55729	55730	55731	55732	55733	55734	55735	55736
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0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
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33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A07	33A08	33A08
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5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

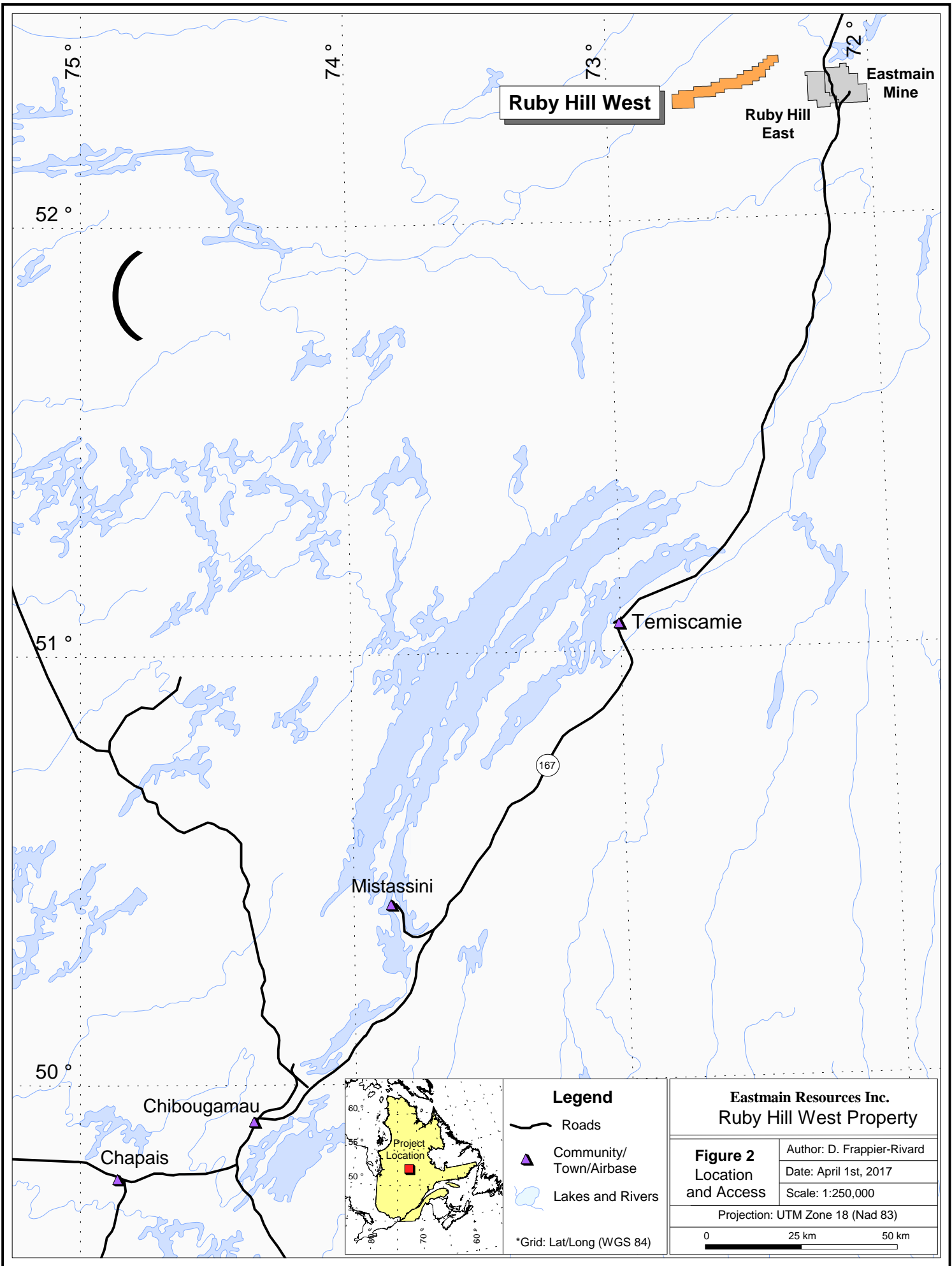
The Ruby Hill West property lies in the James Bay Lowlands of Northern Quebec, just north of the Otish Mountains. The topography of the Ruby Hill is gently rolling to flat lying with local relief varying 100 to 200 meters, the elevation ranges from 450 to 900 meters above sea level. There are numerous rivers and lakes in the area, generally trending northeast, and the area is well drained. Outcrop exposure is low and there is often substantial coverage with glacial till. Overburden generally consists of an upper humus layer underlain by a thin horizon of brown glacial outwash and moraine sands ± gravel ± boulders. Overburden depths range from less than one to twenty meters.

Vegetation in the area consists of small spruce, pine growth, poplar, birch, alders, and Labrador Tea. Secondary re-growth of alder, birch, poplar, spruce and pine growth is also well established and can create dense thickets of closely spaced trees 5 to 15 ft tall.

The property is approximately 7 km south of the Eastmain River and direct access to the area is either by helicopter or by float plane to Lac Lepante. A permanent camp at the Eastmain Mine property, owned by Eastmain Resources Inc., was used as the base camp for the for the exploration program. The camp is located approximately 30 km east of the center of Ruby Hill West claim block and is accessible by truck along Route 167 North from Chibougamau (Figure 2), by Helicopter, or by fixed wing aircraft with short takeoff and landing (STOL) capability. Daily access to the Ruby Hill West property during the 2016 exploration program was by Helicopter from the Eastmain Mine base camp.

Chibougamau, which has a population of 7,992, serves as the main centre of communications and supply for the area. A number of government branches and private businesses provide services to the exploration sector, while a long history of mining in the region contributes to a well-skilled work force. Supplies from Chibougamau can be delivered directly to the base camp by truck, via Route 167.

The property is located in a region characterized by humid continental climate with temperate summer weather. Climate information for this area comes from data from Chapais (Environment and Natural Resources Canada) that shows January as the coldest month with an average maximum of -12°C and average minimum of -23°C while July is the warmest month with an average maximum of 22°C and an average minimum of 10°C. Rainfall is highest in July with an average of 115 mm and snowfall is highest in December with an average of 57 cm. The highest average snow cover is in February with 92 cm. Ice cover on the lakes in winter is generally greater than 30 to 36 inches and breakup is generally by the middle of May.



6.0 HISTORY

Exploration in the area started in the 1930's and 1940's as prospecting of the gossan zones in felsic and ultramafic rocks south of the Lac Dolent and on the east shore of Lac Jim (NTS 33A07). Extensive trenching targeted gossan zones, siliceous chrome (Cr) mica rich felsic volcanic rocks on the east shore of the Lac Jim and on gossans zones within ultramafic rocks on the south shore of Lac Dolent.

In the 1950's and 1960's a number of companies explored the northeast trending portion of the belt at the Lac Leran area, 25 km northeast of the Eastmain Gold mine deposit.

During the mid-60's, Fort George completed diamond drilling (X-Ray) on a Gossan zone associated with a komatiite horizon located south-west of Dejour block. Large mineralized zones with sulfides (pyrite-pyrrhotite-chalcopyrite) were intercepted.

In 1969 Canex-Placer completed an airborne geophysical survey on the volcano-sedimentary belt. In 1970 drilling was performed on a single line overburden covered magnetic-electromagnetic airborne anomaly resulting in the discovery of the zone A of the Eastmain Gold Mine grading 13.71 g/t Au, 20.22 g/t Ag and 0.33% Cu over 1.50 m (GM26898 and GM26899).

In 1974, Nordore completed an airborne geophysical survey and ground surveys on the volcanic belt hosting the Eastmain Gold Mine. The drilling returned weakly anomalous gold values over Eastmain Gold Mine (GM-30731, 32030 and 32949) adjacent to the B zone.

In 1974, Inco-Uranerz completed an airborne geophysical survey within the greenstone volcano- sedimentary belt of the Eastmain River. Trenches and x-ray diamond drilling was completed on priority targets near Lac Lepante and south-southeast of Lac Clement and west of the Eastmain Gold Mine.

The Eastmain Gold Mine ground came open in the late 1970's and in 1981 Placer returned to the area staking the zone A. Ground geophysics was completed to define the A, B, and C zones. In 1982 the B zone was discovered at a depth of 100 m by drill testing geophysical targets. Drill hole 82-1 intersected a 3 m wide sulphide zone grading 8.34 g/t Au, 10.16 g/t Ag and 0.21% Cu. By the end of 1982, 750,000 tonnes had been outlined in the A and B Zones and more claims were added. Placer also established grids (7 grids) several kilometers south of the Eastmain Gold Mine. Exploration and diamond drilling continued from 1981 through to 1988. In 1983 Eldor Resources entered a joint venture with Placer and conducted a follow-up of the airborne and ground geophysical surveys with geological mapping, prospecting and sampling over a 30 km long strip of the northeast arm of the volcanic belt. Assay results were low and no ultramafic rocks were encountered during this program.

In 1983 Aerodat completed an airborne magnetic and electromagnetic survey for the Placer - Eldor Joint Venture over the Lac Rene and Lac Clement area. The survey was followed-up by geological mapping, prospecting and sampling with assays up to 310 ppb Au and 720 ppm Cu.

In 1984 South Atlantic Ventures and Eurocan Ventures completed a ground magnetic and electromagnetic (VLF and Max-Min) survey on the Lac Rene and Lac Clement claim blocks.

In 1987, Placer drove a ramp 344.5 feet into the mineralized zone and encountered grades

of 0.57 oz/ton Au and 0.65 oz/ton Au. Placer also cut seven grids 13 km north of the Eastmain Gold Mine and 4 of the grids intersected pyrite-pyrrhotite mineralization with some anomalous gold assay values.

In 1988, Watts Mining Ltd., staked 500 claims south and southeast of the Eastmain mine (east of Lac Clement and Lac Corona) and carried out an airborne reconnaissance survey over the area resulting in the addition of an additional 400 claims.

In 1988 the Eastmain Syndicate comprised of Dejour Mines, Battle Mountain Canada and Mingold Resources, staked 2 claim blocks, one adjacent to the Placer property and the other to the west. Line cutting, reconnaissance geology, sampling and VLF were performed on 12 grids.

In 1989 the Eastmain Syndicate continued the exploration campaign with an airborne (Aerodat) magnetic and electromagnetic (VLF-EM) survey. A basal till sampling program was carried out to identify Au-As anomalies. Mapping, trenching and sampling of the anomalous areas led to the discovery of the EXKO showing which assayed up to 3,550 ppb Au. This occurrence is associated with a quartz vein with pyrite and pyrrhotite in an actinolite schist at the contact between mafic volcanics and ultramafic rocks. A second showing assayed 640 ppb Au associated with in quartz veins with 10-20% sulphides.

In 1989 and 1990 Kingswood Resources Inc. staked claims covering the Main and Colline Noire blocks. A helicopter supported exploration program of prospecting, geological mapping, sampling, trenching, and basal till sampling was completed. Twelve holes were drilled in 1990 on the Main (90-EM-01 to 90-EM-04) and Colline Noire (90-EM-05 to 90-EM-12) blocks. Reconnaissance work east of Colline Noire identified two erratic blocks which assayed 0.15 oz/t Au within ultramafic rocks containing actinolite, arsenopyrite and pyrite and 0.46 oz/t Au in silicified sericite schist mineralized with arsenopyrite-pyrite.

In 1994 Canso Exploration Ltd. ("GeoNova") established 3 grids on the EXKO, Dejour NE and Colline Noire showings for a total of 183 km. Magnetic, Max-Min, EM and IP geophysical surveys covered the EXKO and Colline Noire and Main grid areas. Beep Mat prospecting was done over all the blocks from June to September 1994. Six drill holes were completed (GE-94-1 to GE-94-6) totaling 240.2 m on the EXKO showing, Lac Jim showing of the Dejour block and IP anomaly PP-12 on the Main block.

Between March and April 1995, eleven drill holes (GE-95-1 to GE-95-11) for a total of 1,518 m of diamond drilling was completed on the Eastmain property by GeoNova Explorations Inc.

In 1996, GeoNova Explorations Inc. established cut grids, and completed diamond drilling, geophysics, mapping and geology on the property Dejour SW and NE. On the Colline Brûlée block they established cut grids, and completed mapping and Beep-Mat prospecting.

In 1997, cut grids, geophysical ground surveys (MaxMin, Mag and Beep-Mat), mapping, sampling and diamond drilling were completed by GeoNova Exploration Inc. A total of eight drill holes were completed, two of them on the block B on the Main property (GE-97-05 and GE-97-08) and the remaining on the Colline Brûlée block (GE-91-01 to GE-97-04, GE-97-06 and GE-97-07).

In 2005, Eastmain Resources Inc. completed an aerial geophysical survey (VTEM) over the entire property (Ruby Hill and Eastmain Mine properties).

In 2007, MSV Resources Inc. conducted a re-evaluation (verification and interpretation) of the VTEM survey done in 2005 in order to delineate new targets.

In 2008 Eastmain Resources conducted a 29-hole diamond drill program across the Ruby Hill East and West properties. In the same year, they also carried out a short prospecting and reconnaissance mapping campaign on the West block.

In 2013, Aeroquest Airborne (Aeroquest) performed a 3-Axis helicopter-borne magnetic gradiometer geophysical survey over the Ruby Hill West Block. The final report and data from the survey were delivered to Eastmain in March of 2014.

In 2014, Eastmain resources conducted a short, 8 days, mapping and prospecting program field validating the structural geology interpretation of the property conducted by SRK and submitted to Eastmain in July, 2014. A total of 114 grab samples were collected. Nineteen anomalous samples confirmed presence of auriferous rocks on the property, particularly in the central area proximal to the interpreted contact between mafic volcanic and ultramafic units.

In 2016, Diagnos identified 15 CARDS (Computer Aided Resource Detection System) target areas that were explored and prospected. 212 grab samples were collected and only two returned gold values greater than 100 ppb. Diagnos work was conducted in parallel with the work related to the present report.

7.0 GEOLOGICAL SETTING AND MINERALIZATION

7.1 Regional Geology

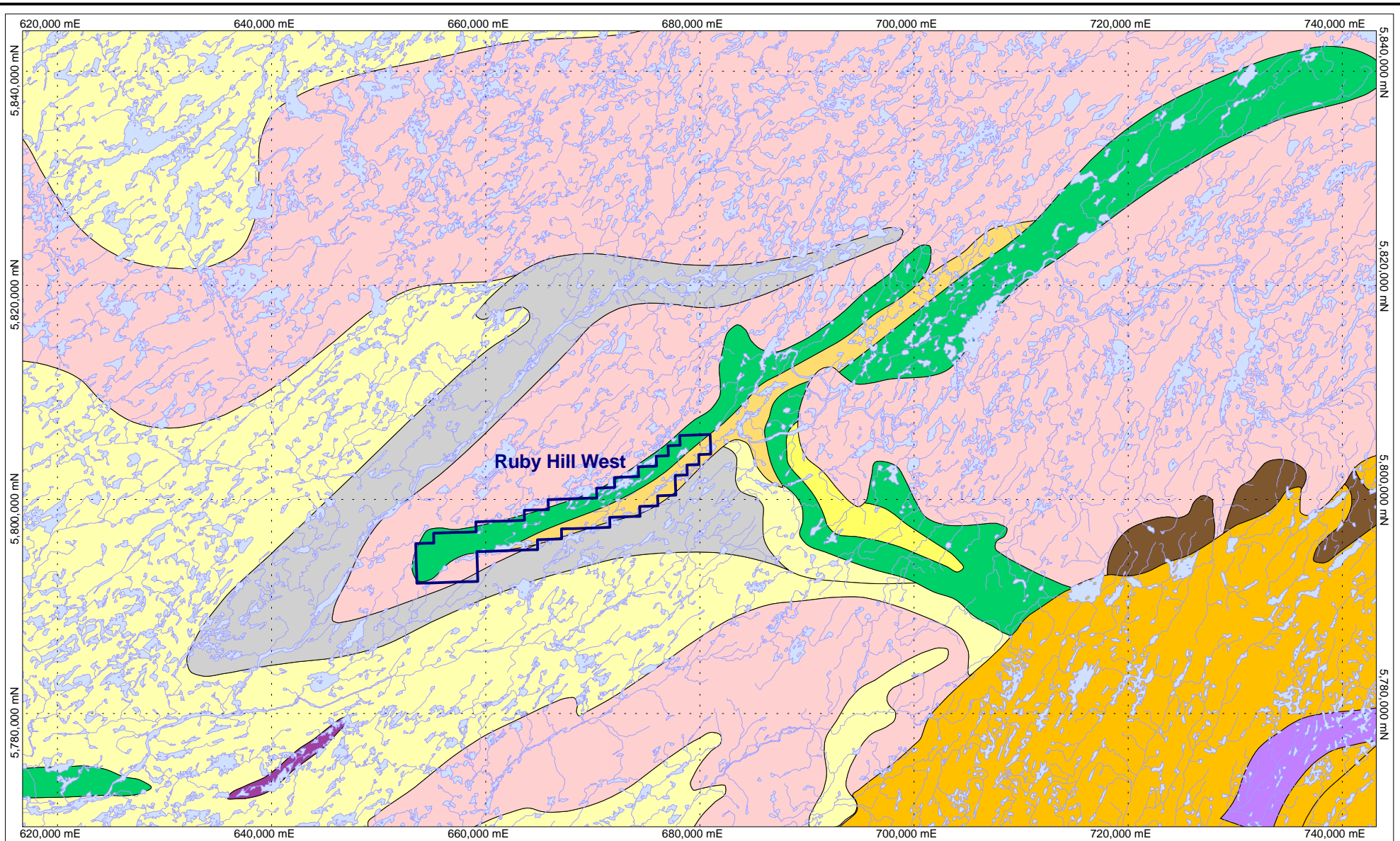
The Ruby Hill West block is positioned across Neoproterozoic metavolcanic and meta-sedimentary rocks of the Upper Eastmain River Greenstone Belt, located within the Opatica Subprovince of the Superior Province in northern Quebec (Couture, 1993). The belt is located between the La Grande Belt to the north and the Frotet-Evans Greenstone Belt to the south (Card and Ciesielski, 1986), approximately 70 km long by 30 km wide, trending NE-SW, and consists of a volcano-sedimentary sequence with predominantly massive and pillowed mafic volcanics, occasional felsic and ultramafic flows, intermediate tuffs and meta-sediments (Figure 3). Narrow intrusions of mafic (gabbro) and ultramafic composition (pyroxenite) form part of this sequence which lies upon a basement of older gneisses and granitic gneisses. Throughout the Belt numerous granitic plutons as well as north-northwest trending diabase dykes intrude all rock sequences. The metamorphism varies from upper greenschist to amphibolite to almandine-amphibolite facies. The Eastmain volcanic belt is a northerly dipping synclinal (40° to 50°) structure that is tightly folded and appears to be overturned. Several structures are parallel the contacts to the contacts between the different rock units. These structures are important since much of the sulphide mineralization forms in relation to these trends.

7.2 Property Geology

The Upper Eastmain River Greenstone Belt consists predominantly of mafic metavolcanics of the Rene Group – basalts that are massive, pillowed, fractured, silicified, amphibole rich and mineralized locally with pyrite and pyrrhotite interbedded with minor units of mafic laminated tuffs. Narrow sections of banded felsic tuffs and rhyolites are interlayered with the mafic volcanics. A basal polymictic meta-conglomerate grades down into a paragneiss and fine grain sediments occur within the conglomerates and near the top as well. Ultramafic volcanics (komatiites and/or pyroxenite) are interlayered with the mafic volcanics and are reported to exhibit some spinifex textures locally. The ultramafics appear to occur at the base of the volcanic pile and could be associated with a property scale fault. Hypabyssal intrusions of gabbros, pyroxenites and ultramafic intrusions intrude the volcanic package as narrow sills. Granodiorites in the area are in contact with the volcanic belt and are foliated to massive in texture. The volcanic pile appears to thicken to the east-northeast.

The metamorphism in the area is of upper greenschist facies to amphibolite to almandine amphibolite facies. The dominant structural trend of the Ruby Hill West property is SW-NE, aligned with the western limb of the Eastmain volcanic belt. Late NW-trending diabase dikes crosscut all interpreted faults and intrusive suites.










The principal mineralization style and exploration target for the Ruby Hill West property is a volcanic hosted lode gold deposit characterized by stratabound, disseminated to massive chalcopyrite-pyrrhotite-pyrite veinlets and lenses typically associated with layers fine grained quartz (chert). Persistent sulphide horizons occur in mafic volcanics, the thickest (3 m to 5 m) are associated with ultramafic flows in the western end of the volcanic belt and in mafic and ultramafic intrusive sills in the center of the belt. Several structures parallel the contacts of the regional northerly-dipping syncline, and much of the sulphide mineralization occurs along these directions.



Ruby Hill West



Legend

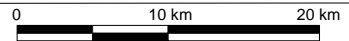
- | | | | |
|---|---|--|------------------------------|
|  | dolomite, dolomitic sandstone, conglomerate and breccia |  | ultramafic intrusive rocks |
|  | conglomerates |  | polymictic metaconglomerates |
|  | granitoid suite |  | metasedimentary rocks |
|  | tonalite, diorite, quartz diorite, granodiorite, tonalitic gneiss |  | felsic volcanic rocks |
|  | mafic intrusive rocks |  | mafic volcanic rocks |

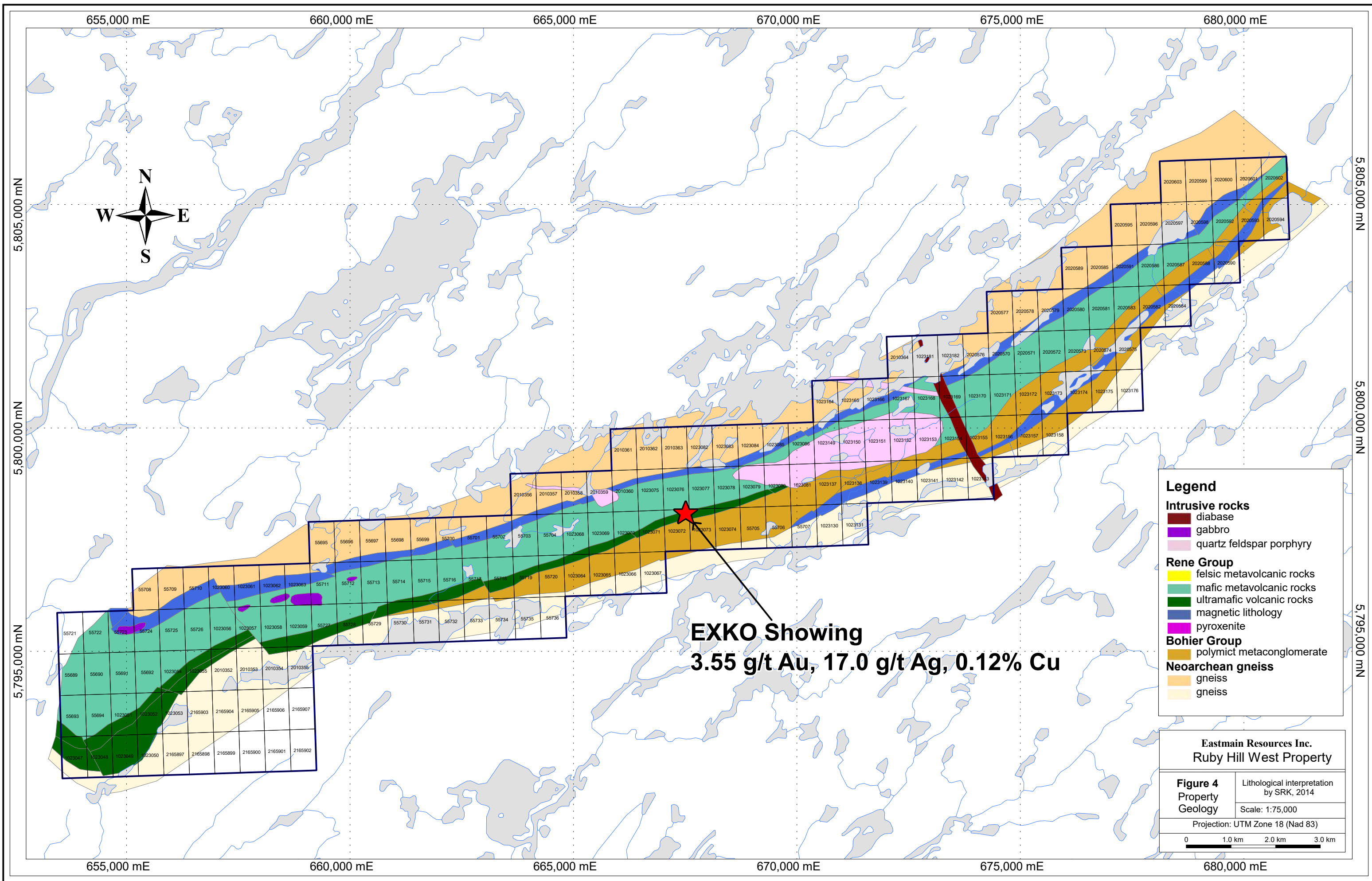


**Eastmain Resources Inc.
Ruby Hill West Property**

Figure 3
Regional Geology
Regional geology after MRNQ, 2012
Scale: 1:500,000

Projection: UTM Zone 18 (NAD 83)





Legend

Intrusive rocks

- diabase
- gabbro
- quartz feldspar porphyry

Rene Group

- felsic metavolcanic rocks
- mafic metavolcanic rocks
- ultramafic volcanic rocks
- magnetic lithology
- pyroxenite

Bohier Group

- polymict metaconglomerate

Neoproterozoic gneiss

- gneiss
- gneiss

Eastmain Resources Inc.
Ruby Hill West Property

Figure 4
Property Geology

Lithological interpretation by SRK, 2014
 Scale: 1:75,000
 Projection: UTM Zone 18 (Nad 83)

0 1.0 km 2.0 km 3.0 km

EXKO Showing
 3.55 g/t Au, 17.0 g/t Ag, 0.12% Cu

8.0 DEPOSIT TYPES

There are two metallic mineral deposits in the area surrounding the Ruby Hill West property; one being the Eastmain gold deposit and the other a Cu-Mo deposit in the MacLeod Lake area. These deposits, along with the known mineralization style within the property (section 7.3), give initial insight in to some of the potential deposit types that could be discovered in the area:

The Eastmain gold deposit occurs within northwest trending mafic volcanic rocks and is historically reported to contain 825,000 tonnes at 12 g/t Au, 0.26% Cu and 16 g/t Ag (Tremblay, 1994, GM53606). The deposit occurs as lenses of massive to semi-massive sulphide with widths of 3 m to 10 m in association with chert in a sequence of probable rhyolitic tuffs, mafic tuffs and pyroxenite (altered komatiite flows) within a mafic volcanic sequence. Three (3) separate shoots (A, B, C) have been discovered to date.

The MacLeod Lake deposit discovered by E. Canova in 1982 occurs west-northwest of the Eastmain Mine property on the west side of the Eastmain River. Low grade Cu-Mo-Ag-Au mineralization occurs within amphibolite gneisses near a gneiss/granodiorite contact. The MacLeod Lake deposit contains 23.7 million tonnes grading 0.52% Cu, 0.08% Mo, 4.0 g/t Ag and 0.5 g/t Au.

During the 2016 field program, four grab samples from a spodumene-bearing pegmatite dyke returned values ranging from 1.10% to 4.72% Li₂O with very anomalous Tantalum, Cesium and Rubidium values. These values indicate a potential for lithium-bearing rare metal pegmatite deposit. Nemaska lithium's Whabouchi deposit, located in northern Quebec, in a similar geological setting, where samples from drill holes average 1.62 Li₂O and range up to 4.24% Li₂O, is presently in production (NI 43-101 Technical Report, Preliminary Economic Assessment of the Whabouchi Lithium Deposit and Hydromet Plant, 2013)

9.0 EXPLORATION

From July 21st to August 4th, 2016, Eastmain Resources Inc. employed a total of three geologists and two prospectors to contribute to the exploration program on the Ruby Hill West property. The 2016 field exploration program consisted of prospecting and rock sampling. A total of 152 rock samples were collected. Eastmain Resources also contracted Diagnos Inc to conduct a prospection survey over the same area. The two programs were done in parallel and shared the camp and the helicopter.

9.1 Prospecting

Prospecting targets were focused on Iron formations (IF), silicified and/or altered lithologies, rocks with high sulphide concentrations, as well as any lithological contact. Attention was given to areas defined as structurally complex or interesting, as well as areas surrounding proven gold showings from past work. A total of 152 grab samples were collected across the property (see *Appendix 1* for complete list of samples, coordinates and assay certificates).

Outcrop exposure across the property is highly variable, with many areas having limited

exposure due to dense forest, thick overburden and/or swampy terrain. For this reason, sampling density is sometimes clustered and irregular.

Of 152 samples collected, 7 samples returned gold assay values greater than 100 ppb and 24 samples returned silver assay values greater than 1 g/t (Considered here to be anomalous for the purposes of this document). The anomalous gold values are ranging from 176 ppb to 18.15 g/t and are associated with arsenopyrite. The anomalous silver values are statistically associated with a high sulfide percentage and are ranging from 1.02 g/t to 3.58 g/t. The numerical results for these samples are summarized in Table 2.

A new surface showing was discovered approximately 2 km WSW of the historic EXKO showing (3.55 g/t Au; 17.0 g/t Ag; 0.12% Cu) discovered by the Eastmain Syndicate in 1989. The new discovery includes four values of 18.2 g/t Au, 1.68 g/t Au, 0.28 g/t Au and 0.18 g/t Au. Two other gold samples were found approximately 200 m ENE with grades of 3.71 g/t Au and 2.59 g/t Au. The gold mineralization present at the new discovery and at the EXKO showing is associated with arsenopyrite and is hosted in a sheared, silicified mafic volcanic layer located immediately north of the contact with the ultramafic sequence. The mineralized zone and the mafic-ultramafic contact trends east-northeast along the central axis of the Ruby Hill West property.

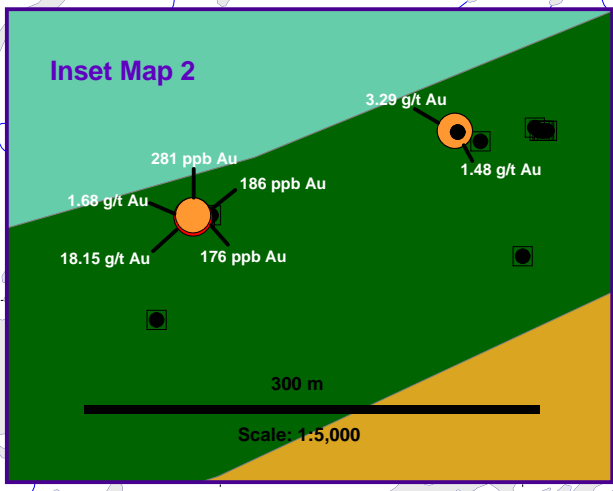
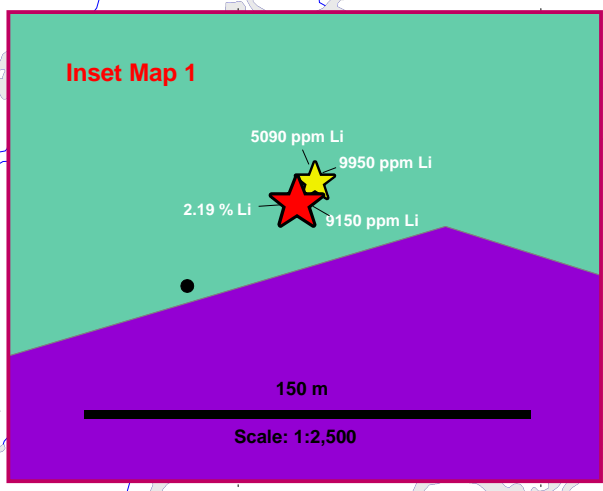
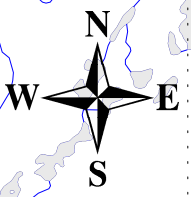
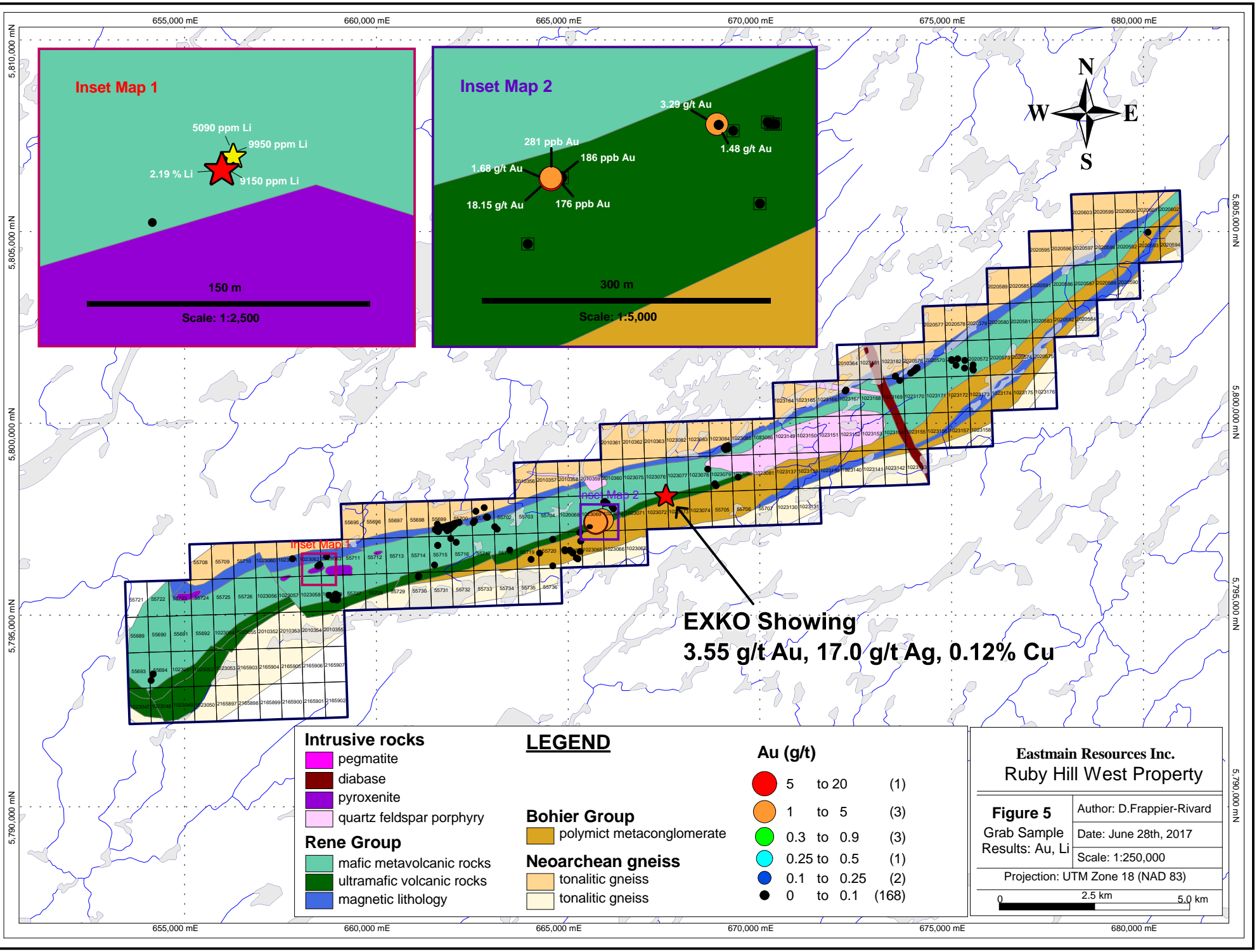
Also during the prospecting program, grab samples were taken from a spodumene-bearing pegmatite dyke exposed over 60 m by 25 m, located approximately 40 km WSW of the Eastmain Mine deposit. Four samples returned values ranging from 0.50% to 2.19% Li with very anomalous Tantalum, Cesium and Rubidium values. This spodumene bearing pegmatite, present in the western part of the Ruby Hill West claim block, is also located in contact with ultramafic rocks suggesting that the dyke may be emplaced along a major fault structure often associated with the presence of ultramafic sequences. The numerical results for these samples are summarized in Table 3.

Table 2: Summary of prospecting samples with gold assay values greater than 100 ppb and/or silver assay values greater than 1 g/t

Sample #	Claim #	Occurrences	Easting	Northing	Rock Type	Au (g/t)	Ag (g/t)	As (ppm)	S (%)
S894334	1023069	Outcrop	665717	5797422	Basalt	18.15	1.32	>10000	0.55
S894202	1023069	Outcrop	665890	5797479	Felsic Volcanics	3.29	3.58	9900	0.86
S894337	1023069	Outcrop	665717	5797423	Basalt	1.68	0.24	583	0.26
S894203	1023069	Outcrop	665890	5797479	Felsic Volcanics	1.48	1.64	1005	1.22
S894336	1023069	Outcrop	665719	5797422	Basalt	0.281	0.07	987	0.06
S894332	1023069	Outcrop	665725	5797422	Basalt	0.186	0.24	3380	1.07
S894335	1023069	Outcrop	665719	5797423	Basalt	0.176	0.15	524	0.57
S894171	55700	Outcrop	662057	5797392	Felsic Volcanics	0.007	2.68	8.2	15.4
S894308	55700	Outcrop	661934	5797340	Felsic Volcanics	0.028	2.55	15.9	15.9
S894217	2020576	Outcrop	674079	5801435	Felsic Volcanics	0.011	2.29	17.4	25.5
S894485	1023182	Outcrop	673530	5801228	Felsic Tuff	0.006	2.26	398	3.63
S894170	55700	Outcrop	662049	5797388	Felsic Volcanics	0.004	2.14	8.5	16.7
S894480	2020576	Outcrop	674096	5801448	Massive Sulfide	0.024	1.91	32	33.2
S894215	2020576	Outcrop	674078	5801436	Felsic Volcanics	0.007	1.91	6.7	7.61
S894169	55700	Outcrop	662039	5797383	Felsic Volcanics	0.004	1.73	8.2	18
S894345	1023059	Outcrop	658866	5795407	Felsic Volcanics	0.036	1.69	32.7	0.98
S894184	1023084	Outcrop	669149	5799359	Quartz Vein	0.007	1.64	9.6	15.2
S894168	55700	Outcrop	662045	5797358	Felsic Volcanics	0.007	1.63	10.6	19.2
S894219	2020576	Outcrop	674056	5801407	Felsic Volcanics	0.004	1.57	2.8	1.37
S894160	55699	Outcrop	661840	5797320	Felsic Volcanics	0.001	1.56	11.6	15.9
S894188	1023084	Outcrop	669169	5799416	Felsic Volcanics	0.017	1.39	6.5	16.8
S894172	55700	Outcrop	662156	5797413	Felsic Volcanics	0.001	1.37	13.4	29.8
S894218	2020576	Outcrop	674082	5801434	Chert	0.006	1.24	27.6	17.5
S894347	1023167	Outcrop	672225	5800845	Felsic Volcanics	0.006	1.22	30.6	6.43
S894216	2020576	Outcrop	674082	5801440	Felsic Volcanics	0.01	1.21	14.7	13.6
S894158	55699	Outcrop	661837	5797310	Felsic Volcanics	0.008	1.13	2	8.77
S894221	2020576	Outcrop	673932	5801315	Felsic Volcanics	0.014	1.1	4.4	4.26
S894484	2020576	Outcrop	674015	5801371	Chert	0.007	1.02	4.9	3.87

Table 3: Summary of prospecting samples anomalous lithium values

Sample #	Claim #	Occurrences	Easting	Northing	Rock Type	Li (ppm)	Li ₂ O (%)	Ta (ppm)	Cs (ppm)	Rb (ppm)
S894339	1023062	Outcrop	658518	5796313	Pegmatite	9970	2.15	> 100	> 500	990
S894340	1023062	Outcrop	658518	5796312	Pegmatite	5090	1.10	> 100	> 500	710
S894341	1023062	Outcrop	658513	5796308	Pegmatite	21900	4.72	> 100	> 500	1720
S894342	1023062	Outcrop	658512	5796306	Pegmatite	9150	1.97	> 100	> 500	3660



EXKO Showing
3.55 g/t Au, 17.0 g/t Ag, 0.12% Cu

- Intrusive rocks**
- pegmatite
 - diabase
 - pyroxenite
 - quartz feldspar porphyry
- Rene Group**
- mafic metavolcanic rocks
 - ultramafic volcanic rocks
 - magnetic lithology

- LEGEND**
- Bohier Group**
- polymictic metaconglomerate
 - tonalitic gneiss
 - tonalitic gneiss
- Neoarchean gneiss**
- tonalitic gneiss
 - tonalitic gneiss

- Au (g/t)**
- 5 to 20 (1)
 - 1 to 5 (3)
 - 0.3 to 0.9 (3)
 - 0.25 to 0.5 (1)
 - 0.1 to 0.25 (2)
 - 0 to 0.1 (168)

Eastmain Resources Inc.
Ruby Hill West Property

Figure 5 Author: D.Frappier-Rivard

Grab Sample Results: Au, Li Date: June 28th, 2017

Scale: 1:250,000

Projection: UTM Zone 18 (NAD 83)

0 2.5 km 5.0 km

10.0 DRILLING

No drilling was conducted on the property in 2014.

11.0 SAMPLE PREPARATION, SECURITY AND ANALYSIS

11.1 Sample Preparation

Rock samples were collected by geologists and technicians where outcrop was available and where rock formations were deemed to be of potential economic interest. As such, there is no general rule for pattern or density concerning sample location.

The rock samples were generally collected as grab samples using a hammer and/or chisel to acquire a sample of rock of the desired size. Samples were given a unique sample identification code according to the samplers tag book, and described in place. Samples, along with a sample tag containing the sample number and bar code, were then placed in a plastic sample bag, also labeled with the appropriate sample number, which was then sealed with tape.

At camp, samples were arranged in order of sample number, and placed in sequence into large rice bags, generally 4-6 samples to a bag. Each rice bag was numbered and labeled with the sample sequence contained within, and addressed to ALS Minerals laboratories in Sudbury.

11.2 Security

All samples were carefully packaged in camp and the sample numbers were recorded on detailed sample shipment sheets. At the end of the program the author of this report personally drove to ALS Minerals facilities in Sudbury to deliver the samples. A digital copy of the sample list was also sent to ALS electronically, to insure that every sample would be accounted for upon arrival to the analytical laboratories.

11.3 Analysis

ALS Minerals Labs performed the following operations on the rock samples:

- **Standard sample preparation « PREP-31B »:** The samples were logged in the tracking system, weighed, dried and finely crushed, with more than 70% passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 1 000 g was taken and pulverized until more than 85% would pass a 75 micron (Tyler 200 mesh) screen.
- **Ultra- Trace Level Method Using ICP- MS and ICP- AES, « ME-MS61 »:** A prepared 0.25 g sample was digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue was topped up with dilute hydrochloric acid and analyzed by inductively coupled plasma- atomic emission spectrometry. Following this analysis, the results were reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten, and diluted accordingly. Samples meeting the required concentration were then analyzed by inductively coupled plasma-mass spectrometry. Results were corrected for spectral inter-element interferences. The lower and upper detection limits for each element are in Table 5.
- **Inductively Coupled Plasma- Atomic Emission Spectrometry (ICP-AES), «**

Au-ICP22 »: A prepared sample was fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver, then cupelled to yield a precious metal bead. The bead was digested in 0.5 mL dilute nitric acid, in the microwave oven. 0.5 mL concentrated hydrochloric acid was then added, and the bead was further digested in the microwave at a lower power setting. The digested solution was cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by inductively coupled plasma atomic emission spectrometry against matrix-matched standards. This gave a lower limit of detection of 1 ppb, and an upper limit of detection of 10 ppm Au.

- **All samples that returned assays greater than 500 ppb Au from Au-ICP22 received Atomic Absorption Spectroscopy (AAS), « Au-AA24 »:** A prepared sample was fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver, then cupelled to yield a precious metal bead. The bead was digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid was then added, and the bead was further digested in the microwave at a lower power setting. The digested solution was cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards. This yielded a lower limit of detection of 5 ppb and an upper limit of detection of 10 ppm Au.
- **All samples that returned assays greater than 500 ppb Au from Au-AA24, received fire assay with a gravimetric finish, « Au-GRA22 »:** A prepared sample was fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents, in order to produce a lead button. The lead button containing the precious metals was cupelled to remove the lead. The remaining gold and silver bead was parted in dilute nitric acid, annealed and weighed as gold. Silver, if required, was then determined by the difference in weights. This gave a lower limit of detection of 50 and 5 000 ppb, and an upper limit of detection of 1 000 and 10 000 ppm for gold and silver, respectively.
- **All samples returning assays greater than 10% S from ME-MS61 were analyzed for total sulphur using a Leco sulphur analyzer, « S-IR08 »:** The 0.01-0.1 g sample was heated to approximately 1350 °C in an induction furnace, while passing a stream of oxygen through the sample. Sulphur dioxide released from the sample was measured by an IR detection system which gave the total sulphur. The lower and upper limits of detection with this method were 0.01 and 50%, respectively.

Table 4: Lower and upper detection limits for the
« ME-MS61 » assay method

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminium	Al	%	0.01	50
Arsenic	As	ppm	0.2	10,000
Barium	Ba	ppm	10	10,000
Beryllium	Be	ppm	0.05	1,000
Bismuth	Bi	ppm	0.01	10,000
Boron	B	ppm	10	-
Calcium	Ca	%	0.01	50
Cadmium	Cd	ppm	0.02	1,000
Cerium	Ce	ppm	0.01	500
Cobalt	Co	ppm	0.1	10,000
Chromium	Cr	ppm	1	10,000
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10,000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10,000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.1	500
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.5	10,000
Lithium	Li	ppm	0.2	10,000
Magnesium	Mg	%	0.01	50
Manganese	Mn	ppm	5	100,000
Molybdenum	Mo	ppm	0.05	10,000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.1	500
Nickel	Ni	ppm	0.2	10,000
Phosphorous	P	ppm	10	10,000
Lead	Pb	ppm	0.5	10,000
Rubidium	Rb	ppm	0.1	10,000
Rhenium	Re	ppm	0.002	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10,000
Scandium	Sc	ppm	0.1	10,000
Selenium	Se	ppm	1	1,000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10,000
Tantalum	Ta	ppm	0.05	100
Tellurium	Te	ppm	0.05	500
Thorium	Th	ppm	0.2	10,000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10,000
Uranium	U	ppm	0.1	10,000
Vanadium	V	ppm	1	10,000
Tungsten	W	ppm	0.1	10,000
Yttrium	Y	ppm	0.1	500
Zinc	Zn	ppm	2	10,000
Zirconium	Zr	ppm	0.5	500

12.0 DATA VERIFICATION

12.1 Internal ALS-Chemex Quality Control Procedures

Internal Quality Control ("QC") samples were used by ALS Chemex Labs to detect and measure the magnitude of laboratory errors associated with the measurement of contained gold and other elements in a sample. Tracking of QC data allows an acceptable degree of confidence in the assay values to be maintained by monitoring the performance of the lab on these reference samples. Laboratory quality control results completed were reported by ALS on separate certificates, which form Appendix 2, as well as digitally with the sample assay results.

The lab routinely randomly inserted a series of blind blanks and standard samples into the sample stream to monitor equipment calibration and accuracy. In addition they routinely completed duplicate analysis of random samples.

12.2 Internal Eastmain Quality Control Procedure

In addition to ALS QA/QC procedure, Eastmain has completed its own quality control check sampling during the 2016 program, by inserting standards and blanks every 25th and 26th sample respectively (for every sample number ending with 25, 26, 50 and 51). For the 2015 drill program, a total of 6 QA/QC samples, including 3 blanks (concrete brick) and 3 reference material standards were placed in the samples sequence, and sent for assay to ALS Minerals with the rest of samples.

Barren coarse material ("a blank") is submitted with samples for crushing and pulverizing to test for possible contamination in the laboratory assay procedure. Eastmain utilized standard cement bricks as blanks, which have an assumed Au value of zero.

Blank samples are deemed to have resulted in a quality control failure if their assay values exceeded 5 ppb. Elevated values for blanks may suggest that there has been contamination or sample cross-contamination during preparation. Elevated values may also indicate sources of contamination in the fire assay procedure (contaminated reagents or crucibles) or sample solution carry-over during instrumental finish.

Only one type of Control Reference Material (CRM) was used for the Ruby Hill West program. And only three control samples were inserted in the sequence. The CRMs were manufactured by *Ore Research & Exploration Pty Ltd (ORE)*, Australia, and distributed in Canada through *Analytical Solutions Ltd*, Toronto. These ORE standards are certified in accordance with International Standards Organization (ISO) recommendations. The Performance Gates applied for the Eastmain project are available on the Analytical Solutions Ltd. website (www.explorationgeochem.com) and are described as follows:

"Performance gates provide an indication of a level of performance that might reasonably be expected from a laboratory being monitored by this standard in a QA/QC program. They take into account errors attributable to measurement (analytical bias and precision) and standard variability. For an effective standard, the contribution of the latter should be negligible in comparison to measurement errors.

There are three main sources of measurement error:

- *inter-lab bias*

- *inter-batch bias*
- *repeatability (analytical precision)*

The standard is submitted to one or more labs at random with the aim of evaluating and/or comparing their competence and the performance gates accommodate all sources of potential error.

The performance gates are calculated from the standard deviation of the pooled individual analyses generated from the certification program. All individual and laboratory dataset (batch) outliers are removed prior to determination of the standard deviation. These outliers can only be removed after the absolute homogeneity of the CRM has been independently established, i.e. the outliers must be confidently deemed to be analytical rather than arising from inhomogeneity of the CRM.

Performance gates have been calculated for one, two and three standard deviations of the accepted pool of certification data. As a guide these intervals may be regarded as: informational (1s), warning or rejection for multiple outliers (2s), or rejection for individual outliers (3s) in QC monitoring, although their precise application should be at the discretion of the QC manager concerned.”

The quantity of assayed reference material is too small to permit statistical interpretation. The three samples submitted returned gold values that are within 2 standard deviations from the expected values, but they all show showing a slight positive bias (table 4). All (3) the blanks have pass the quality control protocol, returning 1ppb Au each.

Table 5: Results from the control reference material (CRM)

Sample #	Au (ppb)	- 2 Std. Dev.	- 1 Std. Dev.	Oreas 50c	+ 1 Std. Dev.	+ 2 Std. Dev.
S894175	856	780	808	836	864	892
S894325	853	780	808	836	864	892
S894475	879	780	808	836	864	892
Pass						
Fail						

13.0 MINERAL PROCESSING AND METALLURGICAL TESTING

This section is not applicable to this report.

14.0 MINERAL RESOURCE ESTIMATES

There is no resource estimate available for this property.

15.0 ADJACENT PROPERTIES

No adjacent properties held by other companies have a significant impact on Eastmain Resources' Ruby Hill West claim block.

16.0 OTHER RELEVANT DATA AND INFORMATION

This section is not applicable to this report.

17.0 INTERPRETATIONS AND CONCLUSIONS

Between July 21st and August 4th, 2016, Eastmain Resources Inc. carried-out an exploration program consisting of geological mapping and prospecting. A total of 237 outcrops were described and 158 grab samples were collected.

From the 158 collected samples, 7 returned gold values greater than 100 ppb, among which 4 assayed more than 1 g/t gold. The best gold value obtained is 18.15 g/t. All the anomalous gold values were discovered in a 200 metres radius. The gold mineralization, located in a shear zone, is associated with arsenopyrite and is probably structurally controlled. The new discovery is interpreted as being the geological continuity of the EXKO showing (3.55 g/t Au; 17.0 g/t Ag; 0.12% Cu) discovered by the Eastmain Syndicate in 1989.

In the western part of the claim block, a spodumene-bearing pegmatite dyke returned values ranging from 0.50% to 2.19% Li with very anomalous Tantalum, Cesium and Rubidium values.

The ultramafic units are usually magnetic and are traceable on a property scale. The new discovery and the EXKO showing are associated with a strong magnetic response. The contact with this high mag feature is considered to have an increased potential for local gold enrichment.

The 7 anomalous prospecting samples from 2016 confirm presence of auriferous rocks on the property, particularly in the central area proximal to the interpreted contact between mafic volcanic and ultramafic units.

The Ruby Hill West property has the potential to host numerous types of mineralization. The geological environment, favorable aeromagnetic signatures, and the proximity to the Eastmain Mine makes this an interesting property.

18.0 RECOMMENDATIONS

The following recommendations are based on the recent exploration activity and a review of the existing data from previous work completed on the property:

4. All historical work conducted on the EXKO showing area should be re-evaluated. And geophysical survey should be considered to better define the mineralized area.
5. Areas surrounding known gold showings should undergo additional prospecting and trenching to further delineate the extent and controls of mineralization.
6. A small excavator (<2,500 lbs) could be flown on the property, by helicopter, to increase the rock exposure in the new discovery and EXKO showing areas.
7. Follow-up prospecting should be focus on the spodumene-bearing pegmatite to better evaluate the lithium potential of the property.

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Appendix 1:

Sample data

The following table presents a list of all grab samples collected on the Ruby Hill West property during the 2016 field season including location*, occurrence, and lithology data

*UTM Zone 18 [Nad 83]

Sample ID	Easting	Northing	Claim ID	Lithology	Occurrence	Certificate No
S894151	654178	5793466	55694	Quartz Vein	Outcrop	SD16133525
S894152	654177	5793466	55694	Basalt	Outcrop	SD16133525
S894153	654175	5793451	55694	Quartz Vein	Outcrop	SD16133525
S894154	654123	5793294	55694	Quartz Vein	Outcrop	SD16133525
S894155	661533	5797227	55699	Basalt	Outcrop	SD16133525
S894156	661600	5797247	55699	Basalt	Outcrop	SD16133525
S894157	661588	5797365	55699	Tonalite	Outcrop	SD16133525
S894158	661837	5797310	55699	Felsic Volcanics	Outcrop	SD16133525
S894159	661832	5797317	55699	Felsic Volcanics	Outcrop	SD16133525
S894160	661840	5797320	55699	Felsic Volcanics	Outcrop	SD16133525
S894161	661742	5797296	55699	Felsic Volcanics	Outcrop	SD16133525
S894162	662083	5796896	55716	Basalt	Outcrop	SD16133525
S894163	661846	5797196	55699	Basalt	Outcrop	SD16133525
S894164	661874	5797318	55699	Felsic Volcanics	Outcrop	SD16133525
S894165	661872	5797316	55699	Felsic Volcanics	Outcrop	SD16133525
S894166	661899	5797333	55699	Felsic Volcanics	Outcrop	SD16133525
S894167	661992	5797305	55700	Basalt	Outcrop	SD16133525
S894168	662045	5797358	55700	Felsic Volcanics	Outcrop	SD16133525
S894169	662039	5797383	55700	Felsic Volcanics	Outcrop	SD16133525
S894170	662049	5797388	55700	Felsic Volcanics	Outcrop	SD16133525
S894171	662057	5797392	55700	Felsic Volcanics	Outcrop	SD16133525
S894172	662156	5797413	55700	Felsic Volcanics	Outcrop	SD16133525
S894173	662558	5797458	55701	Basalt	Outcrop	SD16133525
S894174	662872	5797554	55701	Basalt	Outcrop	SD16133525
S894175	-	-	-	Standard		SD16133525
S894176	-	-	-	Blank		SD16133525
S894177	662872	5797554	55701	Basalt	Outcrop	SD16133525
S894178	662893	5797551	55701	Basalt	Outcrop	SD16133525
S894179	662893	5797551	55701	Basalt	Outcrop	SD16133525
S894180	663087	5797303	55702	Basalt	Outcrop	SD16133525
S894181	663148	5797238	55702	Basalt	Outcrop	SD16133525
S894182	669145	5799405	1023084	Quartz Vein	Outcrop	SD16133525
S894183	669149	5799359	1023084	Quartz Vein	Outcrop	SD16133525
S894184	669149	5799359	1023084	Quartz Vein	Outcrop	SD16133525
S894185	669172	5799357	1023084	Quartz Vein	Outcrop	SD16133525
S894186	669162	5799331	1023084	Pyroxenite	Outcrop	SD16133525
S894187	669169	5799416	1023084	Felsic Volcanics	Outcrop	SD16133525

S894188	669169	5799416	1023084	Felsic Volcanics	Outcrop	SD16133525
S894189	669431	5798593	1023080	Basalt	Outcrop	SD16133525
S894190	668854	5798374	1023079	Basalt	Outcrop	SD16133525
S894191	668824	5798424	1023079	Quartz Vein	Outcrop	SD16133525
S894192	668641	5798806	1023078	Mafic tuff	Outcrop	SD16133525
S894193	674997	5801661	2020571	Basalt	Outcrop	SD16133525
S894194	675159	5801683	2020571	Basalt	Outcrop	SD16133525
S894195	675341	5801640	2020571	Basalt	Outcrop	SD16133525
S894196	675557	5801527	2020572	Basalt	Outcrop	SD16133525
S894197	675547	5801431	2020572	Quartz Vein	Outcrop	SD16133525
S894198	675563	5801385	2020572	Quartz Vein	Outcrop	SD16133525
S894199	657813	5796466	1023061	Felsic Volcanics	Outcrop	SD16133525
S894200	658475	5796277	1023062	Pyroxenite	Outcrop	SD16133525
S894201	658699	5796528	1023063	Pyroxenite	Outcrop	SD16133525
S894202	665890	5797479	1023069	Felsic Volcanics	Outcrop	SD16133525
S894203	665890	5797479	1023069	Felsic Volcanics	Outcrop	SD16133527
S894204	665892	5797478	1023069	Basalt	Outcrop	SD16133527
S894205	665892	5797478	1023069	Felsic Volcanics	Outcrop	SD16133527
S894206	665693	5797354	1023069	Pyroxenite	Outcrop	SD16133527
S894207	680118	5804983	2020593	Quartz Vein	Float	SD16133527
S894208	658940	5795546	1023059	Basalt	Outcrop	SD16133527
S894209	658945	5795542	1023059	Basalt	Outcrop	SD16133527
S894210	658984	5795403	1023059	Wacke	Outcrop	SD16133527
S894211	658984	5795403	1023059	Quartz Vein	Outcrop	SD16133527
S894212	658984	5795403	1023059	Quartz Vein	Outcrop	SD16133527
S894213	658963	5795395	1023059	Felsic Volcanics	Outcrop	SD16133527
S894214	658764	5795516	1023059	Quartz Vein	Outcrop	SD16133527
S894215	674078	5801436	2020576	Felsic Volcanics	Outcrop	SD16133527
S894216	674082	5801440	2020576	Felsic Volcanics	Outcrop	SD16133527
S894217	674079	5801435	2020576	Felsic Volcanics	Outcrop	SD16133527
S894218	674082	5801434	2020576	Chert	Outcrop	SD16133527
S894219	674056	5801407	2020576	Felsic Volcanics	Outcrop	SD16133527
S894220	673935	5801313	2020576	Chert	Outcrop	SD16133527
S894221	673932	5801315	2020576	Felsic Volcanics	Outcrop	SD16133527
S894222	673644	5801117	1023169	Basalt	Outcrop	SD16133527
S894301	661578	5797195	55699	Basalt	Outcrop	SD16133527
S894302	661616	5797176	55699	Quartz Vein	Outcrop	SD16133527
S894303	661656	5797268	55699	Basalt	Outcrop	SD16133527
S894304	661680	5797290	55699	Intermediate intrusive	Outcrop	SD16133527
S894305	661772	5797275	55699	Felsic Volcanics	Outcrop	SD16133527
S894306	661937	5796995	55715	Basalt	Outcrop	SD16133527
S894307	661928	5797245	55699	Basalt	Outcrop	SD16133527
S894308	661934	5797340	55700	Felsic Volcanics	Outcrop	SD16133527

S894309	662000	5797371	55700	Felsic Volcanics	Outcrop	SD16133527
S894310	662524	5797407	55701	Basalt	Outcrop	SD16133527
S894311	662593	5797706	55701	Tonalite	Outcrop	SD16133527
S894312	662811	5797802	55701	Tonalite	Outcrop	SD16133527
S894313	669104	5799399	1023084	Tonalite	Outcrop	SD16133527
S894314	669066	5799355	1023084	Felsic Volcanics	Outcrop	SD16133527
S894315	669099	5799321	1023084	Basalt	Outcrop	SD16133527
S894316	669100	5799321	1023084	Basalt	Outcrop	SD16133527
S894317	669106	5799319	1023084	Basalt	Outcrop	SD16133527
S894318	675004	5801639	2020571	Tonalite	Outcrop	SD16133527
S894319	675112	5801515	2020571	Basalt	Outcrop	SD16133527
S894320	675338	5801440	2020571	Basalt	Outcrop	SD16133527
S894321	665933	5797946	1023070	Basalt	Outcrop	SD16133527
S894322	665929	5797950	1023070	Basalt	Outcrop	SD16133527
S894323	665935	5797396	1023070	Conglomerate	Outcrop	SD16133527
S894324	665943	5797481	1023070	Basalt	Outcrop	SD16133527
S894325	-	-	-	Standard		SD16133527
S894326	-	-	-	Blank		SD16133527
S894327	665946	5797479	1023070	Pegmatite	Outcrop	SD16133527
S894328	665948	5797479	1023070	Basalt	Outcrop	SD16133527
S894329	665951	5797479	1023070	Basalt	Outcrop	SD16133527
S894330	665949	5797479	1023070	Basalt	Outcrop	SD16133527
S894331	665907	5797472	1023069	Basalt	Outcrop	SD16133527
S894332	665725	5797422	1023069	Basalt	Outcrop	SD16133527
S894333	665729	5797423	1023069	Basalt	Outcrop	SD16133527
S894334	665717	5797422	1023069	Basalt	Outcrop	SD16133527
S894335	665719	5797423	1023069	Basalt	Outcrop	SD16133527
S894336	665719	5797422	1023069	Basalt	Outcrop	SD16133527
S894337	665717	5797423	1023069	Basalt	Outcrop	SD16133527
S894338	665300	5797156	1023064	Conglomerate	Outcrop	SD16133527
S894339	658518	5796313	1023062	Pegmatite	Outcrop	SD16133527
S894340	658518	5796312	1023062	Pegmatite	Outcrop	SD16133527
S894341	658513	5796308	1023062	Pegmatite	Outcrop	SD16133527
S894342	658512	5796306	1023062	Pegmatite	Outcrop	SD16133527
S894343	658999	5795508	1023059	Basalt	Outcrop	SD16133527
S894344	658866	5795407	1023059	Felsic Volcanics	Outcrop	SD16133527
S894345	658866	5795407	1023059	Felsic Volcanics	Outcrop	SD16133527
S894346	665938	5797910	1023070	Basalt	Outcrop	SD16133527
S894347	672225	5800845	1023167	Felsic Volcanics	Outcrop	SD16133527
S894348	672247	5800868	1023167	Felsic Volcanics	Outcrop	SD16133527
S894451	665957	5797966	1023070	Quartz Vein	Outcrop	SD16133527
S894452	666017	5797916	1023070	Quartz Vein	Outcrop	SD16133527
S894453	666149	5797828	1023070	Quartz Vein	Outcrop	SD16133527

S894454	666149	5797828	1023070	Basalt	Outcrop	SD16133527
S894455	666181	5797772	1023070	Basalt	Outcrop	SD16133527
S894456	666181	5797772	1023070	Basalt	Outcrop	SD16133527
S894457	665581	5797306	1023069	Basalt	Outcrop	SD16133527
S894458	665541	5797305	1023069	Quartz Vein with Ultramafic	Outcrop	SD16133527
S894459	665327	5796926	1023064	Quartz Vein	Outcrop	SD16133527
S894460	665327	5796926	1023064	Tonalite	Outcrop	SD16133527
S894461	665313	5796660	1023064	Conglomerate	Outcrop	SD16133527
S894462	665254	5796462	1023064	Pegmatite	Outcrop	SD16133527
S894463	665212	5796489	1023064	Tonalite	Outcrop	SD16133527
S894464	665117	5796619	1023064	Quartz Vein	Outcrop	SD16133527
S894465	665117	5796619	1023064	Conglomerate	Outcrop	SD16133527
S894466	665044	5796690	1023064	Conglomerate	Outcrop	SD16133527
S894467	664916	5796674	1023064	Conglomerate	Outcrop	SD16133527
S894468	664908	5796699	1023064	Conglomerate	Outcrop	SD16133527
S894469	664597	5796285	55720	Quartz Vein	Outcrop	SD16133527
S894470	664600	5796978	55720	Basalt	Outcrop	SD16133527
S894471	661600	5796816	55715	Conglomerate	Outcrop	SD16133527
S894472	661600	5796816	55715	Conglomerate	Outcrop	SD16133527
S894473	664256	5796614	55720	Conglomerate	Outcrop	SD16133527
S894474	664033	5796454	55719	Conglomerate	Outcrop	SD16133527
S894475	-	-	-	Standard		SD16133527
S894476	-	-	-	Blank		SD16133527
S894477	661101	5796021	55730	Pyroxenite	Outcrop	SD16133527
S894478	661101	5796021	55730	Pyroxenite	Outcrop	SD16133527
S894479	661515	5796303	55715	Basalt	Outcrop	SD16133527
S894480	674096	5801448	2020576	Massive Sulphide	Outcrop	SD16133527
S894481	674096	5801448	2020576	Quartz Vein	Outcrop	SD16133527
S894482	674096	5801448	2020576	Chert	Outcrop	SD16133527
S894483	674015	5801371	2020576	Felsic Volcanics	Outcrop	SD16133527
S894484	674015	5801371	2020576	Chert	Outcrop	SD16133527
S894485	673530	5801228	1023182	Felsic Volcanics	Outcrop	SD16133527
S894486	673530	5801228	1023182	Chert	Outcrop	SD16133527
S894487	663477	5796697	55718	Basalt	Outcrop	SD16133527
S894488	661093	5795998	55730	Pyroxenite	Outcrop	SD16133527

Appendix 2: Outcrop data

The following table presents a list of all the outcrop described on the Ruby Hill West property during the 2016 field season including location*, lithology data and structural measurement

*UTM Zone 18 [Nad 83]

Outcrop ID	Easting	Northing	Rock Type	Structure type	Azimuth	Dip
AF16-001	661578	5797195	Basalt	Foliation	254	80
AF16-002	661635	5797190	Basalt			
AF16-003	661616	5797176	Basalt			
AF16-004	661658	5797209	Basalt	Foliation	255	75
AF16-005	661656	5797268	Felsic Volcanics	Bedding	255	65
AF16-006	661680	5797290	Intermediate Intrusive	Foliation	264	75
AF16-007A	661772	5797275	Basalt	Foliation	266	72
AF16-007B	661772	5797275	Felsic Volcanics			
AF16-008	661937	5796995	Basalt	Foliation	261	56
AF16-009	661900	5797190	Basalt	Foliation	272	57
AF16-010	661928	5797245	Basalt			
AF16-011	661934	5797340	Felsic Volcanics			
AF16-012	661966	5797361	Basalt	Foliation		
AF16-013	662000	5797371	Felsic Volcanics			
AF16-014	662004	5797524	Tonalite			
AF16-015	662152	5797402	Basalt			
AF16-016	662217	5797458	Tonalite			
AF16-017	662268	5797551	Tonalite			
AF16-018	662345	5797583	Tonalite	Foliation	242	58
AF16-019	662385	5797559	Tonalite			
AF16-020	662524	5797407	Basalt	Foliation	255	65
AF16-021	662593	5797706	Tonalite			
AF16-022	662811	5797802	Tonalite			
AF16-023	662946	5797510	Basalt	Foliation	260	70
AF16-024	662951	5797389	Basalt			
AF16-025	663026	5797288	Basalt			
AF16-026	669104	5799399	Tonalite	Foliation	252	70
AF16-027	669066	5799355	Felsic Volcanics			
AF16-028	669065	5799325	Basalt	Foliation	278	70
AF16-029	669099	5799321	Basalt			
AF16-031	669106	5799319	Basalt			
AF16-032	669104	5799307	Basalt	Foliation	306	70
AF16-033	675004	5801639	Basalt	Foliation		
AF16-034	675085	5801608	Tonalite			
AF16-035	675102	5801539	Basalt	Foliation	222	66
AF16-036	675112	5801515	Basalt	Foliation	290	74
AF16-037	675345	5801449	Basalt			
AF16-038	675372	5801440	Basalt			

AF16-039	675338	5801440	Basalt	Foliation	258	
AF16-040	675445	5801347	Conglomerate	Foliation	285	66
AF16-41	657806	5796679	Tonalite	Foliation	246	82
AF16-042	657830	5796694	Tonalite	Foliation	250	79
AF16-043	657729	5796575	Tonalite			
AF16-044A	658515	5796304	Pegmatite			
AF16-044B	658515	5796304	Pyroxenite			
AF16-045	665940	5797948	Basalt	Foliation		
AF16-046	665938	5797910	Basalt	Shear	255	64
AF16-047	665971	5797886	Basalt	Foliation	250	72
AF16-048	666024	5797811	Basalt		260	
AF16-049	665910	5797740	Basalt		265	69
AF16-050	665898	5797512	Basalt	Foliation	265	70
AF-16-051	665902	5797454	Pyroxenite			
AF16-052	665935	5797396	Conglomerate	Foliation	253	44
AF16-053	665890	5797479	Basalt	Shear	285	71
AF16-054	665951	5797479	Basalt	Foliation	266	70
AF16-059	665907	5797472	Basalt	Foliation		
AF16-060	665773	5797416	Pyroxenite			
AF16-061	665765	5797365	Pyroxenite			
AF16-062	665725	5797422	Basalt	Foliation	256	58
AF16-068	665645	5797285	Pyroxenite			
AF16-069	665661	5797253	Conglomerate	Schistosity	254	57
AF16-070	665626	5797242	Conglomerate			
AF16-071	665615	5797265	Pyroxenite			
AF16-072	665543	5797251	Pyroxenite			
AF16-073	665300	5797156	Conglomerate	Schistosity	264	20
AF16-078	680136	5805415	Pegmatite			
AF16-079	658824	5795517	Basalt	Bedding	237	61
AF16-080	658997	5795504	Basalt	Foliation	236	49
AF16-081A	658866	5795407	Basalt	Foliation	216	41
AF16-081B	658866	5795407	Felsic Volcanics	Foliation	216	41
AF16-082A	672226	5800844	Felsic Volcanics	Shear	228	62
AF16-084	672152	5800733	Pyroxenite			
AF16-085	671902	5800604	Gabbro	Foliation		
AF16-086	671814	5800579	Gabbro	Foliation		
AF16-087	671807	5800548	Felsic Volcanics	Foliation		
TG16-001	657891	5796692	Tonalite	Foliation	266	84
TG16-002	657835	5796584	Tonalite	Foliation	249	80
TG16-003A	657766	5796587	Tonalite	Foliation	258	82
TG16-003B	657766	5796587	Pegmatite			
TG16-004	657717	5796535	Tonalite	Foliation	250	80
TG16-005	665948	5797981	Pillow Basalt			

TG16-006	665957	5797966	Pillow Basalt	Foliation	236	55
TG16-007a	666017	5797916	Basalt	Foliation	255	50
TG16-007b	666017	5797916	Quartz Vein			
TG16-008a	666149	5797828	Basalt	Foliation	242	50
TG16-008b	666149	5797828	Quartz Vein			
TG16-009	666181	5797772	Basalt	Foliation	251	55
TG16-010	666253	5797851	Basalt	Foliation	235	55
TG16-011	666381	5797887	Basalt	Foliation	255	54
TG16-012	666402	5797896	Basalt	Foliation	255	45
TG16-013	666526	5797888	Basalt			
TG16-014	666540	5797895	Basalt			
TG16-015	666886	5797354	Conglomerate	Foliation	258	45
TG16-016	666828	5797353	Conglomerate	Foliation	278	45
TG16-017	666904	5797192	Conglomerate			
TG16-018	667122	5797102	Conglomerate			
TG16-019	665689	5797426	Basalt			
TG16-020	665666	5797434	Pillow Basalt	Foliation	251	56
TG16-021	665660	5797354	Pillow Basalt	Foliation	238	52
TG16-022	665581	5797306	Basalt	Foliation	237	52
TG16-023	665541	5797305	Pyroxenite	Foliation	263	45
TG16-024	665327	5796926	Tonalite	Foliation	245	52
TG16-026	665313	5796660	Conglomerate	Foliation	250	49
TG16-027	665326	5796579	Conglomerate	Foliation	241	50
TG16-028	665254	5796462	Pegmatite	Massive		
TG16-029	665245	5796455	Conglomerate			
TG16-030	665212	5796489	Tonalite	Foliation	256	35
TG16-031	665169	5796581	Conglomerate	Foliation	263	64
TG16-032	665117	5796619	Conglomerate	Foliation	272	40
TG16-035	665044	5796690	Conglomerate			
TG16-036	664916	5796674	Conglomerate			
TG16-037b	664908	5796699	Conglomerate			
TG16-038	664597	5796285	Conglomerate			
TG16-039	664600	5796978	Basalt			
TG16-040	661600	5796816	Conglomerate			
TG16-042	664439	5796806	Conglomerate	Foliation	234	41
TG16-043	664383	5796763	Conglomerate	Foliation	244	60
TG16-044	664256	5796614	Conglomerate			
TG16-045	664033	5796454	Conglomerate	Foliation	232	55
TG16-046	663477	5796697	Basalt			
TG16-047	663371	5796710	Amphibolite	Foliation	254	40
TG16-048	663328	5796622	Basalt			
TG16-049	674839	5802337	Tonalite			
TG16-050	660941	5796033	Basalt	Foliation	230	50

TG16-051	660972	5795960	Pyroxenite	Foliation	289	40
TG16-052	661093	5795998	Pyroxenite			
TG16-053	661101	5796021	Pyroxenite			
TG16-055	661070	5796046	Pyroxenite			
TG16-056	661023	5796133	Basalt			
TG16-057	661055	5796151	Basalt	Foliation	236	45
TG16-058	661050	5796177	Basalt			
TG16-059	661080	5796210	Basalt	Foliation	267	60
TG16-060	661102	5796221	Basalt			
TG16-061	661122	5796245	Basalt			
TG16-062	661146	5796303	Basalt	Foliation	266	50
TG16-063	661210	5796349	Basalt			
TG16-064	661515	5796303	Basalt			
TG16-065	661733	5796173	Pyroxenite			
TG16-066	674096	5801448	Chert/Massive Sulphide	Foliation		
TG16-069	674015	5801371	Tuff/Chert	Foliation		
TG16-071	673530	5801228	Tuff/Chert	Foliation		
DR16-001	654173	5793455	Basalt	Schistosity S1	10	84
DR16-004	654165	5793410	Basalt			
DR16-005	654123	5793294	Basalt	Vein	346	82
DR16-006	654528	5793142	Basalt	Schistosity S2	308	75
DR16-007	661533	5797227	Basalt			
DR16-008	661600	5797247	Basalt			
DR16-009	661588	5797365	Tonalite			
DR16-010	661648	5797469	Tonalite			
DR16-011	661698	5797474	Tonalite			
DR16-012	661732	5797444	Tonalite			
DR16-013	661761	5797375	Tonalite			
DR16-014	661809	5797379	Tonalite			
DR16-015	661801	5797334	Tonalite	Schistosity S1	248	99
DR16-016	661837	5797310	Felsic Volcanics	Schistosity S1	247	72
DR16-019	661815	5797296	Basalt	Schistosity S1	240	80
DR16-020	661747	5797286	Felsic Volcanics	Schistosity S1	252	72
DR16-021	661749	5797278	Basalt	Schistosity S1	271	50
DR16-022	662083	5796896	Basalt	Schistosity S1	254	50
DR16-023	661924	5797073	Basalt			
DR16-024	661926	5797111	Basalt	Schistosity S1	258	48
DR16-025	661889	5797142	Basalt	Schistosity S1	257	54
DR16-026	661846	5797196	Basalt	Schistosity S1	259	56
DR16-027	661822	5797217	Basalt			
DR16-028	661873	5797315	Felsic Volcanics	Schistosity S1	258	69
DR16-030	661855	5797344	Tonalite			
DR16-031	661899	5797333	Felsic Volcanics	Schistosity S1	234	38

DR16-032	661992	5797305	Basalt	Schistosity S1	268	52
DR16-033	662045	5797385	Felsic Volcanics			
DR16-036	662057	5797392	Felsic Volcanics			
DR16-037	662086	5797373	Basalt			
DR16-038	662049	5797621	Tonalite			
DR16-039	662058	579565	Tonalite			
DR16-040	662049	5797528	Tonalite			
DR16-042	662260	5797407	Basalt	Schistosity S1	252	53
DR16-043	662454	5797570	Tonalite			
DR16-044	662558	5797458	Basalt	Schistosity S1	279	42
DR16-45A	662537	5797727	Tonalite			
DR16-45B	662588	5797747	Tonalite			
DR16-46	662872	5797554	Basalt	Schistosity S1	242	50
DR16-48	662893	5797551	Basalt	Schistosity S1	274	46
DR16-49	662957	5797545	Basalt	Schistosity S1	255	75
DR16-50	662992	5797496	Basalt	Schistosity S1	260	54
DR16-51	663064	5797473	Basalt	Schistosity S2	262	42
DR16-52	663087	5797303	Basalt	Schistosity S3	261	61
DR16-53	663119	5797267	Basalt	Schistosity S2	263	49
DR16-54	663148	5797238	Basalt			
DR16-55	669145	5799405	Tonalite	Schistosity S1	250	49
DR16-56	669149	5799359	Felsic Volcanics	Schistosity S1	261	40
DR16-57	669172	5799357	Felsic Volcanics	Schistosity S1	251	45
DR16-58	669162	5799331	Pyroxenite			
DR16-59	669161	5799372	Tonalite			
DR16-60	669211	5799454	Tonalite	Schistosity S1	236	50
DR16-61	669169	5799416	Felsic Volcanics			
DR16-63	669431	5798593	Basalt	Schistosity S1	262	52
DR16-64	669442	5798573	Basalt	Schistosity S1	272	55
DR16-65	668854	5798374	Basalt	Schistosity S1	265	46
DR16-66a	668820	5798418	Basalt	Schistosity S1	264	65
DR16-66b	668824	5798422	Pyroxenite			
DR16-67	668641	5798806	Mafic tuff	Schistosity S1	254	41
DR16-68	674995	5801691	Tonalite	Schistosity S1	238	42
DR16-69	674997	5801661	Basalt	Schistosity S1	238	69
DR16-70	675159	5801683	Basalt	Schistosity S1	250	40
DR16-71	675261	5801655	Basalt	Schistosity S1	268	56
DR16-72	675299	5801676	Basalt	Schistosity S1	261	50
DR16-73	675346	5801640	Basalt	Schistosity S1	265	55
DR16-74	675432	5801613	Basalt	Schistosity S1	268	68
DR16-75	675557	5801527	Basalt	Schistosity S1	218	59
DR16-76	675547	5801431	Basalt	Schistosity S1	245	62
DR16-77	675563	5801385	Conglomerate	Schistosity S1	264	68

DR16-78a	657813	5796462	Tonalite	Schistosity S1	241	82
DR16-78b	657813	5796464	Pegmatite			
DR16-78c	657813	5796467	Basalt	Schistosity S1	274	78
DR16-78d	657813	5796466	Felsic Volcanics			
DR16-079	657787	5796451	Tonalite	Schistosity S1	244	82
DR16-080	658475	5796277	Pyroxenite			
DR16-081	658699	5796528	Pyroxenite	Schistosity S1	250	63
DR16-082a	665890	5797479	Basalt	Schistosity S1	285	59
DR16-082b	665892	5797478	Felsic Volcanics	Schistosity S1	282	54
DR16-083	665725	5797433	Felsic Volcanics	Schistosity S1	248	66
DR16-084	665695	5797357	Pyroxenite			
DR16-085	665559	5797331	Basalt	Schistosity S1	258	46
DR16-086	680235	5805431	Basalt	Schistosity S1	240	66
DR16-088	678576	5803813	Basalt	Schistosity S1	240	59
DR16-089	674781	5802359	Tonalite	Schistosity S1	215	85
DR16-090	658886	5795544	Basalt	Schistosity S1	243	42
DR16-091	658940	5795546	Basalt	Schistosity S1	241	52
DR16-092	658984	5795403	Wacke	Schistosity S2	229	40
DR16-096	658818	5795407	Basalt	Schistosity S1	236	48
DR16-097	655771	5795486	Basalt	Schistosity S1	246	47
DR16-098	658735	5795542	Basalt	Schistosity S1	254	62
DR16-100	674078	5801436	Felsic Volcanics			
DR16-104	674056	5801407	Felsic Volcanics			
DR16-105	673989	5801364	Felsic Volcanics	Schistosity S1	235	77
DR16-106	673935	5801313	Felsic Volcanics	Schistosity S1	287	55
DR16-108	673902	5801213	Basalt			
DR16-109	673644	5801117	Basalt			

Appendix 3:
Assay Certificates



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: EASTMAIN RESOURCES INC
 120 ADELAIDE STREET WEST
 TORONTO ON M5H 1T1

Page: 1
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

CERTIFICATE SD16133525

Project: RUBY HILL
 P.O. No.: RH- 16- 01- DIAGNOS
 This report is for 102 Rock samples submitted to our lab in Sudbury, ON, Canada on 13- AUG- 2016.
 The following have access to data associated with this certificate:

MICHEL FONTAINE DAVID RIVARD	GRIGOR HEBA EASTMAIN WEBTRIEVE	BILL MCGUINTY DAVID WILSON
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 23	Pulp Login - Rcvd with Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 22Y	Split Sample - Boyd Rotary Splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
SPL- 34X	Pulp Split - For send out
SPL- 22X	Crush split for send out
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
S- IRO8	Total Sulphur (Leco)	LECO
Au- AA24	Au 50g FA AA finish	AAS
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES
ME- MS61	48 element four acid ICP- MS	

To: EASTMAIN RESOURCES INC
 ATTN: DAVID RIVARD
 120 ADELAIDE STREET WEST
 TORONTO ON M5H 1T1

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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: EASTMAIN RESOURCES INC
 120 ADELAIDE STREET WEST
 TORONTO ON M5H 1T1

Page: 2 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP22	Au- AA24	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	1	5	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
S894101		0.94	1		0.12	0.84	1.1	10	<0.05	0.17	0.67	0.04	0.71	2.0	89	1.35
S894102		0.95	1		0.25	5.53	1.0	40	0.26	0.47	5.84	0.42	5.81	58.0	224	6.01
S894103		0.56	<1		0.03	6.95	0.9	240	0.70	0.08	3.27	0.05	9.05	7.7	33	35.6
S894104		1.09	3		0.18	6.60	1.5	40	0.12	0.18	8.32	0.15	4.88	46.2	175	5.11
S894105		0.90	2		0.41	6.63	12.7	40	0.15	0.18	9.33	0.08	4.31	33.2	131	4.15
S894106		1.07	1		0.45	6.86	7.6	140	0.12	0.13	8.55	0.10	5.45	44.7	165	13.50
S894107		0.78	4		0.13	7.26	2.1	340	0.48	0.16	5.95	0.13	7.01	28.1	106	12.10
S894108		0.87	<1		0.25	6.89	7.2	10	0.85	0.29	9.73	0.08	5.23	20.0	150	0.88
S894109		0.78	4		0.94	7.08	6.7	170	0.58	0.38	8.08	0.42	5.10	34.6	153	12.55
S894110		1.01	3		0.71	7.31	6.0	130	0.22	0.62	9.92	0.15	5.48	56.7	149	2.98
S894111		1.43	<1		0.14	0.61	3.7	10	2.00	0.11	1.00	0.09	0.77	4.0	46	0.75
S894112		1.16	<1		0.21	6.98	7.0	60	6.55	0.34	5.28	0.41	5.46	34.6	203	5.12
S894113		1.10	2		0.22	8.13	0.8	250	0.69	0.51	6.45	0.21	10.35	26.2	105	15.95
S894114		1.44	3		0.31	7.22	1.7	220	0.54	0.65	6.87	0.16	8.06	30.4	127	12.65
S894115		0.90	2		0.18	6.54	1.4	50	0.28	0.27	6.86	0.13	4.42	21.2	120	5.02
S894116		1.38	8		0.47	6.06	5.1	60	0.49	0.65	7.78	0.09	4.68	27.7	196	1.48
S894117		0.84	<1		0.62	6.58	5.4	40	0.27	0.38	7.52	0.13	6.49	40.0	198	1.40
S894118		0.86	<1		0.15	6.86	2.2	70	0.38	0.41	8.16	0.09	4.98	32.9	171	1.27
S894119		1.64	5		0.54	4.70	78.1	70	1.68	5.31	2.49	0.23	2.92	34.4	687	5.82
S894120		1.39	5		0.55	5.03	34.2	60	1.87	5.20	2.03	0.28	4.48	40.8	646	5.09
S894121		1.76	1		0.25	5.85	27.5	110	2.24	2.58	4.21	0.53	3.33	14.4	780	13.90
S894122		0.96	<1		0.13	6.37	2.9	70	0.29	0.34	7.87	0.11	4.95	37.0	225	1.87
S894123		1.69	<1		0.14	8.29	0.7	40	0.26	0.12	7.96	0.15	5.45	48.6	243	2.76
S894124		1.17	<1		0.02	5.88	2.3	40	0.92	0.16	2.34	0.26	11.85	8.3	33	2.58
S894125		0.06	851	859	2.12	7.53	4.8	670	1.01	2.50	3.38	0.19	22.9	26.5	41	1.05
S894126		0.51	<1		0.06	5.90	2.6	860	1.19	0.07	9.52	0.08	50.4	12.0	41	1.42
S894127		0.85	<1		0.14	7.87	1.4	110	0.12	0.08	7.85	0.15	4.17	41.9	250	1.78
S894128		1.11	<1		0.04	8.05	0.6	70	0.25	0.18	7.66	0.15	5.28	54.9	240	1.31
S894129		0.87	2		0.22	8.02	3.1	70	0.08	0.30	8.08	0.25	4.00	54.4	242	3.82
S894130		1.87	<1		0.06	6.84	0.2	30	0.23	0.09	5.30	0.11	6.53	48.1	265	1.83
S894131		0.84	1		0.03	8.63	0.5	60	0.51	0.21	7.83	0.14	4.59	51.9	253	2.19
S894132		0.54	<1		0.17	7.84	1.8	10	1.42	0.16	10.20	0.55	5.09	24.9	235	1.31
S894133		0.93	1		0.60	6.51	1.2	30	0.24	0.02	9.92	0.29	4.55	40.6	131	1.05
S894134		0.46	<1		0.11	6.92	3.4	100	0.14	0.10	7.42	0.13	5.67	41.3	214	2.78
S894135		0.89	1		0.86	7.21	15.9	120	0.68	0.04	6.90	0.53	6.47	44.5	144	3.41
S894136		0.62	<1		0.05	7.71	4.7	140	2.23	0.13	11.70	0.35	18.05	6.6	28	2.94
S894137		1.58	<1		0.16	2.03	0.8	10	0.37	<0.01	2.78	0.19	0.80	5.8	37	0.59
S894138		1.30	3		1.39	7.94	3.6	30	0.29	0.07	9.15	0.37	8.52	30.7	82	2.46
S894139		2.29	4		1.35	7.48	4.8	10	0.27	0.08	11.05	0.26	9.84	27.9	105	1.67
S894140		0.65	<1		0.27	6.19	1.3	40	0.14	0.06	6.63	0.07	8.95	30.4	170	1.35



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Page: 2 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
S894101		29.8	2.28	1.88	<0.05	0.1	0.011	0.05	<0.5	39.8	0.57	484	3.30	0.18	0.2	6.0
S894102		314	11.80	18.10	0.08	0.8	0.154	0.26	2.1	225	5.10	2570	1.19	1.35	1.5	53.8
S894103		3.2	2.21	15.10	0.11	2.1	0.020	0.41	4.5	99.0	0.84	496	0.97	2.60	1.8	14.2
S894104		153.0	9.49	16.20	0.06	0.5	0.061	0.35	1.9	137.0	4.44	2450	0.44	0.98	1.1	96.4
S894105		213	8.67	14.55	0.06	0.5	0.047	0.24	1.7	84.8	3.79	3790	0.55	0.52	1.1	65.3
S894106		291	10.30	15.70	0.06	0.5	0.062	0.74	2.1	165.0	4.78	2760	0.45	0.88	1.2	96.6
S894107		10.7	6.77	18.30	0.09	1.6	0.039	1.38	3.3	195.0	2.89	1960	0.49	1.14	1.6	57.5
S894108		111.0	7.45	13.45	0.05	0.5	0.052	0.06	2.2	28.9	4.47	5880	0.63	1.74	1.1	81.7
S894109		431	7.97	14.10	0.06	0.5	0.059	0.87	2.1	178.5	3.90	8040	1.00	0.79	1.0	76.4
S894110		888	10.50	21.1	0.07	0.6	0.078	0.34	2.4	162.5	4.50	3540	0.60	0.53	1.1	100.5
S894111		15.4	1.26	3.13	<0.05	<0.1	<0.005	0.04	0.5	27.0	0.33	271	1.92	0.16	2.6	9.2
S894112		17.1	7.91	16.50	0.07	0.8	0.056	0.53	2.2	263	4.85	2220	0.63	2.42	1.6	72.6
S894113		182.0	5.36	21.2	0.08	1.2	0.055	0.95	4.7	182.0	2.35	1760	42.5	1.16	1.8	38.3
S894114		217	7.40	18.90	0.07	1.0	0.069	0.76	4.0	141.0	2.95	2090	25.8	1.00	1.5	51.0
S894115		154.5	6.27	18.05	0.05	0.5	0.064	0.31	1.7	98.8	2.42	1500	1.18	0.77	1.2	34.7
S894116		94.3	12.15	14.50	0.08	0.5	0.061	0.37	1.8	68.3	4.65	3710	1.10	1.06	1.2	45.0
S894117		95.4	12.90	17.65	0.08	0.8	0.078	0.27	2.3	124.0	5.31	2930	0.66	0.88	1.5	70.6
S894118		35.8	14.40	14.60	0.09	0.6	0.055	0.34	1.7	82.3	4.49	4560	0.39	0.73	1.9	68.4
S894119		19.3	13.55	13.80	0.08	1.2	0.091	0.45	1.1	250	6.44	1540	2.19	0.54	2.0	73.5
S894120		84.0	15.05	13.95	0.08	1.4	0.090	0.40	2.0	270	6.06	1450	2.78	0.56	2.0	69.4
S894121		11.3	8.50	12.60	0.09	0.6	0.144	0.77	1.3	336	9.89	2180	0.71	0.42	0.7	140.0
S894122		32.0	14.55	15.65	<0.05	0.7	0.063	0.35	1.7	74.2	4.28	4740	0.78	0.64	1.7	78.0
S894123		111.5	8.95	17.35	<0.05	0.7	0.065	0.24	1.9	120.5	3.27	2130	0.53	1.97	1.2	126.0
S894124		24.3	1.89	12.95	0.08	1.7	0.015	0.17	5.9	38.1	0.33	387	1.27	3.39	1.3	11.5
S894125		7650	7.70	17.35	0.07	1.6	0.418	2.95	12.3	21.7	2.22	624	586	2.53	5.8	22.3
S894126		63.7	3.66	16.30	0.06	2.3	0.052	2.07	59.1	16.7	0.96	550	2.92	1.81	12.4	25.8
S894127		284	10.95	18.40	<0.05	0.6	0.068	0.25	1.5	128.0	3.97	2060	0.56	1.73	1.1	88.0
S894128		61.3	8.53	17.45	<0.05	0.5	0.064	0.19	2.1	52.4	3.02	1740	0.54	1.95	1.2	142.5
S894129		804	11.90	22.6	<0.05	1.1	0.063	0.27	1.5	171.0	4.38	2310	0.36	1.15	1.0	132.0
S894130		97.4	12.25	19.60	0.05	0.8	0.069	0.15	2.2	236	5.51	2450	0.41	1.80	2.4	125.5
S894131		17.8	9.20	18.00	<0.05	0.6	0.071	0.31	1.5	108.0	3.57	1980	0.59	2.21	1.2	142.0
S894132		228	8.63	18.95	<0.05	0.7	0.071	0.05	1.6	60.2	3.34	3410	2.16	0.94	1.5	96.3
S894133		407	9.92	15.25	<0.05	0.5	0.056	0.15	1.9	73.2	4.31	5480	0.76	0.86	1.0	64.8
S894134		72.1	10.85	17.20	<0.05	0.7	0.068	0.58	1.9	123.0	5.27	2680	0.30	1.54	1.3	78.2
S894135		219	10.35	19.40	0.05	0.6	0.074	0.84	2.3	148.5	5.25	2400	0.46	1.86	1.5	77.3
S894136		7.7	2.12	21.9	<0.05	1.8	0.019	0.41	9.0	28.9	0.87	1200	0.98	0.81	1.8	11.0
S894137		179.0	1.64	2.99	<0.05	<0.1	0.010	0.04	<0.5	17.4	0.35	1820	1.64	0.39	0.3	8.6
S894138		1210	8.51	18.80	0.05	1.1	0.129	0.22	3.5	226	3.95	2120	0.92	1.28	1.9	33.0
S894139		1320	9.10	19.40	<0.05	0.9	0.130	0.06	3.8	181.5	4.61	2040	0.68	0.45	2.1	31.9
S894140		235	9.80	16.55	<0.05	0.8	0.092	0.21	3.2	340	5.65	1460	0.45	1.68	2.3	50.4



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Page: 2 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
S894101		40	0.7	9.1	<0.002	0.03	0.08	5.2	2	0.2	9.7	<0.05	0.13	0.05	0.037	0.04
S894102		150	1.8	36.2	0.008	1.20	0.21	34.1	6	2.1	65.6	0.09	0.22	0.16	0.399	0.26
S894103		240	6.2	54.9	<0.002	0.01	0.23	5.4	1	0.3	197.0	0.14	<0.05	1.22	0.149	0.37
S894104		170	2.1	58.5	0.003	0.11	0.31	42.1	2	0.4	115.0	0.07	<0.05	0.13	0.410	0.41
S894105		290	3.6	55.1	0.003	0.09	0.25	35.4	2	0.3	105.0	0.06	0.08	0.12	0.339	0.31
S894106		180	3.6	196.5	0.003	0.17	0.23	47.8	2	0.4	112.0	0.07	<0.05	0.14	0.419	1.18
S894107		230	7.5	199.5	<0.002	0.01	0.12	28.4	1	0.7	111.5	0.10	<0.05	0.87	0.292	1.05
S894108		200	9.1	5.0	<0.002	0.17	0.33	44.3	2	0.4	145.0	0.06	<0.05	0.17	0.393	0.05
S894109		330	27.1	194.0	<0.002	0.33	0.23	38.9	2	0.7	80.9	0.08	<0.05	0.17	0.361	1.16
S894110		300	10.1	57.0	0.012	0.96	0.46	45.0	5	0.5	203	0.07	0.08	0.12	0.383	0.44
S894111		2140	1.3	7.3	<0.002	0.01	0.10	2.6	1	5.0	9.3	2.70	<0.05	0.02	0.033	0.04
S894112		270	13.2	147.5	<0.002	0.01	0.40	47.4	1	29.6	55.4	0.14	<0.05	0.19	0.435	0.61
S894113		290	15.8	209	0.008	0.17	0.15	28.5	2	1.2	135.0	0.12	0.12	1.09	0.310	1.17
S894114		250	24.9	154.0	0.004	0.42	0.16	33.5	2	1.0	116.5	0.10	0.14	0.67	0.332	0.80
S894115		240	5.1	66.1	<0.002	0.09	0.23	36.8	2	0.5	177.5	0.07	<0.05	0.16	0.351	0.36
S894116		160	10.7	48.7	0.015	0.60	0.15	42.7	4	0.7	97.3	0.07	0.16	0.17	0.356	0.26
S894117		240	2.7	52.2	0.004	0.09	0.21	46.7	3	0.6	68.5	0.08	0.13	0.11	0.389	0.37
S894118		230	2.2	75.7	0.002	0.18	0.14	45.8	2	1.0	46.8	0.11	0.05	0.21	0.395	0.42
S894119		160	15.0	108.0	0.005	6.31	0.60	30.4	4	9.5	23.8	0.59	0.27	0.78	0.189	0.68
S894120		240	14.7	93.5	0.003	6.11	0.45	28.7	4	8.9	26.3	0.78	0.27	1.23	0.171	0.60
S894121		140	9.1	223	<0.002	2.51	0.68	38.1	2	9.8	15.5	0.12	0.12	0.21	0.213	1.28
S894122		130	4.4	85.1	0.003	0.05	0.13	50.6	2	0.9	37.5	0.11	0.05	0.23	0.411	0.46
S894123		220	2.9	51.4	<0.002	0.04	0.33	55.2	2	0.4	143.5	0.08	<0.05	0.17	0.475	0.31
S894124		190	7.8	41.9	<0.002	0.10	0.20	4.2	1	0.5	116.0	0.11	<0.05	1.45	0.109	0.22
S894125		1170	16.1	62.1	0.014	0.98	1.12	21.0	8	6.7	587	0.34	0.35	2.25	0.386	0.25
S894126		650	15.4	70.9	0.003	0.26	1.91	10.1	2	2.2	574	0.72	<0.05	3.69	0.615	0.43
S894127		110	1.4	21.0	0.007	0.17	0.28	52.6	3	0.4	99.7	0.08	0.05	0.17	0.465	0.14
S894128		210	0.8	9.1	<0.002	0.04	0.33	54.4	1	0.4	101.5	0.07	<0.05	0.17	0.469	0.07
S894129		150	1.1	24.7	0.003	0.65	0.76	48.5	4	0.4	58.2	0.07	0.13	0.13	0.423	0.19
S894130		260	0.9	7.1	<0.002	0.15	0.83	37.1	2	0.6	43.6	0.15	<0.05	0.27	0.552	0.08
S894131		180	1.9	20.8	<0.002	0.01	0.27	51.7	1	1.1	134.0	0.07	<0.05	0.14	0.491	0.20
S894132		150	5.9	2.7	0.003	0.09	0.53	50.5	2	0.5	165.5	0.09	<0.05	0.20	0.457	0.04
S894133		170	2.3	16.1	0.003	0.21	0.47	33.8	3	0.3	96.5	0.06	0.08	0.16	0.275	0.10
S894134		80	2.6	50.7	0.002	0.03	0.29	44.4	1	0.5	124.0	0.09	<0.05	0.13	0.418	0.30
S894135		220	155.0	98.8	0.006	0.08	0.39	47.9	2	0.6	137.5	0.09	0.05	0.18	0.508	0.48
S894136		380	12.4	42.2	<0.002	<0.01	0.93	6.2	1	3.6	100.0	0.12	<0.05	1.85	0.129	0.23
S894137		230	1.5	4.2	<0.002	0.06	0.11	2.7	1	<0.2	18.7	<0.05	<0.05	0.02	0.035	0.03
S894138		280	6.4	38.6	0.007	0.38	0.61	53.7	3	0.5	194.5	0.11	0.08	0.44	0.522	0.22
S894139		150	7.8	6.0	0.005	0.30	0.87	56.1	3	0.5	251	0.14	0.08	0.46	0.617	0.07
S894140		240	2.0	32.5	0.004	0.19	0.38	58.1	3	0.6	163.0	0.13	0.05	0.39	0.609	0.15



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	S- IR08
		U	V	W	Y	Zn	Zr	S
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.01
S894101		<0.1	26	0.2	2.3	25	2.9	
S894102		0.1	254	0.3	16.8	196	24.6	
S894103		0.4	40	0.1	3.6	40	72.4	
S894104		0.1	258	0.5	19.6	85	9.2	
S894105		0.1	192	0.8	17.6	102	9.6	
S894106		0.1	266	0.7	22.8	89	8.7	
S894107		0.3	149	1.1	11.7	73	56.1	
S894108		1.3	237	0.7	15.1	280	9.5	
S894109		0.7	228	0.9	15.2	215	9.2	
S894110		0.5	265	20.2	23.6	122	10.4	
S894111		0.1	16	32.8	1.4	16	0.8	
S894112		0.2	269	1.2	17.4	113	20.3	
S894113		0.5	138	0.9	12.6	129	38.2	
S894114		0.4	167	29.0	12.8	161	30.3	
S894115		0.1	230	2.9	16.3	62	9.5	
S894116		0.2	241	0.5	19.2	105	11.9	
S894117		0.1	297	0.7	19.4	89	17.6	
S894118		0.1	235	29.9	18.8	83	11.4	
S894119		0.2	144	2.3	8.4	175	42.3	
S894120		0.4	134	2.3	8.0	175	49.9	
S894121		0.1	185	1.1	11.5	260	16.9	
S894122		0.1	244	0.5	20.3	85	11.2	
S894123		0.1	280	0.6	20.5	99	10.0	
S894124		0.4	35	2.4	3.0	52	54.1	
S894125		0.9	194	3.4	17.2	91	53.5	
S894126		0.7	88	0.3	22.9	130	74.8	
S894127		<0.1	285	0.4	16.6	108	9.7	
S894128		<0.1	294	0.7	19.8	99	7.3	
S894129		<0.1	301	0.6	16.0	125	13.7	
S894130		0.1	322	0.7	18.5	119	19.7	
S894131		<0.1	296	0.5	19.0	96	11.7	
S894132		0.1	255	1.0	19.0	158	12.5	
S894133		0.1	199	0.7	14.6	150	10.0	
S894134		<0.1	291	0.9	17.6	94	13.1	
S894135		0.1	305	0.5	19.8	193	12.1	
S894136		0.5	48	5.1	4.3	72	58.4	
S894137		<0.1	22	0.3	1.7	58	0.9	
S894138		0.1	317	1.8	25.8	105	15.9	
S894139		0.1	318	2.4	28.2	93	19.6	
S894140		0.1	374	2.0	27.1	96	14.4	



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Page: 3 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP22	Au- AA24	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	1	5	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
S894141		1.50	<1		0.33	6.58	4.7	90	0.14	0.20	6.88	0.16	4.87	33.3	176	4.37
S894142		0.76	<1		0.04	5.06	1.5	10	1.25	0.02	7.08	0.06	0.52	2.6	29	0.49
S894143		1.43	<1		0.07	6.39	5.7	80	0.19	0.66	7.58	0.36	5.80	44.0	148	1.89
S894144		1.10	3		0.14	6.06	2.5	60	7.55	1.16	9.14	0.51	5.97	27.6	119	0.57
S894145		0.96	1		0.19	5.91	1.8	60	5.12	1.88	9.75	0.58	3.92	30.3	103	0.48
S894146		0.86	<1		0.10	7.15	2.1	40	0.16	0.09	5.12	0.14	5.07	44.6	173	1.69
S894147		0.78	3		2.04	7.82	22.3	80	1.69	1.69	11.20	1.45	4.89	29.9	141	2.38
S894148		1.44	1		0.61	7.12	13.8	100	4.46	0.65	10.65	0.35	4.22	33.6	175	1.61
S894149		0.95	<1		0.08	6.78	1.3	30	116.5	0.35	0.15	0.11	0.77	0.7	10	22.4
S894150		1.31	<1		0.09	7.86	5.5	170	1.77	0.52	4.52	0.18	5.11	49.2	250	2.48
S894151		1.42	<1		0.03	1.59	0.2	40	0.16	0.02	1.64	0.03	0.71	9.8	72	1.42
S894152		3.15	4		0.12	4.43	<0.2	80	0.13	0.04	5.77	0.09	2.69	25.8	178	3.46
S894153		2.22	4		0.03	3.02	0.3	10	0.07	0.02	3.26	0.06	2.78	20.9	43	0.45
S894154		1.51	98		0.09	2.60	1.6	10	0.88	0.06	3.32	0.19	1.94	7.0	90	1.00
S894155		0.89	1		0.09	7.11	1.4	30	0.27	0.03	7.51	0.08	19.15	43.2	69	2.39
S894156		2.39	1	<5	0.57	7.68	1.9	250	0.17	0.35	5.92	0.08	7.69	43.0	177	3.22
S894157		1.03	<1		0.04	0.48	0.2	50	0.06	0.17	0.16	<0.02	0.59	0.5	37	0.22
S894158		2.18	8		1.13	5.08	2.0	140	0.47	2.24	3.17	0.51	7.56	42.8	360	2.03
S894159		2.90	<1		0.43	5.77	7.9	160	0.31	1.20	4.02	0.15	5.54	44.2	640	2.63
S894160		1.41	1	<5	1.56	3.80	11.6	210	0.60	4.21	1.44	0.99	23.0	144.5	172	1.37
S894161		2.74	2		0.72	5.03	0.5	130	2.57	2.80	6.01	1.39	9.17	15.0	391	2.18
S894162		1.82	<1		0.02	6.91	<0.2	60	0.21	0.04	7.58	0.11	6.30	41.0	222	0.20
S894163		3.07	1		0.02	7.18	0.6	30	0.32	0.16	7.22	0.08	5.70	45.8	223	0.62
S894164		1.31	5		0.94	6.66	8.5	350	1.08	0.35	0.57	0.20	49.8	13.2	26	1.47
S894165		0.89	4		0.86	6.68	7.5	130	0.41	0.44	4.39	0.20	7.32	18.3	413	2.51
S894166		2.89	<1		0.32	4.89	0.2	760	3.27	0.44	0.47	0.25	31.7	5.2	33	11.80
S894167		2.16	<1		0.17	6.14	<0.2	30	0.53	0.03	6.52	0.19	16.75	54.5	65	0.73
S894168		3.21	7		1.63	4.50	10.6	320	0.75	2.47	1.32	0.57	23.2	168.5	129	3.36
S894169		1.89	4		1.73	5.02	8.2	400	0.70	2.61	0.97	1.40	30.0	152.0	91	4.32
S894170		1.16	4		2.14	4.38	8.5	140	0.62	2.40	0.44	1.39	15.30	86.0	186	1.30
S894171		1.35	7		2.68	4.22	8.2	170	0.36	4.81	0.71	0.58	21.3	51.9	155	1.11
S894172		3.27	1		1.37	3.15	13.4	160	0.56	3.00	1.21	0.48	26.0	186.5	146	2.36
S894173		2.28	2		0.22	7.58	1.3	80	0.52	0.11	8.01	0.15	13.80	39.9	75	1.12
S894174		2.38	2		0.43	7.00	5.6	250	0.25	0.20	6.32	0.41	6.49	34.0	292	5.91
S894175		0.07	854	856	2.12	7.46	4.3	660	0.90	2.41	3.35	0.17	22.0	22.0	42	1.00
S894176		0.72	1		0.05	5.77	2.3	800	1.31	0.05	9.38	0.09	49.0	11.4	40	1.39
S894177		1.31	9		0.33	7.72	4.1	280	0.35	0.11	5.72	0.17	5.57	35.9	215	4.95
S894178		2.15	57		0.18	6.85	0.6	40	0.27	0.09	6.34	2.47	6.69	44.9	269	2.47
S894179		2.72	11		0.25	6.43	0.3	110	0.31	0.10	6.64	1.97	6.55	51.7	266	3.07
S894180		1.03	1		0.04	6.96	1.1	10	0.06	0.05	9.58	0.09	3.21	39.1	836	0.55



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Page: 3 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S894141		324	7.80	15.80	<0.05	0.5	0.053	0.49	1.9	189.5	3.00	1620	0.97	1.14	1.5	60.3
S894142		25.3	3.97	15.00	<0.05	<0.1	0.036	0.06	<0.5	9.4	0.35	3150	1.22	0.02	0.1	3.8
S894143		38.8	14.40	17.30	0.06	0.9	0.078	0.28	1.9	241	4.65	6460	0.38	0.90	1.5	84.7
S894144		167.0	15.85	17.85	<0.05	0.7	0.072	0.21	2.2	106.5	4.39	7220	5.18	0.58	3.2	47.9
S894145		308	16.15	17.50	0.05	0.7	0.079	0.15	1.5	92.8	3.80	10450	1.35	0.40	3.2	43.2
S894146		137.0	12.70	16.80	<0.05	0.9	0.073	0.25	1.4	303	4.78	3550	0.31	2.27	1.6	69.4
S894147		784	9.35	21.4	<0.05	0.4	0.072	0.43	2.1	73.2	2.79	4640	2.06	0.40	0.8	67.2
S894148		328	10.50	18.40	<0.05	0.5	0.060	0.40	1.7	105.0	3.98	3580	0.40	1.52	0.9	89.6
S894149		9.7	0.49	32.0	0.10	4.8	<0.005	3.46	<0.5	9.6	0.06	129	1.81	4.77	52.3	2.9
S894150		58.7	8.02	14.60	0.07	0.5	0.062	0.82	1.7	153.0	3.68	1680	0.26	3.29	1.3	140.0
S894151		34.4	2.65	3.82	<0.05	0.1	0.016	0.25	<0.5	10.2	1.40	407	1.42	0.20	0.2	29.6
S894152		161.5	4.97	8.61	<0.05	0.3	0.036	0.53	1.1	13.6	2.78	853	1.55	0.30	0.6	68.9
S894153		66.1	4.89	7.74	<0.05	0.3	0.032	0.06	1.0	11.0	1.95	727	1.43	0.83	0.7	20.4
S894154		13.7	2.31	12.10	<0.05	0.1	0.013	0.03	0.8	5.7	0.58	336	4.39	0.44	0.4	13.8
S894155		62.5	8.41	18.45	<0.05	1.2	0.066	0.37	8.0	37.6	4.19	1370	0.85	1.20	3.4	66.4
S894156		82.8	7.81	16.95	0.06	0.4	0.096	1.35	3.2	50.9	5.54	1520	0.35	2.11	1.7	95.7
S894157		7.2	0.52	2.07	<0.05	0.1	<0.005	0.11	<0.5	5.5	0.04	81	2.26	0.16	0.5	1.3
S894158		210	15.80	13.25	<0.05	0.9	0.122	0.58	3.0	40.9	4.68	1280	2.37	1.52	0.7	193.0
S894159		46.9	6.92	15.35	<0.05	1.0	0.134	0.99	2.2	65.2	7.17	1640	1.67	1.63	0.6	13.7
S894160		348	24.3	12.65	<0.05	1.7	0.201	0.45	9.2	54.6	1.40	509	2.77	0.11	3.0	182.0
S894161		361	15.45	14.75	<0.05	0.8	0.166	0.71	4.1	24.3	4.34	1400	1.45	0.11	1.7	247
S894162		23.1	7.48	14.00	<0.05	0.6	0.056	0.15	2.4	7.0	4.02	1760	0.55	1.02	1.5	83.8
S894163		152.5	7.64	19.80	<0.05	0.5	0.059	0.15	2.1	12.0	3.99	906	0.67	3.03	1.8	96.5
S894164		121.0	6.27	17.15	<0.05	3.6	0.036	1.94	27.4	33.8	0.51	194	3.58	2.87	3.4	69.9
S894165		59.1	8.99	17.95	<0.05	1.0	0.091	0.88	3.0	28.5	5.22	1470	1.36	2.49	1.7	53.7
S894166		48.5	3.48	11.55	<0.05	3.0	0.017	2.03	14.3	39.9	0.59	190	5.96	1.25	1.8	23.5
S894167		499	11.15	22.3	<0.05	1.8	0.101	0.12	6.0	30.9	4.35	1440	0.56	1.76	5.8	63.2
S894168		147.5	20.0	12.40	<0.05	2.1	0.108	1.51	9.4	38.8	1.71	803	2.52	0.88	3.9	83.4
S894169		121.0	19.80	12.95	<0.05	2.8	0.059	2.63	12.4	29.3	1.14	552	2.76	1.16	4.9	75.5
S894170		283	23.9	12.70	<0.05	1.2	0.103	0.52	6.7	68.0	2.55	893	2.49	0.73	2.6	137.5
S894171		189.5	24.3	14.85	<0.05	1.0	0.069	0.50	9.1	53.4	2.07	987	4.79	0.89	2.8	124.5
S894172		246	32.1	9.12	<0.05	1.4	0.045	0.91	11.6	27.2	0.80	462	3.41	0.58	2.8	117.5
S894173		134.0	10.40	22.9	<0.05	1.2	0.069	0.47	4.8	29.5	3.78	1660	1.34	1.06	5.3	38.2
S894174		45.5	9.22	18.95	<0.05	0.8	0.111	1.41	2.1	83.7	5.63	1710	0.41	1.05	2.2	80.4
S894175		7620	7.61	16.10	<0.05	1.5	0.402	2.93	10.8	21.8	2.20	629	585	2.49	5.5	19.0
S894176		62.7	3.69	14.60	<0.05	2.2	0.054	2.02	52.6	15.9	1.03	554	2.89	1.78	11.7	24.1
S894177		57.2	8.29	17.20	<0.05	0.7	0.048	1.22	2.2	49.8	4.30	1520	0.47	2.29	1.7	61.8
S894178		106.5	9.35	17.50	<0.05	0.9	0.298	0.38	2.3	34.4	5.32	1500	0.84	1.44	2.2	81.9
S894179		167.0	9.84	19.10	<0.05	0.7	0.631	0.67	2.2	48.3	5.15	1600	0.65	1.22	2.2	98.8
S894180		65.0	6.56	19.45	<0.05	0.4	0.052	0.07	1.3	15.5	3.85	1140	1.16	0.34	1.0	153.0



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Page: 3 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
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CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
S894141		340	3.8	96.4	0.004	0.30	0.55	39.2	2	0.5	151.5	0.08	0.05	0.24	0.310	0.50
S894142		30	3.8	6.2	<0.002	0.01	0.81	2.4	1	0.3	493	<0.05	<0.05	0.02	0.019	0.04
S894143		240	1.1	23.8	0.002	0.06	1.78	47.7	1	0.8	39.8	0.10	<0.05	0.19	0.514	0.17
S894144		260	1.1	12.9	0.009	0.57	2.26	38.9	3	18.9	50.1	0.13	<0.05	0.15	0.428	0.33
S894145		300	1.6	9.6	0.005	1.15	1.98	35.8	4	15.1	64.5	0.09	<0.05	0.15	0.411	0.28
S894146		280	1.1	29.4	0.002	0.75	0.27	49.8	3	0.7	87.5	0.10	<0.05	0.21	0.557	0.17
S894147		450	317	64.7	0.008	0.27	0.57	29.7	4	1.1	111.0	<0.05	0.17	0.10	0.284	0.47
S894148		210	18.6	49.7	0.002	0.08	0.87	36.0	2	3.7	205	0.06	0.06	0.10	0.347	0.39
S894149		540	7.9	770	<0.002	0.03	0.14	0.4	1	6.1	11.6	47.7	<0.05	2.86	<0.005	4.46
S894150		230	3.0	78.2	<0.002	0.02	0.26	47.6	1	0.6	149.5	0.32	<0.05	0.15	0.447	0.55
S894151		20	<0.5	9.6	<0.002	0.03	0.12	8.7	1	<0.2	9.3	0.05	<0.05	0.03	0.056	0.05
S894152		120	0.6	25.1	<0.002	0.05	0.21	24.3	1	0.2	44.1	0.05	0.08	0.09	0.229	0.12
S894153		60	<0.5	2.1	<0.002	0.06	0.17	21.9	1	0.3	22.4	0.05	<0.05	0.07	0.268	<0.02
S894154		60	30.1	1.4	<0.002	0.03	0.27	7.6	1	0.2	48.9	<0.05	<0.05	0.05	0.097	0.03
S894155		620	2.8	23.3	<0.002	0.48	0.39	34.6	2	0.4	123.5	0.24	0.05	0.74	0.416	0.24
S894156		220	5.1	114.0	<0.002	2.21	0.43	44.1	2	0.9	187.0	0.11	0.59	0.33	0.412	0.79
S894157		30	0.8	11.1	<0.002	0.03	0.06	0.3	<1	0.2	9.5	<0.05	<0.05	0.22	0.012	0.05
S894158		190	21.8	44.1	0.007	8.77	0.15	34.6	4	1.0	63.6	0.06	0.32	0.68	0.149	0.43
S894159		150	17.2	63.5	0.003	1.92	0.12	42.3	2	1.5	61.1	0.05	0.10	0.34	0.210	0.63
S894160		460	25.4	30.2	0.010	>10.0	0.21	14.3	8	2.1	116.5	0.24	0.61	2.24	0.213	0.27
S894161		190	23.3	42.5	0.005	7.00	0.26	28.7	3	2.4	148.0	0.12	0.20	0.86	0.250	0.39
S894162		270	0.8	5.3	<0.002	0.10	0.14	52.3	1	0.4	77.9	0.10	<0.05	0.22	0.424	0.02
S894163		250	1.1	8.2	0.005	0.55	0.13	44.1	2	0.4	161.5	0.11	<0.05	0.21	0.394	0.08
S894164		180	93.4	65.5	0.003	4.84	0.18	5.8	1	1.0	68.9	0.37	0.22	7.07	0.114	0.66
S894165		250	26.6	62.1	0.005	3.06	0.26	46.6	3	1.7	105.0	0.11	0.36	0.50	0.383	0.56
S894166		200	12.0	131.0	0.002	1.22	0.07	3.4	1	0.9	43.7	1.59	0.06	6.87	0.067	1.04
S894167		310	1.1	2.9	0.002	0.37	0.14	36.6	3	1.0	110.5	0.37	<0.05	0.54	0.927	0.04
S894168		300	20.8	70.5	0.008	>10.0	0.53	15.9	5	1.8	67.1	0.30	0.31	3.09	0.246	0.71
S894169		330	27.8	103.5	0.006	>10.0	0.35	12.1	4	1.5	72.0	0.42	0.41	4.83	0.228	1.02
S894170		280	22.3	19.0	0.006	>10.0	0.62	22.6	5	1.7	23.4	0.18	0.31	1.62	0.288	0.29
S894171		370	38.2	19.3	0.009	>10.0	1.35	18.6	5	1.5	38.2	0.20	0.44	1.72	0.287	0.56
S894172		240	19.4	60.0	0.004	>10.0	0.21	8.3	5	1.1	74.9	0.21	0.18	2.38	0.161	0.50
S894173		460	3.9	29.3	0.004	0.47	0.39	42.8	1	0.6	162.0	0.35	0.13	0.59	0.894	0.26
S894174		330	8.1	65.1	0.004	0.97	1.75	35.4	2	0.9	112.5	0.16	0.12	0.22	0.508	0.64
S894175		1170	15.5	57.5	0.015	0.97	0.97	19.9	8	6.7	581	0.35	0.35	2.14	0.386	0.23
S894176		660	13.4	63.2	0.002	0.25	1.66	10.6	1	2.0	553	0.64	<0.05	3.65	0.608	0.44
S894177		160	33.8	66.5	<0.002	2.15	1.40	38.4	2	0.5	107.0	0.11	0.17	0.26	0.400	0.71
S894178		220	16.9	17.1	0.003	0.74	0.18	41.1	1	1.2	109.0	0.15	0.16	0.26	0.535	0.27
S894179		280	13.5	30.7	0.002	1.29	0.37	28.0	2	2.0	140.5	0.15	0.16	0.21	0.511	0.53
S894180		120	3.1	2.7	0.002	0.04	0.37	39.5	<1	0.3	179.0	0.06	0.10	0.14	0.307	0.02



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 TORONTO ON M5H 1T1

Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	S- IR08
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	S % 0.01
S894141		0.1	190	0.6	13.4	60	9.7	
S894142		<0.1	112	0.2	6.0	68	0.7	
S894143		0.1	294	0.7	21.5	197	17.1	
S894144		0.1	254	1250	18.0	130	14.0	
S894145		0.1	218	148.0	17.5	115	12.4	
S894146		0.1	325	3.5	20.2	119	17.8	
S894147		0.1	228	239	18.4	395	7.8	
S894148		0.2	239	2.5	16.6	135	8.3	
S894149		6.0	2	0.7	4.1	29	41.3	
S894150		0.2	274	0.9	17.3	106	6.4	
S894151		<0.1	64	0.8	2.7	24	1.3	
S894152		<0.1	148	36.6	9.3	51	4.4	
S894153		<0.1	155	0.3	10.2	42	5.1	
S894154		<0.1	67	0.3	4.4	50	3.4	
S894155		0.2	163	0.3	31.0	78	35.7	
S894156		0.1	248	0.5	17.6	101	5.9	
S894157		0.3	2	0.1	0.5	2	2.3	
S894158		0.2	150	2.5	11.6	249	33.9	
S894159		0.1	223	2.0	13.2	164	31.5	
S894160		0.6	69	1.0	6.9	339	68.1	15.90
S894161		0.3	141	0.6	9.8	473	22.5	
S894162		0.1	249	0.2	16.4	77	7.6	
S894163		0.1	232	0.2	14.2	67	10.0	
S894164		4.8	30	1.0	10.7	76	146.0	
S894165		0.2	233	10.7	13.6	143	19.5	
S894166		5.7	19	0.4	5.7	87	110.0	
S894167		0.2	343	0.2	27.4	132	56.8	
S894168		1.1	86	1.3	11.3	197	73.0	19.20
S894169		2.0	71	0.9	11.1	378	103.5	18.00
S894170		0.5	129	1.6	9.5	379	33.0	16.70
S894171		0.7	110	0.8	9.0	249	31.8	15.40
S894172		0.9	48	0.6	7.7	178	50.6	29.8
S894173		0.1	309	1.3	23.6	118	26.3	
S894174		0.1	291	0.6	18.0	223	21.2	
S894175		0.9	194	3.2	14.7	91	68.7	
S894176		0.7	91	0.3	18.2	123	77.4	
S894177		0.1	221	1.0	14.4	115	19.9	
S894178		0.1	284	0.2	17.8	831	24.9	
S894179		0.1	288	0.2	17.4	893	21.5	
S894180		0.1	195	1.0	9.2	57	7.8	



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 120 ADELAIDE STREET WEST
 TORONTO ON M5H 1T1

Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP22	Au- AA24	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	1	5	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
S894181		2.96	1		0.04	7.27	<0.2	30	0.32	0.03	5.88	0.10	9.78	50.2	18	0.48
S894182		2.31	<1		0.01	0.47	<0.2	50	0.06	0.03	0.08	<0.02	1.33	0.4	54	0.11
S894183		2.74	2		0.15	0.26	1.1	10	<0.05	0.13	0.09	<0.02	1.00	3.6	53	0.10
S894184		2.02	7		1.64	4.40	9.6	240	0.37	2.16	2.62	0.15	12.35	91.0	302	2.58
S894185		2.65	<1		0.08	0.14	<0.2	10	<0.05	0.14	0.03	0.13	0.77	0.5	50	0.06
S894186		1.95	7		0.09	6.18	1.0	30	0.38	0.04	6.62	0.09	6.39	56.4	347	0.41
S894187		1.88	6		0.38	7.98	7.8	670	1.09	2.46	3.13	0.24	17.35	18.0	179	2.27
S894188		2.90	17	17	1.39	4.15	6.5	450	0.40	1.92	3.10	1.30	19.65	171.5	106	1.10
S894189		1.30	1		0.03	7.71	3.6	90	0.21	0.03	7.50	0.10	4.79	50.1	265	1.44
S894190		2.04	12		0.06	7.17	24.3	90	0.25	0.02	7.21	0.15	14.30	54.4	293	1.18
S894191		1.45	1		<0.01	0.09	0.6	<10	<0.05	0.02	0.08	<0.02	0.18	0.5	43	<0.05
S894192		3.38	3		0.05	7.01	10.2	10	0.11	0.05	6.52	0.08	3.34	52.3	285	0.74
S894193		1.89	<1		0.09	6.75	0.6	80	0.16	0.11	5.22	0.07	5.67	40.6	229	0.96
S894194		1.24	7		0.34	7.16	6.3	120	0.24	0.05	7.25	0.11	4.61	44.4	216	0.62
S894195		1.73	<1		0.02	7.13	1.5	80	0.14	0.09	9.05	0.07	4.59	38.6	204	0.48
S894196		1.83	77		0.15	8.55	3.9	310	0.86	4.28	7.05	0.08	4.16	44.4	306	1.26
S894197		1.20	6		<0.01	1.45	2.9	10	<0.05	0.09	1.59	0.02	1.42	8.2	65	0.15
S894198		2.33	1		0.04	2.97	3.6	80	0.13	0.04	1.89	0.05	2.67	12.6	75	0.60
S894199		1.82	17		0.40	7.72	1.0	300	6.33	4.46	2.76	0.46	26.8	36.6	167	272
S894200		2.18	2		0.02	7.22	0.5	30	0.31	0.06	8.29	0.13	9.05	53.1	246	6.89
S894201		1.75	1		<0.01	6.50	1.3	10	0.20	0.02	9.13	0.10	4.85	58.3	501	0.79
S894202		1.39	3710	3290	3.58	4.49	9900	120	0.16	0.04	2.89	0.26	3.71	38.0	179	1.74



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Page: 4 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S894181		154.0	9.57	17.70	<0.05	0.8	0.080	0.16	3.5	14.2	4.02	1560	0.46	2.50	2.1	49.9
S894182		1.8	0.43	1.22	<0.05	0.2	<0.005	0.12	0.7	1.2	0.02	48	3.30	0.22	0.3	0.9
S894183		10.0	1.34	0.59	<0.05	<0.1	<0.005	0.03	0.5	1.8	0.04	52	3.10	0.12	<0.1	31.1
S894184		217	20.2	11.00	<0.05	1.3	0.056	1.10	5.6	38.4	3.65	723	2.22	1.40	1.9	685
S894185		3.9	0.65	0.29	<0.05	<0.1	<0.005	0.03	<0.5	1.5	0.02	51	2.75	0.07	<0.1	3.9
S894186		109.5	7.24	15.20	<0.05	0.4	0.053	0.13	2.2	32.8	6.35	1210	0.78	1.30	2.3	367
S894187		52.8	9.01	24.5	<0.05	1.4	0.126	2.00	6.5	82.8	3.35	1030	2.60	2.66	4.1	66.7
S894188		219	21.1	12.20	<0.05	1.8	0.161	1.66	8.5	18.8	1.76	637	6.33	0.30	3.0	306
S894189		57.7	8.53	16.35	<0.05	0.6	0.059	0.57	1.6	21.8	3.68	1930	0.38	1.94	1.3	135.0
S894190		52.2	9.30	17.60	<0.05	1.3	0.067	0.41	5.4	29.2	4.40	2330	0.54	1.64	2.1	171.0
S894191		1.7	0.62	0.27	<0.05	0.1	<0.005	0.01	<0.5	2.3	0.03	74	2.35	0.03	0.1	1.9
S894192		225	10.55	19.55	<0.05	0.5	0.057	0.13	1.1	42.4	4.54	2060	0.44	1.89	0.9	136.5
S894193		78.5	8.19	16.35	<0.05	0.4	0.061	0.65	2.0	36.0	5.49	1100	0.38	1.92	1.6	73.5
S894194		235	10.20	18.65	0.06	0.5	0.047	0.74	1.7	15.5	3.74	1930	6.60	1.70	1.1	110.5
S894195		24.4	7.61	20.8	<0.05	0.6	0.058	0.49	1.6	7.8	2.43	1600	1.25	0.56	1.0	111.0
S894196		71.5	8.75	18.75	0.06	0.5	0.080	1.51	1.4	28.4	3.09	1460	0.52	1.69	1.2	126.0
S894197		9.5	2.20	3.16	<0.05	0.1	0.010	0.03	0.6	8.3	0.81	386	1.44	0.36	0.3	26.9
S894198		58.6	2.86	5.57	<0.05	0.3	0.017	0.25	1.3	13.9	0.91	487	2.01	0.78	0.4	29.5
S894199		154.5	8.96	27.6	0.10	1.6	0.087	3.01	14.2	449	3.53	1300	2.79	0.52	11.9	84.9
S894200		108.0	8.64	17.60	0.05	0.5	0.062	0.15	3.6	236	5.22	1480	0.38	1.31	2.2	157.0
S894201		70.8	8.18	17.85	0.05	0.5	0.054	0.05	1.8	49.7	6.36	1340	0.34	0.94	1.0	273
S894202		173.0	7.50	10.45	<0.05	0.5	0.039	1.58	1.4	26.5	1.68	1460	0.81	0.72	0.8	72.9



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
S894181		270	1.7	3.7	<0.002	0.16	0.24	53.7	2	0.4	162.5	0.13	<0.05	0.39	0.537	0.03
S894182		20	1.4	4.2	<0.002	<0.01	<0.05	0.3	<1	<0.2	10.2	<0.05	<0.05	0.34	0.008	0.03
S894183		10	5.2	1.7	<0.002	0.69	0.06	0.1	<1	<0.2	9.8	<0.05	<0.05	0.04	<0.005	<0.02
S894184		230	93.7	48.2	0.005	>10.0	0.54	14.6	4	0.8	102.5	0.12	0.26	0.92	0.203	0.49
S894185		10	24.2	1.4	0.002	0.11	<0.05	0.1	<1	<0.2	3.2	<0.05	<0.05	0.07	<0.005	<0.02
S894186		200	1.8	2.4	0.002	0.08	0.30	13.9	<1	0.5	171.0	0.16	<0.05	0.14	0.392	0.06
S894187		480	14.3	57.1	0.007	4.25	0.77	32.7	4	2.5	266	0.26	0.39	0.90	0.582	1.08
S894188		160	19.6	52.6	0.021	>10.0	0.34	18.4	9	1.2	227	0.21	1.13	2.19	0.232	0.51
S894189		160	2.4	26.2	0.002	0.08	0.84	54.8	1	0.4	118.5	0.09	<0.05	0.15	0.449	0.18
S894190		590	1.1	20.5	0.002	0.02	1.04	52.5	1	0.6	96.8	0.12	<0.05	0.84	0.453	0.15
S894191		10	<0.5	0.4	<0.002	0.01	0.13	0.7	<1	<0.2	2.7	<0.05	<0.05	0.03	0.007	<0.02
S894192		170	1.8	2.2	<0.002	0.13	0.62	33.4	1	0.4	60.2	0.06	<0.05	0.10	0.431	0.03
S894193		250	1.6	26.6	0.002	0.16	0.34	43.6	2	0.4	105.0	0.11	0.10	0.21	0.445	0.23
S894194		160	3.3	28.7	0.003	0.20	0.56	47.8	2	0.4	116.0	0.06	0.07	0.19	0.411	0.20
S894195		170	2.1	26.7	<0.002	0.02	0.68	41.1	1	0.4	145.5	0.06	<0.05	0.15	0.369	0.16
S894196		190	2.8	34.8	<0.002	0.16	0.52	54.6	1	0.5	111.0	0.07	0.37	0.17	0.423	0.44
S894197		90	<0.5	1.4	<0.002	<0.01	0.52	7.1	<1	<0.2	22.1	<0.05	<0.05	0.04	0.075	0.02
S894198		130	2.3	11.4	0.002	0.06	0.36	12.9	1	0.2	52.0	<0.05	<0.05	0.15	0.116	0.07
S894199		750	8.6	610	0.003	2.76	0.11	33.7	2	8.5	89.6	2.04	0.22	1.73	0.495	4.50
S894200		250	0.9	32.0	<0.002	0.06	0.19	46.3	1	0.4	149.0	0.14	<0.05	0.30	0.473	0.21
S894201		180	0.6	1.1	<0.002	0.02	0.17	40.4	1	0.4	26.6	0.06	<0.05	0.16	0.381	0.02
S894202		130	8.8	52.4	<0.002	0.86	12.75	28.8	1	0.3	31.8	<0.05	0.06	0.09	0.246	0.26



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 4- SEP- 2016
 Account: MVREM

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CERTIFICATE OF ANALYSIS SD16133525

Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	S- IR08 S % 0.01
S894181		0.1	298	0.3	21.3	89	25.3	
S894182		0.1	2	<0.1	0.2	2	5.0	
S894183		<0.1	1	0.1	0.2	4	1.3	
S894184		1.1	85	12.5	7.8	80	44.7	15.20
S894185		0.1	1	0.1	0.2	31	1.8	
S894186		0.1	190	0.2	9.3	74	9.5	
S894187		0.4	231	1.4	14.3	118	41.8	
S894188		1.5	96	1.7	11.0	371	65.5	16.80
S894189		0.1	280	0.6	16.8	93	7.7	
S894190		0.2	264	1.0	17.5	107	31.0	
S894191		<0.1	3	0.2	0.2	<2	2.8	
S894192		<0.1	287	1.0	13.7	97	11.6	
S894193		0.1	288	1.1	16.9	72	10.5	
S894194		0.1	260	0.8	15.0	95	10.7	
S894195		0.1	241	2.3	16.6	54	11.0	
S894196		0.1	296	13.2	20.3	75	10.8	
S894197		<0.1	38	6.9	3.3	13	2.6	
S894198		0.1	69	0.4	4.8	19	9.0	
S894199		1.7	220	1.9	17.8	195	54.3	
S894200		0.1	252	0.3	19.9	86	9.4	
S894201		<0.1	238	0.4	15.1	74	10.3	
S894202		<0.1	159	8.5	13.2	106	14.8	



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 120 ADELAIDE STREET WEST
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Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 4- SEP- 2016
 Account: MVREM

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CERTIFICATE OF ANALYSIS SD16133525

	CERTIFICATE COMMENTS												
	ANALYTICAL COMMENTS												
Applies to Method:	REE's may not be totally soluble in this method. ME- MS61												
	LABORATORY ADDRESSES												
Applies to Method:	<p>Processed at ALS Sudbury located at 1351- B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 22</td> <td style="width: 33%;">LOG- 23</td> </tr> <tr> <td>PUL- 32</td> <td>PUL- QC</td> <td>SPL- 22X</td> <td>SPL- 22Y</td> </tr> <tr> <td>SPL- 34X</td> <td>WEI- 21</td> <td></td> <td></td> </tr> </table>	CRU- 31	CRU- QC	LOG- 22	LOG- 23	PUL- 32	PUL- QC	SPL- 22X	SPL- 22Y	SPL- 34X	WEI- 21		
CRU- 31	CRU- QC	LOG- 22	LOG- 23										
PUL- 32	PUL- QC	SPL- 22X	SPL- 22Y										
SPL- 34X	WEI- 21												
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au- AA24</td> <td style="width: 33%;">Au- ICP22</td> <td style="width: 33%;">ME- MS61</td> <td style="width: 33%;">S- IR08</td> </tr> </table>	Au- AA24	Au- ICP22	ME- MS61	S- IR08								
Au- AA24	Au- ICP22	ME- MS61	S- IR08										



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Page: 1
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

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Project: RUBY HILL
 P.O. No.: RH- 16- 01- DIAGNOS
 This report is for 176 Rock samples submitted to our lab in Sudbury, ON, Canada on 13- AUG- 2016.

The following have access to data associated with this certificate:

MICHEL FONTAINE
 DAVID RIVARD

GRIGOR HEBA
 EASTMAIN WEBTRIEVE

BILL MCGUINTY
 DAVID WILSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 23	Pulp Login - Rcvd with Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 22Y	Split Sample - Boyd Rotary Splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
SPL- 34X	Pulp Split - For send out
SPL- 22X	Crush split for send out
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
S- IR08	Total Sulphur (Leco)	LECO
Au- AA24	Au 50g FA AA finish	AAS
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES
Au- GRA22	Au 50 g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid ICP- MS	
Li- OG63	Ore grade Li - 4ACID	ICP- AES
ME- OG62o	Ore Grade open beaker - ICPAES	ICP- AES

To: EASTMAIN RESOURCES INC
 ATTN: DAVID RIVARD
 2400, 120 ADELAIDE STREET WEST
 TORONTO ON M5H 1T1

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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP22	Au- AA24	Au- GRA22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppb	Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	1	5	50	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
S894203		1.67	2590	1475		1.64	7.95	1005	220	0.30	0.02	4.35	0.24	4.48	21.3	300
S894204		1.75	24			0.28	7.74	65.8	20	0.23	0.03	8.29	0.17	5.86	54.1	227
S894205		1.68	96			0.39	8.41	221	210	0.37	0.03	5.21	0.22	5.41	32.1	295
S894206		1.65	1			0.04	2.65	3.3	<10	0.06	0.02	2.34	0.07	2.30	93.5	1720
S894207		0.68	3			<0.01	1.24	2.1	10	0.05	0.02	1.28	0.03	0.81	8.5	82
S894208		1.94	<1			0.02	9.33	2.9	10	0.73	0.14	12.45	0.06	6.56	33.1	150
S894209		0.87	19			0.16	9.13	1.2	10	0.63	0.03	8.93	0.12	10.70	53.5	210
S894210		2.12	1			0.19	6.79	18.9	620	3.25	0.62	4.39	0.16	35.2	29.8	440
S894211		1.65	2			0.19	4.95	8.9	500	1.54	0.45	2.84	0.10	16.05	6.7	133
S894212		1.16	5			0.19	1.74	7.0	150	0.63	0.30	1.72	0.18	11.85	10.4	74
S894213		1.40	2			0.30	7.62	19.3	1010	1.72	0.54	2.34	0.12	57.4	22.3	139
S894214		1.22	<1			<0.01	0.07	0.3	<10	<0.05	0.01	0.05	<0.02	0.29	0.5	68
S894215		2.01	7			1.91	5.01	6.7	170	1.00	1.68	2.18	1.11	30.2	19.8	53
S894216		2.22	10			1.21	5.45	14.7	120	1.36	1.50	1.94	0.59	29.4	41.3	144
S894217		2.99	11			2.29	3.51	17.4	40	0.51	2.48	3.73	1.04	11.35	82.2	131
S894218		4.24	6			1.24	1.36	27.6	50	0.22	1.82	1.58	3.22	4.28	64.7	81
S894219		2.65	4			1.57	7.26	2.8	130	0.78	0.88	6.32	0.24	12.60	15.2	285
S894220		2.28	1			0.11	9.88	78.1	270	1.41	0.10	2.05	0.12	20.4	7.5	25
S894221		1.85	15	14		1.10	6.18	4.4	290	0.87	0.54	3.74	0.13	16.20	64.5	168
S894222		0.92	1			0.01	5.85	2.7	50	0.52	0.04	4.53	0.10	12.50	29.1	14
S894251		1.21	1			0.29	7.41	14.6	350	2.62	0.64	4.86	0.14	7.11	30.3	237
S894252		0.64	<1			0.23	7.56	2.7	180	0.22	0.04	7.03	0.33	5.74	50.5	268
S894253		0.61	4			0.34	7.56	3.4	160	0.29	0.15	6.92	0.10	6.31	45.3	265
S894254		0.71	<1			0.08	8.03	3.1	140	0.49	0.18	7.82	0.12	14.65	44.2	214
S894255		1.52	10			0.12	7.44	7.4	90	0.94	0.25	6.75	1.80	13.95	36.8	210
S894256		0.70	<1			0.03	7.88	1.4	10	0.12	0.04	2.67	0.05	12.85	6.9	20
S894257		1.93	<1			0.30	7.43	0.8	700	0.65	0.05	1.48	0.03	12.05	5.3	26
S894258		0.89	<1			0.02	6.62	0.5	810	0.38	0.03	1.48	0.04	9.09	3.0	37
S894259		0.78	15			0.33	6.65	5.2	140	0.75	0.81	5.89	0.09	11.30	26.8	153
S894260		0.96	2			0.12	7.34	2.0	70	0.50	0.29	6.27	0.18	12.20	42.5	217
S894261		1.28	2			0.09	7.25	0.8	70	0.57	0.06	7.36	0.21	9.76	30.0	197
S894262		0.43	1			0.14	7.02	5.4	50	0.18	0.23	9.51	0.12	4.41	62.0	486
S894263		0.34	3			0.01	0.69	0.3	10	0.91	0.02	0.62	0.02	0.18	1.7	58
S894264		1.36	1			0.15	5.93	1.9	180	0.24	0.20	5.52	0.12	8.03	38.9	54
S894265		1.07	<1			0.08	6.09	1.2	170	0.49	0.13	4.52	0.10	6.92	35.8	50
S894266		0.94	2			0.22	8.27	8.5	90	4.99	0.19	6.84	0.13	4.95	46.8	179
S894267		1.09	<1			0.09	7.91	15.6	80	10.40	0.11	6.36	0.16	5.23	45.0	197
S894268		0.83	1			0.07	7.86	2.1	30	1.26	0.57	9.47	0.12	4.95	47.1	177
S894269		1.20	2			0.08	7.51	3.0	210	2.31	0.79	6.58	0.21	4.03	52.7	238
S894270		0.72	1			0.29	6.17	3.2	30	0.20	0.19	9.49	0.23	4.19	60.2	212



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Page: 2 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
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Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
S894203		3.32	169.5	9.25	19.35	0.07	0.7	0.058	2.58	1.5	82.9	3.50	2650	0.57	1.40	1.5
S894204		1.39	109.5	9.44	17.25	0.05	0.7	0.063	0.17	2.2	44.6	3.60	2720	0.69	0.74	1.4
S894205		4.95	119.5	9.01	18.70	0.06	0.5	0.053	1.63	1.9	58.8	2.85	2080	0.58	1.31	1.5
S894206		1.82	11.7	6.44	5.27	<0.05	0.1	0.019	0.01	2.7	18.90	946	0.08	0.02	0.5	
S894207		0.77	5.8	2.01	2.89	<0.05	0.1	0.010	0.07	<0.5	11.3	0.70	392	2.14	0.28	0.4
S894208		0.58	39.0	7.94	32.1	0.06	0.9	0.063	0.03	2.4	19.7	1.84	1660	1.67	0.34	1.8
S894209		1.17	289	9.71	36.2	0.06	0.9	0.072	0.05	4.5	78.9	3.92	1500	5.00	1.84	2.6
S894210		19.05	31.5	5.48	18.85	0.09	3.0	0.054	3.80	17.2	92.9	4.28	1240	1.52	0.49	5.8
S894211		6.85	49.7	3.95	12.70	0.05	1.4	0.040	2.39	9.7	26.6	1.21	1080	5.61	0.52	4.1
S894212		2.19	99.4	3.21	5.70	<0.05	0.5	0.036	0.77	6.8	8.5	0.74	779	4.35	0.12	2.6
S894213		5.43	110.5	5.54	22.5	0.14	4.0	0.062	3.01	29.0	71.9	1.83	617	4.30	1.89	6.5
S894214		0.08	5.7	0.73	0.27	<0.05	<0.1	<0.005	0.01	<0.5	3.8	0.02	80	3.47	0.02	0.4
S894215		1.84	97.1	9.39	14.85	0.10	3.2	0.041	1.93	14.0	10.5	0.72	790	3.05	1.32	6.0
S894216		3.97	111.0	15.65	16.40	0.11	3.3	0.033	1.30	14.1	40.7	1.20	1120	2.86	0.98	6.5
S894217		0.38	197.5	30.5	10.15	0.12	0.7	0.093	0.18	6.3	10.2	1.67	1530	1.73	0.50	2.4
S894218		0.21	88.6	18.55	3.88	0.07	0.3	0.065	0.17	2.2	2.9	0.57	770	3.00	0.39	1.1
S894219		2.40	68.4	7.61	18.70	0.06	0.6	0.103	0.74	5.0	54.4	6.05	3870	0.72	1.95	4.4
S894220		2.32	55.6	1.98	23.5	0.05	3.3	0.028	0.94	10.6	28.2	0.68	198	0.47	5.59	2.6
S894221		1.69	939	9.73	17.25	0.08	0.9	0.136	1.22	6.1	26.5	2.68	957	5.51	1.61	4.2
S894222		0.61	11.0	10.50	25.5	0.08	2.0	0.099	0.26	4.1	23.6	2.40	1690	0.95	1.47	7.0
S894251		2.23	87.6	8.35	22.7	0.06	0.7	0.056	0.86	2.9	215	4.33	1470	0.74	2.74	1.6
S894252		4.04	307	8.34	16.75	0.06	0.5	0.060	0.81	2.0	95.1	2.60	1800	0.62	1.67	1.4
S894253		5.60	251	8.36	16.25	0.05	0.6	0.060	0.90	2.3	104.5	2.71	2190	0.52	2.17	1.4
S894254		2.18	51.4	8.88	19.40	0.06	0.7	0.071	0.63	5.7	63.6	3.70	1520	0.39	1.98	4.8
S894255		1.11	43.5	7.26	22.0	0.05	0.7	0.091	0.44	6.1	37.9	3.06	1360	3.10	3.54	4.7
S894256		1.14	7.5	1.30	25.7	<0.05	2.7	0.015	0.04	6.0	1.7	0.09	203	0.59	7.14	2.3
S894257		3.08	11.6	1.49	19.60	0.11	2.3	0.010	1.89	5.8	57.7	0.60	157	1.21	3.92	2.1
S894258		3.53	3.6	1.51	16.05	0.12	2.2	0.009	1.91	4.4	44.5	0.61	239	1.54	3.35	1.3
S894259		1.69	71.2	7.48	19.70	0.12	1.0	0.195	0.57	5.1	39.0	2.84	1160	0.96	2.77	3.3
S894260		1.23	95.8	7.98	16.50	0.12	0.8	0.091	0.37	4.4	74.5	3.69	1520	6.51	2.63	4.0
S894261		1.66	36.0	7.95	18.80	0.10	0.9	0.079	0.27	3.2	111.5	4.61	1480	0.67	2.32	3.9
S894262		1.37	147.5	8.90	16.65	0.12	0.6	0.061	0.33	1.5	115.0	5.19	1380	0.42	1.11	1.2
S894263		0.68	3.8	0.82	1.51	0.10	<0.1	<0.005	0.05	<0.5	13.9	0.15	439	2.76	0.23	0.3
S894264		5.44	110.5	9.47	16.55	0.10	0.9	0.058	0.57	2.9	225	3.63	2280	0.78	1.15	2.0
S894265		5.37	96.1	8.83	17.15	0.10	0.9	0.059	0.65	2.5	223	3.46	1860	0.93	1.59	2.3
S894266		7.50	85.1	10.00	19.30	0.10	0.6	0.063	0.46	1.7	202	3.88	1900	0.67	1.85	2.1
S894267		4.82	49.6	8.40	18.40	0.10	1.4	0.061	0.42	1.8	176.0	3.56	1590	0.69	2.36	8.9
S894268		4.05	34.6	8.95	18.65	0.10	0.6	0.067	0.28	1.8	88.9	3.32	1860	0.52	0.67	1.8
S894269		19.10	103.0	8.87	17.60	0.10	0.5	0.068	1.09	1.5	163.0	3.18	1980	0.50	1.18	1.3
S894270		1.87	801	11.65	14.70	0.10	0.5	0.054	0.13	1.6	103.0	5.22	3020	0.49	0.65	1.0



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Page: 2 - C
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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
S894203		119.0	190	16.4	49.6	<0.002	1.22	2.28	51.5	1	0.4	51.9	0.09	<0.05	0.15	0.466
S894204		152.5	210	1.6	7.7	0.002	0.08	1.09	48.0	1	0.4	71.3	0.08	<0.05	0.18	0.409
S894205		110.5	260	7.2	50.6	0.002	0.86	1.01	52.3	1	0.4	51.3	0.08	<0.05	0.18	0.466
S894206		2120	100	2.2	0.8	<0.002	0.15	2.48	17.8	1	<0.2	17.6	<0.05	0.05	0.09	0.114
S894207		33.0	30	0.6	7.3	<0.002	0.03	0.15	7.8	<1	<0.2	22.0	<0.05	<0.05	0.02	0.070
S894208		96.5	90	2.9	1.2	<0.002	0.01	1.11	32.5	1	0.5	463	0.10	<0.05	0.18	0.387
S894209		90.0	260	3.1	1.9	0.011	0.30	0.75	53.3	3	0.6	138.5	0.16	0.05	0.30	0.621
S894210		219	1290	17.1	199.5	0.002	0.18	0.16	14.9	1	3.0	136.0	0.42	<0.05	5.86	0.322
S894211		25.4	1160	23.0	136.5	<0.002	0.88	0.35	6.4	1	1.1	161.5	0.24	0.11	4.40	0.148
S894212		45.4	690	6.4	47.4	<0.002	1.15	0.15	1.8	1	0.6	61.2	0.13	0.11	1.83	0.042
S894213		83.4	1430	31.0	82.9	0.002	1.91	0.42	15.6	1	2.1	576	0.39	0.16	7.09	0.369
S894214		2.5	10	<0.5	0.6	<0.002	0.01	0.11	0.3	<1	<0.2	2.8	<0.05	<0.05	0.04	0.008
S894215		56.5	360	47.6	78.1	0.007	7.61	0.33	7.3	2	2.0	140.5	0.40	0.16	5.15	0.189
S894216		73.3	360	14.0	118.5	0.006	>10.0	0.33	9.3	4	1.9	108.0	0.45	0.21	5.15	0.211
S894217		152.0	230	19.3	10.5	0.005	>10.0	0.61	15.3	5	1.1	149.5	0.16	0.36	0.78	0.246
S894218		64.1	70	23.0	6.1	0.005	>10.0	0.38	5.2	3	0.5	63.3	0.06	0.17	0.30	0.086
S894219		126.5	270	14.6	44.4	<0.002	1.37	0.73	38.5	2	1.1	208	0.26	0.17	0.52	0.663
S894220		10.7	310	23.4	38.9	<0.002	0.37	0.11	6.2	1	0.6	491	0.20	0.12	2.57	0.175
S894221		128.5	280	5.8	52.7	0.008	4.26	0.50	33.9	5	1.9	221	0.26	0.96	1.13	0.524
S894222		3.2	680	9.9	10.6	0.002	0.07	0.36	41.6	2	0.4	91.4	0.42	<0.05	0.77	0.969
S894251		80.1	230	6.8	52.6	0.003	0.03	0.43	48.4	1	5.2	132.0	0.07	<0.05	0.16	0.462
S894252		127.0	200	4.2	101.5	0.004	0.20	0.40	49.8	3	0.4	127.0	0.10	<0.05	0.19	0.452
S894253		126.0	220	2.9	164.5	0.004	0.25	0.43	51.0	2	0.5	148.0	0.08	0.06	0.19	0.453
S894254		130.5	320	2.8	55.4	<0.002	0.07	0.84	43.0	1	0.8	182.5	0.28	<0.05	0.50	0.712
S894255		114.5	400	146.0	27.7	0.003	1.13	0.99	39.8	2	0.9	214	0.26	0.05	0.46	0.638
S894256		10.7	260	7.3	0.8	<0.002	0.19	1.32	4.1	1	0.4	380	0.17	<0.05	1.88	0.156
S894257		9.3	280	5.1	87.1	<0.002	0.07	0.23	3.4	<1	0.4	181.0	0.16	<0.05	1.65	0.144
S894258		9.4	140	3.3	110.0	<0.002	0.04	0.20	3.1	<1	0.3	152.5	0.11	<0.05	1.45	0.117
S894259		67.1	250	8.4	40.2	0.002	0.34	1.13	26.2	2	1.7	223	0.22	0.24	0.68	0.484
S894260		119.0	330	2.8	36.9	0.004	0.01	0.73	38.7	1	0.9	228	0.27	<0.05	0.37	0.662
S894261		82.4	310	8.9	39.8	0.003	0.05	0.80	41.7	1	0.8	254	0.27	<0.05	0.42	0.622
S894262		211	150	3.4	62.8	<0.002	0.15	0.90	47.9	1	2.8	149.5	0.07	0.07	0.14	0.371
S894263		6.7	10	1.5	10.6	0.002	0.01	0.09	0.9	<1	0.3	10.2	<0.05	<0.05	0.01	0.011
S894264		42.2	300	5.0	248	<0.002	0.05	0.46	40.2	1	0.7	84.2	0.13	0.05	0.36	0.506
S894265		41.6	500	1.5	283	0.002	0.09	0.28	34.6	1	0.4	98.3	0.12	0.05	0.32	0.455
S894266		121.5	190	2.9	83.9	0.003	0.09	0.51	51.9	1	5.1	101.0	1.43	<0.05	0.15	0.462
S894267		99.1	350	2.7	61.0	<0.002	0.04	0.34	48.8	1	1.9	120.5	40.1	<0.05	0.33	0.427
S894268		108.0	1150	3.9	58.7	<0.002	0.04	0.13	51.1	1	5.8	119.0	0.61	<0.05	0.14	0.449
S894269		123.0	220	2.6	97.8	<0.002	0.05	0.16	46.7	1	4.2	80.2	0.09	<0.05	0.14	0.436
S894270		135.5	370	1.1	7.6	0.007	0.61	0.14	40.5	3	0.5	55.6	0.06	0.15	0.13	0.338



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Page: 2 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	S- IR08	Li- OG63	
		Tl	U	V	W	Y	Zn	Zr	S	Li
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.1	1	0.1	0.1	2	0.5	0.01	0.005
S894203		0.39	<0.1	295	8.2	18.0	173	22.5		
S894204		0.06	0.1	257	2.0	18.9	96	17.1		
S894205		0.40	0.1	292	10.6	19.5	129	14.9		
S894206		0.13	<0.1	86	1.2	5.9	46	2.1		
S894207		0.05	<0.1	48	0.1	3.0	11	1.6		
S894208		<0.02	0.1	278	1.3	17.1	44	20.3		
S894209		0.03	0.1	318	1.7	23.5	71	22.1		
S894210		1.06	1.6	108	1.8	12.4	94	101.5		
S894211		0.57	1.3	43	1.2	10.6	49	49.3		
S894212		0.17	0.7	15	10.5	5.9	20	17.3		
S894213		0.76	1.9	103	12.3	12.4	107	143.5		
S894214		<0.02	<0.1	2	0.1	0.1	<2	0.5		
S894215		0.95	2.8	42	2.2	15.6	234	111.5		
S894216		1.24	2.6	48	2.1	14.6	147	114.5	13.60	
S894217		0.15	0.6	91	4.5	9.9	242	23.2	25.5	
S894218		0.10	0.2	30	3.9	3.6	554	10.5	17.50	
S894219		0.57	0.2	261	1.6	17.6	231	13.2		
S894220		0.37	1.0	45	0.7	5.1	55	99.3		
S894221		0.50	0.4	222	1.0	17.5	104	25.6		
S894222		0.07	0.2	226	0.4	48.2	111	63.7		
S894251		0.45	0.4	259	1.5	17.6	114	12.8		
S894252		0.52	0.1	272	0.5	20.8	105	8.2		
S894253		0.92	0.1	274	0.7	21.9	90	8.7		
S894254		0.27	0.1	293	0.8	22.8	109	12.5		
S894255		0.12	0.2	204	1.1	19.9	186	16.6		
S894256		0.02	0.8	39	0.5	3.5	<2	89.4		
S894257		0.56	0.6	26	0.7	2.5	29	82.3		
S894258		0.65	0.4	25	0.5	2.0	21	77.9		
S894259		0.25	0.2	190	1.2	12.6	104	27.6		
S894260		0.23	0.1	271	0.9	19.3	143	20.5		
S894261		0.23	0.1	282	1.9	20.8	104	25.7		
S894262		0.32	<0.1	245	0.8	14.9	96	14.3		
S894263		0.08	<0.1	7	0.1	0.3	10	<0.5		
S894264		0.99	0.1	284	0.7	18.1	101	24.1		
S894265		0.92	0.1	263	0.5	17.7	97	27.1		
S894266		0.43	0.1	298	0.8	18.0	109	11.8		
S894267		0.39	0.9	275	0.8	18.9	93	16.2		
S894268		0.38	0.1	288	1.3	18.9	81	9.6		
S894269		0.81	0.1	293	1.0	18.9	100	10.0		
S894270		0.12	0.1	228	2.9	18.6	116	9.2		



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Page: 3 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP22	Au- AA24	Au- GRA22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppb	Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	1	5	50	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
S894271		1.15	1			0.17	7.43	2.7	20	0.44	0.44	8.74	0.20	4.76	52.4	243
S894272		0.82	<1			0.13	7.51	1.6	230	0.54	0.10	5.65	0.10	9.25	36.0	207
S894273		0.52	4			0.56	4.19	1.2	30	0.20	0.15	10.55	0.24	6.42	18.3	86
S894274		0.99	10			0.89	4.29	2.7	20	0.31	0.26	10.55	0.30	2.38	13.7	31
S894275		0.06	834	851		2.03	6.83	5.2	680	0.96	2.35	3.17	0.13	20.6	24.0	38
S894276		0.72	1			0.05	5.80	2.9	850	1.11	0.05	9.15	0.10	49.2	12.5	46
S894277		0.75	1			0.34	4.63	3.1	30	0.18	0.09	8.49	0.22	5.30	39.8	91
S894278		1.63	1			0.97	6.56	1.2	50	0.10	0.07	7.15	0.19	5.22	39.9	134
S894279		1.59	<1			0.15	4.72	20.1	10	0.17	0.08	8.08	0.06	3.67	23.9	120
S894280		1.62	<1			0.39	6.93	7.2	110	0.19	0.21	7.94	0.11	5.70	44.1	190
S894281		0.40	<1			0.01	4.57	1.0	120	0.81	0.02	1.15	<0.02	10.05	4.0	37
S894282		0.67	<1			0.02	6.31	0.9	590	1.16	0.04	0.88	0.03	12.65	0.5	14
S894283		0.69	<1			<0.01	0.07	0.5	<10	<0.05	0.01	0.04	<0.02	0.35	0.3	58
S894284		0.25	<1			0.01	6.56	2.0	560	1.54	0.08	2.31	0.18	21.8	11.3	60
S894285		0.54	29			0.39	3.04	0.8	50	0.63	0.27	2.62	0.18	9.71	8.0	38
S894286		0.38	32			0.39	7.77	4.2	170	0.79	0.71	3.88	0.06	67.2	21.5	23
S894287		0.72	2			0.55	8.41	4.8	1030	9.54	0.99	1.42	0.13	124.5	32.9	293
S894288		0.83	3			0.02	0.15	31.9	20	0.33	0.03	1.14	0.06	1.62	1.0	30
S894289		1.06	41			0.06	0.42	457	10	0.53	0.08	2.65	0.19	2.45	2.3	15
S894290		0.98	2			0.02	0.05	15.9	10	0.10	0.04	0.13	0.02	0.35	0.4	64
S894291		1.02	5			0.01	0.07	40.7	10	0.11	0.04	0.26	0.02	0.49	0.3	48
S894292		0.68	11			0.08	0.13	7.6	10	0.18	0.06	0.27	0.03	0.87	0.7	53
S894293		1.15	102			0.04	0.23	180.5	10	0.46	0.05	1.81	0.12	1.60	0.7	34
S894294		1.03	2			0.03	0.14	26.3	10	0.56	0.04	2.78	0.15	1.38	1.2	29
S894295		0.58	1			0.12	7.73	3.2	260	0.58	0.08	3.34	0.06	13.35	31.3	247
S894296		1.17	19			0.07	6.08	4.5	70	0.28	0.16	6.09	0.11	4.36	27.9	197
S894297		0.94	8			0.04	4.94	2.9	10	0.08	0.07	4.04	0.16	14.50	7.7	35
S894298		1.11	4			0.12	9.05	42.6	540	0.70	0.12	1.71	0.14	45.5	17.7	62
S894299		0.74	2			0.09	8.90	42.6	240	1.39	0.12	0.89	0.26	49.7	11.2	43
S894300		1.29	33			0.04	0.31	5.3	20	0.90	0.03	2.71	0.07	2.57	2.6	5
S894301		0.86	<1			0.02	6.61	0.2	40	0.69	0.04	5.27	0.11	9.81	33.3	65
S894302		0.28	<1			0.03	0.95	<0.2	10	<0.05	0.05	1.27	0.02	0.51	2.9	89
S894303		1.85	9			0.93	4.25	3.3	<10	0.41	1.94	3.83	4.21	9.69	162.0	236
S894304		0.81	<1			0.03	8.03	5.0	620	1.86	1.95	2.27	0.16	60.9	24.2	28
S894305		1.57	<1			0.23	7.11	0.2	40	0.72	0.36	5.39	0.21	12.40	46.9	62
S894306		1.43	6			0.10	7.00	0.5	220	0.26	0.06	6.53	0.24	7.03	34.4	181
S894307		1.83	2			0.12	6.71	0.7	10	0.07	0.07	8.57	0.07	10.35	39.3	218
S894308		2.30	13	28		2.55	4.59	15.9	100	0.47	1.17	3.60	1.81	11.65	42.6	204
S894309		1.29	<1			0.62	5.34	3.8	160	0.35	1.11	4.50	0.45	4.61	20.4	254
S894310		0.94	5			0.56	7.52	2.0	40	0.63	0.24	6.43	0.24	15.40	46.6	102



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Page: 3 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte Units LOR	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
S894271		2.39	488	10.90	18.45	0.11	0.6	0.061	0.21	1.7	153.0	4.04	2120	0.55	0.71	1.3
S894272		4.62	176.0	7.06	16.35	0.09	1.0	0.047	0.74	4.1	163.0	2.37	1560	1.79	2.18	1.8
S894273		0.58	552	15.50	10.90	0.13	0.5	0.055	0.08	3.2	69.0	3.79	8240	1.16	0.36	1.0
S894274		0.39	313	16.45	9.48	0.09	0.2	0.040	0.03	1.2	52.9	3.00	11950	0.93	0.24	1.0
S894275		1.05	7380	7.43	16.15	0.13	1.5	0.408	2.86	10.5	19.4	2.03	623	574	2.46	5.7
S894276		1.51	65.8	3.71	15.25	0.13	2.3	0.050	2.07	56.7	13.8	1.01	597	2.60	1.80	12.2
S894277		0.30	316	15.30	12.65	0.10	0.8	0.063	0.11	2.4	83.9	4.09	6580	0.52	0.55	0.8
S894278		1.04	199.0	15.80	16.45	0.12	0.8	0.054	0.19	1.6	177.0	4.69	6020	0.36	0.87	1.4
S894279		2.99	43.2	5.75	15.60	0.08	0.4	0.043	0.02	1.9	33.5	2.98	2090	1.74	0.06	0.8
S894280		4.41	231	10.20	16.95	0.12	0.6	0.057	0.53	2.1	188.0	4.80	2710	0.34	1.11	1.1
S894281		0.42	5.6	1.87	12.45	<0.05	3.5	0.024	0.41	3.2	11.2	0.37	231	1.79	1.67	13.5
S894282		0.50	3.7	0.71	21.8	<0.05	6.2	0.058	1.75	4.2	12.1	0.09	123	0.94	2.12	14.4
S894283		<0.05	1.4	0.60	0.29	<0.05	<0.1	<0.005	0.01	<0.5	0.7	0.01	69	2.67	0.02	0.3
S894284		0.86	1.3	3.33	18.40	0.05	4.9	0.140	0.91	8.3	29.2	0.72	537	1.24	2.16	11.4
S894285		0.52	105.0	4.34	8.52	<0.05	1.3	0.065	0.31	4.7	23.7	2.22	1280	2.79	0.46	2.1
S894286		1.74	53.7	5.43	22.4	0.10	10.2	0.024	1.35	31.2	20.4	1.70	631	13.45	0.41	8.6
S894287		1.87	41.7	8.11	44.2	0.14	7.0	0.099	3.01	60.1	70.2	3.31	1660	2.63	1.95	39.8
S894288		1.25	3.1	10.95	1.44	0.05	0.1	0.005	0.04	0.9	1.2	0.95	7060	1.77	0.02	0.5
S894289		4.31	7.0	22.7	3.41	0.05	0.2	0.019	0.07	1.6	1.0	2.06	16050	1.59	0.04	0.5
S894290		1.69	3.8	3.33	1.41	<0.05	<0.1	<0.005	0.01	<0.5	1.1	0.09	679	4.13	0.01	0.4
S894291		0.51	2.4	2.85	1.07	<0.05	<0.1	0.005	0.02	<0.5	1.0	0.12	1080	2.69	0.01	0.3
S894292		1.13	7.0	5.98	2.63	<0.05	0.1	0.005	0.03	0.5	1.0	0.17	1480	3.45	0.01	0.4
S894293		2.40	3.7	12.90	1.92	<0.05	0.2	0.009	0.05	1.1	0.7	1.23	9560	2.21	0.03	0.5
S894294		1.62	8.7	17.35	1.53	0.05	0.1	0.010	0.03	0.9	0.7	1.61	11450	2.32	0.03	0.4
S894295		1.83	64.5	10.40	15.30	0.06	2.2	0.018	1.12	5.3	27.3	4.60	4040	1.43	1.95	3.4
S894296		1.02	116.0	11.85	13.05	0.06	0.6	0.050	0.28	1.6	23.1	3.75	4330	0.75	1.26	1.1
S894297		1.00	103.0	14.90	12.50	<0.05	2.5	0.033	0.13	7.0	9.7	1.83	4920	1.31	0.29	3.7
S894298		5.86	45.9	3.57	25.1	0.09	4.1	0.070	2.35	19.8	42.0	1.21	506	1.26	1.67	4.5
S894299		7.23	30.3	2.23	26.5	0.08	5.3	0.056	2.29	23.1	61.9	0.71	298	2.10	2.22	2.4
S894300		0.69	4.0	28.3	1.16	0.07	0.2	0.009	0.02	1.5	1.6	2.44	16100	0.86	0.05	0.3
S894301		0.74	29.3	9.81	21.2	0.09	2.0	0.076	0.26	3.0	18.1	3.68	1400	0.47	2.54	5.2
S894302		0.24	16.5	1.62	2.51	<0.05	0.1	0.011	0.04	<0.5	3.6	0.62	279	2.40	0.14	0.6
S894303		0.50	577	25.9	16.20	0.12	0.7	0.465	0.01	4.0	27.0	3.53	630	4.77	0.04	1.8
S894304		1.90	19.0	5.64	19.25	0.07	4.3	0.056	1.71	30.5	29.9	1.12	507	0.89	3.47	8.2
S894305		0.82	164.0	6.34	23.0	0.08	1.4	0.089	0.24	4.8	41.9	4.35	1380	1.27	1.97	1.5
S894306		0.93	222	10.55	19.45	0.08	0.8	0.119	0.64	2.6	18.2	4.16	1970	1.14	1.26	2.4
S894307		0.50	183.0	8.00	17.45	0.07	0.5	0.070	0.10	3.9	24.6	3.84	1290	1.04	0.69	2.7
S894308		0.82	239	19.45	13.35	0.08	0.7	0.176	0.43	5.1	23.3	2.53	1010	1.98	1.00	2.0
S894309		2.09	76.8	5.38	14.85	0.07	0.6	0.107	0.89	2.1	20.0	3.29	942	2.95	0.70	1.6
S894310		0.39	291	10.55	27.6	0.07	1.3	0.089	0.18	5.4	56.3	4.92	1600	1.17	1.15	6.5



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Page: 3 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

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CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
S894271		117.0	170	2.7	48.4	0.005	0.37	0.25	45.5	3	1.6	92.6	0.08	0.11	0.15	0.428
S894272		86.9	400	6.1	45.3	0.003	0.23	0.23	41.2	2	0.3	217	0.11	0.08	1.03	0.419
S894273		17.7	180	1.5	2.8	0.012	1.48	0.85	31.4	4	0.4	39.4	0.05	0.09	0.15	0.279
S894274		14.4	550	12.3	1.2	0.008	1.15	1.26	12.1	6	0.3	38.3	0.07	0.12	0.07	0.161
S894275		19.2	1160	15.1	56.0	0.017	0.90	1.05	19.3	8	6.5	585	0.33	0.35	1.82	0.361
S894276		25.0	690	17.1	66.8	0.004	0.24	1.91	10.1	1	2.0	572	0.65	<0.05	3.30	0.592
S894277		58.7	110	1.0	2.8	0.004	0.67	0.30	36.0	2	0.5	17.3	0.05	0.07	0.16	0.316
S894278		72.6	220	1.5	7.3	0.003	0.38	0.29	48.4	2	0.5	18.4	0.08	0.06	0.17	0.479
S894279		55.3	150	6.8	2.7	<0.002	0.02	1.29	24.8	1	0.3	195.0	<0.05	<0.05	0.07	0.207
S894280		93.3	200	4.0	63.6	0.004	0.08	0.34	64.9	2	0.4	106.0	0.06	0.05	0.16	0.414
S894281		8.0	40	3.2	23.4	<0.002	0.01	0.16	6.4	1	1.5	136.0	1.45	<0.05	3.48	0.067
S894282		1.0	10	3.3	55.1	<0.002	0.01	0.18	5.8	1	2.9	83.5	1.28	<0.05	5.23	0.030
S894283		1.8	10	<0.5	0.3	<0.002	<0.01	0.12	0.1	<1	<0.2	1.2	<0.05	<0.05	0.03	<0.005
S894284		27.2	220	3.7	36.4	<0.002	<0.01	0.24	9.2	1	5.5	170.0	1.01	<0.05	3.86	0.176
S894285		41.7	230	6.8	12.2	0.003	0.09	0.47	14.3	<1	1.8	40.2	0.17	<0.05	1.10	0.160
S894286		5.5	240	4.3	41.0	0.003	1.21	0.54	6.2	2	3.2	84.4	0.64	0.28	5.21	0.221
S894287		100.0	650	83.6	98.2	0.006	0.34	0.16	25.6	2	4.1	240	5.46	0.13	39.2	0.645
S894288		6.1	40	1.0	2.5	0.004	0.35	0.33	0.4	<1	0.2	11.6	<0.05	<0.05	0.31	0.010
S894289		9.3	50	1.7	7.4	0.006	0.61	0.81	1.0	<1	0.3	27.5	<0.05	<0.05	0.33	0.017
S894290		2.4	10	0.7	2.2	0.004	0.14	0.16	0.1	<1	0.2	4.1	<0.05	<0.05	0.03	<0.005
S894291		1.5	10	0.7	1.0	0.003	0.10	0.19	0.1	<1	<0.2	3.2	<0.05	<0.05	0.04	<0.005
S894292		3.3	10	1.4	2.7	0.002	0.72	0.21	0.3	<1	<0.2	3.6	<0.05	<0.05	0.04	0.005
S894293		2.9	40	1.4	5.8	0.002	0.27	0.39	0.9	1	0.2	15.9	<0.05	<0.05	0.20	0.011
S894294		5.0	40	1.3	3.6	0.004	0.62	0.38	0.7	<1	0.2	24.9	<0.05	<0.05	0.05	0.005
S894295		216	460	2.6	50.4	0.005	0.82	0.23	19.7	1	0.4	328	0.23	<0.05	1.41	0.319
S894296		64.7	220	1.2	12.4	0.004	0.26	0.70	32.9	1	0.5	119.0	0.07	<0.05	0.14	0.347
S894297		19.8	210	0.8	3.0	0.003	0.32	0.42	5.8	1	0.5	23.3	0.28	<0.05	1.97	0.190
S894298		30.9	200	6.7	73.0	0.009	0.88	0.22	15.5	1	2.0	156.5	0.35	0.11	3.69	0.391
S894299		16.7	300	6.7	103.0	0.004	0.39	0.32	14.2	1	1.3	201	0.19	0.06	4.68	0.252
S894300		6.9	60	2.1	1.1	0.003	0.80	0.62	0.6	1	0.2	17.1	<0.05	<0.05	0.21	0.012
S894301		34.1	400	2.4	8.4	0.004	0.03	0.17	65.8	1	0.9	150.0	0.32	<0.05	0.76	0.842
S894302		5.6	80	1.1	2.0	0.004	0.04	0.12	4.9	<1	0.2	13.3	<0.05	<0.05	0.05	0.060
S894303		250	170	32.2	0.3	0.018	>10.0	0.45	20.9	16	2.2	61.0	0.13	0.46	1.02	0.225
S894304		164.0	560	22.9	55.2	0.005	0.17	0.14	6.5	1	2.8	291	3.72	<0.05	13.40	0.224
S894305		55.7	380	13.8	18.1	0.007	3.96	0.09	37.2	4	1.7	182.0	0.10	0.33	0.54	0.270
S894306		70.5	250	1.6	22.2	0.005	0.18	0.42	41.3	3	1.2	80.6	0.15	0.08	0.37	0.544
S894307		77.3	340	1.2	2.9	0.006	0.47	0.33	44.3	2	0.7	121.0	0.17	0.09	0.42	0.527
S894308		185.5	220	57.3	21.8	0.011	>10.0	1.41	20.2	5	2.0	96.2	0.13	0.58	0.92	0.266
S894309		26.3	160	15.1	73.4	0.013	2.54	0.18	29.5	2	1.8	72.6	0.11	0.29	0.55	0.304
S894310		54.2	630	8.0	2.7	0.009	1.12	0.63	59.4	2	0.5	136.0	0.43	0.38	0.73	1.175



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Page: 3 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	S- IR08	Li- OG63
		Tl	U	V	W	Y	Zn	S	Li
		ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.1	1	0.1	0.1	2	0.01	0.005
S894271		0.37	0.2	272	0.6	18.5	114		
S894272		0.35	0.5	236	0.8	17.9	83		
S894273		0.04	0.1	159	0.6	29.9	113		
S894274		0.03	0.1	111	2.6	17.7	98		
S894275		0.23	0.9	190	3.2	15.3	89		
S894276		0.40	0.7	91	0.3	19.6	127		
S894277		0.04	<0.1	201	0.4	17.2	134		
S894278		0.07	<0.1	283	0.4	21.2	143		
S894279		0.03	0.1	162	0.7	10.8	87		
S894280		0.48	0.2	284	0.4	23.2	96		
S894281		0.12	1.3	15	0.3	14.0	36		
S894282		0.26	1.0	1	0.6	26.9	12		
S894283		<0.02	<0.1	1	<0.1	0.2	<2		
S894284		0.17	0.8	40	0.6	31.8	111		
S894285		0.05	0.3	69	41.8	10.6	56		
S894286		0.25	1.5	19	1.6	46.6	30		
S894287		0.65	10.1	175	1.3	53.7	143		
S894288		<0.02	0.1	3	0.1	1.5	51		
S894289		0.03	0.1	7	0.1	4.8	199		
S894290		<0.02	0.1	1	0.2	0.4	10		
S894291		<0.02	<0.1	3	0.1	0.7	14		
S894292		<0.02	<0.1	3	0.1	1.4	26		
S894293		<0.02	0.1	5	0.1	3.2	190		
S894294		<0.02	0.1	5	0.1	5.6	188		
S894295		0.32	0.4	117	0.3	10.7	81		
S894296		0.05	0.1	207	0.3	14.9	68		
S894297		<0.02	0.5	41	0.4	10.3	58		
S894298		0.48	0.9	113	1.2	11.0	123		
S894299		0.75	1.1	94	0.5	12.2	72		
S894300		<0.02	0.1	5	1.2	5.3	21		
S894301		0.10	0.1	312	0.3	27.9	112		
S894302		<0.02	<0.1	36	0.2	1.5	13		
S894303		0.97	0.5	121	0.3	8.9	1140	19.80	
S894304		0.58	10.6	42	0.3	13.5	90		
S894305		0.14	0.1	287	0.1	22.8	137		
S894306		0.09	0.1	295	0.4	21.3	156		
S894307		<0.02	0.1	255	0.3	22.9	68		
S894308		0.25	0.3	126	1.0	10.8	615	15.90	
S894309		0.59	0.2	177	1.3	8.7	158		
S894310		0.05	0.1	359	1.7	30.2	1300		



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Page: 4 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

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CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP22	Au- AA24	Au- GRA22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppb	Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	1	5	50	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
S894311		0.43	<1			0.06	0.89	<0.2	150	0.06	0.07	0.15	<0.02	1.89	0.9	58
S894312		0.73	<1			0.02	0.22	<0.2	30	0.05	0.02	0.05	<0.02	0.42	0.4	69
S894313		1.49	<1			0.11	6.72	1.8	710	0.99	0.65	0.98	0.03	26.4	1.8	28
S894314		1.45	1			0.13	6.92	1.8	530	1.02	0.39	0.55	0.11	40.7	4.1	21
S894315		0.92	14	20		0.56	3.43	6.6	30	0.25	1.19	3.59	0.78	15.85	62.1	92
S894316		0.95	29	12		0.61	3.02	14.3	100	0.13	0.99	1.77	1.04	11.65	52.9	57
S894317		2.30	2			0.18	6.09	2.2	60	0.56	0.38	5.73	0.13	10.35	35.1	246
S894318		0.95	1			0.01	1.77	2.0	90	0.09	0.05	1.27	0.02	1.19	3.4	64
S894319		0.90	4			0.02	2.40	2.4	70	0.10	0.03	1.81	<0.02	1.48	14.7	116
S894320		1.17	62			0.37	5.05	1.8	30	0.06	0.14	4.17	0.09	1.45	12.5	124
S894321		0.90	1			<0.01	0.38	0.8	10	<0.05	0.01	0.41	<0.02	0.24	2.0	92
S894322		1.42	1			0.01	1.10	1.0	10	0.05	0.01	0.97	0.02	0.80	5.8	159
S894323		0.79	8			0.05	7.24	69.6	390	0.80	0.12	2.70	0.10	9.59	19.3	249
S894324		1.72	1			0.05	3.86	16.0	30	0.09	0.01	3.54	0.13	2.92	26.1	152
S894325		0.06	850	853		2.14	7.39	4.6	660	0.83	2.44	3.22	0.12	21.1	22.6	39
S894326		0.75	1			0.05	5.67	2.7	790	0.92	0.05	8.79	0.08	49.9	11.1	46
S894327		2.61	<1			0.01	5.22	3.3	<10	0.47	0.01	7.82	0.03	0.14	1.3	35
S894328		2.62	1			0.01	4.63	13.6	20	0.11	0.01	4.37	0.14	3.47	33.0	161
S894329		2.43	86			0.01	0.04	1.3	<10	<0.05	0.01	0.06	<0.02	0.03	0.4	48
S894330		1.63	2			0.02	5.30	11.5	80	0.11	0.01	5.25	0.12	3.25	28.0	146
S894331		1.52	<1			0.04	2.52	9.0	10	0.05	0.01	2.49	0.03	1.63	13.9	114
S894332		1.79	221	186		0.24	7.70	3380	150	0.38	0.03	3.58	0.10	3.94	54.7	202
S894333		1.15	45			0.07	5.25	942	230	0.30	0.02	2.28	0.08	3.12	33.1	163
S894334		1.40	>10000	>10000	18150	1.32	1.98	>10000	60	0.13	0.11	0.85	0.14	1.75	9.8	99
S894335		1.22	176			0.15	8.09	524	430	0.27	0.02	4.35	0.10	4.33	48.4	269
S894336		1.07	281			0.07	4.57	987	50	0.08	0.03	2.20	0.08	2.37	20.6	170
S894337		1.18	1600	1680		0.24	5.36	583	70	0.19	0.02	3.98	0.12	3.40	26.6	201
S894338		2.22	12			0.09	7.55	62.1	480	0.58	0.17	4.90	0.18	9.04	42.5	196
S894339		2.09	2			0.02	7.88	21.9	10	103.5	1.96	0.45	<0.02	1.76	1.5	26
S894340		0.81	<1			0.02	8.03	4.7	10	77.4	0.73	0.72	0.05	1.40	1.2	18
S894341		1.51	3			0.17	8.98	35.9	20	12.15	13.65	0.19	<0.02	0.08	1.7	20
S894342		2.11	1			0.25	7.45	2.2	20	38.9	1.66	0.15	<0.02	0.45	2.8	19
S894343		2.35	3			0.07	3.59	3.1	40	0.16	0.04	2.30	0.04	2.11	19.0	130
S894344		1.26	1			0.41	7.93	4.9	50	0.12	0.06	0.91	0.05	2.57	55.5	203
S894345		1.80	36			1.69	7.40	32.7	40	0.95	0.12	6.60	0.12	2.54	26.7	159
S894346		1.14	<1			0.02	4.34	11.8	30	0.07	0.02	3.81	0.06	2.63	23.5	207
S894347		1.16	6	6		1.22	4.46	30.6	300	0.46	2.00	0.85	0.43	9.63	29.5	174
S894348		1.13	1			0.29	3.20	2.8	340	0.43	0.44	0.46	0.19	19.40	11.8	64
S894451		1.47	1			0.02	2.87	1.9	10	0.06	0.02	3.60	0.02	1.57	8.9	90
S894452		1.80	3			0.04	3.97	7.3	20	<0.05	0.03	3.50	0.07	2.64	13.4	156



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Page: 4 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

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CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte Units LOR	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
S894311		0.51	9.0	0.83	2.70	0.05	0.3	<0.005	0.43	1.1	7.2	0.07	89	2.92	0.25	1.5
S894312		0.20	2.6	0.47	0.62	<0.05	0.1	<0.005	0.12	<0.5	2.9	0.03	54	3.73	0.07	0.5
S894313		2.77	5.7	1.49	18.80	0.06	3.4	0.018	2.23	13.5	31.2	0.31	224	2.73	2.62	5.5
S894314		2.30	14.1	2.11	20.8	0.09	3.2	0.026	2.26	20.9	64.4	0.46	262	13.35	1.58	9.7
S894315		0.32	576	13.25	9.87	0.08	1.2	0.126	0.13	7.4	13.4	1.41	448	4.51	0.50	2.8
S894316		0.36	390	11.20	9.12	0.07	1.6	0.119	0.42	5.6	9.3	0.68	230	4.41	0.98	2.9
S894317		0.87	152.5	8.38	14.55	0.07	0.9	0.098	0.27	4.0	26.5	3.72	1020	2.93	1.54	2.6
S894318		0.55	3.8	1.65	3.53	<0.05	0.2	0.012	0.31	0.5	4.4	0.48	278	4.51	0.21	0.6
S894319		0.37	19.0	3.00	5.04	<0.05	0.1	0.015	0.28	0.5	6.0	1.02	516	3.21	0.70	0.5
S894320		0.42	210	3.41	7.49	0.08	0.2	0.030	0.17	0.7	5.5	0.99	537	3.16	1.47	0.6
S894321		0.12	3.8	0.92	1.19	<0.05	<0.1	<0.005	0.03	<0.5	1.1	0.18	126	4.43	0.06	0.5
S894322		0.19	3.7	1.72	2.84	<0.05	0.1	0.007	0.04	<0.5	4.4	0.59	278	7.14	0.23	1.0
S894323		4.60	27.2	6.78	17.90	0.10	2.3	0.035	0.99	4.7	52.2	2.61	3780	1.98	2.04	3.6
S894324		0.48	86.3	5.87	8.93	0.06	0.4	0.040	0.18	1.0	10.1	1.78	1240	2.93	1.39	1.0
S894325		0.94	7650	7.77	16.25	0.12	1.5	0.401	2.97	11.2	15.5	2.11	616	572	2.56	5.7
S894326		1.30	52.2	3.65	15.00	0.08	2.3	0.050	2.03	60.5	10.4	0.97	548	2.97	1.79	11.5
S894327		0.17	9.7	3.13	6.26	<0.05	<0.1	0.063	0.01	<0.5	6.2	0.23	17150	2.61	0.01	0.3
S894328		0.37	13.9	6.47	9.47	<0.05	0.3	0.048	0.13	1.3	13.0	2.11	1420	2.71	1.79	1.1
S894329		0.05	29.7	0.48	0.20	<0.05	<0.1	<0.005	<0.01	<0.5	1.7	<0.01	56	2.66	0.01	0.3
S894330		0.79	26.8	6.50	11.85	<0.05	0.3	0.056	0.38	1.2	13.5	2.07	1460	1.81	1.09	0.9
S894331		0.14	19.2	3.32	6.06	<0.05	0.4	0.019	0.07	0.6	7.1	0.98	658	2.50	0.44	0.7
S894332		1.72	332	10.55	18.85	0.06	0.7	0.063	0.60	1.4	60.4	3.41	2200	1.93	1.93	1.3
S894333		2.46	57.9	4.91	11.40	0.05	0.5	0.028	0.89	1.2	39.9	1.62	1240	1.26	0.98	0.8
S894334		0.74	49.4	2.38	4.97	0.06	0.2	0.019	0.34	0.8	9.1	0.44	313	2.11	0.53	0.3
S894335		3.07	147.5	8.48	16.00	0.05	0.6	0.051	1.91	1.6	54.3	3.08	1710	0.71	1.01	1.2
S894336		0.39	43.8	5.59	9.37	0.06	0.3	0.029	0.26	1.0	29.3	2.12	1200	1.05	1.43	0.7
S894337		1.12	118.5	6.64	11.70	<0.05	0.6	0.037	0.39	1.3	31.3	2.39	1360	1.00	1.42	0.9
S894338		1.17	20.5	7.83	15.35	0.08	1.1	0.057	1.58	4.6	19.5	4.01	3540	0.44	2.26	1.8
S894339		>500	2.6	0.83	80.9	0.17	2.2	<0.005	0.70	0.6	9970	0.13	985	1.05	2.47	146.5
S894340		>500	3.1	0.49	66.2	0.13	1.9	0.006	0.52	0.6	5090	0.07	579	0.92	4.51	94.5
S894341		>500	7.5	0.84	118.0	0.14	1.1	<0.005	1.26	<0.5	>10000	0.06	1050	1.11	0.72	38.3
S894342		>500	12.8	0.49	72.9	0.15	0.9	<0.005	3.32	<0.5	9150	0.04	428	1.01	1.07	30.8
S894343		6.34	90.2	3.91	7.91	0.10	0.2	0.016	0.26	0.9	56.2	1.32	879	2.74	1.41	0.5
S894344		4.10	139.0	8.12	17.65	0.08	0.6	0.046	0.64	0.9	107.5	2.86	1260	0.37	4.96	1.5
S894345		1.37	200	9.45	15.75	0.09	0.8	0.050	0.48	1.1	32.0	2.41	3020	4.45	2.74	1.3
S894346		1.18	31.8	7.72	12.05	0.06	1.1	0.042	0.20	1.1	29.1	2.16	1860	1.62	0.94	0.7
S894347		3.02	178.5	13.45	11.20	0.07	2.2	0.096	0.92	4.6	45.7	0.71	511	2.36	1.34	2.6
S894348		2.02	48.1	3.56	7.93	<0.05	1.8	0.011	0.74	9.7	27.3	0.36	188	3.12	1.28	1.8
S894451		0.94	47.4	3.05	8.42	0.07	0.3	0.022	0.02	0.6	16.6	0.85	600	1.73	0.10	0.4
S894452		1.08	188.0	5.57	12.30	<0.05	0.3	0.038	0.07	1.4	25.4	1.68	1000	2.68	0.37	0.4



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Page: 4 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
S894311		3.3	70	4.1	16.7	0.006	0.11	0.08	0.7	<1	0.4	19.7	0.12	<0.05	1.20	0.023
S894312		1.8	20	1.1	3.7	0.004	0.01	0.05	0.2	<1	0.2	5.5	<0.05	<0.05	0.22	0.008
S894313		1.4	290	15.3	101.5	0.005	0.08	0.11	3.2	<1	1.5	194.0	0.63	0.33	9.75	0.132
S894314		3.8	140	17.6	85.6	0.005	0.32	0.12	4.1	<1	2.2	125.0	1.11	<0.05	10.75	0.187
S894315		123.5	190	10.3	6.3	0.017	6.40	0.27	11.1	8	1.2	60.0	0.21	1.16	2.49	0.190
S894316		92.6	170	10.5	11.3	0.017	4.75	0.25	6.3	8	0.7	70.8	0.24	1.12	3.20	0.128
S894317		103.5	250	4.3	12.8	0.012	1.27	0.23	28.5	3	0.9	110.0	0.18	0.21	0.85	0.393
S894318		6.8	70	<0.5	20.0	0.005	0.02	0.35	5.5	<1	0.2	36.4	<0.05	<0.05	0.12	0.066
S894319		47.2	40	<0.5	15.1	0.007	0.05	0.24	12.4	<1	0.3	49.6	<0.05	<0.05	0.04	0.134
S894320		46.5	80	3.8	7.7	0.002	0.09	1.09	14.0	1	0.2	62.7	<0.05	0.05	0.11	0.109
S894321		7.2	20	0.7	1.7	<0.002	<0.01	0.15	1.6	<1	<0.2	4.8	<0.05	<0.05	0.03	0.019
S894322		18.1	30	0.8	2.3	<0.002	<0.01	0.21	5.3	<1	<0.2	12.3	<0.05	<0.05	0.06	0.064
S894323		92.9	430	8.3	35.6	<0.002	0.07	0.24	26.7	1	0.5	264	0.25	<0.05	3.51	0.361
S894324		64.4	90	<0.5	13.9	<0.002	0.12	0.74	28.0	1	0.3	56.0	<0.05	<0.05	0.11	0.283
S894325		20.2	1170	15.5	62.8	0.015	0.95	1.08	19.1	8	6.7	602	0.29	0.38	2.07	0.369
S894326		24.7	660	14.2	70.7	0.002	0.24	1.72	9.5	1	2.1	575	0.57	<0.05	3.77	0.581
S894327		4.5	10	<0.5	1.0	<0.002	<0.01	0.12	1.7	<1	0.2	8.1	<0.05	<0.05	0.02	0.017
S894328		76.8	140	0.5	7.5	<0.002	<0.01	0.99	34.2	<1	0.4	63.1	0.05	<0.05	0.12	0.307
S894329		1.3	<10	<0.5	0.1	<0.002	0.02	0.16	0.1	<1	<0.2	1.0	<0.05	<0.05	<0.01	<0.005
S894330		68.0	90	0.8	25.0	<0.002	<0.01	1.05	33.6	<1	0.4	87.8	<0.05	<0.05	0.11	0.312
S894331		35.5	60	0.5	2.2	<0.002	0.01	0.55	17.4	<1	0.2	37.7	<0.05	<0.05	0.06	0.181
S894332		124.0	240	3.7	15.8	0.002	1.07	1.79	50.2	4	0.5	92.6	0.08	0.51	0.14	0.467
S894333		77.6	160	2.9	48.6	<0.002	0.21	0.84	30.7	1	0.3	68.7	0.05	0.20	0.12	0.297
S894334		27.5	60	238	17.0	<0.002	0.55	10.30	11.1	7	0.2	22.6	<0.05	2.37	0.10	0.104
S894335		128.5	210	5.4	88.4	<0.002	0.57	0.78	49.4	1	0.3	68.8	0.07	0.09	0.15	0.438
S894336		55.7	140	2.7	10.9	<0.002	0.06	0.67	27.1	1	0.3	38.6	<0.05	0.45	0.11	0.244
S894337		76.9	190	6.1	16.4	<0.002	0.26	0.71	35.8	2	0.3	46.9	0.05	0.12	0.12	0.315
S894338		121.5	280	11.2	53.2	<0.002	0.03	0.66	43.2	<1	0.6	221	0.11	0.05	0.81	0.422
S894339		6.4	330	12.2	990	<0.002	<0.01	12.15	6.1	<1	65.0	10.0	>100	<0.05	2.85	0.039
S894340		3.8	500	13.6	710	<0.002	<0.01	15.15	1.5	<1	42.5	18.2	>100	<0.05	1.62	0.021
S894341		3.3	220	16.4	1720	<0.002	<0.01	8.08	2.5	<1	62.5	3.1	>100	0.05	0.17	0.013
S894342		4.4	540	16.6	3660	<0.002	<0.01	2.34	3.4	<1	37.9	7.3	>100	<0.05	0.83	0.009
S894343		46.8	70	1.0	16.5	<0.002	0.16	0.21	17.2	1	0.2	46.2	0.23	0.08	0.06	0.160
S894344		141.0	240	1.2	14.8	0.002	0.95	0.14	54.1	1	0.3	79.7	0.19	<0.05	0.14	0.517
S894345		54.1	220	37.7	19.9	<0.002	0.98	0.34	48.7	2	0.4	52.0	0.10	0.21	0.16	0.455
S894346		65.1	100	0.7	8.5	<0.002	0.02	0.45	30.6	1	0.3	26.5	0.07	<0.05	0.10	0.289
S894347		314	230	15.3	57.0	0.003	6.43	1.03	7.2	5	1.3	140.0	0.20	0.68	1.48	0.163
S894348		67.4	230	6.0	27.1	0.002	2.17	0.33	2.7	1	0.4	108.0	0.30	0.12	3.46	0.078
S894451		22.0	100	0.8	1.2	<0.002	0.04	0.69	14.6	1	0.2	38.7	0.06	<0.05	0.08	0.142
S894452		19.9	80	0.7	2.8	0.003	0.05	0.66	18.1	3	0.2	48.2	0.06	0.09	0.12	0.150



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Page: 4 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	S- IR08	Li- OG63	
		Tl	U	V	W	Y	Zn	S	Li	
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.02	0.1	1	0.1	0.1	2	0.5	0.01	0.005
S894311		0.05	0.2	5	0.1	0.6	11	10.9		
S894312		<0.02	0.1	2	<0.1	0.3	6	2.5		
S894313		0.65	3.1	16	0.2	4.3	27	121.0		
S894314		0.37	5.9	27	1.3	5.7	77	107.5		
S894315		0.12	0.7	73	0.7	8.1	214	42.4		
S894316		0.16	0.9	39	0.6	5.0	226	59.6		
S894317		0.12	0.3	200	0.8	13.4	79	27.6		
S894318		0.09	0.1	26	0.4	2.4	9	7.3		
S894319		0.05	<0.1	85	0.3	5.0	25	2.0		
S894320		0.07	0.1	84	0.6	5.6	25	1.9		
S894321		<0.02	<0.1	12	0.1	0.6	4	0.9		
S894322		<0.02	<0.1	37	0.2	2.2	11	2.2		
S894323		0.28	0.8	163	0.8	11.7	74	77.6		
S894324		0.11	0.1	176	0.9	10.2	72	7.7		
S894325		0.29	0.8	192	3.4	14.9	91	51.9		
S894326		0.41	0.7	88	0.3	18.8	123	77.5		
S894327		0.02	<0.1	66	0.7	5.1	146	0.9		
S894328		0.07	<0.1	237	1.1	11.9	86	5.2		
S894329		<0.02	<0.1	1	<0.1	<0.1	<2	<0.5		
S894330		0.19	<0.1	266	0.9	13.0	68	6.7		
S894331		<0.02	<0.1	121	0.3	6.5	29	5.0		
S894332		0.18	<0.1	285	9.7	15.2	88	19.5		
S894333		0.29	<0.1	186	8.5	8.5	53	12.9		
S894334		0.10	0.1	65	22.2	3.9	17	6.6		
S894335		0.71	<0.1	276	9.8	15.1	89	18.0		
S894336		0.05	<0.1	157	2.6	9.0	54	8.2		
S894337		0.10	<0.1	196	9.4	12.5	68	13.3		
S894338		0.42	0.2	242	3.7	15.9	104	30.6		
S894339		8.54	7.0	14	3.5	2.7	29	8.3		
S894340		5.40	1.2	4	3.5	2.0	19	6.8		
S894341		12.90	0.5	5	2.7	0.2	27	1.8	2.190	
S894342		29.0	1.0	12	3.4	1.6	18	2.2		
S894343		0.11	<0.1	111	1.6	5.7	43	6.1		
S894344		0.33	<0.1	322	2.5	10.5	68	19.9		
S894345		0.17	<0.1	256	2.2	15.8	156	24.0		
S894346		0.04	0.1	192	5.1	11.2	57	10.6		
S894347		0.57	0.5	49	0.7	5.2	115	83.0		
S894348		0.26	1.8	18	0.3	3.6	50	62.4		
S894451		<0.02	<0.1	92	0.9	5.8	16	4.1		
S894452		0.02	0.2	150	1.6	6.6	29	4.8		



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Page: 5 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

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CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method	WEI- 21	Au- ICP22	Au- AA24	Au- GRA22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	1	5	50	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
S894453		1.00	<1			0.04	7.61	2.5	220	0.09	0.02	4.60	0.07	6.20	52.2	200
S894454		0.72	1			0.09	7.66	2.6	170	0.42	0.02	8.21	0.11	9.54	52.3	172
S894455		1.56	21			0.16	7.73	14.1	50	0.10	0.03	6.50	0.16	8.80	47.9	188
S894456		0.67	8			0.14	8.21	6.8	90	0.07	0.04	5.52	0.19	6.55	54.0	197
S894457		1.24	<1			0.07	7.82	70.1	160	0.30	0.02	5.94	0.11	5.03	54.4	171
S894458		2.22	15			0.02	6.25	0.8	40	0.21	0.01	2.36	0.04	3.88	43.9	161
S894459		1.75	1			0.01	0.81	0.6	150	0.13	0.07	0.29	<0.02	1.88	1.7	49
S894460		1.43	5			0.13	7.21	4.7	570	1.33	0.41	2.61	0.04	32.1	10.7	120
S894461		1.25	<1			0.27	7.77	0.2	170	0.89	0.90	4.38	0.08	15.75	46.8	314
S894462		2.31	<1			0.02	5.27	<0.2	20	3.75	0.36	0.57	0.02	2.43	0.4	30
S894463		1.28	<1			0.06	7.04	0.2	710	1.10	0.39	2.05	0.08	51.2	20.6	237
S894464		1.68	<1			0.29	5.51	2.6	360	0.48	0.65	3.19	0.07	10.15	53.4	710
S894465		0.52	1			0.25	7.70	0.5	120	0.83	0.55	4.19	0.08	13.05	48.9	415
S894466		1.46	1			0.04	5.78	1.0	320	0.45	0.47	4.17	0.11	13.55	52.6	1100
S894467		1.27	<1			0.05	6.30	2.9	420	0.84	0.36	2.78	0.12	11.70	44.5	1040
S894468		1.45	<1			0.05	5.81	1.1	470	0.43	0.41	3.65	0.13	13.90	70.7	1160
S894469		0.81	1			0.10	1.47	0.5	160	0.25	0.96	0.45	<0.02	2.03	4.8	101
S894470		1.04	<1			0.06	7.93	3.3	70	0.22	0.02	7.38	0.10	5.43	59.8	208
S894471		0.68	3			0.07	7.57	6.8	810	0.60	0.17	3.94	0.08	12.80	38.0	352
S894472		1.19	6			0.07	7.97	7.4	420	0.56	0.17	4.72	0.10	12.30	36.2	450
S894473		1.25	2			0.08	7.55	58.6	570	1.35	0.23	1.72	0.09	44.8	21.3	523
S894474		1.03	<1			0.13	7.02	5.0	390	0.89	0.83	2.99	0.12	22.0	24.6	724
S894475		0.07	860	879		2.15	7.53	5.2	690	0.99	2.58	3.28	0.09	22.0	26.3	42
S894476		0.78	1			0.05	5.73	2.6	760	1.06	0.05	8.83	0.06	45.6	12.2	41
S894477		0.90	2			0.05	1.10	0.9	<10	0.05	0.06	0.33	0.04	2.13	90.7	396
S894478		1.48	6			0.15	3.33	1.1	<10	<0.05	0.18	0.17	0.02	1.43	214	2190
S894479		0.45	1			0.21	7.39	0.5	20	0.10	0.03	8.82	0.05	3.79	33.4	135
S894480		2.25	17	24		1.91	2.14	32.0	100	0.36	2.45	1.00	2.16	10.55	72.6	50
S894481		2.93	17			0.26	0.44	4.6	20	0.09	0.20	0.11	1.06	2.18	9.8	62
S894482		1.65	6			0.42	1.41	17.5	80	0.38	1.32	0.45	0.17	0.56	15.7	37
S894483		1.53	3			0.57	8.04	4.2	110	0.54	0.64	5.44	0.38	13.65	35.6	200
S894484		0.75	7			1.02	3.88	4.9	90	0.51	1.16	4.49	1.09	16.25	13.4	90
S894485		1.72	18	6		2.26	4.36	398	230	0.36	0.11	3.70	0.10	4.43	106.5	2430
S894486		2.03	7			0.80	5.57	299	220	0.56	0.34	2.46	0.09	2.66	123.0	3270
S894487		0.81	<1			0.02	6.85	3.2	50	0.21	0.01	6.29	0.10	6.18	49.6	197
S894488		1.69	1			0.06	2.23	28.8	10	0.07	0.03	0.80	0.05	1.66	92.2	1800
S894501		1.07	23			0.09	0.08	37.4	20	0.35	0.05	2.02	0.05	1.68	2.2	17
S894502		1.91	7			0.03	0.31	14.2	10	0.50	0.02	2.39	0.06	2.44	1.7	8
S894503		0.90	8			0.03	0.11	13.0	<10	0.48	0.02	2.71	0.06	0.73	1.1	2
S894504		1.36	31			0.04	0.09	7.5	10	0.34	0.04	1.94	0.07	0.47	0.7	14



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Page: 5 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
S894453		4.11	154.5	12.75	17.95	0.05	0.7	0.059	0.26	2.3	41.1	4.25	2910	0.63	1.71	2.0
S894454		2.15	228	7.76	15.25	0.08	0.6	0.072	0.61	4.1	23.4	3.05	2450	0.54	1.09	2.0
S894455		1.54	852	15.20	18.35	0.07	1.0	0.073	0.28	3.4	30.4	4.00	3550	0.66	1.07	1.8
S894456		1.63	641	15.00	26.0	0.07	0.7	0.076	0.30	2.5	57.1	5.09	3230	0.20	1.09	1.9
S894457		2.37	47.0	10.50	16.45	0.05	0.7	0.069	1.18	1.8	31.2	3.23	3020	0.30	1.75	1.3
S894458		5.85	58.9	7.44	13.00	0.05	0.3	0.025	0.21	1.3	62.3	3.74	1040	1.10	1.45	1.2
S894459		0.22	3.2	0.92	2.22	<0.05	0.2	<0.005	0.28	0.8	3.3	0.17	129	2.22	0.32	0.6
S894460		1.13	22.5	2.57	20.3	0.09	2.1	0.021	1.56	16.7	14.2	1.19	391	1.32	3.20	4.1
S894461		2.01	175.5	7.03	14.60	0.07	1.8	0.029	0.47	7.9	12.7	4.26	1300	0.91	2.56	3.0
S894462		3.35	1.3	0.57	17.30	<0.05	0.4	0.006	0.88	1.4	13.2	0.07	90	1.63	3.48	4.5
S894463		4.29	22.3	3.53	19.05	0.09	2.9	0.027	1.47	25.1	34.2	2.25	544	0.77	3.16	4.7
S894464		1.40	77.3	5.90	11.90	0.07	1.4	0.033	0.96	4.4	22.2	6.12	989	10.80	1.45	0.6
S894465		1.88	153.5	6.47	14.45	0.06	2.0	0.023	0.39	6.1	14.5	5.35	1100	1.00	2.43	0.5
S894466		3.32	29.0	7.57	12.85	0.07	1.6	0.047	1.35	6.3	33.3	9.66	1300	2.90	0.67	0.3
S894467		2.08	21.1	7.04	14.80	0.06	1.9	0.045	1.24	5.2	57.1	8.26	1060	1.24	1.65	1.0
S894468		5.15	38.9	7.72	11.75	0.07	1.6	0.047	1.26	6.4	41.4	9.91	1560	0.54	0.64	0.4
S894469		1.19	7.9	1.15	2.69	<0.05	0.2	0.005	0.38	1.1	11.9	0.53	163	22.3	0.51	0.4
S894470		1.21	150.0	9.24	16.10	0.05	0.5	0.061	0.36	1.9	24.5	4.56	1480	0.43	1.77	1.3
S894471		1.85	57.4	7.82	17.50	0.07	1.7	0.046	2.67	6.8	23.6	3.34	1640	1.40	2.31	2.5
S894472		2.06	46.7	8.71	18.10	0.08	1.9	0.057	0.93	5.5	34.3	3.95	1840	0.90	1.94	2.6
S894473		4.63	24.2	5.56	18.55	0.09	2.9	0.046	1.82	23.1	47.6	4.47	865	1.63	1.99	4.2
S894474		5.05	27.7	6.75	17.10	0.08	2.0	0.042	1.07	10.8	77.0	6.35	1130	1.18	1.81	0.7
S894475		1.14	7990	8.11	17.05	0.09	1.5	0.415	3.02	11.1	22.9	2.16	630	589	2.68	6.3
S894476		1.36	80.0	3.60	14.90	0.10	2.2	0.051	2.02	53.4	15.4	0.94	542	2.63	1.80	12.3
S894477		3.14	118.5	5.47	2.60	<0.05	0.1	0.014	0.01	0.9	6.9	19.70	709	0.32	0.01	0.3
S894478		1.57	208	7.39	11.80	0.09	0.5	0.044	<0.01	<0.5	7.6	18.15	717	1.20	<0.01	0.9
S894479		0.25	8.1	6.58	16.90	<0.05	0.3	0.047	0.02	1.4	15.9	3.17	1010	0.56	0.17	2.1
S894480		0.65	214	35.1	5.78	0.11	0.9	0.070	0.53	5.5	7.2	0.39	807	2.93	0.46	1.8
S894481		0.19	25.4	4.00	1.21	<0.05	0.2	0.015	0.05	1.1	3.1	0.07	156	3.21	0.21	0.3
S894482		0.56	5.9	5.32	3.50	<0.05	1.1	0.013	0.23	<0.5	3.3	0.10	263	3.95	0.65	1.7
S894483		1.55	70.9	8.90	20.4	0.06	1.5	0.119	0.69	5.3	46.3	4.88	1440	0.83	2.17	3.2
S894484		1.08	108.5	9.24	11.60	0.06	0.9	0.116	0.44	7.8	10.0	2.31	992	4.69	0.34	2.0
S894485		3.19	82.5	7.10	8.41	0.05	0.2	0.103	1.33	2.3	29.5	5.20	2960	0.84	0.72	0.4
S894486		4.22	36.8	5.98	11.10	0.06	0.7	0.080	1.92	1.2	72.8	5.20	2080	0.58	0.57	0.7
S894487		1.29	64.9	9.01	15.60	<0.05	0.5	0.057	0.25	2.2	27.7	5.03	1330	0.24	1.43	1.6
S894488		1.11	9.7	6.58	4.46	<0.05	0.1	0.014	<0.01	0.7	3.0	20.6	1040	0.09	0.01	0.4
S894501		0.18	3.4	23.6	0.47	0.06	<0.1	<0.005	0.01	1.1	0.9	1.84	12650	1.03	0.02	0.1
S894502		0.67	2.3	31.5	1.11	0.07	0.1	0.005	0.02	1.4	1.4	2.60	16750	0.74	0.05	0.3
S894503		0.31	3.8	28.2	0.90	0.07	<0.1	0.008	0.01	<0.5	0.8	2.50	16600	0.35	0.03	0.1
S894504		0.06	2.5	16.75	0.78	0.05	<0.1	0.011	0.01	<0.5	0.9	1.79	11600	1.04	0.02	0.1

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Page: 5 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
S894453		118.0	390	0.9	10.6	<0.002	0.19	0.91	45.7	2	0.4	99.9	0.16	<0.05	0.25	0.529
S894454		121.5	360	0.8	45.5	0.002	0.04	0.91	47.3	1	0.5	132.5	0.19	<0.05	0.27	0.518
S894455		114.5	270	0.7	9.7	0.004	0.66	2.13	52.6	4	0.5	40.0	0.11	0.09	0.26	0.489
S894456		130.5	280	0.7	11.7	0.002	1.21	2.18	42.7	4	0.5	42.7	0.12	0.18	0.21	0.529
S894457		137.5	210	1.2	41.0	<0.002	0.09	1.32	49.5	<1	0.5	96.0	0.08	<0.05	0.15	0.486
S894458		95.6	190	1.2	23.0	<0.002	0.03	0.23	41.1	1	0.3	54.7	0.07	<0.05	0.15	0.387
S894459		7.2	70	2.4	8.2	<0.002	0.01	0.14	1.0	<1	<0.2	43.4	0.05	<0.05	0.58	0.024
S894460		52.9	460	16.0	39.1	<0.002	0.12	0.36	7.2	1	0.7	511	0.28	<0.05	8.10	0.180
S894461		162.5	410	11.1	22.2	<0.002	0.64	0.13	39.8	1	0.4	403	0.20	0.20	2.69	0.415
S894462		1.7	10	64.3	36.8	<0.002	<0.01	0.12	1.0	<1	0.7	48.6	0.65	<0.05	3.98	0.055
S894463		145.5	780	17.9	43.5	<0.002	0.09	0.09	12.9	<1	0.6	488	0.32	<0.05	6.31	0.270
S894464		335	320	10.9	37.0	0.010	0.15	0.13	27.6	1	0.4	214	<0.05	0.08	1.76	0.164
S894465		205	380	8.9	18.3	<0.002	0.50	0.14	39.2	1	0.3	312	0.05	0.13	1.88	0.132
S894466		469	480	3.2	59.9	<0.002	0.16	0.19	41.7	1	0.5	114.5	<0.05	0.07	1.95	0.142
S894467		349	390	5.2	53.5	0.002	0.05	0.10	29.8	1	0.6	192.0	0.08	0.05	3.01	0.222
S894468		809	290	4.2	57.2	<0.002	0.31	0.14	31.4	1	0.6	130.5	<0.05	<0.05	1.52	0.186
S894469		37.7	70	14.3	22.7	0.003	0.02	0.10	2.4	<1	<0.2	109.5	<0.05	<0.05	0.23	0.030
S894470		161.5	200	0.7	20.2	<0.002	0.12	1.08	53.1	1	0.4	154.0	0.08	<0.05	0.17	0.406
S894471		154.0	370	7.9	66.9	<0.002	0.12	0.56	35.8	1	0.6	189.5	0.18	<0.05	2.63	0.366
S894472		139.0	390	7.2	35.5	<0.002	0.03	0.47	43.4	1	0.7	316	0.17	0.06	2.62	0.410
S894473		132.0	600	13.3	79.2	<0.002	0.13	0.34	22.8	1	1.0	288	0.30	<0.05	5.99	0.297
S894474		154.5	410	12.4	42.4	<0.002	0.06	0.12	28.4	1	0.6	257	0.06	0.10	4.05	0.227
S894475		22.0	1220	16.2	56.8	0.016	0.99	1.15	22.3	8	6.8	626	0.34	0.27	2.15	0.383
S894476		25.1	670	14.7	65.6	0.003	0.24	1.67	10.3	1	1.9	594	0.64	<0.05	3.36	0.586
S894477		1070	550	3.0	1.7	<0.002	0.83	0.66	6.6	1	0.2	3.5	<0.05	0.06	0.18	0.068
S894478		2940	770	5.5	0.2	0.007	2.49	0.86	19.0	1	0.2	2.4	<0.05	0.13	0.46	0.196
S894479		91.1	1540	2.2	0.8	<0.002	0.01	0.57	28.8	<1	0.5	99.3	0.08	<0.05	0.14	0.291
S894480		139.5	100	26.1	23.4	0.006	>10.0	0.37	3.3	5	0.7	85.0	0.19	0.32	1.68	0.061
S894481		13.7	30	2.6	3.0	0.002	3.40	0.22	0.4	1	<0.2	9.2	<0.05	<0.05	0.31	0.012
S894482		5.6	40	5.3	15.2	0.002	4.24	0.49	1.5	3	0.7	42.9	0.14	0.08	0.42	0.048
S894483		79.3	330	8.1	34.1	0.003	1.30	0.48	45.9	1	1.0	130.0	0.20	0.24	0.51	0.548
S894484		65.1	230	17.3	25.1	0.007	3.87	0.48	21.0	4	1.2	187.0	0.13	0.34	1.28	0.189
S894485		1130	70	5.5	81.5	0.002	3.63	0.61	33.2	2	0.3	64.8	<0.05	1.18	0.09	0.163
S894486		1160	40	21.8	123.5	0.003	3.71	0.79	43.5	2	0.6	37.1	0.05	0.23	0.17	0.252
S894487		124.5	160	1.2	14.4	<0.002	0.01	0.56	48.5	1	0.4	91.8	0.09	<0.05	0.18	0.417
S894488		1920	50	1.9	0.7	<0.002	0.12	1.06	17.1	1	0.3	3.5	<0.05	<0.05	0.06	0.098
S894501		10.6	60	0.9	0.3	<0.002	0.64	0.61	0.4	<1	<0.2	15.8	<0.05	<0.05	0.03	<0.005
S894502		10.8	70	2.6	1.0	<0.002	0.36	0.67	0.6	<1	0.2	20.4	<0.05	<0.05	0.29	0.012
S894503		2.5	30	1.3	0.4	<0.002	0.66	0.53	0.3	<1	<0.2	23.7	<0.05	<0.05	0.03	<0.005
S894504		1.8	50	1.4	0.2	<0.002	0.14	0.36	0.3	<1	<0.2	14.7	<0.05	<0.05	0.04	<0.005



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Page: 5 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

Project: RUBY HILL

CERTIFICATE OF ANALYSIS SD16133527

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		Tl	U	V	W	Y	Zn	Zr	S	Li
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.1	1	0.1	0.1	2	0.5	0.01	0.005
S894453		0.19	0.1	283	0.8	20.7	116	23.3		
S894454		0.30	0.1	266	1.5	27.6	79	7.7		
S894455		0.09	0.1	271	1.6	26.4	101	21.0		
S894456		0.09	0.1	350	0.5	23.5	220	18.8		
S894457		0.38	0.1	296	1.0	18.5	106	14.3		
S894458		0.30	<0.1	232	0.5	12.4	79	11.3		
S894459		0.04	0.2	8	0.2	0.7	6	6.7		
S894460		0.24	2.4	60	2.6	6.5	37	70.0		
S894461		0.19	0.7	131	2.9	16.9	74	54.8		
S894462		0.24	8.0	2	0.1	0.5	12	6.8		
S894463		0.29	1.8	82	0.8	9.0	61	94.7		
S894464		0.22	0.4	117	12.6	10.2	77	46.7		
S894465		0.13	0.6	89	7.6	16.2	77	66.6		
S894466		0.25	0.6	138	0.4	13.7	95	52.5		
S894467		0.26	1.0	148	0.8	13.1	106	63.5		
S894468		0.33	0.5	150	0.4	12.5	99	52.9		
S894469		0.12	0.2	15	0.2	1.3	12	5.1		
S894470		0.16	<0.1	260	0.8	18.8	111	8.3		
S894471		0.50	0.7	202	1.4	14.9	74	56.3		
S894472		0.27	0.7	229	1.2	19.7	89	64.7		
S894473		0.52	1.6	123	0.2	10.0	91	94.0		
S894474		0.31	1.6	160	0.8	14.3	91	67.1		
S894475		0.27	0.9	197	3.4	16.7	89	53.6		
S894476		0.42	0.7	84	0.3	18.8	126	71.5		
S894477		0.13	0.1	48	0.5	7.0	47	3.9		
S894478		0.35	0.2	214	0.3	6.5	43	18.3		
S894479		<0.02	0.1	141	0.6	10.6	49	5.0		
S894480		0.39	1.3	19	5.2	5.2	431	33.6	33.2	
S894481		0.06	0.2	4	0.9	0.9	227	5.4		
S894482		0.15	0.3	8	1.4	0.9	34	34.6		
S894483		0.39	0.2	315	2.3	22.8	206	47.6		
S894484		0.33	0.6	112	91.5	11.8	368	34.9		
S894485		0.87	0.1	161	0.6	6.5	150	4.2		
S894486		1.19	0.2	208	1.5	5.1	165	23.0		
S894487		0.10	0.1	260	0.7	19.7	84	9.7		
S894488		0.09	<0.1	78	1.3	3.7	72	2.1		
S894501		<0.02	0.2	3	0.5	5.9	16	1.1		
S894502		0.03	0.1	3	0.8	3.3	18	5.7		
S894503		<0.02	0.2	2	0.2	2.5	75	1.0		
S894504		<0.02	0.1	1	0.1	2.0	54	1.5		



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Page: 6 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
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CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP22	Au- AA24	Au- GRA22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppb	Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	1	5	50	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
S894505		1.05	12			0.03	0.14	7.4	10	0.55	0.01	2.66	0.07	0.75	1.0	19
S894506		1.41	4			0.02	0.12	9.0	10	0.26	<0.01	1.51	0.04	0.55	0.6	20
S894507		1.41	15			0.05	0.17	4.4	10	0.36	0.05	4.08	0.59	0.74	3.2	5
S894508		0.82	12			0.03	0.28	12.5	20	0.73	0.01	2.66	0.14	2.19	2.6	4
S894509		1.52	16			0.04	0.37	7.7	30	0.58	<0.01	2.25	0.08	2.24	1.2	7
S894510		1.14	6			0.02	0.05	7.1	70	0.20	<0.01	1.27	0.05	0.42	0.5	22
S894511		1.72	22			0.04	0.27	5.9	20	0.65	0.01	2.77	0.10	1.15	1.1	13
S894512		2.16	12			0.05	0.08	5.9	30	0.34	<0.01	2.02	0.12	0.64	4.5	15
S894513		1.01	64			0.04	0.09	10.9	20	0.41	0.01	2.54	0.13	0.44	1.3	13
S894514		0.51	16			0.19	5.69	2.1	260	0.38	0.13	6.73	0.06	18.75	21.2	111
S894515		0.73	133			0.12	7.09	46.7	90	0.33	0.44	6.45	0.25	3.13	11.8	216
S894516		0.93	3			0.11	6.31	32.3	80	0.24	0.29	7.60	0.16	5.03	22.2	187
S894517		1.77	7			0.05	7.62	206	800	0.25	0.13	4.59	0.15	6.37	52.1	261
S894518		1.42	11			0.11	7.74	13.6	220	0.53	0.10	3.23	0.04	24.5	71.2	16
S894519		1.57	12			0.15	7.35	15.3	200	0.70	0.18	3.07	0.04	19.45	76.4	16
S894520		0.95	1			0.37	8.13	0.5	90	1.51	0.29	6.44	0.15	18.55	14.8	20

***** See Appendix Page for comments regarding this certificate *****



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Page: 6 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
 Account: MVREM

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CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
S894505		0.09	3.4	23.4	0.86	0.05	0.1	0.010	0.02	<0.5	1.3	1.85	10900	1.22	0.03
S894506		0.15	2.4	16.15	0.46	0.10	0.1	0.005	0.02	<0.5	1.2	1.24	8420	1.24	0.02
S894507		0.62	7.4	24.1	0.74	0.09	0.1	0.010	0.02	<0.5	1.3	2.42	11800	0.48	0.05
S894508		1.87	3.2	27.6	1.02	0.08	0.1	0.011	0.03	1.2	1.7	2.30	14850	0.47	0.04
S894509		1.49	2.0	27.1	1.11	0.09	0.2	0.008	0.03	1.4	1.9	2.22	14300	0.60	0.04
S894510		0.07	1.7	12.55	0.39	0.08	<0.1	0.008	<0.01	<0.5	1.0	0.99	7150	1.42	0.01
S894511		0.53	3.1	26.2	0.79	0.08	0.1	0.019	0.02	0.7	1.6	2.17	14950	1.62	0.04
S894512		0.17	6.4	22.9	0.49	0.11	<0.1	0.006	<0.01	<0.5	1.3	2.12	14350	1.03	0.02
S894513		0.06	2.1	18.30	0.48	0.09	<0.1	0.006	0.01	<0.5	1.2	1.81	11300	2.37	0.02
S894514		1.24	672	15.85	12.85	0.06	1.7	0.032	0.66	9.2	8.9	3.42	3330	2.22	0.60
S894515		0.59	363	17.65	14.60	0.07	1.0	0.080	0.13	1.1	21.4	4.72	10350	0.93	0.69
S894516		0.26	159.5	18.05	15.20	0.07	1.0	0.079	0.19	1.8	18.0	4.38	4760	0.56	0.82
S894517		16.70	77.0	15.15	13.85	0.06	0.9	0.045	0.23	2.2	43.7	5.27	6030	0.34	0.78
S894518		6.15	18.8	8.23	20.3	0.10	1.7	0.027	1.14	10.2	36.1	0.87	611	2.01	2.51
S894519		4.60	33.0	10.75	19.70	0.08	1.9	0.023	0.91	8.0	31.3	0.70	481	2.12	2.44
S894520		0.82	115.0	6.17	19.60	0.06	2.8	0.049	0.88	9.2	19.4	3.06	1320	3.53	0.46



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Page: 6 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- SEP- 2016
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CERTIFICATE OF ANALYSIS SD16133527

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
S894505		2.3	60	1.4	0.3	<0.002	0.19	0.54	0.4	<1	<0.2	18.7	<0.05	<0.05	0.10	<0.005
S894506		3.1	40	1.9	0.3	0.002	0.20	0.54	0.2	1	<0.2	9.7	<0.05	<0.05	0.05	<0.005
S894507		7.2	60	8.4	0.8	<0.002	0.46	0.71	0.9	<1	<0.2	24.4	<0.05	<0.05	0.11	0.007
S894508		7.6	50	3.6	2.0	<0.002	0.90	0.73	0.5	1	0.2	24.7	<0.05	<0.05	0.23	0.009
S894509		3.7	60	2.8	1.9	<0.002	0.30	0.65	0.5	<1	0.3	19.3	<0.05	<0.05	0.27	0.011
S894510		1.7	40	1.3	0.2	<0.002	0.09	0.49	0.2	<1	<0.2	7.9	<0.05	<0.05	0.03	<0.005
S894511		2.8	70	1.7	0.7	<0.002	0.26	0.73	0.5	<1	0.3	17.2	<0.05	<0.05	0.16	0.008
S894512		11.9	50	2.2	0.1	<0.002	1.04	0.58	0.2	1	<0.2	15.7	<0.05	<0.05	0.03	<0.005
S894513		2.8	30	27.8	0.2	0.002	0.25	0.64	0.2	1	<0.2	22.1	<0.05	<0.05	0.03	<0.005
S894514		100.0	490	2.5	21.7	0.003	1.72	0.62	12.6	2	0.6	176.0	0.27	0.08	1.50	0.245
S894515		16.3	250	1.7	2.4	0.003	0.17	1.08	34.1	3	0.8	70.2	0.11	0.39	0.26	0.404
S894516		45.8	160	1.7	3.8	0.002	0.32	0.96	34.4	4	0.7	80.3	0.08	0.20	0.15	0.363
S894517		143.5	300	1.3	25.7	0.003	0.15	1.13	44.8	<1	0.4	437	0.11	0.07	0.21	0.481
S894518		14.9	560	8.1	26.4	0.004	7.61	1.03	7.7	1	0.6	308	0.19	0.09	1.38	0.257
S894519		24.1	460	8.8	19.7	0.003	>10.0	1.38	7.1	1	0.7	311	0.21	0.08	1.24	0.248
S894520		11.9	590	6.1	20.5	0.002	0.19	0.44	14.4	1	1.7	144.0	0.33	<0.05	1.66	0.356



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Page: 6 - D
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		Tl	U	V	W	Y	Zn	Zr	S	Li
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.1	1	0.1	0.1	2	0.5	0.01	0.005
S894505		<0.02	0.1	2	0.4	3.5	63	3.1		
S894506		0.03	<0.1	<1	0.3	1.7	34	2.1		
S894507		0.04	0.1	4	0.3	2.4	151	3.2		
S894508		0.06	0.1	3	0.3	3.3	85	5.5		
S894509		0.06	0.1	3	1.2	3.6	56	6.4		
S894510		<0.02	<0.1	1	0.5	1.9	36	1.9		
S894511		0.02	0.1	3	3.8	4.0	55	4.7		
S894512		<0.02	0.1	2	0.2	2.3	80	1.4		
S894513		<0.02	<0.1	1	0.3	2.2	63	2.1		
S894514		0.10	0.4	74	0.5	10.9	54	61.8		
S894515		0.02	0.3	221	1.5	12.4	119	25.8		
S894516		0.03	0.1	218	0.3	17.5	116	28.3		
S894517		0.17	0.1	245	0.5	17.3	185	22.7		
S894518		0.59	0.4	65	0.1	8.5	57	64.1		
S894519		0.52	0.4	60	0.1	7.7	48	67.8	10.10	
S894520		0.14	0.5	118	0.5	14.5	84	103.5		

Appendix 4:
Sample Location Map