



## ASSESSMENT REPORT TITLE PAGE AND SUMMARY

**TITLE OF REPORT: 2016 Geochemical Report on the Forrest Kerr Property**

**TOTAL COST: \$ 88,007.90**

AUTHOR(S): Cornell McDowell

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):  
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5629959

YEAR OF WORK: 2016

PROPERTY NAME: Forrest Kerr

CLAIM NAME(S) (on which work was done):

502751, 501895, 501812, 502758, 502738, 501227, 592381, 507426, 1044513, 507455, 1045518

COMMODITIES SOUGHT: Au, Cu, Ag, Pb, Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: LIARD Mining Division

NTS / BCGS: NTS 104B

LATITUDE: 56°54' N

LONGITUDE: 130° 37' W

UTM Zone: 9-U EASTING: UTM 401000 E NORTHING: 6307800 N

OWNER(S): Aben Resources Ltd.

MAILING ADDRESS: #1610—777 Dunsmuir, Vancouver, B.C., V7Y 1K4

OPERATOR(S) [who paid for the work]: Aben Resources Ltd.

MAILING ADDRESS: as above

REPORT KEYWORDS

Forrest Kerr Fault, Stikine Assemblage: Hazelton & Stuhini groups, Paleozoic, Triassic, Jurassic

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

27692, 28107, 31193, 20722, 27376, 19364, 19646, 20769, 21366, 22607, 24165, 26735, 20562, 19316, 21956, 24156, 23734, 24057, 24719, 25336, 25813, 26184, 26406, 34378, 20667, 21529, 22623, 22238, 18411, 27071, 20598

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	Samples	362	501895, 502758, 502738, 501227, 592381, 507426, 1044513
Silt		11	1045158
Rock/Trench	Samples	35	502751, 501895, 501812, 502758, 502738, 501227, 507455
Other			
DRILLING (total metres, number of holes, size, storage location)			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
<b>TOTAL COST</b>			<b>\$88,007.90</b>

## 2016 Geochemical Report on the Forrest Kerr Property

Liard Mining Division  
NTS 104B15 & 104G2  
UTM Zone 9 NAD 83 : 401000 E 6307800 N  
56° 54' N latitude, 130° 37' W longitude

Prepared by:

Cornell McDowell, P.Geo.

Prepared for:

Aben Resources Ltd.  
Suite 1610, 777 Dunsmuir Street  
Vancouver, BC  
V7Y 1K4  
Tel: 604-687-3376

April 28, 2017

## Contents

SUMMARY .....	6
INTRODUCTION .....	7
RELIANCE ON OTHER EXPERTS.....	7
PROPERTY DESCRIPTION AND LOCATION.....	7
ACCESSIBILITY, PHSYSIOGRAPHY AND CLIMATE .....	13
EXPLORATION HISTORY .....	13
RDN Claims.....	14
Forgold Claims .....	27
Forrest Claims.....	32
GEOLOGIC SETTING .....	34
Regional and Property Geology.....	34
Forrest Geology.....	39
DEPOSIT TYPES—ECONOMIC GEOLOGY .....	40
2016 EXPLORATION.....	41
SAMPLE PREPARATION, ANALYSES AND SECURITY .....	50
INTERPRETATIONS AND CONCLUSIONS .....	50
APPENDIX A: References .....	52
APPENDIX B: Statement of Expenditures.....	57
APPENDIX C: Surface Sample Descriptions.....	58
APPENDIX D: Surface Sample plan maps with Gold & Copper .....	69
APPENDIX E: Certificate of Qualified Person .....	81
APPENDIX F: Analytical Certificates.....	82

## List of Figures

Figure 1: Location of Forrest Kerr Project.....	9
Figure 2: Forrest Kerr claims map.....	10
Figure 3: Claim groups on the Forrest Kerr Property.....	11
Figure 4: Forgold zone locations.....	29
Figure 5: Regional geology around the Forrest Kerr Property.....	35
Figure 6: Forrest Kerr Property Geology.....	38
Figure 7: Plan of sampled areas in 2016.....	42
Figure 8: Arctic area surface samples.....	43
Figure 9: Carcass Creek surface samples.....	44
Figure 10: Wedge south zone surface samples.....	45
Figure 11: Boundary zone surface samples.....	46
Figure 12: Forrest Creek surface samples.....	47
Figure 13: Forrest goldpan zone surface samples.....	48
Figure 14: Stream sediment samples on dropped claims.....	49

## List of Tables

Table 1: List of tenures.....	12
Table 2: Exploration history of the RDN claims.....	14
Table 3: Exploration History of the Forgold Claims.....	27
Table 4: Exploration History on Forrest Claims.....	32
Table 5: Hazelton Group Stratigraphic Units (from Jones 2006).....	37

## SUMMARY

The Forrest Kerr property consists of 56 contiguous mineral claims covering 23,397 hectares of mountainous terrain in northwestern British Columbia. The property is accessible to its southern portion via the Coast Mountain Hydro project road and to its northern portion via the Galore Creek mine road. The remainder of the property is currently accessible only by helicopter. The Coast Mountain Hydro project is a run-of-the river hydro project located at the confluence of the Iskut River and Forrest Kerr creek that generates 297 MW of electrical energy to the BC power grid via the 287 kV Northwest transmission line. The hydro facilities are operated by AltaGas and include a 300 person camp located in the southernmost portion of the property, which has sufficient space to accommodate several mineral exploration crews. The Galore Creek Mining Corporation maintains a 100 person camp adjacent to the northern portion of the Forrest Kerr Property. The nearest community is the port of Stewart, located approximately 90 kilometres to the south, which has a deep-water concentrate & loading facility.

The Forrest Kerr property represents a consolidation of three mineral properties in addition to several claims staked by Aben Resources in 2016. From north to south, the RDN claims are currently held by Kiska Metals Corp. (“Kiska”), the Forgold claims are owned by Carl Von Einsiedel and the Forrest claims are owned equally by Pamicon Developments Ltd. (“Pamicon”) and Equity Exploration Consultants Ltd. (“Equity”). Aben Resources (“Aben”) has option agreements to earn 100 % of all the claims by incurring three million dollars in exploration expenditures on the various properties before June 2020.

The Forrest Kerr property lies within the Stikine Terrane, near the boundary between the Intermontane and Coast Tectonic Belts of the Canadian Cordillera. The property straddles the Forrest Kerr Fault (“FKF”), a major lineament that can be traced in excess of 55 kilometres along strike. In general on the property, rocks to the west of the fault represent the Paleozoic members of Stikinia while those to the east are Mesozoic members, namely Triassic Stuhini and Jurassic Hazelton volcanic and sedimentary assemblages. There are numerous occurrences of early to middle Jurassic intrusive rocks throughout the property, which have close spatial and genetic links with many mineral deposits. The property is located in the center of the Golden Triangle of British Columbia, an area that hosts significant Au-Cu±Mo porphyry deposits, intrusion-related Au±Ag vein deposits and high-grade Au-Ag volcanogenic massive sulphide deposits. In fact, the Golden Triangle has a mineral endowment exceeding 100 million ounces of gold in N.I. 43-101 compliant resources and historical production within 50 kilometres of the Forrest Kerr property. There have been up to four distinct phases of Late Devonian to Tertiary deformation imposed onto the rocks of Stikinia.

Exploration work on the three separate claim packages began in the late 1980’s during a flurry of activity that was spurred by the discovery of the Snip and Eskay Creek mineral deposits. On the RDN claims a total of 80 drill holes have been completed between 1990 and 2005. Drill results from 1990 reported 125 g/t Au over 0.85 metres and 91.0 g/t Au over 1.95 metres (RG91-21) from the Carcass Creek area and 33.7 g/t Ag over 27 metres (RDN05-42) from the RTB zone. A total of 5 holes were drilled in 1991 on the Forgold claims, although subsequent events have caused the claim boundary to be adjusted and now only one historic hole lies within the Forgold

boundary. Two significant intersections of gold mineralization were reported; 3.9 g/t Au over 1.58 metres in drill hole FG-2 and 19.2 g/t Au over 0.82 metres in drill hole FG-3 (Bond, 1992). Two narrow zones of copper mineralization were reportedly intersected in hole FG-5, located approximately one kilometre south of the other 4 holes (2.97% copper over an interval of 0.31 metres and 1.14% copper over an interval of 1.16 metres). The Forrest claims had 35 drill holes in 1990 and 1995. The best drill intersections at the Creek zone averaged 0.77% Cu and 1.97 g/t Au over 39.7 metres of core length (16.8m true width) and 4.05 g/t Au over 3.15 metres of core length (1.6m true width).

Over 40 polymetallic mineral occurrences have been described within the current boundaries of the Forrest Kerr property. Mineralization styles range from discrete intrusion related Au + Cu +/- Ag veins to breccia, shear and stockwork zones in addition to areas with massive sulfide potential.

## **INTRODUCTION**

This report has been prepared for Aben Resources Ltd. for the purpose of fulfilling reporting requirements in order that assessment credits may be applied to the claim group. The author was present throughout the 2016 exploration program which ran from September 8-21 and involved the collection of 362 soil, 35 rock and 11 stream sediment samples. The focus of the program was to both confirm historically reported surface sample analytical results and to evaluate the potential for mineralization across the property. The author has undertaken a thorough data compilation of all information provided and available on a property wide basis. Information in this report was derived from publicly-available assessment reports, private reports from various operators, and government maps and publications. A complete list of references is provided in Appendix A.

## **RELIANCE ON OTHER EXPERTS**

The author is not relying on a report, opinion, or statement of another expert who is not a qualified person, or on information provided by the issuer, concerning other legal, political, environmental, or tax matters relevant to the technical report. Information regarding exploration programs prior to 2016 was derived from various assessment reports and private company reports, rather than first-hand experience. There is no reason to believe that any of this information is incorrect and portions were validated by the author in the field. The author has made no attempt to verify the legal status and ownership of the three separate properties, nor is he qualified to do so.

All dollar figures are in Canadian dollars (CDN) and g/t refers to grams/tonne.

## **PROPERTY DESCRIPTION AND LOCATION**

The Forrest Kerr property represents a consolidation of three properties (RDN, Forgold, and Forrest) in addition to 10 recently staked claims by Aben Resources. The property is centred at 56° 54' N latitude and 130° 37' W longitude (UTM NAD 83 401000 E 6307800 N), within the Liard Mining Division on map sheets 104B/15E and 104G/2E (Figure 1). The property consists of 56 contiguous mineral claims which cover 23,397 hectares in northwestern British Columbia (Figures 2). Claim data has been sourced from Mineral Titles Online (MTO), a division of the British Columbia Ministry of Energy and Mines. All of these mineral claims are governed by the Mineral

Tenure Act and the Mines Act (British Columbia) and are subject to a required assessment work or cash in lieu. All tenure data is summarized in Table 1. The author knows of no environmental liabilities associated with the property.

There are portions of certain claims within the claim group that are covered by staking reserves related to the potential development of hydroelectric power. Collectively, Order-in-Council 1589 (1972) and Order-in-Council 440 (1983) state that ground below 580 metres elevation is subject to flooding for hydroelectric development. Mineral exploration and development may be carried out in these staking reserves, but no compensation will be payable in the event of flooding. Claims located at lower elevations in the More Creek valley that may be partially affected by these two orders include; 502751, 502752, 502756, 518112, 501812, 501895, 501927 and 1044993. Also, conditional staking reserves #378962 and #385934 cover elevations below 480 metres on these claims located along the Forrest Kerr creek and Iskut river; 597143, 597144, 842682, 1044514, 1044989, 1044988 and 1043752.

In the event that a commercially exploitable mineral deposit is discovered in an area subject to these reserves, a subsequent decision by the Government of British Columbia to flood the area for water resource or hydroelectric generating purposes will not entitle the title holders to any form of compensation. To date, no significant mineralized occurrences have been identified in areas subject to the Orders-in-Council or staking reserves.

Surface rights are held by the Crown, as administered by the Province of British Columbia. There are no placer rights within the Forrest Kerr property. The ownership of other rights (timber, water, grazing, etc.) over the Forrest Kerr property has not been investigated by the author.

The Forrest Kerr property lies within the traditional territory of the Tahltan First Nation. Land claims have not been settled in this part of British Columbia and their future impact on the property's access, title or the right and ability to perform work remain unknown.

Aben Resources Ltd. has entered into separate agreements with the three owners of the respective claim groups to acquire a 100% interest in the various properties, details of which follow. Aben has entered into an agreement with Rimfire Minerals, a wholly owned subsidiary of Kiska Metals, whereby Aben may acquire a 100% interest in the RDN property by issuing 4 million shares and expending \$1,000,000 in exploration expenses on the RDN claims before June 30, 2020. Rimfire retains a property wide net smelter return (NSR) of 1.33% for which no buy back provision exists. Rocky Saliken and Randy DeBock share equally a 1% royalty interest (on all RDN claims except tenure 504799), of which 50% can be purchased for \$500,000. In addition, Rimfire owns a 2% NSR on claims 504798 & 504799 that are fully buyable for \$2,000,000. A 100% interest in the Forgold group of claims can be attained by the issuance of 1 million common shares to the current claim owner. These claims are subject to a 2% NSR, half of which can be purchased for the sum of \$1,000,000. Aben can acquire a 100% interest in the Forrest group of claims through the issuance of 2 million common shares and by incurring direct exploration expenses of \$500,000 by June 30, 2020. The Forrest claim group is subject to a 2% NSR, half of which may be purchased for \$1,500,000.





Figure 1: Location of Forrest Kerr Project

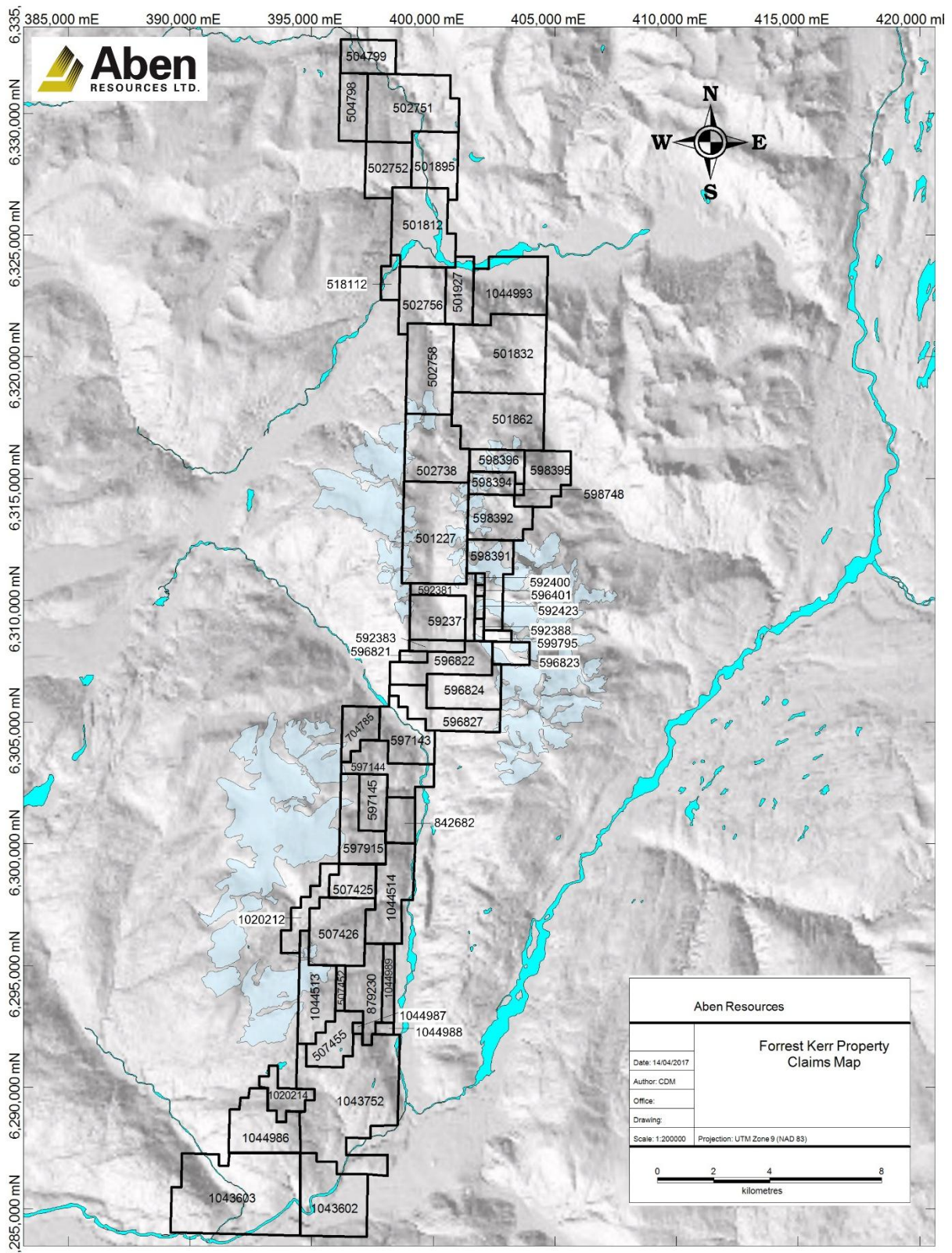


Figure 2: Forrest Kerr claims map

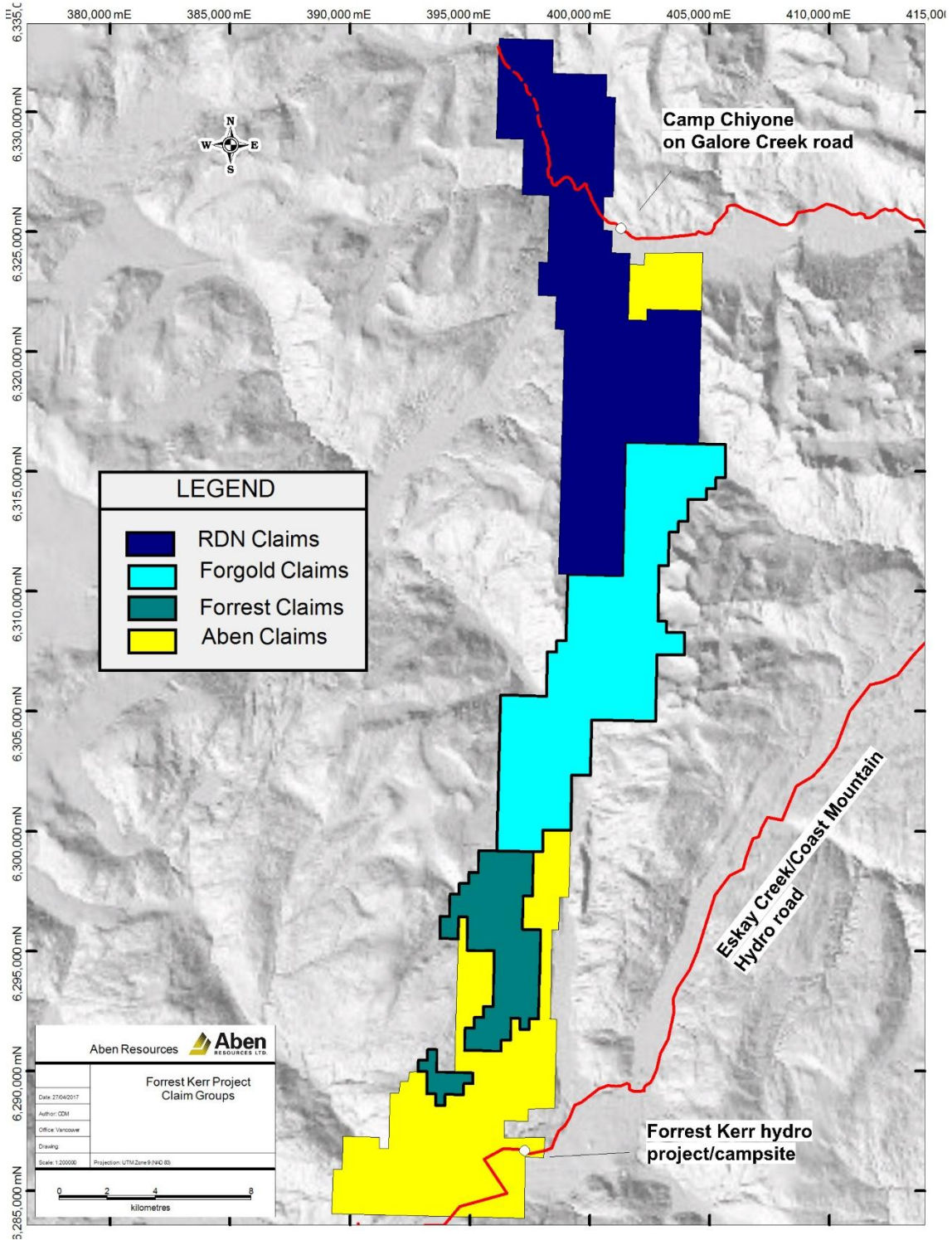


Figure 3: Claim groups on the Forrest Kerr Property

Tenure #	Owner	Issue Date	Good To Date	Area (ha)	Anniversary year of claim	Work Req Per Ha
501227	141517 (100%)	2005/jan/12	2018/nov/02	1111.923	1	\$5.00
501812	141517 (100%)	2005/jan/12	2018/nov/02	774.248	1	\$5.00
501832	141517 (100%)	2005/jan/12	2018/nov/02	1162.807	1	\$5.00
501862	141517 (100%)	2005/jan/12	2018/nov/02	846.243	1	\$5.00
501895	141517 (100%)	2005/jan/12	2018/nov/02	457.21	1	\$5.00
501927	141517 (100%)	2005/jan/12	2018/nov/02	299.329	1	\$5.00
502738	141517 (100%)	2005/jan/13	2018/nov/02	670.153	1	\$5.00
502751	141517 (100%)	2005/jan/13	2018/nov/02	931.516	1	\$5.00
502752	141517 (100%)	2005/jan/13	2018/nov/02	404.486	1	\$5.00
502756	141517 (100%)	2005/jan/13	2018/nov/02	457.823	1	\$5.00
502758	141517 (100%)	2005/jan/13	2018/nov/02	704.855	1	\$5.00
504798	141517 (100%)	2005/jan/25	2018/nov/02	316.37	1	\$5.00
504799	141517 (100%)	2005/jan/25	2018/nov/02	316.213	1	\$5.00
518112	141517 (100%)	2005/jul/21	2018/nov/02	123.24	1	\$5.00
592371	127981 (100%)	2008/oct/02	2020/nov/30	423.9311	8	\$20.00
592381	127981 (100%)	2008/oct/02	2020/nov/30	211.9263	8	\$20.00
592383	127981 (100%)	2008/oct/02	2020/nov/30	106.0114	8	\$20.00
592388	127981 (100%)	2008/oct/02	2020/nov/30	35.3312	8	\$20.00
592400	127981 (100%)	2008/oct/02	2020/nov/30	17.6571	7	\$15.00
592423	127981 (100%)	2008/oct/02	2020/nov/30	35.3239	8	\$20.00
596401	127981 (100%)	2008/dec/20	2020/nov/30	17.6591	8	\$20.00
596821	127981 (100%)	2009/jan/01	2020/nov/30	53.0117	8	\$20.00
596822	127981 (100%)	2009/jan/01	2020/nov/30	441.7954	8	\$20.00
596823	127981 (100%)	2009/jan/01	2017/nov/30	141.3564	5	\$15.00
596824	127981 (100%)	2009/jan/01	2017/nov/30	441.9077	5	\$15.00
596827	127981 (100%)	2009/jan/01	2017/nov/30	442.0048	5	\$15.00
597143	127981 (100%)	2009/jan/08	2017/nov/30	442.1118	5	\$15.00
597144	127981 (100%)	2009/jan/08	2017/nov/30	442.2597	5	\$15.00
597145	127981 (100%)	2009/jan/08	2017/nov/30	265.4423	5	\$15.00
597915	127981 (100%)	2009/jan/23	2017/nov/30	442.5243	5	\$15.00
598391	127981 (100%)	2009/feb/01	2020/nov/30	441.4108	8	\$20.00
598392	127981 (100%)	2009/feb/01	2017/nov/30	441.1685	5	\$15.00
598394	127981 (100%)	2009/feb/01	2017/nov/30	176.4098	5	\$15.00
598395	127981 (100%)	2009/feb/01	2017/nov/30	405.6961	5	\$15.00
598396	127981 (100%)	2009/feb/01	2017/nov/30	229.2841	5	\$15.00
598748	127981 (100%)	2009/feb/05	2017/nov/30	17.6414	5	\$15.00
599795	127981 (100%)	2009/feb/21	2020/nov/30	52.9998	8	\$20.00
704785	127981 (100%)	2010/jan/25	2017/nov/30	265.2513	5	\$15.00
842682	127981 (100%)	2011/jan/09	2017/nov/30	212.3897	5	\$15.00
507425	108992 (100%)	2005/feb/17	2023/dec/31	247.9446	8	\$20.00
507426	108992 (100%)	2005/feb/17	2023/dec/31	637.888	8	\$20.00
507452	108992 (100%)	2005/feb/18	2023/dec/31	70.9161	8	\$20.00
507455	108992 (100%)	2005/feb/18	2023/dec/31	354.765	8	\$20.00
879230	279932 (100%)	2011/aug/02	2023/dec/31	443.2355	9	\$20.00
1020212	279932 (100%)	2013/jun/10	2023/dec/31	265.7314	9	\$20.00
1020214	279932 (100%)	2013/jun/10	2019/dec/31	230.7184	6	\$15.00
1043602	282655 (100%)	2016/apr/19	2018/nov/02	763.9084	1	\$5.00
1043603	282655 (100%)	2016/apr/19	2018/nov/02	1545.5247	1	\$5.00
1043752	282655 (100%)	2016/apr/27	2018/nov/02	1597.4673	1	\$5.00
1044513	135211 (100%)	2016/jun/03	2018/nov/02	496.4498	1	\$5.00
1044514	135211 (100%)	2016/jun/03	2018/nov/02	584.5171	1	\$5.00
1044986	263928 (100%)	2016/jun/27	2018/nov/02	514.8512	1	\$5.00
1044987	263928 (100%)	2016/jun/27	2018/nov/02	17.738	1	\$5.00
1044988	263928 (100%)	2016/jun/27	2018/nov/02	35.476	1	\$5.00
1044989	263928 (100%)	2016/jun/27	2018/nov/02	106.3627	1	\$5.00
1044993	263928 (100%)	2016/jun/27	2018/nov/02	704.261	1	\$5.00

Table 1: List of tenures

## **ACCESSIBILITY, PHYSIOGRAPHY AND CLIMATE**

The Forrest Kerr property lies in the 'Iskut' area of the Coast Mountains in northwestern British Columbia. The center of the property is approximately 100 kilometres northwest of the deep water port of Stewart, British Columbia and 200 kilometres southwest of Dease Lake, British Columbia. Travel time to the project from Terrace or Smithers is approximately 6 hours. Both Smithers and Terrace serve as centers for mining and mineral exploration with several drill, helicopter, geological and support contractors based locally.

The property is road accessible to both its southern and northern regions. The southern route is via the controlled-access gravel Coast Mountain Hydro road (formerly the Eskay Creek mine road), which intersects the Stewart Cassiar highway (Hwy 37) 4 kilometres south of the Bob Quinn airstrip (20 km east of property). The Forrest Kerr run-of-river hydro facility is located 44 kilometres along this road and within the claim boundary of the Forrest Kerr Project. This facility is operated by AltaGas and comprises a 300 person camp and 3 generating facilities that supply 297 MW of electricity to the province through the 287 kV Northwest transmission line. The northern access is achieved by travelling 12 kilometres north of Bob Quinn on Hwy 37 and then travelling 40 kilometres west along the Galore Creek Mining Corporation ("GCMC") road. GCMC maintains a 100 person camp (Ch'iyone) at km 37.5 on this road, which is currently scaled back to a 10 person camp performing care and maintenance duties on the Galore Creek project.

The Bob Quinn airstrip is suitable for fixed-wing aircraft of any size and is serviced by NT Air with 5 flights/week during the summers from Smithers. Alternatively the Property can be accessed by helicopter from Bronson airstrip (air access only) located on the south side of the Iskut River approximately 20 kilometres to the southwest.

The Forrest Kerr claim block covers several tributaries of the Iskut River, principally More, Downpour, and Forrest Kerr creeks. Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 490 metres on More Creek and 930 metres on Downpour Creek to over 2000 metres on unnamed peaks. Alluvium, till and outwash fill the bottom of the three valleys. Much of the property lies above treeline, covered by open alpine vegetation. Tag alder and alpine fir are common below treeline, which averages 1400 metres in elevation. Most of the claims along More Creek are covered by mature spruce and hemlock, with open patches of tag alder and devil's club. Both summer and winter temperatures are moderate although annual rainfall may exceed 200 centimetres and several metres of snow commonly fall at higher elevations. The property can be worked from early June at lower elevations, or mid-July at higher elevations, until late September or early October.

## **EXPLORATION HISTORY**

The consolidated Forrest Kerr Property has hosted extensive exploration activities by a variety of operators throughout the last thirty years. The following summary is presented under the subheadings of the three separate claim groups.

## RDN Claims

The following section on the exploration history of the RDN claims was taken from Jones (2006).

The original RDN 1-4 claims were staked in November 1987 to cover a small but intense gossan (the "Marcasite Gossan") on which no work had previously been reported. At the time, the Iskut River district was undergoing exploration for gold-bearing quartz-sulphide veins similar to those which were later developed into the Skyline and Snip mines. The following September, Neil DeBock carried out three days of prospecting on the RDN claims. Two rock samples from the Marcasite Gossan exceeded 50 g/t Ag, with the best assaying 207.6 g/t Ag (DeBock, 1989). All exploration work carried out on the area covered by the RDN property is summarized in Table 2.

Noranda Exploration Company staked their GOZ claims immediately north of the RDN property in October 1989, optioned the RDN 1-4 claims and did limited sampling on them. Gold and silver values were generally low in rock and talus fine samples, but rock samples from the Marcasite and South Gossans contained anomalous arsenic and antimony, with up to 1196 ppm Sb and 831 ppm As. A heavy mineral concentrate from Downpour Creek returned 2410 ppb Au and a silt sample taken from one of its tributaries contained 164 ppb Au (Savell, 1990a).

Table 2: Exploration history of the RDN claims

Years	Company	Claims	Geochemistry	Geophysics	Drilling, Trenching
1988	Neil DeBock	RDN 1-4	10 silts, 27 rocks		
1989-90	Noranda	RDN 1-8, 11-13	32 heavy minerals, 91 silts, 1384 soils, 464 rocks	Airborne: magnetics/EM Ground: 20 line-km magnetics, 14.9 line-km VLF-EM, 14.9 line-km HLEM	15 DDH: 1546m (5072')
1991	Noranda	RDN 1-8, 11-13	15 silts, 275 soils, 200 rocks	Ground: magnetics, IP, HLEM	15 DDH: 2087m (6847')
1990-91	Skeena	RDN 14-17, Luc, Narby, Bogden, LL1-2, KC1-2	221 silts, 799 soils, 384 rocks	Ground: 1.8 line km IP, 2.66 line kms mag, 1.6 line km VLF	Blast and hand trenching, 106 m
1990	Adrian	RDN 9-10	14 silts, 3 soils, 37 rocks		
1990	Noranda/Skeena	RDN 9-10	2 heavy minerals, 20 silts, 404 soils, 35 rocks	Ground: 13.1 line-km magnetics, 4.5 line-km EM	
1991	Noranda/Skeena	RDN 9-10	12 silts, 59 soils, 27 rocks	Ground: IP	
1991-92	Adrian/Noranda/Skeena	RDN 9-10	279 soils, 22 basal tills, 109 rocks	Ground: 11 line-km VLF-EM	Blast-trenching
1994	Pathfinder	RDN 1-6	6 silts, 3 soils, 67 rocks, 24 whole rocks		
1995	Pathfinder	RDN 1-8	574 soils, 8 rocks		
1996	Pathfinder	RDN 1-10	2 silts, 448 soils, 110 rocks, 44 whole rocks	Ground: 28 line-km magnetics, 28 line-km VLF-EM	
1997	Rimfire	RDN 1-10	648 soils, 156 rocks, 4 whole rocks		

1998	Rimfire	RDN 1-10, 1318	1727 soils, 179 rocks, 33 whole rocks		Backhoe trenching: 129 m
1999	Rimfire	RDN 1-13	16 silts, 425 soils, 159 rocks, 35 whole rocks	Ground: 7.4 line-km magnetics, 7.4 line-km VLF-EM	9 DDH: 574.2 m (1,884')
2000	Newmont/Rimfire	RDN 1-4, 6, 1013	12 silts, 165 soils, 32 rocks, 4 whole rocks	Ground: 26.8 line-km UTEM	
2001	Newmont/Rimfire	RDN 2, 4, 11, 13		Ground: 0.525 line-km Max- Min II	13 DDH: 2,255.8 m (7,401')
2002	Homestake/Rimfire	RDN 1,3, 5-12, 14, 16	37 silts, 207 soils, 93 rock, 10 whole rock		9 DDH: 1,125.9 m (3,694')
2003	Homestake/Rimfire	RDN 3,4,13,14, 16, MOR 2	3 silts, 108 soils, 164 rock, 17 whole rock		
2004	Rimfire/Northgate	RDN 3,4,13,14, 16, MOR 2	23 silt, 499 soils, 78 rocks, 32 whole rocks, 2 age dates		9 DDH, 2498.7m (8198'), 1534 core samples
2005	Rimfire/Northgate	501227,502738, 502758,502751, 502752,501895	3 silt, 579 soil, 244 rock including 31 channel, 48 whole rock, 1 fossil date		6 DDH, 1470.66 m (4825'), 917 core samples
2006	Rimfire/Northgate		16 silt, 178 rock including 98 chip & 35 whole rock, 331 soil	740 line km airborne EM-Mag	4 DDH, 1350.05 m (4429") 965 core samples
Total			34 heavy minerals, 501 silts, 8917 soils, 2751 rocks, 286 whole rocks	Ground: magnetics, VLF-EM, UTEM, Max-Min II, Airborne EM	80 DDH: 12,908.4 m (42,350'), 129 m trenching

In 1990, Noranda and High Frontier Resources Ltd. carried out a joint exploration program over the RDN and GOZ claims (Savell, 1990b). They laid out sixty kilometres of grid over the gossanous felsic volcanics, with a baseline oriented at 010° and crosslines every 100 metres, and carried out ground geophysics to detail airborne anomalies (Savell, 1991). Prospecting resulted in the discovery of several gold-bearing quartz-sulphide veins within dacitic tuffs on the GOZ claims, accompanied by a large Au+Ag+As+Pb+Zn±Cu soil geochemical anomaly. Fifteen BGM core holes were drilled on the GOZ claims, with the best intersection grading 11.7 g/t Au across 4.4 metres of a brecciated quartz-sulphide vein (Savell, 1990b).

In 1991, Noranda and High Frontier continued exploration on the RDN and GOZ properties (Savell and Grill, 1991). A new grid was established in the Gossan Creek/Carcass Creek area, almost entirely within the felsic tuffs and their subvolcanic porphyries. Its baseline was oriented at 155°, with five crosslines at 065° spaced 200 metres apart. All lines were surveyed with HLEM and two were surveyed with induced polarization (IP) techniques. At the southern end of the GOZ/RDN claims, they laid out east-west lines at 200 metre intervals from a north-south baseline on the Boundary Zone and collected soil samples at 25-metre intervals (Savell, 1992). Fifteen more BTW holes were drilled in 1991. Of the 30 holes drilled by Noranda in 1990 and 1991, all but four were targeted at quartz-sulphide veins or silicified zones in the intermediate to felsic volcanics and their subvolcanic porphyries. Results from the other holes, designed to test the property's potential for Eskay Creek-style mineralization, were all inconclusive. Two of these

holes, RG91-26 and 27, were drilled within sediments and diorite on the RDN 2 claim, but failed to reach the felsic/sediment contact. The other two, RG90-12 and 13, were targeted at anomalous Au-As soil geochemistry (the “Jungle Anomaly”), but were abandoned in overburden.

Following the 1991 program, Noranda terminated their option on the RDN claims and allowed their GOZ claims to lapse. As the GOZ claims came open, they were gradually re-staked as the RDN 58 and 11-13 claims in May 1994, March 1995, October 1997 and October 1998. All of Noranda’s drilling and grid work lie on the current RDN property.

In September 1989, Skeena Resources Ltd. staked a large claim package (the Arctic claims) on the north fork of More Creek to cover an area thought to be underlain by Hazelton Group stratigraphy similar to that hosting the Eskay Creek deposit. In 1990, Skeena carried out reconnaissance silt sampling and mapping/prospecting traverses, identifying felsite and orbicular rhyolite with local flow banding over several kilometres along both sides of More Creek (Boby, 1990). Skeena also investigated several scattered showings with detailed mapping, trenching, grid soils, and local induced polarization geophysical surveys in 1991 (Tucker, 1991). The Downstream Showing, consisting of “narrow chalcedonic quartz veins...[which]...host massive pyrite stringers up to 5 cm in width” within pyritic felsite/rhyolite, returned grab samples with up to 75,000 ppb Hg, 580 ppm Sb and 4860 ppm As (Boby, 1991). The KC Showing consists of pyrite-magnetite-chalcopyrite stringers in epidotized volcanic rocks along the sheared contact with Paleozoic granite. As well, several grab samples of carbonate veins and lenses in sedimentary strata at the mouth of Black Bear Creek returned strongly elevated results for Au, Ag, Pb, Zn, Hg, and Cu. Skeena’s claims were allowed to lapse and the RDN 14-18 claims were staked in October 1997 to cover the Downstream Showing and the rhyolitic package along More Creek.

In March 1990, Adrian Resources Ltd. and Skeena each staked claims between Noranda’s GOZ and Skeena’s Arctic claim groups, and contested ownership. Exploration work was done by each group that summer. Adrian carried out reconnaissance mapping and limited sampling (Dunn, 1990). Noranda optioned Skeena’s More claims, cut a north-south baseline with east-west cross-lines every 200 metres and carried out soil sampling and ground geophysics over their grid (Savell and Wong, 1991). The following year, Noranda carried out two test lines of IP and did minor sampling, but no results are available.

In 1991, Adrian optioned the More claims from Skeena and Noranda and carried out grid-based geological mapping and added infill soil lines at 100 metre spacings to Noranda’s grid. The soil geochemistry showed a 200 x 700 metre northerly-trending, Pb+Zn±Au±As±Ag±Cu anomaly with peak values of 460 ppb Au, 620 ppm Pb, 1200 ppm Zn and 352 ppm Cu, in an area underlain by dacitic volcanics. Two mineralized zones were reported from within silicified and carbonate-altered dacitic volcanics. The Main Zone had grab samples grading up to 4.6 g/t Au and 10.6% Zn. The Gem Zone, located 1,000 metres to the south in a separate soil geochemical anomaly, returned values up to 2.2 g/t Au (Campbell et al, 1991). Blast trenching was apparently carried out by Adrian the following year, but was never recorded and no results are available. The More claims lapsed on March 21, 1995 and were re-staked the following day as the RDN 9 and 10 claims.

Pathfinder Resources Ltd. optioned the RDN property in 1994 and carried out reconnaissance exploration on the RDN 1-6 claims for Eskay Creek-style stratiform Au-Ag-Pb-Zn mineralization, focusing on six kilometres of felsic/sediment contact. Six thin sections from subvolcanic porphyry intrusives and variably altered dacitic/trachytic lapilli tuff revealed intense potassic alteration. No



massive sulphide mineralization was discovered, but altered dacite beneath the Marcasite Gossan felsic/sediment contact assayed up to 141 g/t Ag. Similar float four kilometres to the north assayed 11.6 g/t Au with anomalous Ag, Pb, Zn, Cu, As, Sb, Hg and Bi (Awmack, 1995a).

In 1995, Pathfinder performed a grid-based soil geochemical survey over the RDN 1-8 claims, designed to cover known or suspected portions of the felsic/sediment contact. Soil samples were taken at 25 metre intervals from short crosslines run 100 metres apart from a cut north-south baseline (the "Downpour Grid"). Results were spotty, with several isolated anomalous soil samples (Awmack, 1995b).

The following year, Pathfinder carried out 48 man-days of geological mapping, prospecting, soil sampling and geophysical surveying over the RDN 1-10 claims. Soil sampling on the Downpour Grid confirmed an Au+As geochemical anomaly (the "Jungle Anomaly") north of the mouth of Gossan Creek. A magnetic/VLF-EM survey was run over the southern half of the Downpour Grid, showing a VLF conductor along the felsic/mafic contact above the Marcasite Gossan. On the RDN 9-10 claims, two infill soil lines run west from the 1990 Noranda baseline corroborated the reported soil geochemical anomaly. Previously blasted exposures of the Main Zone breccia vein were chip sampled, assaying 3.1 g/t Au, 0.49% Pb and 1.13% Zn across a true width estimated at 8.3 metres (Awmack, 1996).

The RDN property was acquired by Rimfire Minerals Corporation in July 1997 and Rimfire contracted Equity Engineering Ltd. to carry out exploration programs from 1997 to 1999. From 1997 to 2005, Rimfire or their partners have conducted exploration in each field season, as summarized below.

### **1997 Exploration**

In August 1997, Rimfire carried out mapping, prospecting and soil sampling in the More Grid, Cole Creek, Jungle Anomaly and Marcasite Gossan areas (Awmack, 1997). Infill soil lines on 50-metre centres were run in the Jungle Anomaly area west of Downpour Creek and reconnaissance lines at 100 metre intervals to the east.

The 1997 More Grid sampling showed the More soil geochemical anomaly to lie almost entirely over the central fault slice of felsic volcanics, covering an area of 250 x 800 metres. To the north, the anomaly is truncated by the swamp marking the edge of the More Creek flood-plain. To the south, no anomalous values are found south of 1700N. Campbell et al (1991) inferred a fault trending 070° at approximately 1725N, based on discontinuities in VLF-EM conductors. No geological evidence was seen for such a fault, but it would help explain the southern termination of the soil anomaly. To the west, the soil anomaly continues down for at least 50 metres into the western fault slice of Betty Creek Formation andesite. This is thought to represent downslope dispersion from the strongest sections of the main anomaly.

The Jungle Au+As+Ag+Pb soil geochemical anomaly was defined over an area of 100 x 450 metres; a cobble of silicified, pyritic argillite from within it assayed 25.44 g/t Au. Noranda had targeted two diamond drill holes at the Jungle soil anomaly, with holes RG90-12 (-48°, 46.0m) and RG90-13 (-60°, 30.5m) abandoned in overburden after coring through boulders of "black siltstone and oxidized felsic volcanic". Both of these holes were drilled down a 35° hillside, undoubtedly worsening drilling conditions. A multi-element soil anomaly lies on the western end of line 7500N, between 7450 Creek and 7500 Creek, and covers the wide zone of faulting

associated with the Carcass Fault, including silicified slivers of felsic volcanics and sheared argillite subcrop.

Geological mapping and prospecting was carried out at a scale of 1:2,500 over portions of the More and Downpour Grids, with emphasis on the Marcasite Gossan, Cole Creek, the Jungle soil anomaly and the More Grid Au+Pb+Zn soil anomaly. A total of 156 rock geochemical samples were taken (31 from the More Grid and 125 from the Downpour Grid) during the course of geological mapping and prospecting. Three thin+polished sections were described by Dr. Jeff Harris (1997) to identify lithologies and styles of mineralization. One of which was determined to be a sample of a brecciated shale with a possible volcanic component and containing pyrite and sphalerite.

Mapping of the Marcasite Gossan showed it to be a seafloor magmatic/hydrothermal vent. The Steen Vein was discovered in Cole Creek; it assayed 279 g/t Ag across a true width of 2.0 metres, flanked by 20 metres of hanging wall stockwork grading 20 g/t Ag. On the More Grid, another quartz-sulphide vein breccia (the "Baseline Showing") was discovered 240 metres southwest of the Main Zone, assaying 6.21 g/t Au across 1.1 metres (Awmack, 1997).

### **1998 Exploration**

In August and September 1998, Rimfire carried out 160 man-days of line-cutting, geological mapping, prospecting, soil sampling and backhoe trenching on the RDN property (Awmack and Baknes, 1998). Gridwork and soil sampling were conducted in five areas: Arctic Grid, NE Downpour Grid, Jungle Anomaly, South Downpour and Marcasite Gossan.

Three trenches totalling 129 metres were excavated on the Jungle soil geochemical anomaly using a Kubota KX-41 backhoe, operated under contract by Peak Explorations Ltd. of Smithers, B.C. No outcrop was encountered by the trenching, but homogeneous colluvium, thought to be locally derived, was present in each trench.

Geological mapping and prospecting was carried out at a scale of 1:2,500 over the new grids and between the Marcasite Gossan and Cole Creek. Three thin+polished sections were described by Dr. Jeff Harris (1998) to identify lithologies and styles of mineralization. One of these specimens was determined to be a pyritic exhalative chert with altered volcanic inclusions. Four fossils were collected and dated by Dr. Paul Smith of the University of British Columbia, however dating was inconclusive.

The NE Downpour Grid was laid out over the northeastern strike projection of the Jungle Anomaly, on the east side of Downpour Creek where no previous mapping had been done. There are no significant geochemical anomalies on the NE Downpour Grid.

The South Downpour gridwork consisted of a southward extension of the existing Downpour Grid to cover the projected extension of favourable stratigraphy onto the newly-acquired RDN 13 claim. Soil geochemistry is problematic through this area because of numerous talus fans and moraines, which have the effect of masking soil anomalies derived from residual soils. Limited soil sampling by Savell (1992) had indicated the presence of elevated Au values near the property's southern boundary, associated with the Boundary Zone Au-Cu veins. This was confirmed by the 1998 sampling, with two Au-rich samples from the vicinity of veining and the 1991 drilling.

Elevated Au values extend discontinuously for 1200 metres in a north-south direction from the head of Nelson Creek, through the pass into the headwaters of Downpour Creek and down

Downpour Creek to Sand Lake. No sampling has been done along this trend north of Sand Lake, leaving the anomaly open in this direction. The Au values are not readily attributable to downslope dispersion nor can they be attributed to some sort of placer concentration. This anomaly marks the transition from the dacitic/trachytic volcanic package to the overlying mafic volcanic/sedimentary package on the west limb of the Downpour Anticline. This stratigraphic contact is equivalent to the host contact for Eskay Creek's 21 Zone ore-bodies. The Au soil anomalies could mark the presence of Au-bearing Eskay Creek-style stratiform sulphides.

A strong, multi-element Pb+Zn+Ag+Ba±Cu soil geochemical anomaly covers an area of about 400 x 700 metres. The anomaly remains open in the unsampled area to the north and may extend through an unsampled area into an anomaly 700 metres north. To the south, this anomaly extends discontinuously to the property's southern boundary, and is truncated by a north-south fault and Stuhini Group volcanoclastics to the east. Grab sample 459809 was taken just upslope from the heart of the anomaly; it contained 1.60% Pb and 3770 ppm Zn from patches of galena and sphalerite in weakly silicified dacite.

A restricted Pb±Au±Zn soil anomaly extends from 1100N 5250E to 1200N 5500E, with peak values of 558 ppm Pb, 85 ppb Au and 656 ppm Zn. Grab sample 130284, with 1.36% Pb, 190 ppb Au, 2930 ppm Zn and 2190 ppm Cu, was taken from sheared maroon agglomerate with patchy sulphides in the heart of this anomaly. This style of mineralization, which may be responsible for the remainder of the anomaly, appears to hold limited economic significance. A strong Cu-only soil anomaly covers an area of 600 x 200 metres along the western slope of Downpour Creek between lines 1900N and 2500N. It remains open to the west, where the highest Cu values are also present, suggesting a source upslope from the soil grid. Grab sample 459827, with 1660 ppm Cu and 25 ppb Au, was taken from malachite-stained phyllitic argillite upslope and north of this soil anomaly, from rocks thought to be Paleozoic. Alternatively, the Cu soil anomaly could reflect unrecognized mineralization or higher background Cu levels in Paleozoic mafic volcanics(?) which appear to underlie this slope west of the inferred Forrest Kerr Fault.

Soil sampling, consisting of further 50-metre infill lines to the north, were established to ensure that the Jungle anomaly was closed off. This infill sampling confirmed previous results, adding definition to the main Au+As±Ag±Pb soil anomaly. In addition, a line through the heart of the Jungle anomaly, with a shallower "B" horizon soil sample and a deeper "C" horizon soil sample at each site returned very similar or slightly higher values for the deep samples relative to the shallow ones.

The reconnaissance-scale Arctic Grid was laid out on the west side of the north fork of More Creek. Previous mapping had indicated the presence of Hazelton Group rhyolite in this area; this was confirmed during mapping concurrent with the soil sampling. Analysis of soil percentile levels show the Arctic Grid to be almost entirely devoid of elevated base and precious metal values. Those which are present occur primarily as isolated 1-3 sample anomalies which do not extend between lines. The most noteworthy of these single-station anomalies occurs at 5400E 5800N, which lies between the Arctic and Bear Magnet Faults, on the eastern flank of a ridge of aphanitic rhyolite. No mineralization has been found to explain this anomaly.

### **1999 Exploration**

In July 1999, Rimfire carried out an initial evaluation of the newly-staked RDN 11 and 12 claims from a fly camp in the Carcass Creek valley (Awmack, 1999). This was followed in August by a nine hole diamond drilling program based from a drill camp immediately north of the Marcasite

Gossan. Geological mapping, prospecting, soil sampling and VLF-EM surveying were concentrated on the newly staked RDN 11 and 12 claims, which cover the bulk of Noranda's 1990-91 drilling and a large, open-ended, multi-element soil geochemical anomaly reported by them. Geological mapping and prospecting were carried out at a scale of 1:2,500 over several areas on the property.

The Carcass Grid was laid out to cover the Noranda soil geochemical anomaly (the "Wedge Anomaly") east of Carcass Creek and extend it to the north and west. This anomaly covers an area of 800 x 2,600 metres, remaining open to the north and west. The Wedge Anomaly is entirely underlain by the package of dacitic/trachytic volcanics which extends north from the Gossan Creek subvolcanic porphyry. It fringes the highly altered and pyritic subvolcanic porphyry, which is itself generally overlain by only background geochemical values; the porphyry may have served as the hydrothermal source for mineralization in the area of the Wedge Anomaly. Quartz-sulphide veining (collectively, the Wedge Zone) is common throughout the area underlain by the Wedge Anomaly. The southern portion of the Wedge Anomaly is dominated by Pb, Zn and As, with only erratic Au and Ag values. This corresponds to the Wedge Zone quartz-sulphide veins sampled in this area, with low ratios of precious to base metals.

The strongest portion of the Wedge Anomaly, particularly for Au, Ag, Cu and Hg, extends for 1,100 metres north along the eastern slope of Carcass Creek from the toe of the Carcass Glacier. The Waterfall, Pear and Mick Zones and the Au-bearing veins intersected by Noranda's Wedge Zone drilling all lie immediately upslope from the southern 500 metres of this anomaly. However, the northern 500 metres is the strongest part of this anomaly and remains unexplained by the limited drilling done to date. The western portion of this anomaly, on the gentle slopes approaching Carcass Creek, is underlain by lateral moraines containing abundant boulders of quartz-sulphide vein float derived from Wedge Zone veins upslope and up-valley. The high soil values for this part of the anomaly have been transported and do not reflect underlying mineralization.

A clay-rich terminal moraine extends northeasterly from about 9900N 7725E on the Carcass Grid, effectively truncating the Wedge geochemical anomaly. However, beyond the northern edge of the end moraine, a few anomalous soil samples were taken; one sample on the northernmost line sampled contained 165 ppb Au, indicating the need for further geochemistry to the north. Gold-bearing quartz-sulphide float was also found in this area, which lies near the contact between the same dacitic package that hosts the Wedge Zone veins and the stratigraphically overlying upper Hazelton Group clastic sediments.

Two lines of contour soil samples and two lines of creek bank soil samples were run in the vicinity of a large rhyolite outcrop northeast of the Carcass Grid. Soil values were at background levels, with the exception of spotty high As, Cu and Hg values. The source of these high values is unclear; rock samples from this area were not anomalous.

A 7.4 line-km magnetic/VLF-EM survey was performed over the Carcass Grid in 1999, in order to define the location of the Forrest Kerr Fault and the areal extent of black argillite exposed in Carcass Creek. Most of the grid overlies thick lateral moraines, with outcrop control only on the eastern and extreme southern edges of the grid. This survey was conducted by Amerok Geosciences Ltd., the following discussion is largely based upon Power (1999).

"The VLF-EM survey detected a very weak, primarily contact-type anomaly...[that] follows the argillite/dacite contact where known from mapping and drill hole information...The character of the geophysical response strongly suggests that the contact between the two rock units is

stratigraphic and not structural.” The entire length of this contact anomaly is covered by moraines, but it does fit well with mapped outcrops at the extreme southern end of the grid. North of the grid, the argillite is in stratigraphic contact with dolomitic wacke; this anomaly shows the contact between argillite and an “electrically resistive rock”, which is likely dacite at the southern end of the grid, but may be dolomitic wacke or another lithology further north. An enigmatic VLF-EM response, extending from 9700N 75257700E to 9800N 7500-7725E “is tentatively ascribed to conductive overburden or possibly to a flat to very gently dipping, shallow conductive rock unit.” The overburden in this area between Carcass Creek and the Forrest Kerr Fault does not appear different from elsewhere, consisting of prominent ridges of lateral moraine; the conductor’s source remains unknown.

“The total magnetic field survey recorded relief in the order of 120 nT over the entire grid. A region of positive magnetic response in the eastern portion of the grid area is coincident with the dacite unit. There are several isolated positive anomalies west of the dacite including a high amplitude response on the extreme western portion of the grid at 9800N 7450E.” The Carcass Grid only crossed to the west side of the Forrest Kerr Fault on a few lines; the magnetic high at 9800N 7450E is underlain by weakly magnetic Devono-Mississippian basalt. This magnetic high helps to constrain the location of the Forrest Kerr Fault.

Nine holes totalling 574.2 metres (1,884’) of ATW and BTW core were drilled in August and September 1999. Microprobe analysis was done on one core specimen from hole RDN99-05 to verify the presence of rhodochrosite. One thin section from a 1998 rock sample was described petrographically by Dr. Jeff Harris (1999) and one core specimen was analyzed for mineralogy by SEM/EDS (Raudsepp and Pani, 1999). Thin section examination and whole rock geochemical interpretations classify this sample as a breccia flow or tuff of rhyolite to rhyodacite/dacite composition.

## **2000 Exploration**

The RDN property was optioned by Newmont Exploration of Canada Limited in early 2000 (Awmack, 2000). Newmont carried out a UTEM ground geophysical survey in June and July 2000, accompanied by limited mapping, prospecting and soil geochemical sampling. Limited geological mapping was done by the author during the layout and surveying of the UTEM grid. In addition, mapping, prospecting and contour soil sampling were carried out in the previously unexplored terrain between the Carcass and More Grids on the RDN 10 and 11 claims.

Contour soil sampling, carried out entirely in the relatively barren “hanging wall” clastic/basalt sequence of the Hazelton Group did not yield any significant soil anomalies. Silt samples results were uniformly low, reflecting the relative lack of mineralization in the Hazelton Group “hanging wall” clastic/basalt package and the Devono-Mississippian rocks which these streams drain.

The UTEM survey, totalling 26.8 line-km, was designed to test 6.7 kilometres of the “Eskay-equivalent” stratigraphic contact between the “footwall” felsic volcanics and the “hanging wall” mafic/clastic package. UTEM survey lines, spaced 200 metres apart, were chained, slope-corrected and cut where necessary, mainly from existing cut baselines. Due to heavy snow, the lines in the South Downpour area (L900N-L2500N) had to be run from a new baseline. Stations were marked by blue pickets and green flagging, to differentiate them from the existing soil stations with pink and blue flagging. In keeping with the orientation of the pre-existing soil grid, UTEM survey lines were run at 088.5°/268.5° on the Downpour Grid and 090°/270° on the Carcass Grid. The existing baseline “200E” was relabelled “5200E” from L2700N to L5100N, to

fit with nomenclature on the South Downpour Grid. The UTEM survey was contracted to S.J. Geophysics Ltd. of Delta, B.C. and results and interpretation were reported separately by Jim Wright of Newmont (Wright, 2000).

Wright (2000) described six UTEM conductors *comments by Awmack (2003) in italics*:

Zone A (Carcass Creek and Downpour Creek): This corresponds to the Forrest Kerr Fault on the twenty-three (23) lines which crossed the fault. The fault is interpreted to have graphite and/or sulphides on the fault plane. This graphitic material coupled with the relatively large size of the conductor produces the very low channel responses.

Zone B (Carcass Creek, lines 9000-10200N): This zone lies within the prospective lithologies and is of a scale similar to Eskay Creek. The responses on lines 9200 and 9400 indicate a good to excellent conductor. Sulphides are indicated. A depth to source of 30 metres is indicated with a westerly dip. The lessening of channel responses to the north and south would be consistent with an Eskay type anomaly, where variable conductivity is to be expected. From a geophysical standpoint, this is the most attractive anomaly on the property. *This conductor coincides well with the position of the dacite/clastic contact inferred from the 1999 VLF-EM survey. Where exposed upslope to the east, the dacite is altered and host to widespread gold-bearing quartz-sulphide veining, which could represent footwall alteration/mineralization to an Eskay Creek-style seafloor mineralizing system.*

In particular, the Waterfall Zone is a >20m wide zone of intense sericitization with abundant discontinuous quartz-sulphide veining which trends 280-300° and dips steeply to the north, hosted by the footwall dacite. Noranda reported up to 44.3 g/t Au in a 1-metre chip sample from one of these veins. The vein/alteration zone appears discordant to the felsic stratigraphy and may represent a feeder system similar to Eskay's 109 and Pumphouse zones. It projects to the felsic/clastic contact at L9400N/7675E, very near the axis of Zone B.

Zone C (Downpour Creek, lines 6300-6700N): This is a flat-lying conductor near the Jungle Zone. The conductivity is not very high, but the zone appears to be of significant volume. Width of the flat-lying body approaches 200 metres. This should be examined as a possible overburden response. *The central portion of this anomaly overlies thick ferricrete; the northern and southern parts are not well-exposed.*

Zone D (Marcasite Gossan area, lines 4100-4900N): This is a conductor of intermediate conductivity. Its axis passes between the Upper and Lower Marcasite Gossans and was cut by drill hole RDN99-05, which did not intersect a conductive lithology. However, black argillite was mapped a few tens of metres to the south along strike and clastic massive pyrite cobbles are thought to have been derived from syngenetic sulphides deposited above the Lower Marcasite Gossan. The clastic massive sulphides cobbles, however, contain low base and precious metal values.

Zone E (east of Marcasite Gossan, lines 3300-4300N): The surface trace of the zone falls within the overlying mafic volcanics. Depth to source on line 4100N is approximately 150 metres; however, the long wavelength nature of the response makes a definitive interpretation difficult. The northern part of the zone (i.e. lines 4100N and 4300N) may be indicating a conductor at the favourable horizon. *This would be down-dip from the Marcasite Gossan, where we have documented sea-floor venting of hydrothermal fluids, certainly an interesting spot to search for more sea-floor sulphide accumulation, possibly with better grades.*

Zone F (Nelson Creek, line 900N): One line response near the Boundary Zone, perhaps an extension of the Boundary Zone. There is no outcrop in the immediate vicinity of this conductor, but hole RG91-30 was drilled within dacite, a few tens of metres to the south. Veining in the Boundary Zone area is felsic-hosted massive pyrite-chalcopyrite; the response may be due to one of these veins.

South of Zone C, Wright (2000) marked an unnamed conductor at L6100N/1025E. This lies very close to the sphalerite-bearing altered dacite outcrops described in Section that have been described as possible footwall alteration; the conductor should be re-examined in that light. East of Sand Lake, at the head of Downpour Creek, Wright indicates a two-line conductor (lines 2500-2700N), along the contact between dacite and the "hanging wall" basalt. Immediately downslope is the unexplained South Downpour Au soil geochemical anomaly which parallels this contact for 1,300 metres and could be related to Eskay Creek style mineralization along it.

## **2001 Exploration**

Newmont carried out a two phase exploration program of ground electromagnetic surveying and diamond drilling in June and July, and September 2001 (Stammers and Montgomery, 2001). Limited frequency domain (Max-Min II+) electromagnetic surveying, totalling approximately 525 line-metres on two lines in the Wedge and Marcasite Gossan Zones, was conducted by SJ Geophysics Ltd. to confirm 2000 UTEM anomalies. The Max-Min survey confirmed the presence and location of UTEM anomalies on these two lines, and that other UTEM anomalies could be reliably drilled with no additional groundwork. The Max-Min survey did not add significantly to interpretations of the UTEM data and was not as effective as UTEM surveying in this terrain.

A total of 2,255.82 metres (7401 feet) of NQII diamond drill holes were cored in 13 holes, including ten holes in the Wedge Zone, and one hole each at the Boundary, Sand Lake and Downpour Creek Zones. The holes were drilled by the Major Drilling Group of Smithers, BC. utilizing a JT2000 portable fly rig. The drill holes, which ranged in length from 90 to 300 metres, targeted UTEM electromagnetic conductor axes. Each hole was logged for lithology, alteration, mineralization, structure, core recovery, and rock quality density (RQD). Diamond drill core is stored at two locations; core (Holes RDN01-10 to -13 and RDN01-17 to -22) from the Wedge Zone is stored in durable 4 x 4 post racks at More Creek camp while holes RDN01-14 to -16 are safely cross-stacked near the 1999 core at the Marcasite camp site on Downpour Creek.

Seven samples from drill core were selected for petrographic examination by PetraScience Consultants Inc. (Gale and Thompson, 2001a and 2001b). Two samples from drill hole RDN01-11 and RDN01-13 were determined to be pervasively silicified and sericite-siderite altered feldspar-porphyritic volcanic rocks containing sphalerite, pyrite, chalcopyrite, galena, tennantite, and tetrahedrite. SEM analysis of the sample from RDN01-13 identified native Bi and an unidentified species of Pb-Bi-Ag. A second sample from RDN01-11 was determined to be a breccia with potassium feldspar-rich lithic and crystal fragments that contains orpiment, sphalerite, chalcopyrite, tetrahedrite-tennantite, galena and pyrite. The remaining four samples were from hole RDN01-17, the most significant of which consists of a sericite-quartz-carbonate zone in contact with massive sulphides comprising sphalerite, chalcopyrite, pyrite, galena and tetrahedrite-tennantite. Contact relations suggest that the massive sulphides are not of vein origin and may be of replacement origin. The other specimens are of; flow breccias with feldspar-biotite porphyritic lithic clasts, sphalerite, pyrite and tetrahedrite-tennantite, and sericite-carbonate-

calcite altered porphyritic rock with potassium feldspar, quartz and plagioclase phenocrysts, sphalerite, pyrite, chalcopyrite, galena and tetrahedrite-tennantite.

## **2002 Exploration**

Subsequent to Newmont electing to terminate their option in 2001, the property was then optioned to Homestake Canada Inc. Homestake staked additional claims and conducted detailed geological mapping, sampling, prospecting, soil and stream sediment sampling, and diamond drilling in 2002 (Gale et al, 2003). Nine angled NQII drill holes, including one auto-wedge hole, totalling 1,092.11 metres (3,582 feet) were cored by Hytech Drilling Ltd. of Smithers, B.C. utilizing a Tech4000 portable fly rig. Eight of these holes, which ranged in length from 20 to 320 metres, were cored in the Jungle Zone area and the ninth hole was collared 700 metres to the northwest of the Jungle Zone and targeted the stratigraphy around the Carcass Creek Fault. Each hole was logged for lithology, alteration, mineralization, and structure. A temporary logging and core sampling facility was set up at Equity's Marcasite Drill Camp on Downpour Creek and 2002 core is safely cross stacked at this camp.

Geological mapping on the RDN and MOR properties was ongoing throughout the drilling program, and the main focus was examining areas that had received limited attention in the past and that are underlain by volcanic rocks similar to the Eskay Creek stratigraphic package. These areas included, from north to south; the Arctic Grid, the DK area (situated approximately 2 km northeast of the Wedge Zone), the Carcass Fault, and the valley west of the South Gossan.

Significant soil anomalies were identified in two zones; the DK and MOR 2 Zones. The DK Zone anomaly consists of an As-Hg-Sb anomaly (highest As, 5<sup>th</sup> highest Hg, and the 2<sup>nd</sup> highest Sb value in the 2002 program). The anomalous sample is underlain by mudstone/siltstone about 100m west of rhyolite. The MOR 2 claim area northeast of the DK Zone is also significant because of four samples with multi-element anomalies underlain by tuffaceous dacite, mudstone/siltstone and tuffaceous andesite. In addition to numerous single element anomalies, this area is marked by anomalous Ag, Sb, Zn, As, and Hg.

## **2003 Exploration**

Exploration by Barrick in 2003 (Mann and Gale, 2004) consisted primarily of field checking rock, silt and soil geochemical anomalies stemming from work in 2002. The work was focused on the Arctic and Boundary (South Downpour) areas based on the presence of felsic volcanic rocks and/or Eskay-type geochemistry. Geological mapping identified pyritic rhyolite units in both areas. In the Arctic area, a contact between rhyolite and mudstone was traced 1.9 kilometres across the Arctic West grid. Silt sampling and soil sampling for mobile metal ion (MMI) analysis did not detect any anomalous results. However, high organic content in the samples essentially discounted the MMI results. In the Boundary area, work focused on a small rhyolite outcrop area, later to be called the RTB Zone, and altered rocks within Hazelton stratigraphy near the east edge of the claim block. Sampling did not detect significant gold mineralization but returned values up to 300 g/t Ag. The results were interpreted to indicate no Eskay-style deposit in the Boundary area.

High grade gold results from outcrop and float boulders on the west side of the Forrest Kerr Fault were also investigated. A discontinuous, sulphide vein in Paleozoic rocks returned 5.24 g/t Au (sample 02313). The source of auriferous float, which assayed 6.18 g/t Au (2002 sample 02329), was not located.



## 2004 Exploration

In 2004, Northgate Minerals Corporation agreed to terms with Rimfire to option the RDN property and completed a large, comprehensive exploration program aimed at drill testing the Wedge Zone, Marcasite Gossan, and Jungle Anomaly. As well, geological mapping, prospecting and soil sampling was done in several under-explored areas of the property including the Blind Fault area, Marcasite Gossan hanging wall area, the north Downpour Creek area, and the Arctic area. The 2004 diamond drilling program, totalling 2498.74 metres of core in nine holes (2420.41 m NQ, 78.33 m HQ), was directed at the potential for Eskay Creek-style VMS mineralization along the contact between the lower Jurassic dacite and the “hanging wall” basalt/clastic sediment package, particularly in the Wedge Zone. Three holes were directed at similar targets in the Marcasite Gossan (RDN04-038, 039) and Jungle Anomaly (RDN04-037) areas. Each hole was logged for lithology, alteration, mineralization, and structure. The core was logged and stored at the camp at the mouth of Carcass Creek.

Sampling indicated an anomaly north of the Blind Fault that is defined by highly to very highly anomalous Pb, Zn, Ag, and Sb soil and rock geochemistry. These results are associated spatially with a clastic to pyroclastic, porphyritic dacitic volcanic package and cover an area of 850 metres north-south and 450 metres east-west. The anomaly is cut off to the south by an area of relatively poor soil sampling medium in the area of the RTB Zone, and so the anomaly may be considered open in this direction. To the north, the anomaly is limited primarily by the extent of sampling. Highly to very highly anomalous results for arsenic are more restricted, more closely associated with faults identified in the RTB-Red Creek area and the Bench Fault which bounds the Jurassic stratigraphy on the east. Highly anomalous mercury shows a still narrower trend, possibly indicating structural control, extending north along the RTB-Red Creek trend for about 500 metres, from about 100 metres south of the RTB. As well, spotty anomalous mercury in soils and, to a lesser extent, gold follow the general trace of the Blind Fault for about 1000 metres southwest towards the Boundary Zone. Moderately to highly anomalous copper geochemistry occurs peripheral to the main showings, and lies above the RTB Zone, adjacent to the Bench Fault.

Limited soil sampling detected several arsenic-mercury-antimony anomalies along the north-south baseline east of More Creek in the Arctic Area. The section of the baseline from Cougar Creek to south of Slime Creek is moderately to very highly anomalous for arsenic, mercury and copper, with weakly anomalous results for antimony and gold over 1200 metres. Another section of the baseline has moderately to highly anomalous results for arsenic and weakly to moderately anomalous results for antimony and mercury from Grizzly Creek to 450 metres south. A third anomaly is present about 500 metres up Black Bear Creek, north of More Creek. Soil samples scattered over an area of 600 by 600 metres have moderately to highly anomalous results for copper and gold. One very highly anomalous result of 124 ppb Au in soil occurs in this area, associated with very highly anomalous arsenic and antimony. This area surrounds two rock samples that contained over 800 ppb Au and 1000 ppb Au in carbonate altered and quartz veined volcanic rocks.

Soil sampling in the steep terrain of the North Downpour area consisted of a few contour sample lines at points where the slope was traversable. These lines tended to be fairly high up the east-facing slopes and as such do not test the eastern, or lower, section of the stratigraphy in this area. Soil sample results do not define any anomalies of significant size. Two contour lines, covering an area 450 by 250 metres on the upper slope, have moderately to very highly anomalous arsenic with spotty highly anomalous copper and weakly anomalous antimony. This anomaly occurs in

the same area as anomalous nickel in silt results. The anomaly is probably related to a gabbro to diorite intrusion within the sedimentary-volcanic package.

## **2005 Exploration**

In 2005, Northgate funded another large exploration program on the RDN property for Rimfire. The program included detailed grid soil sampling and mapping in the Arctic East grid area, detailed mapping and surface rock sampling in the Blind Fault area, and follow up diamond drilling. The 2005 diamond drilling program, totalling 1470.66 metres of core in six holes, was directed at the potential for Eskay Creek-style VMS mineralization in two areas; 4 holes on the RTB Zone in the Blind Fault area, and two holes on the rhyolite-mudstone contact in the Arctic Grid area.

Grid soil sampling off BL 5000E was done on the east Arctic Grid areas in 2005. Soil results from the area along Baseline 5000E, from 7500N to 8300N and approximately 4900E to 5300E, commonly have highly to very highly anomalous values for arsenic and mercury, with spotty moderately to highly anomalous results for silver and gold. This anomaly contains up to 7730 ppb Hg and 560 ppm As. Gold values range up to 60 ppb but significant samples are scant. Another similar As-Hg soil anomaly trends north-northeast and lies west of and along baseline 5000E from 9000N to 10000N. This anomaly apparently corresponds with interbedded volcanic units in a coarse clastic sedimentary section and is 150 to 250 metres wide. This anomaly contains samples with up to 481 ppm As.

The area north of More Creek and west of Grizzly Creek did not produce any significant soil geochemical anomalies. However, a large portion of this area is inundated with glacial drift and the boulder population does not reflect the local geology.

## **2006 Exploration**

A multi-faceted exploration program was completed in 2006 (Jones, November 2006) in the northern portion of the RDN claims over the Arctic area. Activities included an airborne geophysical survey, diamond drilling, geological mapping, prospecting and soil geochemical sampling. A 740 line kilometre geophysical survey was completed using Fugro's RESOLVE electromagnetic-magnetometer system, which produced magnetic, resistivity, and conductor maps. A complete report on this geophysical survey can be read in the 2006 Assessment report by Jones (November, 2006).

Four diamond drill holes totaling 1350.05 metres of NQ core were collared in the Arctic west area in search of potential for Eskay Creek style VMS mineralization. Three holes tested the upper contact of the rhyolite and fine to coarse grained clastic sediment while the fourth encountered difficult ground conditions and was stopped in the sedimentary unit. No significant mineralized horizons were intersected aside from disseminated pyrite and localized elevated Pb, Zn and Ag values.

Geochemical sampling produced 178 rock, 16 silt and 331 soil samples. Thirty five whole rock samples were taken from a combination of rock and core samples. The sixteen silt samples tested moderately anomalous for Au, Ag, Hg, Cu and Zn and alternately highly anomalous for Sb, Mo and As. The fill-in soil sampling was successful in identifying a fairly continuous narrow linear anomaly that tested moderately to highly anomalous in As, Sb and Hg and moderately anomalous in Au and Ag.

## Forgold Claims

This section on historical exploration on the Forgold claims was taken from von Einsiedel (2004). Exploration on the current Forgold Property group dates back to the 1980's. The current Forgold Property covers several historic exploration properties. To simplify the summary of previous exploration work the current Forgold Property is subdivided into three areas: the Forgold northeast area, the Forgold central area and the Forgold south area. There is one reported Minfile mineral occurrence (Minfile No.104B-376: Forgold) on the current Forgold Property. The exploration history that has occurred within Forgold north, central and southwest is discussed below and is summarized in Table 3.

Table 3: Exploration History of the Forgold Claims

Operator	Geochem	Geophysics	Trenching	Drilling	Reference
Ecstall Mining Corp Omega Gold Corp	17 rock, 27 silt				Nicholson (1989) ARIS: 19634
High Frontier Resources	171 rock, 194 silt, 30 moss mat, 4 soil				Walker & Gal (1990) ARIS: 20598
Ecstall Mining, Omega Gold and Manridge	90 rock, 30 silt, 15 moss mat, 1 soil				Termuende (1990) ARIS: 20540
Carmac Resources	24 rock, 24 silt				Atkinson and Leriche (1990) ARIS: 20533
Canadian Cariboo Resources	54 rock, 19 silt, 876 soil				Pegg (1990) ARIS: 20932
Santa Marina Gold Ltd.	116 rock				Malensek et al. (1990) ARIS: 20722
Gold Fields Canadian Mining	244 rock, 1475 soil				Ronning (1991) ARIS: 21868
Homestake Canada	24 rock, 3 silt, 101 soil				Marsden and Bozek (1991) ARIS: 21016
Kennecott Canda Inc.		425 km VLF-EM, Mag, Resistivity			Fields (1992) Aris: 22102
Gold Fields Canadian Mining	670 rock			5 holes	Bond (1992) ARIS:22623
Northgate Exploration	15 rock, 5 silt				Edmunds (2003) ARIS: 27172
Rimfire Minerals Northgate Minerals	51 rock, 7 silt, 308 soil				Jones (2006) ARIS: 28106
Azincourt Resources Corp.	281 soil				Nicholson (2011)
Azincourt Resources Corp.	1743 soil, 127 rock				von Einsiedel (2013)
<b>TOTALS:</b>	1603 rock, 309 silt, 4789 soil, 45 moss mat				

## **Forgold—Northeast**

In 1988 the Forgold northeast area was staked as the For Property for Ecstall Mining Corporation and Omega Gold Corporation to cover favourable Triassic volcanic rocks and Jurassic volcanic and sediment rocks mapped in the area by the Geological Survey of Canada. The 1989 exploration program included geologic mapping, reconnaissance stream sediment survey (27 silts) and reconnaissance rock sampling (171 rocks). A number of silt and rock sample assay results were encouraging and combined with the reconnaissance mapping resulted in Nicholson (1989) to recommend further prospecting and sampling in the areas of encouraging assay results. In 1990 the area was revisited and a detailed mapping and sampling project (171 rock; 194 silt; 30 moss mat; 4 soil) corroborated previous (1989) anomalies and delineated new target zones. Several samples reportedly returned copper assays with 1-2% copper and one assay up to 15% copper. Copper mineralization was found to be hosted in narrow fractures. Walker & Gal (1990) recommended that anomalous values of copper, lead and zinc should be followed up to ascertain whether the mineralization is restricted to thin fractures, or if larger mineralized bodies are present. In 1991 an airborne magnetic, electromagnetic and VLF-EM survey flown by Kennecott covered the For Property. A total of 425 linear kilometres was flown with 100m line spacing. The survey identified one conductor on the property. The geophysical survey was never followed up and none of the anomalous base or precious metal samples were followed up by detailed soil geochemical surveys that can be used to identify larger buried mineralized bodies.

## **Forgold—Central Area**

In 1989 the Forgold central area was staked for Ecstall, Omega Gold Corporation and Manridge Exploration Limited. Preliminary stream sediment sampling (30 silt and 15 moss mat samples) of the west-facing slope of the Nelson Creek valley returned very encouraging concentrations of gold, silver and copper, as well as anomalous lead, zinc and mercury values. Both base and precious metal mineralization were located apparently related to an extremely leached, sericitic alteration zone trending north-northwest to south-southeast along the west facing valley wall and the focus of work was shifted to this area.

In 1990, Santa Marina Mining optioned the claims from Ecstall, Omega Gold Corporation and Manridge Exploration Limited. Santa Marina Mining collected 116 rock samples that reportedly returned anomalous base and precious metal assays.

In 1991, GoldFields optioned the claims from Ecstall. GoldFields collected 244 rock samples and 1475 soil samples for assay. The soil geochemical survey was successful and identified three anomalous zones (Zone A, B and C in Figure 4) within the leached, sericite altered zone along the west side of the valley. The rock samples confirmed the presence of widespread copper, lead, zinc, silver and gold mineralization.

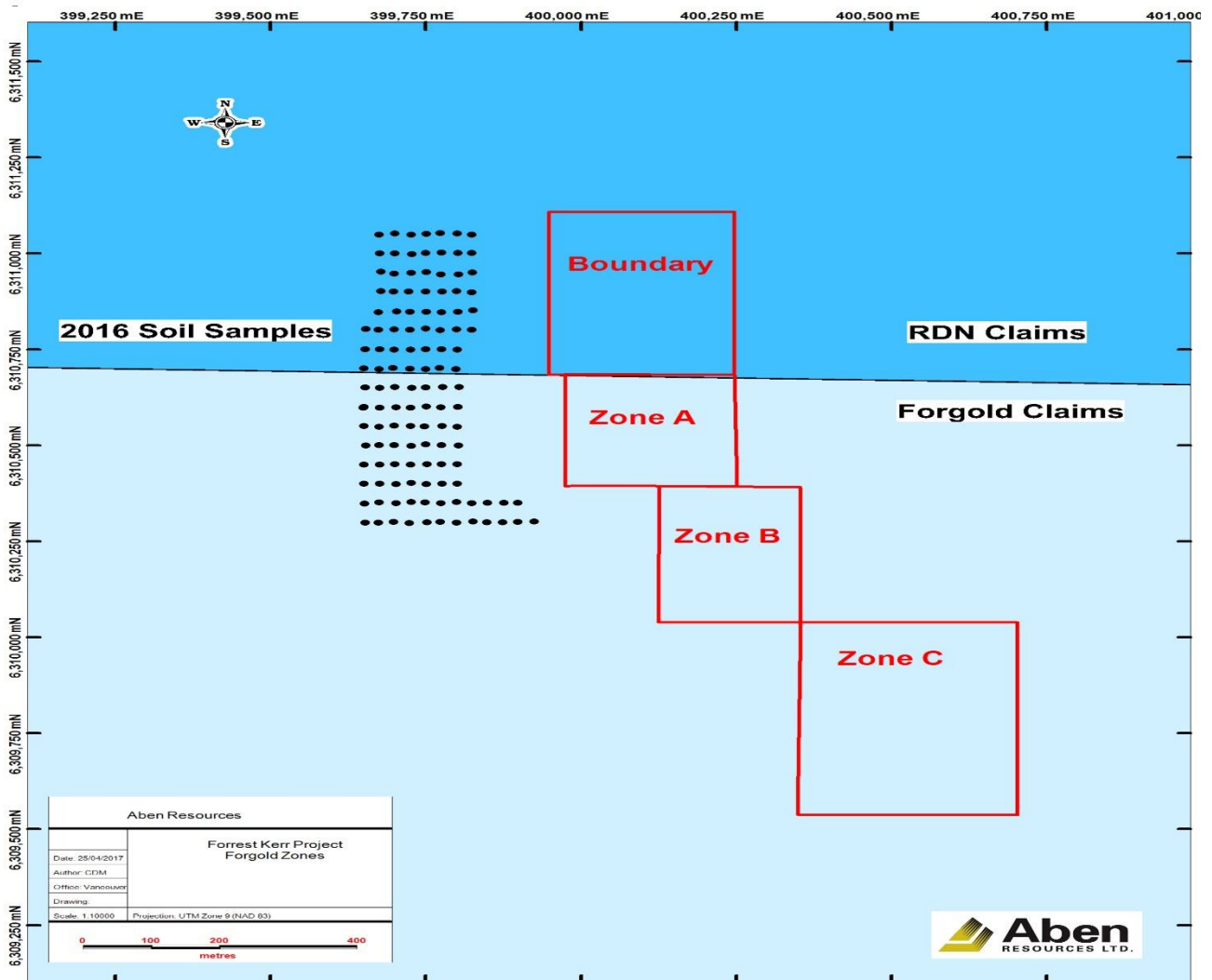


Figure 4: Forgold zone locations

Later in 1991, Goldfields carried out a limited drill program completing a total of 935m from 5 holes in the northern part of the 2,000 metre long soil geochemical anomaly that was defined by the soil sample data. The first four drill holes (FG - 1, 2, 3, and 4) were designed to test the southern strike extent of the Noranda/High Frontier drill intersection which reportedly intersected an 11.6 metre interval that averaged 23.9 g/t Au (The Northern Miner, Sept. 1991). Two significant zones of gold mineralization were intersected in holes FG-2 and FG-3 (0.113 oz/ton or 3.90 g/t) Au over 1.58m and 0.56 oz/ton (19.20 g/t) Au over 0.82m respectively). Hole FG-5 did not encounter any significant gold mineralization but did intersect two narrow zones of copper mineralization (2.97% Cu over 0.31 m and 1.14% Cu over 1.16 m respectively). It is important to note that subsequent re-staking of the claims resulted in the boundary between the properties being shifted several hundred metres to the south and as a result drill holes FG 1-4 are actually located on the RDN claims immediately north of the current Forgold Property claim boundary.

No rigorous statistical analysis of the soil sample results was ever done. The results were interpreted by plotting them on plan maps and inspecting them for significant patterns. For each element certain values were selected and plotted on the plan as contours to help distinguish patterns. Based on the drilling Bond (1992) concluded that the gold mineralization is narrow and discontinuous, however, the amount of drilling to date has not tested the highly anomalous geochemical signature that extends well over 2 km in a north-south trend and is over 500m wide. A geophysical survey was referred to by Ronning (1991) and Bond (1992), however, no accompanying results or interpretation has been made available in the public domain.

## **Forgold-- Southwest**

The Forgold southwest area has been staked by several mining companies since 1989 including Rimfire Minerals and Northgate Exploration, Homestake Canada, Canadian Cariboo Resources and Carmac Resources. Reconnaissance type geochemical surveys and prospecting have been carried out and several anomalous sample results have been reported. A systematic evaluation of the historic data is required to define targets for follow-up exploration.

## **2012-2103 Exploration**

The Forgold central area was the target for the 2012 and 2013 exploration programs, 1743 soils and 127 rocks were collected during this two year program. Tightly spaced soil grids were concentrated over the previously mentioned Zones A-C (figure 4). A small soil grid was also completed on the RDN Boundary Zone. The soils were collected from north-south lines at 10 metre intervals. The lines were spaced 25 metres apart except the northern portion of the RDN Boundary Zone where the lines were spaced 50 metres apart. The soils were collected from well developed "C" horizon at a depth of 20 to 50cm.

The RDN Boundary Zone grid was established to understand the mineralization and soil geochemistry of Goldfields drilling program. The grid contains 300 soil samples and 19 rock samples. The area contained around 15% rock outcrops in creek draws and small cliff sets surrounded by steep slopes of wildflowers and weeds. The geology was predominantly volcanics with small zones of intense quartz-carbonate veining and a few small mafic dykes.

The northern extent of the grid is located 430 metres north of the Forgold claim block and contains 6 soil lines, 350 metres long and spaced 50 metres apart. Samples were collect at ten metre intervals and covered the area of four of the historic drill holes FG-1 to FG-4 including two old BQ sized drill holes that were never recorded for work. Anomalous rock samples from this area include a 30 cm chip sample of siliceous veinlets in a volcanic host rock with massive chalcopyrite that returned values of 53.9 ppm Au, 188 ppm Ag and 25.0% Cu (sample 1132956) and a 30cm wide shear zone with weathered pods to 15cm of coarse grained chalcopyrite returning values of 153 ppm Ag, 1.9% Pb and 22.6% Cu (sample 1132955). The soil grid returned values as high as 4520 ppm Cu with 4.6 ppm Ag (sample 050950) and numerous anomalous copper values from 1500-2460 ppm Cu near the old drill holes.

Another small, tighter soil grid covered the remaining 80 metres to the Forgold claims. The grid ties into the Zone A grid and contains twelve north trending soil lines, 70 metres long spaced 25 metres apart. Soil samples were collected at 10 metre intervals and covered a steep creek draw and associated small cliffs that contained numerous quartz-calcite veins with localized zones containing abundant chalcopyrite. This zone also covers the southern extent of two north trending mafic dykes, one contains 61.8 ppm Au, 13.3 ppm Ag and 2.47% Cu (sample 1050864), and

another 56 metres west containing 0.34 ppm Au, 153 ppm Ag and 21.1% Cu over 50cm. The soils on this grid correlated moderately well with the rock samples collected and introduced the mafic dykes as a new target for exploration.

Zone A ties the “Boundary Zone” on the RDN claims into the Central Area of the Forgold property. This zone has a marked decrease of outcrops with about 5% of the zone as rock. The soil grid consists of 12 lines at 25 metre spacing with samples at 10m intervals for a total of 348 samples. The copper values showed a weak correlation with the rock samples that were collected, with only a small anomalous zone containing one or two samples directly downslope from known mineralization. The best example of this is a zone containing a 50cm wide massive chalcopyrite vein trending NNE. The vein was traced out to 6.5m in length before it disappears under thick overburden on both sides. A 50cm chip sample across the vein returned 0.36 ppm Au, 211 ppm Ag and 30.8% Cu (sample 1050870). A soil sample directly below the showing returned a copper value of 2,590 ppm (sample 150590) with one single soil sample 28 metres downslope from this zone returning 1,235 ppm Cu (sample 125580) surrounded by low soil values. An area deemed the Willy showing was located on a steeply incised creek valley that drained west into Nelson creek. This area encompasses a 30x15 metre zone of moderate to intense quartz-carbonate veining and quartz flooding in grey volcanics containing large amounts of chalcopyrite and minor galena. Rock samples from this area ranged from 0.136% to 1.095% Cu with one sample returning 6.45 ppm Au, 25.4 ppm Ag and 4.7% Cu (sample 1050769). A minor soil anomaly consisting of six soil samples surround the showing with values up to 861 ppm Cu (sample 225520).

The downslope dispersion distance for mineralization in soils for copper, and the lateral extent appears quite limited. This indicates the importance of each anomalous copper value in individual soil samples and that a tight soil grid is essential to delineate the mineralized zones.

Zone B grid consists of 360 soil samples collected from 10 soil lines spaced 25 metres apart with samples collected at ten metre intervals that cover an area with historic high gold values. Rock outcrop is limited to three steeply incised creek draws and a total of 16 rocks were collected from the grid area. The soil samples outlined two large anomalous zones trending downslope, and follow the outskirts of the creek draws. Some of the more interesting rock samples located within this grid includes a sample of quartz/sericite schist with 9.52 ppm Au and 4.1 ppm Ag (sample 1132963), a 25cm wide siliceous horizon with sphalerite and chalcopyrite containing 3.34 ppm Au, 10.4 ppm Ag and 19.85% Zn (sample 1132567) and a sample of siliceous volcanic with minor calcite veins and sphalerite containing 10.9 ppm Ag and 21.5% Zn (sample 1132566).

Zone C was established in 2013 to cover the gold and copper in soil anomalies from historic work. The grid consists of 735 soil samples from 15 north-south lines. The lines were spaced 25 metres apart with 10 metre samples intervals. This grid zone had very little rock outcrop but the soil assays outlined a large copper in soil anomaly on the eastern portion of the grid with numerous samples over 1000 ppm Cu. A very interesting zone of siliceous volcanics with quartz veins was located on the west side of Nelson creek. Samples collected from this area includes a grab sample volcanic host rock with numerous small quartz veins with chalcopyrite that returned values of 28.3 ppm Au, 18.7 ppm Ag and 2.31% Cu (sample 1132551).

During the 2013 field season DGW Explorations completed a reconnaissance geophysical survey program on the Forgold property. The mandate of the program was to carry out a total magnetic field survey over the soil geochemical surveys to determine if a magnetic and soil anomaly

relationship exists and to aid in the geological interpretation of this area. The Forgold geophysical survey consisted of 13 North-South lines and 5 east-west line. A total of 13 line km of magnetic data was collected over these north-south east-west lines, covering an area of 1.3km<sup>2</sup>. At total of 1500 individual magnetic readings were collected at 1500 stations. Station spacing was 10m. Labels for the grid were based on UTM positions of the stations.

## Forrest Claims

This section on historical exploration on the Forrest claims is taken from Awmack (2013). Table 4 summarizes all known exploration work carried out on the ground currently comprising the Forrest property.

Table 4: Exploration History on Forrest Claims

Operator	Geochemistry	Geophysics	Drilling/ Trenching	Reference
Pamicon (1988)	rocks			AR 18316 (Todoruk and Ikona, 1988)
Avondale (1989)	15 heavy minerals, 16 silts, 3913 soils, rocks	Ground: 54.6 km EM16R-resistivity, 54.6 km magnetics	trenching	(Todoruk et al., 1990)
Avondale (1990)	2899 soils, 356 rocks	Ground: 24.5 km VLF, 24.5 km magnetics, 1.5 km IP, 6.0 km UTEM	34 trenches (1,471m); 24 BQ DDH (2,498m)	AR 20562 (Stammers and Ikona, 1990; Stammers et al., 1991)
Abacus (1994)	209 soils, 66 rocks		trenching	AR 23629 (Todoruk, 1994)
Meridian Peak (1995)	86 soils, 52 rocks	Ground: 16.3 km VLF, 16.3 km magnetics	11 NQ DDH (1,421m)	AR 24156 (Scott and Ikona, 1995; Visser, 1995)
Central (2007)	rocks			AR 31193 (Jones, 2009)
Misty Creek/Pamicon (2009)	19 rocks			AR 31193 (Jones, 2009)
Astar (2011)	32 silts, 573 soils, 57 rocks			AR 32548 (Lehtinen, 2011)
Astar (2013)	7 silts, 452 soils, 23 rocks	Airborne: 428 km VTEM/magnetics/radiometrics		Awmack (2013), Fiset et al. (2013)
Totals:	15 heavy minerals, 55 silts, 7934 soils, rocks	Airborne: 428 km VTEM/magnetics/radiometrics Ground 95.4 km magnetics, 1.5km IP, 6.0 km UTEM	35 DDH (3,919 m) trenching	

The original Forrest claims were staked by Pamicon in October 1987 to cover quartz veins exposed above tree-line. No previous work had been documented in the property area, but the entire Iskut River district was undergoing extensive exploration following the discovery of the Johnny Mountain and Snip gold deposits thirty kilometres to the southwest. In 1988, Pamicon carried out initial prospecting of their Forrest claims, identifying a number of Cu and Au-bearing occurrences in four areas distributed in a band seven kilometres long on the west side of the West Slope Fault, a NNE-striking fault of regional extent (Todoruk and Ikona, 1988).

In 1989, Avondale Resources Ltd. (“Avondale”) optioned the property and carried out a comprehensive exploration program that summer, comprising conventional silt and heavy mineral stream sediment sampling, extensive soil sampling over the Forrest and South Central grids and along contour lines, mapping, prospecting and blast-trenching of showings. The geochemical surveys showed extensive Au and base metal anomalies. A magnetometer/EM-16R resistivity survey was carried out over both grids (Todoruk et al., 1990).



In 1990, Avondale carried out extensive exploration on the Forrest property, including mapping, prospecting, grid-based geochemical and geophysical surveys, mechanical trenching and drilling. Three test lines of induced polarization (“IP”) were run in the Goldpan Showing area, revealing a strong chargeability high subsequently shown by drilling to be due to graphitic phyllite. Nine UTEM lines were surveyed over the Forrest and Fifty zones without revealing significant conductors. VLF-EM and magnetometer surveys were run over several mini-grids and test lines, helping to define lithological trends and faults. Soil sampling was done over three new grids (North, Central and South), with limited infill sampling on the two existing grids and a few contour soil samples. Grid sampling was generally done at 25 metre intervals along lines spaced 100-200 metres apart. The soil geochemical results showed numerous Au±Cu±As anomalies, both associated with known mineralization and in other areas. By 1990, thirty mineralized showings had been recognized along 8.4 kilometres of the West Slope Fault. Drilling tested nine showings with mixed results; the best drill intersections were from the Creek Showing (90A-05: 39.7m @ 1.97 g/tonne Au, 0.77% Cu; 90A-13: 12.0m @ 5.79 g/tonne Au, 0.83% Cu) and Canyon Showing (90A-15: 1.5m @ 19.4 g/tonne Au) (Stammers and Ikona, 1990; Stammers et al., 1991).

Avondale relinquished its option on the Forrest property and Abacus Minerals Corporation (“Abacus”) optioned it in 1993. The following year, Abacus commissioned a limited program of mapping, prospecting, hand-trenching and soil sampling focused on the Crooked Creek Showing, which was believed to be the strike extension of the Creek Showing located 1,200 metres to the southwest across Gossan Creek with a similar orientation and style of mineralization. This work confirmed the presence of Au-Cu mineralization at the Crooked Creek Showing for 100 metres down-dip and 75 metres along strike from its previously-recognized extent (Todoruk, 1994).

By 1995, Meridian Peak Resources Corporation (“Meridian Peak”) had optioned the Forrest property. Meridian Peak carried out magnetic/VLF-EM surveying over three small grids (Visser, 1995) and drilled five showings, including two previously undrilled ones, with 11 core holes (1,421 metres). The best drill intersection averaged 4.05 g/tonne Au across 3.15 metres in hole F95-11, testing the Creek Showing (Scott and Ikona, 1995).

A brief program of rock sampling was apparently initiated by Central Resources Corp. (“Central”) in September 2007 but was cut short by weather problems. This work has not been documented.

No further work was reported on the Forrest property until 2009, when Misty Creek Ventures Ltd. (“Misty Creek”) and Pamicon owned the property equally and carried out limited rock sampling and mapping focused on the structural framework of mineralization (Jones, 2009).

In August 2011, Astar optioned the Forrest property from Pamicon and Equity Exploration Consultants Ltd. (“Equity”), the successor company to Misty Creek. Later that year, Astar carried out a program of mapping, prospecting and geochemical sampling, which resulted in the discovery of the JAM-2 Cu-As±Au showing and collection of three silt samples from the southwestern part of the property which were highly anomalous in As-Cu-Mo-Sb-Zn±Ag (Lehtinen, 2011).

In 2013, Equity Exploration Consultants Ltd. was contracted to carry out mapping, prospecting, geochemical sampling and an airborne geophysical survey on the Forrest property. The airborne geophysical component of this program was subcontracted to Aeroquest Airborne of Aurora, Ontario, with the flying carried out from Bell II Lodge from July 24-28, 2013. The fieldwork was carried out by a 4 person field crew with daily set-outs by Quantum Helicopters Ltd. from the Eskay Creek mine-site from August 23-29, 2013. A magnetic declination of 20° 07' E was used

for all compass measurements. All maps and UTMs are referenced to the 1983 North American Datum (NAD-83).

The helicopter-borne geophysical survey consisted of coincident Versatile Time-Domain Electromagnetic (VTEM), magnetic and radiometric surveys. It was flown with a nominal 30m terrain clearance along lines oriented at 102°, roughly perpendicular to the major faults and lithological contacts on the property. Essentially the entire property was covered with lines spaced 200 metres apart; ten intermediate lines reduced line spacing to 100 metres over the well-mineralized Gossan Ridge area in the centre of the property, an area which includes the Forrest and Creek zones.

A total of 23 rock samples, 7 silt samples and 501 (including 49 QA/QC) soil samples were taken from the Forrest property in 2013. Mapping was concentrated on the Forrest Zone. Prospecting concentrated on the little explored southwestern part of the property. Rock samples were taken from mineralized and altered rocks during the course of prospecting and mapping. Silt samples were collected from the active parts of previously unsampled streams in the southwestern part of the property. Both silt and rock sample sites were marked in the field by pink and blue flagging and aluminum tags.

Soil sampling was confined to the southwestern part of the property in 2013. The soil geochemical grid was extended 800 metres to the south over favourable geology, with samples taken at 25 metre intervals along five east-west lines spaced 200 metres apart. In addition, three contour soil lines at 1,300m, 1,400m and 1,500m elevation were sampled across the drainage where three 2011 silt samples contained highly anomalous As, Cu, Mo, Sb, Zn and Ag values. All sites were located by GPS. Wherever possible, soil samples were collected from the B horizon at 15-40 cm depth, but samples were taken from talus fines or glacial and fluvial material where "B" horizon soils were non-existent. Field notes were recorded and each site was marked with orange flagging and a Tyvek tag. Blanks and field duplicates were included with the soil sampling for quality assurance.

## **GEOLOGIC SETTING**

### **Regional and Property Geology**

The following section on regional and property geology has been summarized from Jones (2006). While the following summary will provide a general overview of both regional geology and local geology as it pertains to the RDN and Forgold claim groups, the reader is advised to consult Jones (2006) for a very comprehensive geologic description. A separate subheading for the Forrest claims will follow the summary of regional and local geology below.

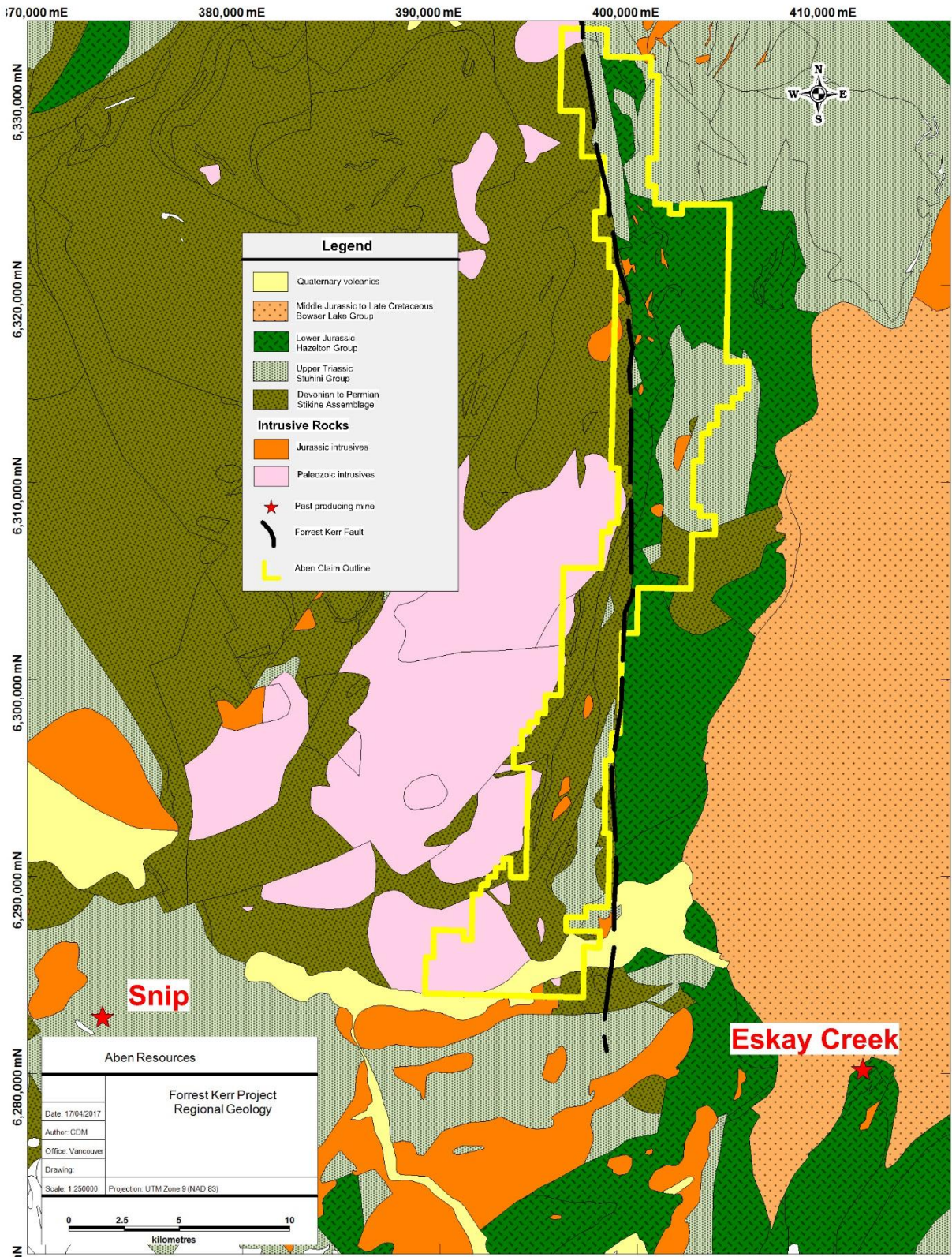


Figure 5: Regional geology around the Forrest Kerr Property

The regional geology surrounding the Forrest Kerr property consists of mid-Paleozoic and Mesozoic island arc successions which are overlapped to the east by clastic sediments of the Bowser Basin. Regional mapping has been carried out at a scale of 1:50,000 by Logan et al (1990a, b; 1992a, b; 1997) of the BCGS and by Read et al (1989) of the GSC. Recent mapping has been done in the Forrest Kerr area by the B.C. Geological Survey (Alldrick et al, 2005).

The Paleozoic Stikine Assemblage in the vicinity of the Forrest Kerr property comprises variably foliated mafic to intermediate volcanic rocks, chert and fine clastic sedimentary rocks. These have been intruded by the Late Devonian to Early Mississippian More Creek and Forrest Kerr composite batholiths, with phases ranging from granite to diorite. The Paleozoic rocks lie entirely on the western side of the Forrest Kerr Fault, with Mesozoic rocks exposed to the east. The Stikine Assemblage is unconformably overlain by island arc volcanic and sedimentary rocks of the Upper Triassic Stuhini Group. At the base of the Stuhini Group is a thick package of fine-grained volcanoclastic and sedimentary rocks, dominated by volcanic wacke, arenite and interbedded siltstone and argillite. These units inter-finger with overlying massive green tuff.

The Early to Middle Jurassic Hazelton Group unconformably overlies the Stuhini Group, and comprises five regional units (MacDonald et al, 1996); which are summarized below in Table 5. For clarity, Table 5 includes correlations to rock units used at Eskay Creek by Logan et al (1997) and for the northern portion of the Forrest Kerr property (Figures 6).

The basal coarse clastic unit, which contains Upper Hettangian to Lower Sinemurian ammonites, is a few tens or hundreds of metres thick, overlying the Stuhini Group along a disconformity or angular unconformity. It is conformably overlain by the sequence of andesitic to dacitic volcanics, which includes the previously defined Betty Creek Formation (Anderson, 1993). It is characterized by extensive variations in thickness and facies; Macdonald et al (1996) report a U-Pb date of 193 Ma for one of its flows. The intermediate volcanic and volcanoclastic strata are locally overlain by regionally discontinuous felsic calc-alkaline volcanic flows and tuffs with U-Pb dates from 186.5 to 194 Ma. The overlying sedimentary unit is distinguished from the basal unit by the absence of the granitoid-clast conglomerate and by clasts derived from the underlying intermediate volcanic packages. Fossils within the sedimentary unit range from Upper Pliensbachian to Upper Aalenian.

The Upper Sequence of the Hazelton Group is dominantly a bimodal tholeiitic volcanic assemblage with lesser tuffaceous, calcareous and argillaceous rocks, thought to represent intra-arc rifting (Roth et al, 1999). At Eskay Creek, this unit consists of felsic volcanic rocks overlain by a basaltic volcanic-sedimentary package, but regionally these stratigraphic relations are more complex and locally reversed. Fossils constrain this unit between Late Aalenian and Early Bajocian; U-Pb dates on rhyolites indicate a range of 181-172 Ma (Childe, 1996).

Middle to Upper Jurassic Bowser Lake Group marine and terrestrial mudstones, sandstones and conglomerates conformably overlie the Hazelton Group. These basinal clastics lack volcanic components and contain clasts of rock types from adjacent terranes, indicating a change in the local and regional tectonic setting (Roth et al, 1999).

Table 5: Hazelton Group Stratigraphic Units (from Jones 2006)

<b>McDonald et al (1996)</b> <b>Unit</b> <b>Lithology</b>	<b>Eskay Creek</b>	<b>Logan et al (1997)</b>	<b>Forrest Kerr</b>
<b>Upper Sequence</b> Bimodal volcanic Dacite tufts and flows, rhyolite flows, basalt rocks (181 to 173 Ma.) hyaloclastite, interstratified mudstone and tuffaceous mudstone	Hanging Wall Basalt, Contact Mudstone, Eskay Rhyolite,	Jw, Jwgc, mJHsl, mJHb	mJRY, mJBA, mJDI, mJSE, l-mJRY
<b>Lower Sequence</b> Sedimentary unit Turbiditic siltstone to sandstone, heterolithic (Upper Pliensbachian to Aalenian) cobble conglomerate, bioclastic calcareous siltstone, lesser tuffaceous sandstone upper		IJHsl	mJSE <sub>7</sub> , IJSA <sub>8,13</sub>
Dacite to rhyolite Dacite domes and flows, volcanoclastic flows and tufts sandstone to conglomerate, dacite breccias, (186.5 to 194 Ma.) rhyolitic welded tufts	Footwall Volcanics	IJHv, IJHr	IJDT, IJDM, IJRY <sub>1</sub>
Andesitic to dacitic Hornblende-plagioclase flows and volcanic rocks breccias, volcanoclastic sandstone and (193 Ma.) conglomerate, lapilli to block tuff	Lower Footwall Unit	IJHv	IJPO, IJSA
Basal coarse Locally fossiliferous calcareous sandstone, clastic unit trough cross-stratified granitoid clast (Hettangian-Sinemurian boundary) conglomerate, rare welded dacite lapilli tuff	Lower Footwall Unit		IJSA <sub>2</sub> , IJSA

Read et al (1989) mapped several small feldspar±quartz porphyry plugs and dykes near the Forrest Kerr Fault. Souther (1972) had previously assigned these plugs a Late Cretaceous to Early Tertiary age, but Read noted cobbles of this unit in basal conglomerates of the Middle to Upper Jurassic Bowser Lake Group. He postulated the felsic plugs and dykes to be subvolcanic feeders to the Early to Middle Jurassic Hazelton Group dacitic/trachytic volcanic rocks. Diorite sills and dykes are associated with the upper Hazelton Group basalt extrusive rocks and are thought to be subvolcanic equivalents.

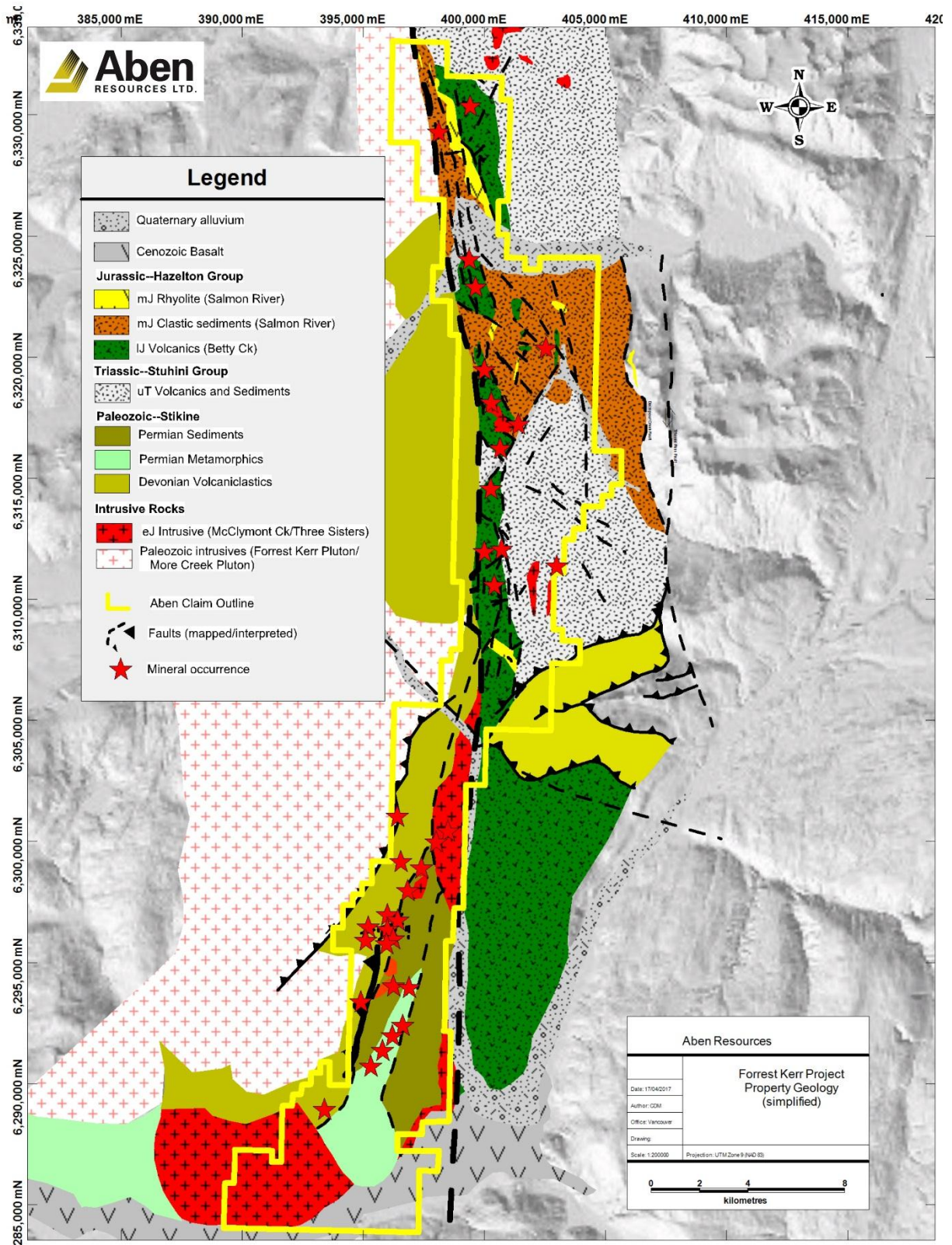


Figure 6: Forrest Kerr Property Geology

The first phase of structural deformation in the area is evident as widespread phyllite and foliated greenstone in Lower Permian and older rocks (Read et al, 1989). A second, post-Jurassic phase of folding produced northerly-trending upright folds. Bowser Lake Group rocks are affected by a third phase of deformation, with folding about northwesterly trending axial planes. Fault trends are complex, with a northerly trending set and an anastomosing east-northeast set. The sub-vertical Forrest Kerr Fault, which runs through the Forrest Kerr Property, is a major northerly-trending fault which can be traced for more than 40 kilometres. Read et al (1989) estimate a left-lateral horizontal displacement of 2.5 kilometres and a minimum vertical displacement of 2 kilometres (east side down). Britton et al (1990) suggest that south of the property, across the Iskut River, the Forrest Kerr Fault steps eastward and continues south for another 20 kilometres as the Harrymel Creek Fault. This fault, which truncates Hazelton Group stratigraphy immediately west of the Eskay Creek deposit, is "a zone of recent faulting that may represent a long-lived crustal break" (Britton et al, 1990). This "crustal break" may have localized Jurassic felsic volcanic centres at Eskay Creek, the Four Corners Complex (Alldrick et al, 2005) on the Forgold claims and on the RDN claims.

### **Forrest Geology**

The following description of the Forrest geology has been adapted from Jones (2009) and Awmack (2013).

In the southwest part of the Forrest property, Devonian coralline and crinoidal thin bedded carbonate and calcareous sedimentary rocks are thrust southeasterly over Permian and older strata by the West Lake fault. The latter strata comprise a lower unit dominated by plagioclase and/or pyroxene-phyric andesite flows and schistose lapilli tuffs, with an upper unit, both structurally and stratigraphically, dominated by mixed metasedimentary and metavolcanic clastic rocks including black, graphitic and sericitic phyllite, thin bedded siltstone, cherty sediments and a variety of ash and lapilli tuff units. Rapid lateral and vertical facies changes are characteristic of the stratified members. To the southeast, Upper Triassic Stuhini units comprising carbonate, volcanoclastic, sediment and porphyritic plagioclase andesite flows and breccias unconformably overlie Permian stratigraphy. These rocks are juxtaposed against the Permian and older rocks to the west by the West Slope Fault. Immediately east of the claims, across the Forrest Kerr fault, lower Jurassic Hazelton Group tuffs, minor conglomerates with granitic clasts and grey siltstones are overlain by an extensive succession of Middle Jurassic basic pillow lava and breccia.

Several intrusions are present on the property, varying from small stocks of diorite, quartz diorite and feldspar porphyry to large plutons of granodiorite to granite. The Late Devonian to Early Mississippian Forrest Kerr Pluton, of mainly biotite granite and tonalite composition, is located in the upper plate of the West Lake Fault along the western property boundary. The Stikine assemblage is bounded on the southwest by the McLymont Creek pluton which is an Early Jurassic hornblende, biotite, potassium feldspar megacrystic granite of the Texas Creek Plutonic suite. Granodiorite plugs of unknown age form a linear trend along the western side of the Forrest Kerr Fault, intruding Upper Triassic strata along the length of the eastern boundary of the property. A similar intrusion occurs within the Paleozoic rocks adjacent to the gossan on the north side of Gossan Creek. The rocks underlying the Forrest Zone were reinterpreted in 2013 as forming a northerly-elongated diorite stock approximately 750 metres wide and at least 900 metres long, of indeterminate age. Immediately south of Gossan Creek and along Gossan Ridge, dacitic or

monzonitic quartz-feldspar megacrystic porphyry dikes intrude the Paleozoic strata. These dykes are believed to represent sub volcanic feeders for Lower and Middle Jurassic Hazelton Group volcanic rocks.

Elsby (1992) carried out structural mapping over much of the Forrest property, recognizing four phases of deformation. Regional east-west compression ( $D_1$ ) during the Late Paleozoic to pre-Late Triassic produced a northeast-trending penetrative transposed foliation and widespread east-vergent recumbent structures. Axial planes generally dip moderately to gently northwest with shallow to moderate southwest-plunging fold axes. During this event, lower greenschist facies metamorphism was initiated and, as deformation progressed, was accompanied by the formation of low-angle ductile-brittle fault zones which resulted in fault-bounded panels of variably strained rocks.

In the Late Triassic and Jurassic, east-vergent  $F_2$  folds were accompanied by increasing metamorphism and ductile shearing along established  $D_1$  low angle fault zones and  $F_2$  axial plane surfaces. During  $D_2$  deformation, the northwest-dipping West Lake fault and numerous other thrusts developed subparallel to  $D_1$  geometry and mylonite formed along their traces. It is equivocal whether the West Slope fault is another of these thrusts or an east-dipping normal fault. A moderate to strong north-south compression ( $D_3$ ) superimposed upright  $F_3$  folding and fracturing on all rock types, representing a ductile-brittle transition during the waning stages of metamorphism.

$F_3$  folds and their related cleavage are almost orthogonal to  $F_1$  and  $F_2$  folds, with steeply south-dipping axial planes and gently plunging fold axes.  $D_4$  records a dominantly east-west compression regime, with open upright folds which trend northeast and plunge gently to the southwest, most notably warping the surface trace of the West Lake fault; it may be associated with movement along the Forrest Kerr Fault (Elsby, 1992).

## **DEPOSIT TYPES—ECONOMIC GEOLOGY**

Geological and geochemical evidence indicates that the Forrest Kerr claim group has the potential to host a variety of deposit types. Historic prospecting and diamond drilling has encountered significant polymetallic mineralization in lithologies that are analogous to strata that host mineral deposits throughout the region. On the property, auriferous quartz veins are associated with sheared and brecciated zones both within and adjacent to Early to Middle Jurassic intrusive bodies, which are recognized as important drivers of mineralization in the Golden Triangle.

### Submarine Exhalative Massive Sulfide Deposits (VMS)

Exploration since 1990 on the Forgold & RDN claims has largely focused on the pursuit of submarine exhalative massive sulfide deposits. This style of mineralization offers significant economic potential due to the precious metal-rich high grade nature of similar deposits such as the Eskay Creek mine, situated 30km to the SE of the central part of the Forrest Kerr property. Total production to December 2001 at the Eskay Creek Mine totalled 1.04 Mt grading 61.5 g/t Au and 2721 g/t Ag with proven and probable reserves estimated at 1.3 Mt grading 43.1 g/t Au and 2000 g/t Ag (Rogers, 2002). The Forrest Kerr property hosts many kilometres of rock that is age and genetic equivalent to the footwall and hanging wall zones at Eskay.



### Intrusion related Au-Ag-(Cu) veins

Polymetallic mineralization in quartz and quartz-carbonate veins formed by structurally focused hydrothermal fluids. These types of deposits are normally associated with regional faults, fault sets and fractures although veins are typically associated with second order structures. Veins typically occur in the central parts of discrete shear zones within a larger regional fault, where the rotational or simple shear strains predominate. Vein systems are tabular, sub vertical structures of varying thickness and lateral extent. The Snip mine, located 17km west of the southern portion of the Forrest Kerr property, is an auriferous shear vein system hosted in Upper Triassic Stuhini Group metasediments that have been intruded by Early Jurassic age stocks.

### Porphyry copper-gold deposits

Porphyry copper-gold deposits, both alkalic and calc-alkaline, occur throughout the Intermontane Belt in both the Stikinia and Quesnellia terranes. These types of deposits are common in the Golden Triangle, comprising over 25% of the reported mineral occurrences. Alteration patterns for alkalic type porphyry deposits are distinctly different from those of classic calcalkaline deposits, which are characterized by concentric phyllic-argillic-propylitic zones. The alkalic deposits typically have a central potassic or sodic plagioclase zone, which passes outward into a propylitic zone. These often overlap and are overprinted by retrograde metasomatic alteration. There are numerous Early to Middle Jurassic intrusives on the Forrest Kerr property that have not been explored for their mineralization potential. The Kerr, Sulphurets, Mitchell and Snowfield deposits are all porphyry deposits located within 40 km of the Forrest Kerr property.

## **2016 EXPLORATION**

Exploration work in 2016 involved the collection of 362 soil, 35 rock and 11 stream sediment samples by a four man crew from September 8-21<sup>st</sup>. Sampling areas were located in several discrete zones across the property (Figure 7). Rock samples were sourced mainly from areas with previously reported high grade base and precious metal values to both confirm historic information and to correlate mineralization with alteration types. Soil samples were targeted in areas adjacent to existing soil grids in an effort to discover if known mineralization trends continue across mapped structures and within previously untested lithologies. Soil samples were sourced from the conventional 'B' soil horizon where possible. Many of the sampling areas were located above treeline where a well-developed soil profile was not available so 'talus fines' were sampled and described appropriately. A complete list of all samples can be found in Appendix C.

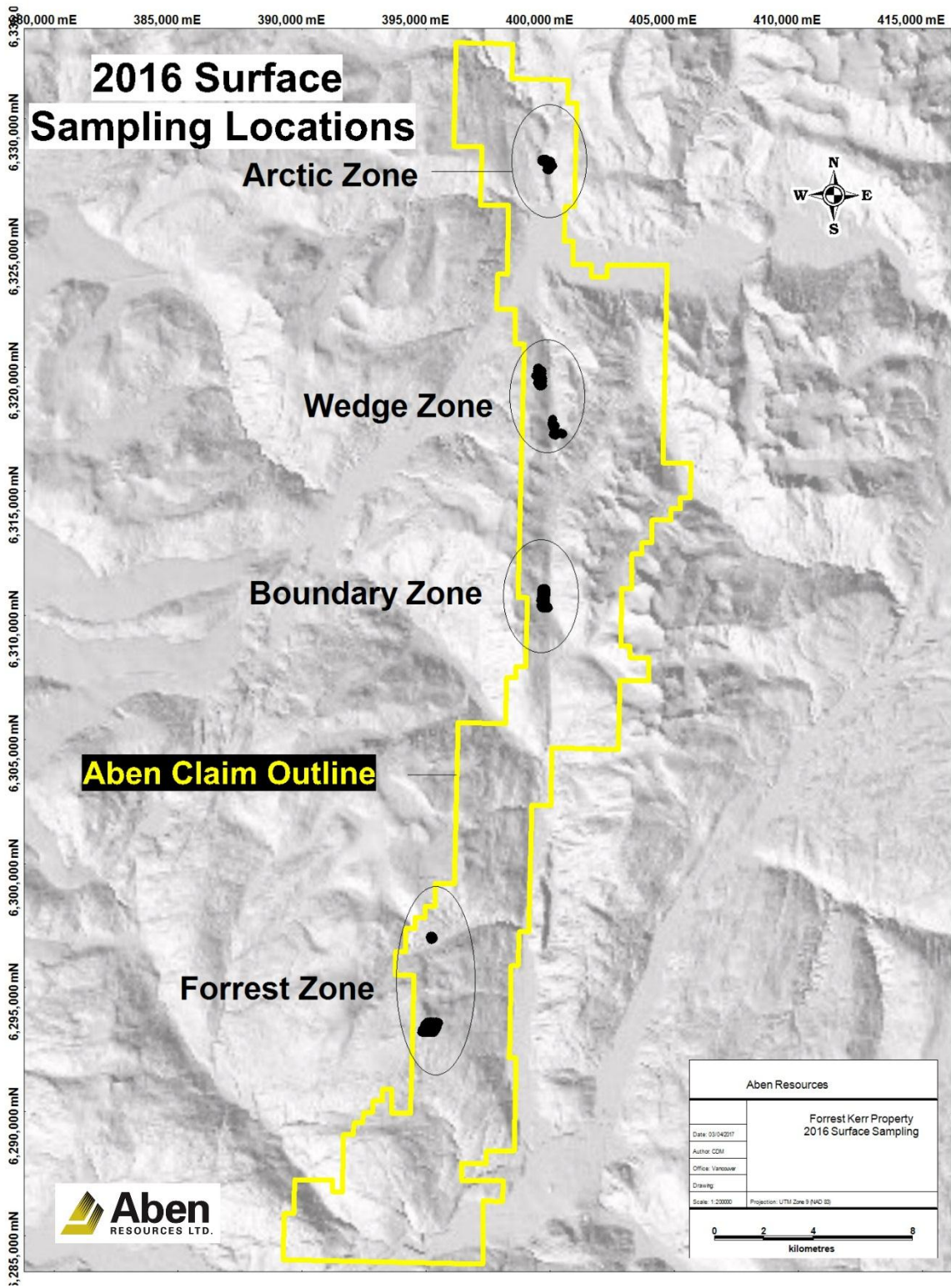


Figure 7: Plan of sampled areas in 2016.

Thirty eight soil samples and five rock samples were taken in the Arctic zone near Slime Creek in order to fill in and extend an existing Pb-Zn-As-Sb soil anomaly. This area has a well-developed soil profile so the geochemical signature is more muted than elsewhere on the property. All of the following sample location maps have corresponding Au & Cu value maps in Appendix D.

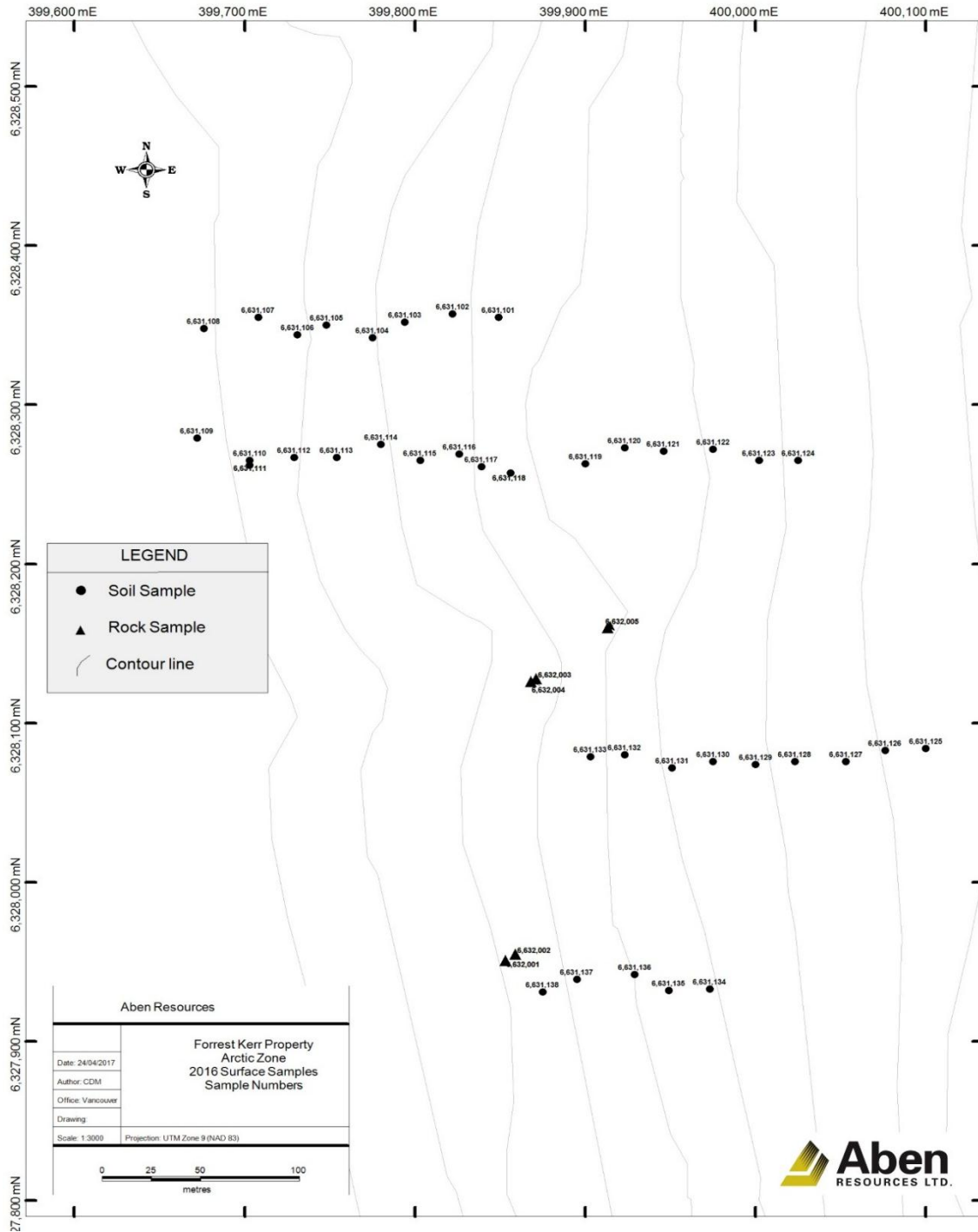
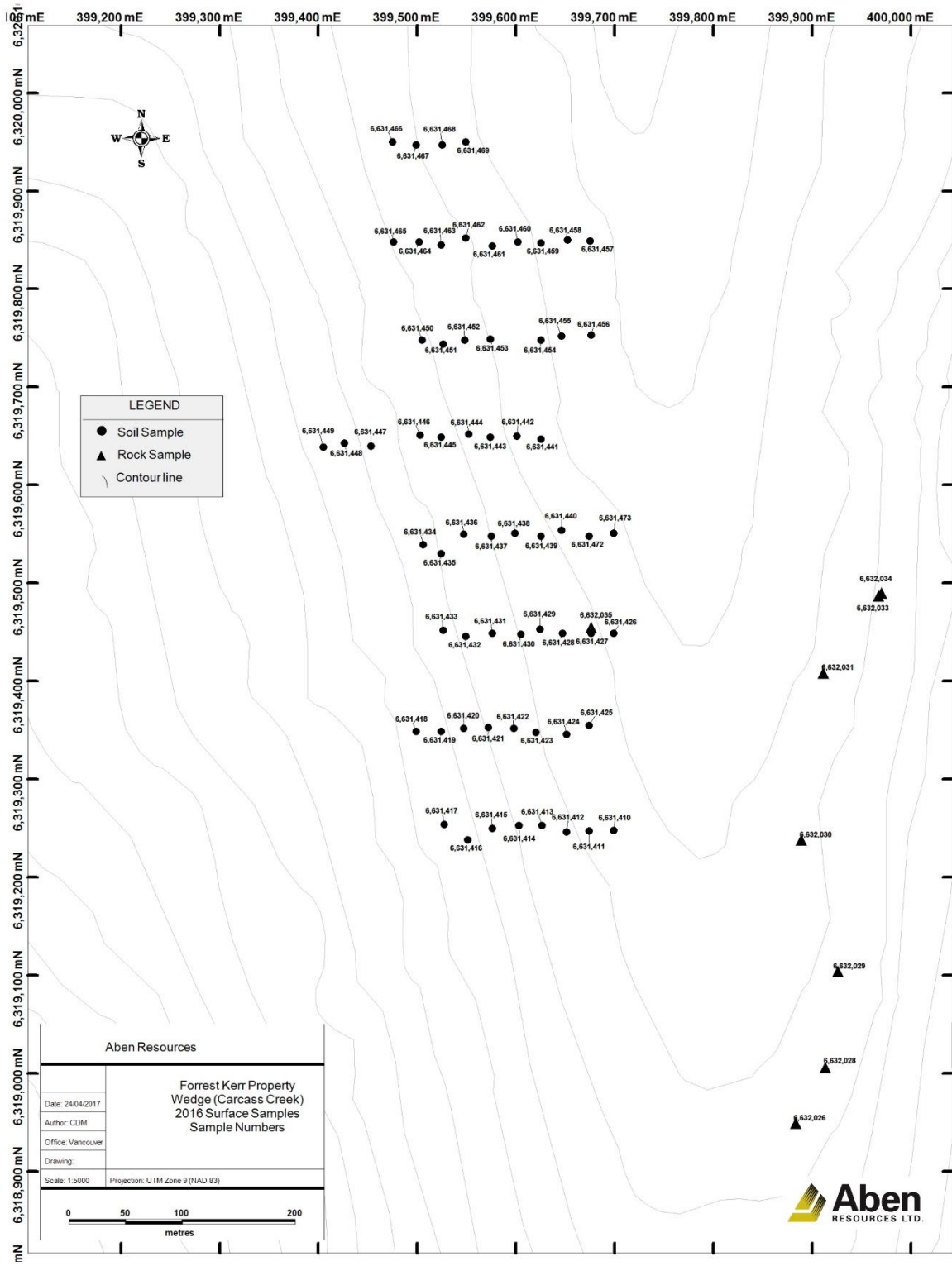


Figure 8: Arctic area surface samples

A total of 62 soil and 6 rock samples were taken in the Carcass creek area, located in the Wedge zone, where the majority of historic drilling has taken place on the RDN claims. The soil



**Figure 9: Carcass Creek surface samples**

samples were sourced from the western side of Carcass creek to determine whether the strong Au in soil anomaly extended westward from the area of previous sampling. Rock and soil sampling in the Wedge south zone was targeted toward confirmation of historic sampling and to test some

previously mapped structures. Several historic drill pads were located in order to compare their UTM coordinates with those listed in the existing database.

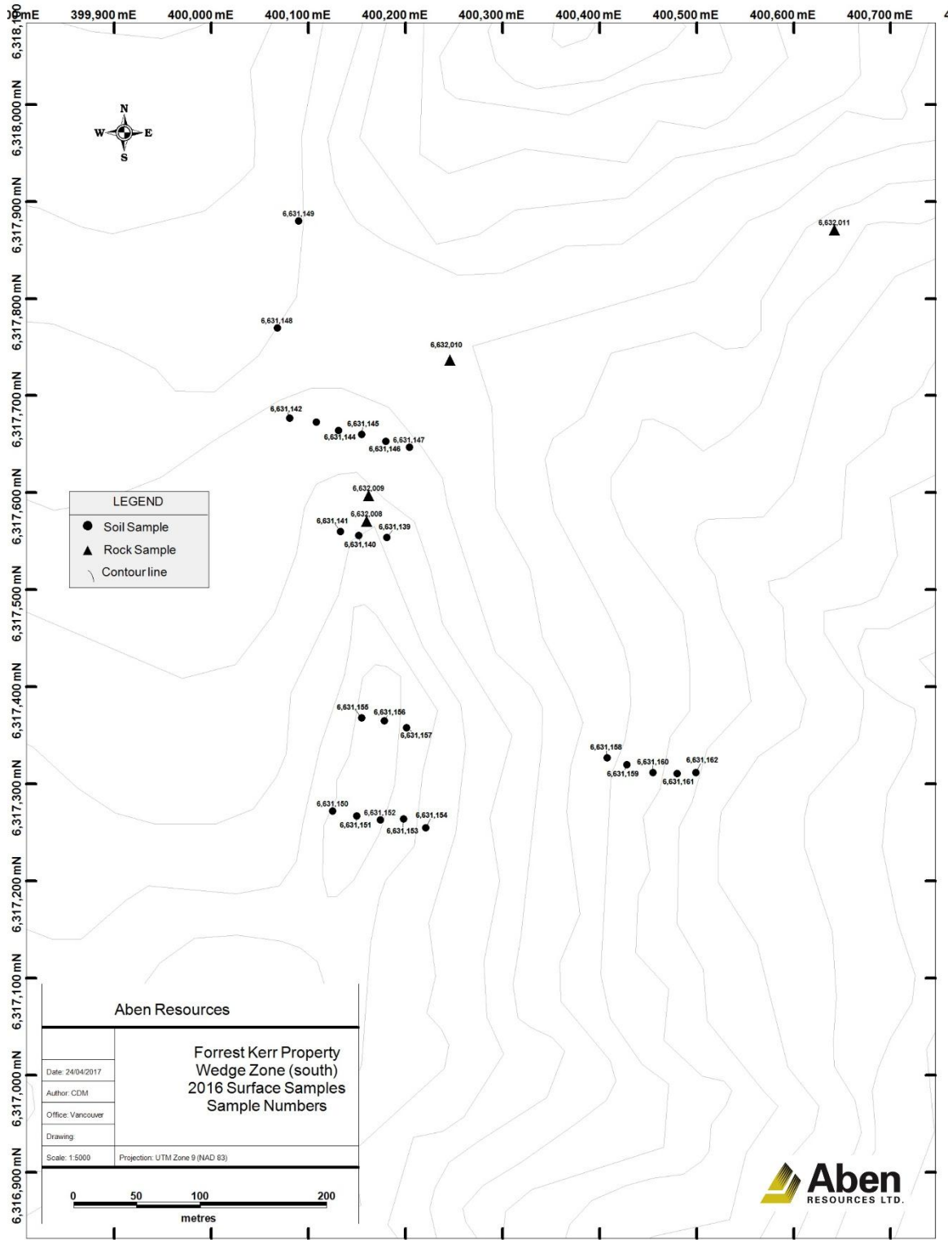


Figure 10: Wedge south zone surface samples

Over 100 soil samples were taken on the west side of the creek at the Boundary zone to test for mineralization across the mapped location of the Forrest Kerr fault and determine if a reported NE-SW trend in mineralization was evident. Four rock samples (float and outcrop) were taken in the vicinity of the historic Boundary drill locations in order to confirm historic grab sample grades.

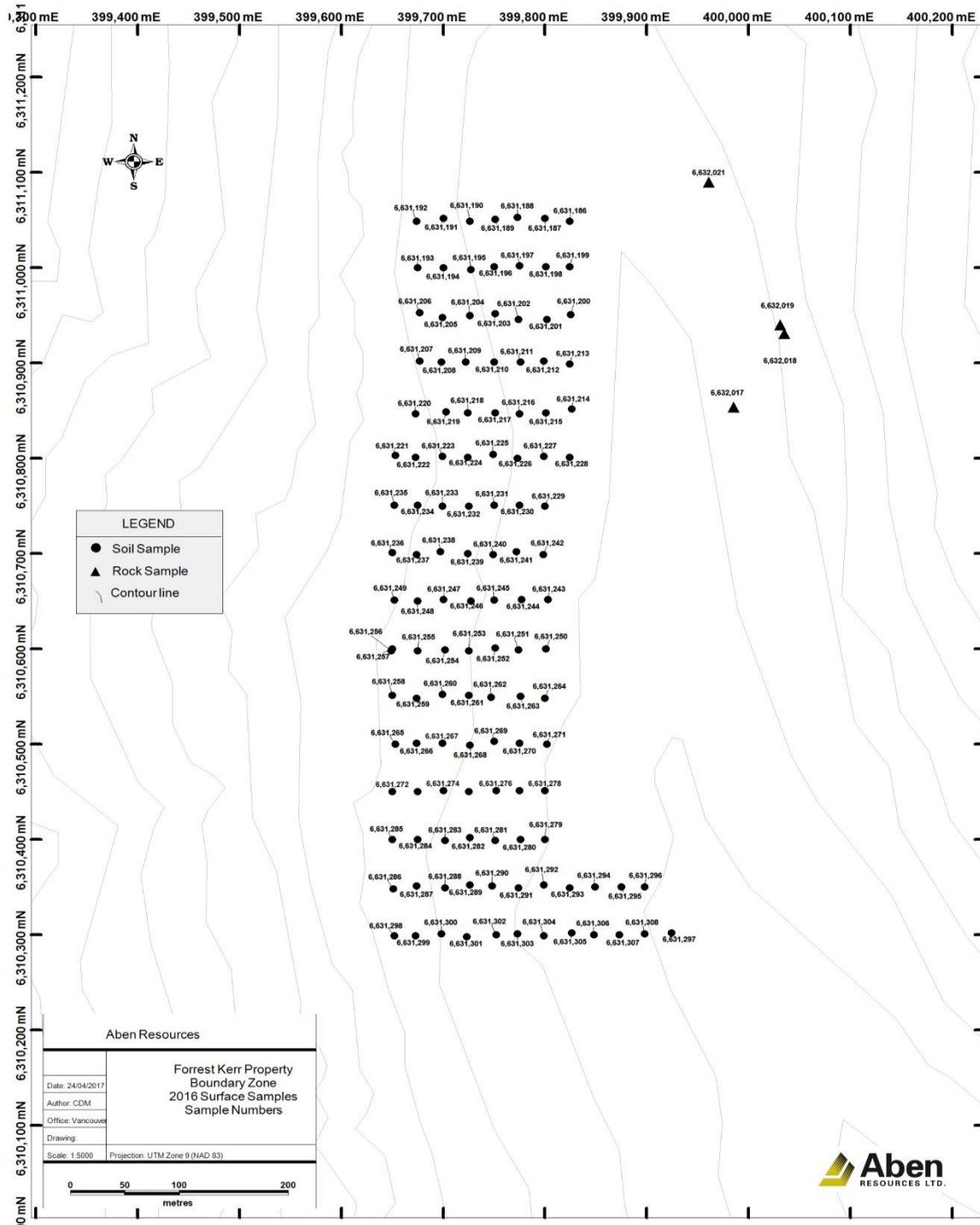


Figure 11: Boundary zone surface samples

Over 100 samples were taken on the Forrest claims in two separate areas. Sampling at Forrest creek was limited by adverse weather and prohibitive vegetative cover. A grid was completed at the goldpan zone, located 3km south of Forrest creek, over an area that covered two mineral occurrences that had not previously been sampled.

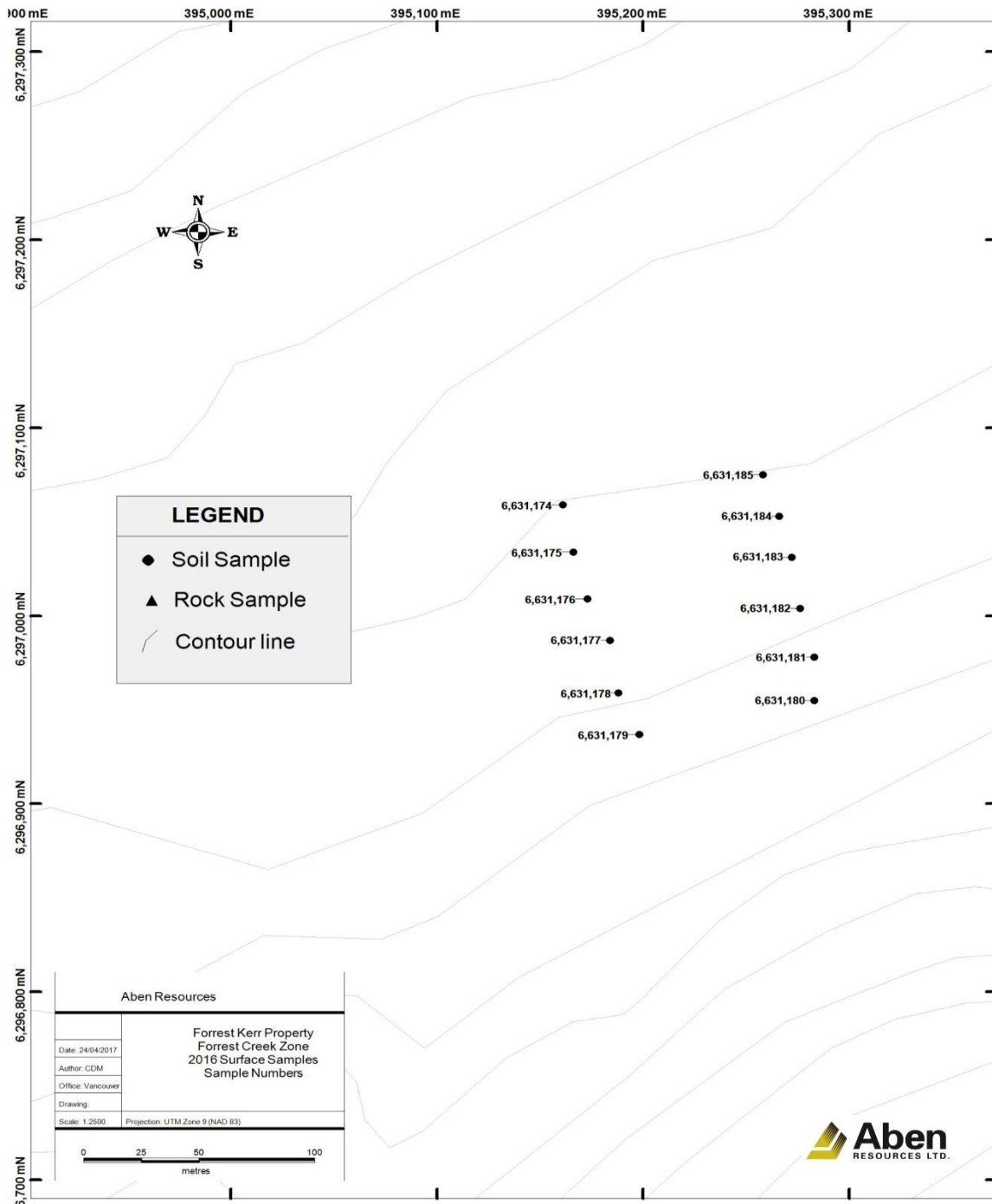


Figure 12: Forrest Creek surface samples

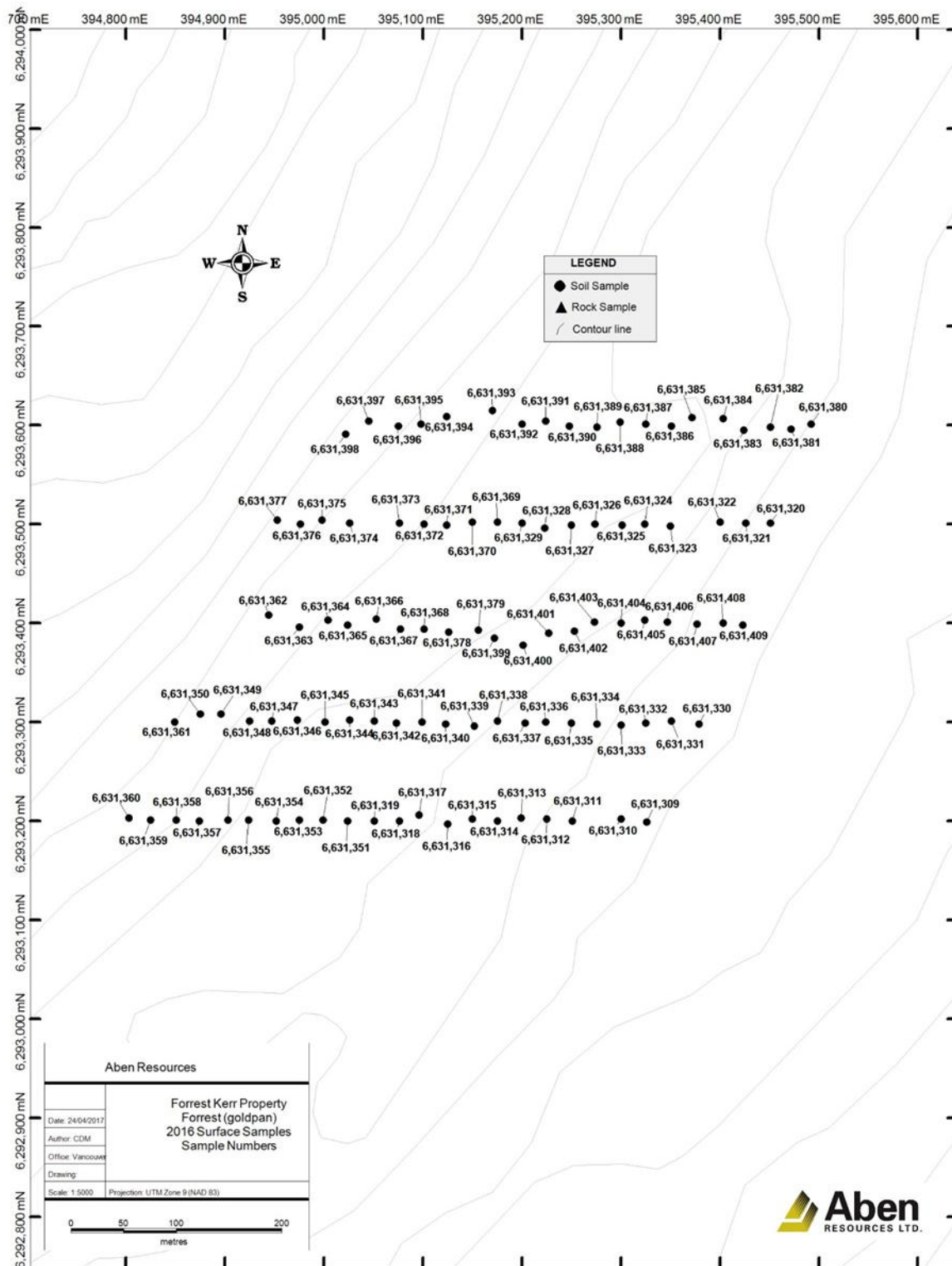


Figure 13: Forrest goldpan zone surface samples



Eleven stream sediment samples were collected from an active channel on the Beauty Ten claim (tenure#1045158). This was the only non-contiguous claim in the claim group and it has subsequently been dropped by Aben. Assessment credit for the work was credited to the main claim group by temporarily staking claim #1048511 to make both tenures contiguous with the main claim package and thereby allowing transfer of credit. Figure 14 shows the location and number of the stream sediment samples and location of the dropped claims. Assay results for the stream sediments can be found in Appendix C.

Some field time was spent locating historic drill holes across the property in order to establish more definite spatial control on subsurface structurally controlled mineralization. As the majority of exploration work on the Forrest Kerr Property was conducted previous to modern GPS technology, the establishment of good ground control through the use of a common datum (NAD 83) will be very important for future exploration work.

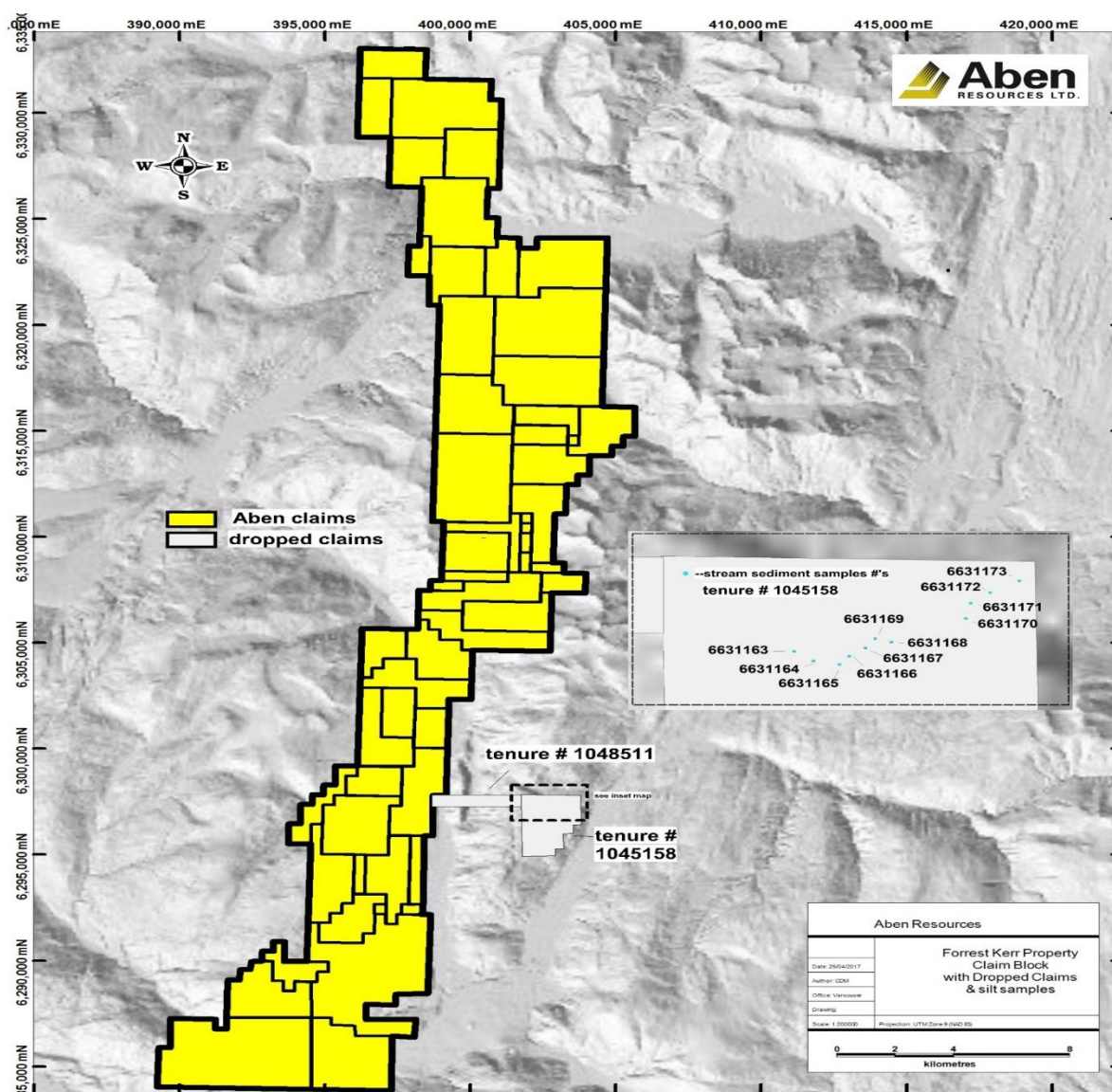


Figure 14: Stream sediment samples on dropped claims

## **SAMPLE PREPARATION, ANALYSES AND SECURITY**

A total of 408 rock, soil and stream sediment samples were sourced from the Forrest Kerr Property in 2016. All samples were placed in individual bags with a sample tag and sealed with a zip tie in the field. Groups of individual samples were then placed in rice sacks, sealed with tamper proof zip ties and transported by Aben personnel to AGAT laboratories receiving facility in Terrace, British Columbia. The sample shipment was then transported to AGAT's Mississauga headquarters for preparation and analysis. In Mississauga the samples were dried to 60°C if required and crushed to 75% passing 10 mesh (2mm) with a Rocklabs Boyd crusher. Each sample was then split to 250 g using a Jones riffler splitter of rotary split and pulverized to 85% passing 200 mesh (75 µm) using a TM-2 pulverizer. All samples were fused with sodium peroxide in a muffle furnace for one hour (protocol MIN-200-12001). The resultant melt is dissolved in a weak hydrochloric acid and diluted to 250 mL with de-ionized water. Analysis for 24 elements by ICP-OES was conducted using a PerkinElmer 7300DV instrument. Determination of gold was completed by AGAT protocol MIN-200-12006 lead fusion fire assay. Using this technique, 30 g prepared samples are fused with lead, then cupelled and parted with nitric acid. For samples with greater than 5 ppm Au a gravimetric finish is completed with a Mettler Toledo XP6 microbalance.

Field blanks and duplicate samples were inserted into the sample stream by Aben personnel. Blank material for the soil samples was taken from a field near Smithers while basalt material sourced near the AltaGas camp was used for blank rock sample material. All blank material reported acceptably low values for both base and precious metal. Duplicate samples in both the soil and rock returned values within acceptable error margins. AGAT laboratories maintains an in-house quality assurance & quality control (QA/QC) program through the use of replicate samples and certified reference materials. AGAT confirms that their QA/QC protocol for these samples were sufficient to were sati contamination, reproducibility and accuracy.

## **INTERPRETATIONS AND CONCLUSIONS**

The consolidated Forrest Kerr Property has over 40 documented mineral occurrences that contain significant Au-Ag-Cu-Pb-Zn mineralization in a variety of depositional styles. The property straddles the Forrest Kerr fault, a regional fault zone with many associated splays, fractures and shear zones that portray a complex structural history in a region of extensive mineralization. Much evidence of a long-lived robust hydrothermal system exists in the rock record, both in outcrop and from historic drilling across the claim group. The property-wide database contains over 18,000 soil, 2000 rock and 500 stream sediment samples that exhibit elevated base and precious metals with high concentrations of pathfinder elements. A majority of the prospective areas documented through sampling and prospecting remain under-explored or untested by drilling.

Initial exploration on the RDN claim group in the early 1990's targeted quartz-sulfide veins. Drilling in 1990 & 1991 hit intercepts that returned 14.5 g/t Au over 7.8m (RG90-07) and 91 g/t Au over 1.5m (RG91-21). At the Boundary zone, located near the border of the RDN and the Forgold claims to the south, hole RG91-16 reported 326 g/t Au over 0.4 m (average 60 g/t Au over 5.5m). After the discovery of the metal-rich Eskay Creek mine 40 km to the south, exploration between 1994 and 2005 was directed toward the potential of the RDN claims to host precious metal-enriched volcanogenic massive sulphide (VMS) mineralization. The potential for the property to host VMS mineralization is still valid based on strong stratigraphic and lithologic similarities to

Eskay over 10 km of strike length. In addition, the RDN claims host numerous structural targets outlined in historic geophysical surveys that remain under-investigated.

The Forgold claims, located in the central portion of the Forrest Kerr Property, are host to a highly anomalous Au-Cu geochemical signature that extends for over 2 km along strike and in excess of 750m laterally. Rocks taken from across the Forgold claims display well developed sericitic alteration providing evidence that a large scale hydrothermal system was present in the area. Samples from Forgold outcrop have returned up to 15 % Cu and 9 g/t Au along a linear trend within a zone of highly fractured and faulted rocks associated with the Forrest Kerr fault. Only one drill hole has been collared within the present Forgold claim boundary and the claim group has not been properly tested with geophysics. In particular, the under-explored Four Corners zone has good potential to host precious metal enriched massive sulphide mineralization based on stratigraphic, lithologic and depositional field observations.

The Forrest claim group is located wholly on the west side of the Forrest Kerr fault and therefore underlain by mainly Paleozoic rocks of the Stikine assemblage with occurrences of Triassic Stuhini Group and Jurassic intrusives, interpreted to be important drivers of mineralization in the region. The 20+ documented Au+Cu mineral occurrences in this area are located along large scale fault structures that parallel the Forrest Kerr fault to the east and the West Lake thrust fault to the west. Exploration in 1990 & 1995 targeted Au + Cu mineralization located near the edge of a diorite stock that hosts extensive sheeted quartz veining. Drilling at the Creek showing returned 5.79 g/t Au and 0.83% Cu over 8.49 metres (A90-13) and 1.7 g/t Au and 0.77% Cu over 39.3 metres (A90-05). Only limited field work has been conducted at Forrest since drilling was completed in 1995. A 2013 property wide VTEM/Radiometrics/Magnetics airborne survey helped to confirm the location of mapped lithologic and structural controls and also delineated areas with good potential to extend known mineralization. In addition, three conductive zones were indicated, one of which lies adjacent to the Creek zone in an area with very limited geochemical sampling or detailed mapping.

The majority of exploration on the consolidated Forrest Kerr property has been guided through the application of the 'Eskay Creek' exploration model. The use of this model is well justified due to the compelling stratigraphic and lithologic similarities between Eskay and a large portion of the Forrest Kerr property. Given the relatively small footprint of a high grade VMS deposit and the widely-spaced drilling completed thus far over most of Forrest Kerr property, many more viable targets remain to be tested. Modern discoveries within the Golden Triangle have emphasized the wide range of deposit styles and their potential for high grade mineralization throughout the area. Common to many of these deposits is their position within Hazelton Group rocks near the unconformable contact with Stuhini Group rocks with Jurassic intrusives in close proximity. The Forrest Kerr property combines these lithologic criteria with evidence of widespread hydrothermal activity through an extensive fault system that acted as a conduit for the mineralizing fluid. The property merits further exploration in light of the recent success using a variety of target models.

## APPENDIX A: References

- Alldrick, D.J., Nelson, J.L., and Barresi, T. (2005). Geology of the Volcano Creek-More Creek Area, British Columbia, NTS 104B/8,9,10,15,16, 104G/1,2: B.C. Ministry of Energy and Mines, Open File 2005-5, 1:50,000 scale map.
- Alldrick, D.J., Nelson, J.L., and Barresi, T. (2005). Geology and mineral occurrences of the Upper Iskut River area: Tracking the Eskay Rift through northern British Columbia (Telegraph Creek NTS 104G/01,02; Iskut River NTS 104B/09,10,15,16): B.C. Ministry of Energy and Mines, Geological Fieldwork 2004, Paper 2005-1, pp 1-30.
- Anderson, R.G. (1993): A Mesozoic Stratigraphic and Plutonic Framework for Northwestern Stikinia (Iskut River Area), Northwestern British Columbia, *in* Mesozoic Paleogeography of the Western United States, Society of Economic Paleontologists and Mineralogists, Pacific Section, v. 91, pp. 477-494.
- Awmack, H.J. (1995a): 1994 Geological and Geochemical Report on the RDN 1-6 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #23734.
- Awmack, H.J. (1995b): 1995 Geochemical Report on the RDN 1-10 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #24057.
- Awmack, H.J. (1996): 1996 Geological, Geochemical and Geophysical Report on the RDN 1-10 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #24719.
- Awmack, H.J. (1997): 1997 Geological and Geochemical Report on the RDN 1-10 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #25336.
- Awmack, H.J. and M.E. Baknes (1998): 1998 Geological, Geochemical and Trenching Report on the RDN 1-18 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #25813.
- Awmack, H.J. (1999): 1999 Geological, Geochemical, Geophysical and Diamond Drilling Report on the RDN 1-18 Claims; British Columbia Ministry of Energy and Mines Assessment Report #26184.
- Awmack, H.J. (2000): 2000 Geological, Geochemical and Geophysical Report on the RDN 1-18 Claims; British Columbia Ministry of Energy and Mines Assessment Report #26406.
- Awmack, H.J. (2013): 2013 Geological, Geochemical and Geophysical Report on the Forrest Project: British Columbia Ministry of Energy and Mines Assessment Report #34378.
- Bobyn, M.G. (1990): Assessment Report on Geological Mapping, Prospecting and Geochemistry of the Arctic/Upper More Claim Group; British Columbia Ministry of Energy and Mines Assessment Report #20667.
- Bobyn, M.G. (1991): Summary Report on Geological Mapping, Prospecting and Geochemistry of the Arctic/Upper More Claim Group; British Columbia Ministry of Energy and Mines Assessment Report #21529.

- Bond, W.D., 1992. Canadian Goldfields and Ecstall Mining. Diamond Drill Report on the Forgold Mineral Claims. ARIS: 22623
- Britton, J.M., B.A. Fletcher and D.J. Alldrick (1989): Unuk Map Area (104B/7E, 8W, 9W, 10E), in Geological Fieldwork 1988; British Columbia Ministry of Energy and Mines Paper 1989-1, p. 241250.
- Britton, J.M., J.D. Blackwell and T.G. Schroeter (1990): #21 Zone Deposits, Eskay Creek, Northwestern British Columbia, in Exploration in British Columbia 1989; British Columbia Ministry of Energy and Mines, p. 197-223.
- Campbell, I., G. McArthur and J.L. LeBel (1991): Geological, Geochemical and Geophysical Report on the More 5 and 6 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #22238.
- Childe, F. (1996): U-Pb Geochronology and Nd and Pb Isotope Characteristics of the au-Ag-Rich Eskay Creek Volcanogenic Massive Sulfide Deposit, British Columbia; Economic Geology, pp. 12091224.
- DeBock, N. (1989): Prospecting Report on the RDN 1-4 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #18411.
- Dunn, D.St.C. (1990): Geological and Geochemical Report on the Bear 1-4 Claims; Report submitted for assessment credit to the British Columbia Ministry of Energy and Mines.
- Elsby, D. C., 1992, Structure, Ductile Thrusting and Mineralization within the Paleozoic Stikine Assemblage, South Forrest Kerr Area, Northwestern British Columbia: Geological Fieldwork 1991, p. 197-205.
- Gale, D.F.G. (2003): 2002 Diamond Drilling Assessment Report on the RDN 1-18 and MOR 1-22 Claims; British Columbia Ministry of Energy and Mines Assessment Report #27071.
- Gale, V.G., A.J.B. Thompson (2001a): Petrographic Study, Hole RDN01-17: RDN Property, British Columbia; Private report prepared for Rimfire Minerals Corporation.
- Gale, V.G., A.J.B. Thompson (2001b): Petrographic and SEM Study, RDN Property, British Columbia; Private report prepared for Rimfire Minerals Corporation.
- Harris, J.F. (1997): Petrographic Examination of Rocks from the RDN Property; Private report prepared for Rimfire Minerals Corporation.
- Harris, J.F. (1998): Petrographic Examination of Rock Samples from the RDN Property; Private report prepared for Rimfire Minerals Corporation.
- Harris, J.F. (1999): Petrographic Examination of a Rock Sample from Project MC98-03; Private report prepared for Rimfire Minerals Corporation.
- Jones, M.I. (2005). 2004 Geological, Geochemical and Diamond Drilling Report on the MOR 2and RDN 1-18 Claims: British Columbia Ministry of Energy and Mines Assessment Report #27692.

- Jones, M.I. and Roberts, M.D. (2006). 2005 Geological, Geochemical and Diamond Drilling Report on the RDN Claims: British Columbia Ministry of Energy and Mines Assessment Report #28107.
- Jones, M.I. (2006). 2006 Geological, Geochemical, Geophysical and Diamond Drilling Report on the RDN Claims: British Columbia Ministry of Energy and Mines Assessment Report #28789.
- Jones, M., 2009 Geological and Geochemical Report on the Forrest Property: British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report #31193, p. 40.
- Logan, J.M., J.R. Drobe and D.C. Elsby (1992a): Geology of the More Creek Area, Northwestern British Columbia (104G/2), *in* Geological Fieldwork 1991; British Columbia Ministry of Energy and Mines Paper 1991-1, p. 161-178.
- Logan, J.M., J.R. Drobe and D.C. Elsby (1992b): Geology, Geochemistry and Mineral Occurrences of the More Creek Area, Northwestern British Columbia; British Columbia Ministry of Energy and Mines Open File 1992-5, map at 1:50,000 scale.
- Logan, J.M., V.M. Koyanagi and J.R. Drobe (1990a): Geology and Mineral Occurrences of the Forrest Kerr - Iskut River Area, Northwestern British Columbia; British Columbia Ministry of Energy and Mines Open File 1990-2, map at 1:50,000 scale.
- Logan, J.M., V.M. Koyanagi and J.R. Drobe (1990b): Geology of the Forrest Kerr Creek Area, Northwestern British Columbia, *in* Geological Fieldwork 1989; British Columbia Ministry of Energy and Mines Paper 1990-1, p. 127-139.
- Logan, J.M., J.R. Drobe, V.M. Koyanagi and D.C. Elsby (1997): Geology of the Forrest Kerr - Mess Creek Area, Northwestern British Columbia; British Columbia Ministry of Energy and Mines Geoscience Map 1997-3, map at 1:100,000 scale.
- MacDonald, A.J., P.D. Lewis, J.F.H. Thompson, G. Nadaraju, R.D. Bartsch, D.J. Bridge, D.A. Rhys, T. Roth, A. Kaip, C.I. Godwin and A.J. Sinclair (1996): Metallogeny of an Early to Middle Jurassic Arc, Iskut River Area, Northwestern British Columbia; *Economic Geology*, p. 1098-1114.
- Malensek, G.A., N. Baker and G. Cavey (1990): Assessment Report on the Forgold Project; British Columbia Ministry of Energy and Mines Assessment Report #20722.
- Mann, R.K. and Gale, D.F.G. (2004). 2003 Assessment Report on the RDN 1-18 and MOR 1-22 Claims: British Columbia Ministry of Energy and Mines Assessment Report #27376.
- Nicholson, J.A., 1989. Regional Geology and Geochemical Report on the For Claim Group. ARIS: 19364
- Power, M.A. (1999): Total Magnetic Field and VLF-EM Surveys at the RDN Property, Liard Mining Division; Report submitted for assessment credit to the British Columbia Ministry of Energy and Mines.
- Raudsepp, M., E. Pani (1999): SEM/EDS Analysis of Grains of Orange-red Mineral from Core Sample "RDN99-06; 76.7M"; Private report prepared for Rimfire Minerals Corporation.

- Read, P.B., R.L. Brown, J.F. Psutcka, J.M. Moore, M. Journeay, L.S. Lane and M.J. Orchard (1989): Geology of parts of Snippaker Creek (104B/10), Forrest Kerr Creek (104B/15), Bob Quinn Lake (104B/16), Iskut River (104G/1) and More Creek (104G/2); Geological Survey of Canada Open File 2094, 2 maps at 1:50,000 scale.
- Rogers, J. (2002): The Eskay Creek Gold and Silver Mine: Reserve Opportunities and Exploration Success Created from Metallurgical Diversity in a Complex Mineralized System in Northwestern British Columbia; Abstract from presentation at 2002 Canadian Institute of Mining, Metallurgy and Petroleum Conference, Vancouver, British Columbia, Canada, April 28 to May 1, 2002.
- Ronning, P., 1991. Canadian Goldfields and Ecstall Mining. Exploration on the Forgold Mineral Claims. ARIS: 21868
- Roth, T., J.F.H. Thompson and T.J. Barrett (1999): The Precious Metal-Rich Eskay Creek Deposit, Northwestern British Columbia, *in* Volcanic-Associated Massive Sulfide Deposits: Processes and Examples in Modern and Ancient Settings; Reviews in Economic Geology, Volume 8, p. 357-373.
- Savell, M. (1990a): Geochemical Report on the RDN 1 to 4 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #19646.
- Savell, M. (1990b): Geological, Geochemical, Geophysical & Diamond Drilling Report on the RDN and GOZ Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #20769.
- Savell, M. (1991): Airborne Geophysical Report on the RDN, GOZ and DPR Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #21366.
- Savell, M. (1992): Geochemical Report on the DPR-5, DPR-11, DPR-12, DPR-14 and DPR-15 Mineral Claims; British Columbia Ministry of Energy and Mines Assessment Report #22607.
- Savell, M. and E. Grill (1991): Geological, Geochemical, Geophysical and Diamond Drilling Report on the RDN, GOZ and DPR Mineral Claims; Internal Noranda Exploration Company report.
- Savell, M. and T. Wong (1991): Geological, Geochemical and Geophysical Report on the More 1-8 Mineral Claims; Private report prepared for Noranda Exploration Co. Ltd., *in* Campbell et al (1991).
- Scott, T. C., and Ikona, C. K., 1995, 1995 Assessment Report on the Forrest 1-10, 12 Mineral Claims: British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report #24165A, p. 197.
- Souther, J.G. (1972): Telegraph Creek Map Area, British Columbia; Geological Survey of Canada Paper 71-44.
- Stammers, M.A. and Montgomery, A.T. (2001). 2001 diamond drilling assessment report on the RDN 118 claims: British Columbia Ministry of Energy and Mines Assessment Report #26735.
- Stammers, M. A., and Ikona, C. K., 1990, 1990 Assessment Report on the Geochemical, Geophysical, Prospecting, Trenching and Diamond Drilling Program, Forrest 1-15 Claims: British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report #20562, p. 101.

- Stammers, M. A., Montgomery, A. T., and Ikona, C. K., 1991, Summary Report of 1990 Exploration on the Forrest 1-15 Claims: Private report for Avondale Resources Inc. dated January 1991, p. 106.
- Todoruk, S. L., and Ikona, C. K., 1988, Geological Report on the Forrest Mineral Claims: British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report #18316, p. 101.
- Todoruk, S. L., Stammers, M. A., Darney, R. J., and Ikona, C. K., 1990, Summary of 1989 Exploration on the Forrest 1-15 Claims: Report prepared for Avondale Resources Inc. and dated January 1990, p. 87.
- Tucker, T.L. (1991): Geological, geochemical and geophysical report on the Arctic/Upper More claim group; British Columbia Ministry of Energy and Mines Assessment Report #21956.
- Visser, S. J., 1995, Magnetometer and VLF-EM Survey on the Forrest Project, End Zone Grid, North Grid and Gossan Ridge Area and Goose Pond (South) Grid: British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report #24156B, p. 40.
- Walker, R., Gal, L., 1990. Geological and Geochemical Summary Report on the For Claim Group. ARIS: 20598
- Wright, J.L. (2000): RDN Property UTEM Electromagnetic Survey; Attached as Appendix F in Awmack 2000.





## APPENDIX C: Surface Sample Descriptions

Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9	
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
6631101	399849	6328355	25	Brown	B	Silt/Sand	Angular	0.009	160	110	25	100
6631102	399822	6328357	25	Brown	B	Silt/Sand	Angular	0.005	90	60	25	120
6631103	399794	6328352	25	Brown	B	Silt/Sand	Angular	0.008	25	80	25	130
6631104	399775	6328342	25	Brown	B	Gravelly	Angular	0.01	60	50	25	130
6631105	399748	6328350	25	Light Brown	B	Gravelly	Angular	0.012	25	60	25	150
6631106	399731	6328344	25	Brown	B	Gravelly	Angular	0.008	25	60	25	140
6631107	399708	6328355	25	Light Brown	B	Gravelly	Angular	0.012	60	70	25	140
6631108	399676	6328348	25	Light Brown	B	Gravelly	Angular	0.011	60	60	25	180
6631109	399672	6328279	25	Dark Brown	B	Gravelly(coars	Angular	0.019	25	60	25	150
6631110	399703	6328265	25	Rusty Brown	B	Sand/Gravel	Angular	0.018	70	60	25	230
6631111	399703	6328262	25	Grey Brown	B	Silt/Sand	Dup 6631110	0.016	60	60	25	170
6631112	399729	6328267	25	Brown	B	Silt/Sand	Angular	0.019	160	70	25	240
6631113	399754	6328267	25	Light Brown	B	Silt/Sand	Angular	0.011	25	70	25	160
6631114	399780	6328275	25	Brown	B	Silt/Sand	Angular	0.019	70	120	25	110
6631115	399803	6328265	25	Brown	B	Silt/Sand	Angular	0.014	25	90	25	110
6631116	399826	6328269	25	Brown	B	Silt/Sand	Angular	0.013	70	200	25	170
6631117	399839	6328261	25	Dark Brown	B	Silt/Sand	Angular	0.008	100	150	25	60
6631118	399856	6328257	25	Rusty Brown	B	Silt/Sand	Angular	0.01	170	120	25	110
6631119	399900	6328263	25	Rusty Brown	B	Silt	Angular	0.004	25	90	25	80
6631120	399923	6328273	25	Rusty Brown	B	Silt	Angular	0.003	25	60	25	60
6631121	399946	6328271	30	Brown	B	Silt	Angular	0.004	25	90	25	90
6631122	399975	6328272	25	Brown	B	Silt		0.005	60	80	25	90
6631123	400002	6328265	40	Dark Brown	B	Silt		0.003	25	60	25	25
6631124	400025	6328265	30	Brown	B	Silt	Angular	0.005	70	120	25	25
6631125	400100	6328084	25	Rusty Brown	B	Silt/Sand	Sub Ang/Ang	0.004	25	80	25	70
6631126	400076	6328083	25	Light Brown	B	Silt/Sand	Angular	0.004	50	80	25	80
6631127	400053	6328076	25	Rusty Brown	B	Silt/Sand	Angular	0.009	25	30	25	25
6631128	400023	6328076	20	Rusty Brown	B	Silt/Sand	Sub Ang/Ang	0.002	25	70	25	100
6631129	400000	6328074	20	Brown	B	Silt/Sand	Sub Ang/Ang	0.003	25	60	25	100
6631130	399975	6328076	25	Dark Brown	B	Silt/Sand	Angular	0.004	25	80	25	60
6631131	399951	6328072	20	Brown	B	Silt/Sand	Sub Ang/Ang	0.002	25	70	25	70
6631132	399923	6328080	25	Rusty Brown	B	Silt/Sand	Sub Ang/Ang	0.004	25	120	25	80
6631133	399903	6328079	20	Brown	B	Silt/Sand	Sub Ang/Ang	0.004	60	100	25	80

Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631134	399973	6327933	35	Rusty Brown	B	Silt		0.006	25	80	25	90	
6631135	399949	6327932	20	Light Brown	B	Silt/Sand	Angular	0.005	110	80	25	120	
6631136	399929	6327942	20	Rusty Brown	B	Silt/Sand	Sub Ang/Ang	0.003	25	90	25	90	
6631137	399895	6327939	25	Rusty Brown	B	Silt		0.018	25	100	25	150	
6631138	399875	6327931	20	Rusty Brown	B	Silt	Angular	0.015	25	90	25	90	
6631139	400181	6317554	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.004	25	60	190	1180	
6631140	400152	6317556	20	Grey Brown	Talus Fines	Silt/Sand	Angular	0.009	60	130	190	760	
6631141	400133	6317560	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.008	25	80	170	630	
6631142	400081	6317677	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.009	25	80	200	620	
6631143	400108	6317673	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.012	25	100	280	1100	
6631144	400131	6317664	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.085	70	120	960	670	
6631145	400155	6317660	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.074	25	60	160	620	
6631146	400180	6317653	15	Rusty Brown	Talus Fines	Silt/Sand	Angular	0.006	25	70	100	650	
6631147	400204	6317647	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.004	25	40	100	650	
6631148	400068	6317770	15	Grey Brown	Talus Fines	Silt/Sand	Angular	0.015	25	70	150	770	
6631149	400090	6317880	25	Brown	Talus Fines	Sandy	Angular	0.006	25	40	190	500	
6631150	400125	6317272	20	Light Brown	B	Silt/Sand	Angular	0.002	25	20	60	240	
6631151	400150	6317267	20	Brown	B	Silt/Sand	Angular	0.002	25	20	170	830	
6631152	400174	6317263	25	Brown	B	Silt/Sand	Angular	0.002	80	50	130	650	
6631153	400198	6317264	25	Brown	Talus Fines	Silt/Sand	Angular	0.003	25	30	80	1080	
6631154	400221	6317255	25	Brown	Talus Fines	Sandy	Angular	0.002	25	40	100	1100	
6631155	400155	6317368	20	Rusty Brown	B	Silt/Sand	Angular	0.002	140	160	160	780	
6631156	400178	6317365	20	Brown	Talus Fines	Silt/Sand	Angular	0.002	25	40	150	750	
6631157	400201	6317358	20	Brown	Talus Fines	Silt/Sand	Angular	0.004	25	30	120	1110	
6631158	400408	6317327	20	Brown	B	Silt/Sand	Angular	0.005	25	30	90	300	
6631159	400428	6317320	20	Brown	B	Silt/Sand	Angular	0.004	25	30	90	330	
6631160	400455	6317312	15	Brown	B	Silt/Sand	Angular	0.003	25	30	80	300	
6631161	400480	6317311	15	Brown	B	Silt/Sand	Angular	0.004	25	50	25	260	
6631162	400499	6317312	15	Brown	B	Silt/Sand	Angular	0.009	25	40	60	290	
6631174	395161	6297059	25	Rusty Brown	B	Silt/Sand	Angular	0.036	50	50	25	80	
6631175	395166	6297034	20	Rusty Brown	B	Silt/Sand	Angular	0.018	25	30	25	25	
6631176	395173	6297009	20	Rusty Brown	B	Silt/Sand	Angular	0.011	25	30	25	25	
6631177	395184	6296987	20	Rusty Brown	B	Silt	Angular	0.01	25	30	25	25	
6631178	395188	6296959	20	Brown	B	Silt/Sand	Angular	0.008	25	50	25	50	
6631179	395198	6296937	20	Brown	B	Silt/Sand	Angular	0.006	25	50	25	25	
6631180	395283	6296955	20	Brown	B	Silt/Sand	Angular	0.243	120	70	25	70	
6631181	395283	6296978	20	Brown	B	Silt/Sand	Angular	0.224	110	70	25	80	
6631182	395276	6297004	20	Rusty Brown	B	Silt/Sand	Angular	0.168	270	110	25	100	
6631183	395272	6297031	25	Rusty Brown	B	Silt/Sand	Angular	0.331	230	110	25	100	
6631184	395266	6297053	25	Rusty Brown	B	Silt/Sand	Angular	0.221	220	110	25	90	
6631185	395258	6297075	25	Rusty Brown	B	Silt/Sand	Angular	0.109	170	80	25	100	

Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9	
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
6631186	399824	6311049	25	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	70	25	130
6631187	399800	6311052	20	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	70	25	120
6631188	399773	6311053	20	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	60	25	110
6631189	399751	6311051	20	Grey	Talus Fines	Sandy	Sub Angular	0.008	25	60	25	110
6631190	399726	6311049	15	Grey	Talus Fines	Sandy	Sub Ang/Ang	0.004	25	70	25	120
6631191	399700	6311052	15	Grey	Talus Fines	Sandy	Sub Ang/Ang	0.01	25	80	25	120
6631192	399674	6311049	20	Grey	Talus Fines	Sandy	Sub Ang/Ang	0.025	25	80	25	120
6631193	399675	6311000	30	Grey	Talus Fines	Sandy	Sub Ang/Ang	0.032	25	50	25	100
6631194	399700	6311000	20	Grey	Talus Fines	Sandy	Sub Angular	0.002	25	70	25	130
6631195	399727	6310998	30	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	70	25	120
6631196	399750	6311001	20	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	70	25	120
6631197	399775	6311002	25	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	70	25	130
6631198	399801	6311001	25	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	70	25	130
6631199	399824	6311001	25	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	70	25	130
6631200	399825	6310951	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	60	25	110
6631201	399802	6310946	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	60	25	120
6631202	399774	6310946	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	60	25	120
6631203	399751	6310952	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	60	25	120
6631204	399726	6310950	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	60	25	120
6631205	399699	6310948	15	Grey	Talus Fines	Sandy	Sub Angular	0.003	25	70	25	130
6631206	399677	6310953	25	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	60	25	120
6631207	399677	6310902	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	70	25	120
6631208	399698	6310901	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	70	25	120
6631209	399722	6310901	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	50	25	110
6631210	399750	6310901	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	60	25	120
6631211	399776	6310901	20	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	60	25	120
6631212	399799	6310902	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	60	25	130
6631213	399824	6310899	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	60	25	140
6631214	399826	6310852	15	Grey	Talus Fines	Sandy	Sub Angular	0.022	25	70	25	140
6631215	399801	6310848	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	70	25	120
6631216	399775	6310847	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	60	25	120
6631217	399751	6310848	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	70	25	130
6631218	399724	6310848	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	70	25	130
6631219	399703	6310849	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	60	25	120
6631220	399673	6310847	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	60	25	120
6631221	399653	6310803	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	80	25	130
6631222	399673	6310801	20	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	80	25	120
6631223	399699	6310802	20	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	90	25	130
6631224	399724	6310801	15	Grey	Talus Fines	Sandy	Sub Angular	0.011	25	80	25	120

Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631225	399749	6310804	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	80	25	130	
6631226	399773	6310800	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	70	25	110	
6631227	399799	6310802	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	60	25	120	
6631228	399824	6310801	15	Grey	Talus Fines	Sandy	Sub Angular	0.005	25	70	25	120	
6631229	399800	6310750	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	60	25	120	
6631230	399775	6310751	15	Grey	Talus Fines	Sandy	Sub Angular	0.024	25	60	25	110	
6631231	399750	6310751	15	Grey	Talus Fines	Sandy	Sub Angular	0.013	25	70	25	120	
6631232	399725	6310750	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	50	25	100	
6631233	399699	6310750	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	70	25	120	
6631234	399675	6310751	15	Grey	Talus Fines	Sandy	Sub Angular	0.01	25	70	25	120	
6631235	399652	6310751	15	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	80	25	110	
6631236	399650	6310701	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	70	25	130	
6631237	399674	6310699	15	Grey	Talus Fines	Sandy	Sub Angular	0.011	25	80	25	130	
6631238	399697	6310702	15	Grey	Talus Fines	Silt/Sand	Sub Angular	0.004	25	60	25	120	
6631239	399724	6310700	15	Grey	Talus Fines	Sandy	Sub Angular	0.01	25	60	25	130	
6631240	399749	6310699	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	60	25	110	
6631241	399772	6310702	15	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	60	25	100	
6631242	399798	6310699	20	Grey	Talus Fines	Sandy	Sub Angular	0.021	25	60	25	120	
6631243	399803	6310652	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	70	25	120	
6631244	399777	6310652	15	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	70	25	110	
6631245	399750	6310651	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	80	25	120	
6631246	399727	6310650	15	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	60	25	110	
6631247	399700	6310652	15	Grey	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	120	
6631248	399675	6310650	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.006	25	70	25	120	
6631249	399652	6310651	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.007	25	70	25	100	
6631250	399801	6310600	15	G	Talus Fines	Silt/Sand	Sub Angular	0.004	25	80	25	100	
6631251	399774	6310599	15	G	Talus Fines	Silt/Sand	Sub Angular	0.006	25	80	25	130	
6631252	399751	6310601	15	G	Talus Fines	Silt/Sand	Sub Angular	0.004	25	70	25	110	
6631253	399725	6310598	15	G	Talus Fines	Silt/Sand	Sub Angular	0.003	25	60	25	120	
6631254	399702	6310599	15	G	Talus Fines	Silt/Sand	Sub Angular	0.007	25	60	25	110	
6631255	399675	6310598	15	G	Talus Fines	Silt/Sand	Sub Angular	0.005	25	70	25	120	
6631256	399649	6310595	15	G	Talus Fines	Silt/Sand	Sub Angular	0.008	25	70	25	110	
6631257	399650	6310600	15	G	Talus Fines	Silt/Sand	Dup 6631256	0.007	25	80	25	110	
6631258	399650	6310551	10	B	Talus Fines	Silt/Sand	Sub Angular	0.01	25	80	25	110	
6631259	399674	6310548	10	B	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	100	
6631260	399699	6310552	10	B	Talus Fines	Silt/Sand	Sub Angular	0.006	25	60	25	100	
6631261	399725	6310551	10	G/B	Talus Fines	Silt/Sand	Sub Angular	0.014	25	60	25	100	
6631262	399747	6310549	10	G	Talus Fines	Silt/Sand	Sub Angular	0.009	25	50	25	100	
6631263	399776	6310550	10	G	Talus Fines	Silt/Sand	Sub Angular	0.007	25	70	25	120	

Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631264	399800	6310548	10	G	Talus Fines	Silt/Sand	Sub Angular	0.006	25	70	25	110	
6631265	399653	6310500	10	B	Talus Fines	Silt/Sand	Sub Angular	0.006	25	60	25	100	
6631266	399674	6310501	10	B	Talus Fines	Silt/Sand	Sub Angular	0.007	25	70	25	100	
6631267	399699	6310501	10	B	Talus Fines	Silt/Sand	Sub Angular	0.013	25	60	25	110	
6631268	399726	6310499	10	B	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	120	
6631269	399750	6310503	10	B	Talus Fines	Silt/Sand	Sub Angular	0.004	25	60	25	100	
6631270	399775	6310501	10	G/B	Talus Fines	Silt/Sand	Sub Angular	0.006	25	60	25	90	
6631271	399802	6310500	10	G/B	Talus Fines	Silt/Sand	Sub Angular	0.011	25	60	25	110	
6631272	399650	6310450	10	G	Talus Fines	Silt/Sand	Sub Angular	0.002	25	50	25	110	
6631273	399675	6310450	10	G	Talus Fines	Silt/Sand	Sub Angular	0.004	25	60	25	110	
6631274	399700	6310451	5	G	Talus Fines	Silt/Sand	Sub Angular	0.089	25	50	25	100	
6631275	399725	6310450	5	G	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	110	
6631276	399752	6310451	5	G	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	110	
6631277	399775	6310451	5	G	Talus Fines	Silt/Sand	Sub Angular	0.003	25	60	25	110	
6631278	399800	6310451	10	G	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	100	
6631279	399800	6310400	10	G/B	Talus Fines	Silt/Sand	Sub Angular	0.004	25	40	25	100	
6631280	399776	6310400	10	B	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	90	
6631281	399751	6310399	10	G/B	Talus Fines	Silt/Sand	Sub Angular	0.002	25	50	25	110	
6631282	399726	6310402	5	G/B	Talus Fines	Silt/Sand	Sub Angular	0.003	25	50	25	110	
6631283	399702	6310399	10	G	Talus Fines	Silt/Sand	Sub Angular	0.003	25	50	25	110	
6631284	399675	6310400	10	G	Talus Fines	Silt/Sand	Sub Angular	0.006	25	80	25	120	
6631285	399650	6310400	5	G	Talus Fines	Silt	Sub Angular	0.003	25	60	25	100	
6631286	399651	6310348	10	LB	Talus Fines	Silt/Sand	Sub Angular	0.006	25	80	25	90	
6631287	399674	6310351	10	B	Talus Fines	Silt/Sand	Sub Angular	0.008	25	90	25	120	
6631288	399702	6310349	10	B	Talus Fines	Silt/Sand	Sub Angular	0.013	25	90	25	120	
6631289	399726	6310352	5	B	Talus Fines	Silt/Sand	Sub Angular	0.004	25	100	25	120	
6631290	399748	6310351	5	B	Talus Fines	Silt/Sand	Sub Angular	0.007	25	80	25	110	
6631291	399774	6310349	5	B	Talus Fines	Silt/Sand	Sub Angular	0.011	25	70	25	120	
6631292	399799	6310352	5	B	Talus Fines	Silt/Sand	Sub Angular	0.005	25	80	25	110	
6631293	399824	6310349	5	B	Talus Fines	Silt/Sand	Sub Angular	0.004	25	90	25	110	
6631294	399849	6310350	10	G	Talus Fines	Silt/Sand	Sub Angular	0.003	25	50	25	100	
6631295	399875	6310350	5	G	Talus Fines	Silt/Sand	Sub Angular	0.003	25	50	25	110	
6631296	399898	6310350	5	G	Talus Fines	Silt/Sand	Sub Angular	0.005	25	60	25	120	
6631297	399924	6310302	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	50	25	130	
6631298	399652	6310299	15	Rusty Brown	Talus Fines	Silt/Sand	Angular	0.009	25	90	25	100	
6631299	399673	6310299	15	Rusty Brown	Talus Fines	Silt/Sand	Angular	0.008	25	90	25	120	
6631300	399698	6310301	15	Rusty Brown	Talus Fines	Silt/Sand	Angular	0.005	25	70	25	90	
6631301	399723	6310298	15	Rusty Brown	Talus Fines	Silt/Sand	Angular	0.008	25	100	25	100	
6631302	399752	6310300	15	Rusty Brown	Talus Fines	Silt/Sand	Angular	0.007	25	70	25	90	

Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631303	399773	6310301	15	Rusty Brown	Talus Fines	Silt/Sand	Angular	0.02	25	60	25	90	
6631304	399799	6310299	20	Rusty Brown	Talus Fines	Silt	Angular	0.004	25	30	25	80	
6631305	399826	6310302	15	Grey	Talus Fines	Sandy	Sub Angular	0.006	25	70	25	130	
6631306	399848	6310300	20	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	70	25	130	
6631307	399873	6310300	15	Grey	Talus Fines	Sandy	Sub Angular	0.007	25	70	25	130	
6631308	399898	6310301	15	Grey	Talus Fines	Sandy	Sub Angular	0.004	25	60	25	130	
6631309	395326	6293199	5	Grey	Talus fines	Silt sand	Angular	0.015	25	90	25	130	
6631310	395300	6293202	5	Brown	Talus fines	Silt sand	Angular	0.02	25	90	25	110	
6631311	395251	6293200	5	Brown	Talus fines	Silt	Angular	0.012	25	80	25	150	
6631312	395225	6293202	10	Brown	Talus fines	Silt sand	Angular	0.01	25	100	25	90	
6631313	395199	6293203	5	Grey/Brown	Talus fines	Silt	Angular	0.007	25	60	25	90	
6631314	395175	6293200	10	Brown	Talus fines	Silt	Angular	0.011	25	100	25	120	
6631315	395150	6293202	5	Brown	Talus fines	Silt sand	Angular	0.01	25	100	25	120	
6631316	395125	6293197	5	Brown	Talus fines	Silt sand	Angular	0.014	25	90	25	110	
6631317	395096	6293206	10	Brown	Talus fines	Silt sand	Angular	0.007	25	70	25	110	
6631318	395076	6293200	5	Brown	Talus fines	Silt sand	Angular	0.009	25	80	25	80	
6631319	395051	6293200	10	Brown	Talus fines	Silt sand	Angular	0.011	25	90	25	110	
6631320	395451	6293501	10	Brown	B	Silt	Angular rock	0.01	25	40	25	90	
6631321	395426	6293501	10	Brown	Talus Fines	Silt/Sand	Angular rock	0.018	25	80	25	90	
6631322	395400	6293502	10	Grey/Brown	Talus Fines	Silt/Sand	Angular rock	0.014	25	80	25	110	
6631323	395350	6293498	10	Brown	B	Silt	Angular rock	0.006	25	30	25	70	
6631324	395324	6293500	10	Brown	B	Silt	Angular rock	0.004	25	20	25	50	
6631325	395301	6293499	10	Brown	B	Silt	Angular rock	0.006	25	60	25	80	
6631326	395274	6293500	10	Brown	Talus Fines	Silt/Sand	Angular rock	0.015	25	80	25	110	
6631327	395250	6293499	10	Brown	Talus Fines	Silt/Sand	Angular rock	0.01	25	70	25	120	
6631328	395223	6293496	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.008	25	80	25	140	
6631329	395200	6293501	10	Light Brown	Talus Fines	Silt	Angular rock	0.004	25	40	60	200	
6631330	395379	6293298	20	Light Brown	Talus Fines	Silt/Sand	Angular	0.011	25	70	25	80	
6631331	395351	6293301	15	Light Brown	Talus Fines	Silt/Sand	Angular	0.011	25	90	25	120	
6631332	395325	6293299	15	Light Brown	Talus Fines	Silt/Sand	Angular	0.018	60	100	25	120	
6631333	395300	6293297	20	Brown	B	Silt/Sand	Angular	0.005	25	40	25	70	
6631334	395276	6293298	15	Light Brown	Talus Fines	Silt/Sand	Angular	0.011	25	80	25	110	
6631335	395250	6293299	15	Brown	Talus Fines	Silt/Sand	Angular	0.009	25	40	25	100	
6631336	395224	6293300	25	Brown	B	Silt/Sand	Angular	0.004	25	30	25	80	
6631337	395203	6293299	10	Brown	Talus Fines	Silt/Sand	Angular	0.005	25	50	25	110	
6631338	395175	6293301	15	Brown	Talus Fines	Silt/Sand	Angular	0.026	25	100	25	120	
6631339	395152	6293296	10	Brown	Talus Fines	Silt/Sand	Angular	0.015	25	70	25	130	
6631340	395123	6293298	10	Brown	Talus Fines	Silt/Sand	Angular	0.016	25	90	25	100	
6631341	395099	6293300	10	Brown	Talus Fines	Silt/Sand	Angular	0.01	25	60	25	100	

Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631342	395073	6293299	10	Brown	Talus Fines	Silt/Sand	Angular	0.01	25	70	25	100	
6631343	395051	6293301	15	Brown	Talus Fines	Sandy	Angular	0.015	25	110	25	110	
6631344	395026	6293302	15	Brown	Talus Fines	Sandy	Angular	0.008	25	90	25	120	
6631345	395001	6293300	15	Brown	Talus Fines	Sandy	Angular	0.012	25	100	25	100	
6631346	394973	6293302	15	Brown	Talus Fines	Sandy	Angular	0.012	25	130	25	100	
6631347	394947	6293301	10	Brown	Talus Fines	Sandy	Angular	0.013	25	80	25	110	
6631348	394925	6293301	15	Brown	Talus Fines	Silt/Sand	Angular	0.018	25	100	25	130	
6631349	394896	6293308	10	Brown	Talus Fines	Sandy	Angular	0.018	25	90	25	140	
6631350	394875	6293308	15	Brown	Talus Fines	Sandy	Angular	0.019	25	80	25	130	
6631351	395024	6293200	5	Brown	Talus fines	Silt sand	Angular	0.21	25	60	25	90	
6631352	394999	6293201	5	Brown	Talus fines	Silt sand	Angular	0.02	25	100	25	120	
6631353	394975	6293201	5	Brown	Talus fines	Silt	Angular	0.015	25	100	25	130	
6631354	394952	6293200	10	Brown	Talus fines	Silt sand	Angular	0.019	25	120	25	90	
6631355	394924	6293201	10	Brown	Talus fines	Silt sand	Angular	0.022	25	100	25	110	
6631356	394903	6293201	5	Brown	Talus fines	Silt sand	Angular	0.012	25	90	25	110	
6631357	394874	6293200	5	Brown	Talus fines	Silt sand	Angular	0.032	25	110	25	130	
6631358	394851	6293201	10	Brown	Talus fines	Silt sand	Angular	0.015	70	100	25	190	
6631359	394825	6293201	10	Brown	Talus fines	Silt sand	Angular	0.062	60	120	25	230	
6631360	394803	6293203	5	Brown	Talus fines	Silt sand	Angular	0.032	25	110	25	240	
6631361	394849	6293300	15	Brown	Talus Fines	Sandy	Angular	0.023	25	90	25	110	
6631362	394944	6293408	15	Brown	Talus Fines	Sandy	Angular	0.031	60	100	25	110	
6631363	394975	6293396	15	Brown	Talus Fines	Sandy	Angular	0.07	60	70	25	130	
6631364	395004	6293403	15	Brown	Talus Fines	Sandy	Angular	0.024	25	60	25	150	
6631365	395024	6293398	15	Brown	Talus Fines	Sandy	Angular	0.015	25	70	25	130	
6631366	395053	6293404	15	Brown	Talus Fines	Silt/Sand	Angular	0.01	25	70	25	130	
6631367	395077	6293394	15	Brown	Talus Fines	Silt/Sand	Angular	0.005	25	100	25	170	
6631368	395101	6293394	15	Brown	Talus Fines	Silt/Sand	Angular	0.005	25	140	25	130	
6631369	395175	6293502	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.004	25	70	25	150	
6631370	395150	6293502	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.01	25	70	25	80	
6631371	395124	6293499	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.012	25	50	25	120	
6631372	395101	6293500	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.014	25	70	25	120	
6631373	395076	6293501	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.009	25	60	25	90	
6631374	395026	6293501	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.011	25	50	25	90	
6631375	394998	6293504	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.054	290	100	25	130	
6631376	394976	6293500	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.023	25	70	25	140	
6631377	394953	6293504	10	Light Brown	Talus Fines	Silt/Sand	Angular rock	0.033	25	60	25	130	
6631378	395126	6293391	15	Brown	B	Silt/Sand	Angular rock	0.006	25	220	25	210	
6631379	395156	6293393	15	Brown	B	Silt/Sand	Angular rock	0.01	25	90	25	170	
6631380	395492	6293601	10	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.015	25	100	25	120	



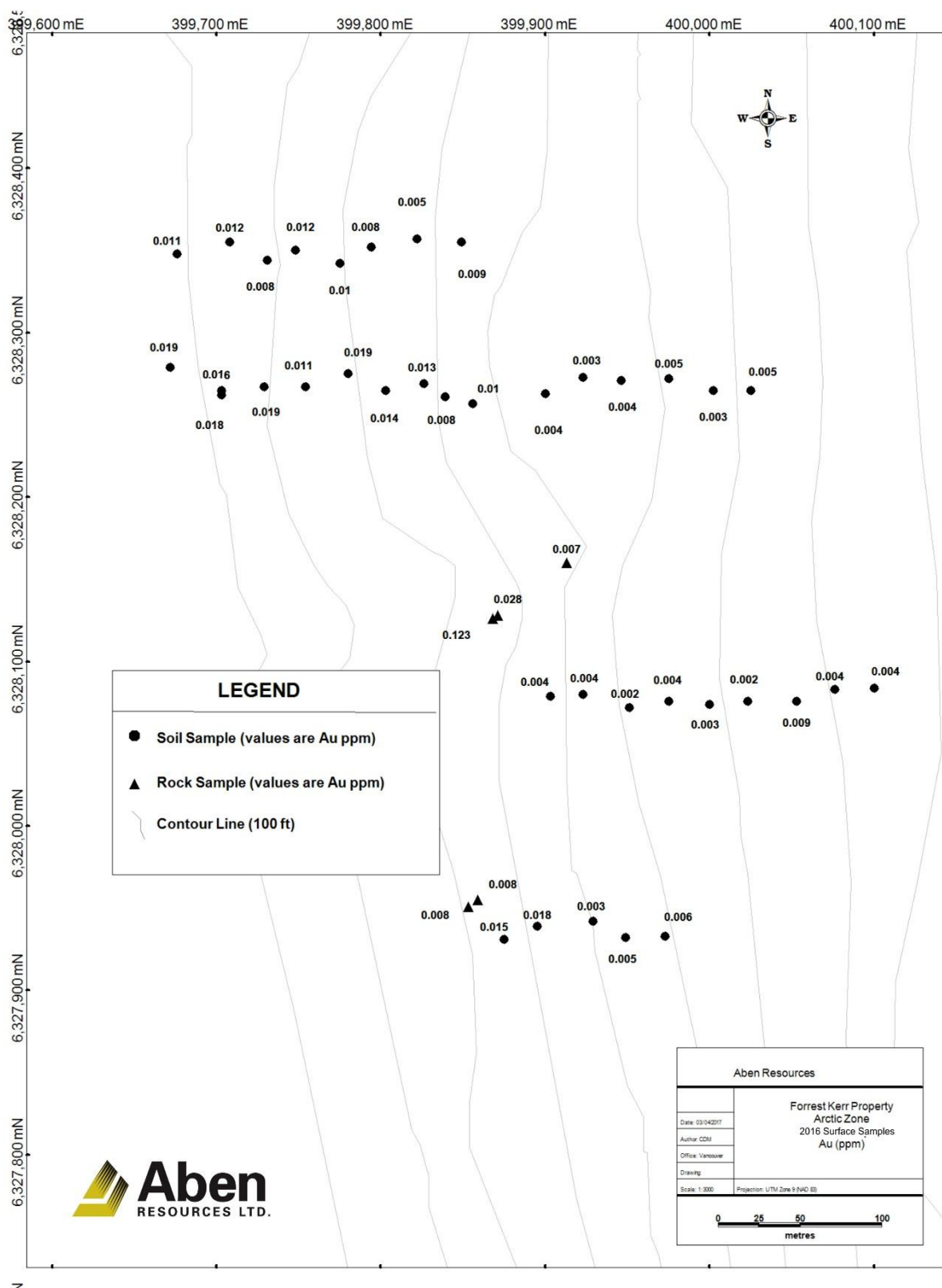
Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631381	395472	6293596	15	Light Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.013	25	110	25	90	
6631382	395451	6293598	20	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.01	25	110	25	100	
6631383	395424	6293595	15	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.017	80	80	25	140	
6631384	395403	6293607	10	Brown	Talus Fines	Silt/Sand	Angular	0.021	90	90	25	140	
6631385	395372	6293608	10	Brown	Talus Fines	Silt/Sand	Angular	0.025	60	80	25	140	
6631386	395351	6293599	10	Brown	Talus Fines	Silt	Angular	0.006	25	60	25	110	
6631387	395325	6293601	15	Brown	Talus Fines	Silt/Sand	Angular	0.011	25	70	25	110	
6631388	395299	6293603	15	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.016	25	80	25	120	
6631389	395276	6293598	10	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.017	25	70	25	100	
6631390	395248	6293599	10	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.011	25	90	25	150	
6631391	395224	6293604	15	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.011	25	110	25	100	
6631392	395200	6293601	15	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.015	25	100	25	90	
6631393	395170	6293615	10	Brown	Talus Fines	Silt/Sand	Angular	0.022	25	60	25	60	
6631394	395124	6293609	10	Brown	Talus Fines	Sandy	Angular	0.013	25	50	25	60	
6631395	395098	6293601	10	Brown	Talus Fines	Sandy	Angular	0.027	110	70	25	110	
6631396	395075	6293599	15	Brown	Talus Fines	Silt/Sand	Angular	0.021	25	50	25	100	
6631397	395045	6293604	5	Brown	Talus Fines	Sandy	Angular	0.054	70	130	25	100	
6631398	395022	6293591	10	Brown	Talus Fines	Silt/Sand	Angular	0.027	250	60	25	120	
6631399	395172	6293385	10	Brown	Talus Fines	Silt/Sand	Angular	0.011	25	120	25	170	
6631400	395201	6293378	10	Brown	Talus Fines	Silt/Sand	Angular	0.008	25	80	25	110	
6631401	395227	6293390	10	Brown	Talus Fines	Silt/Sand	Angular	0.006	25	50	25	110	
6631402	395253	6293392	15	Brown	Talus Fines	Silt/Sand	Angular	0.013	25	100	25	90	
6631403	395273	6293401	15	Brown	Talus Fines	Silt/Sand	Angular	0.015	50	90	25	140	
6631404	395300	6293400	15	Brown	Talus Fines	Silt/Sand	Angular	0.013	25	110	25	120	
6631405	395324	6293403	10	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.014	25	90	25	110	
6631406	395347	6293401	15	Light Brown	Talus Fines	Silt/Sand	Angular	0.012	25	90	25	110	
6631407	395377	6293399	10	Light Brown	Talus Fines	Silt/Sand	Angular	0.022	25	80	25	90	
6631408	395403	6293400	15	Light Brown	Talus Fines	Silt/Sand	Angular	0.022	25	60	25	120	
6631409	395423	6293398	10	Brown	Talus Fines	Silt/Sand	Angular	0.013	25	80	25	120	
6631410	399699	6319248	10	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.005	25	90	25	80	
6631411	399674	6319247	10	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.005	25	100	25	80	
6631412	399651	6319246	10	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.007	25	80	25	80	
6631413	399626	6319253	15	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.005	25	70	25	80	
6631414	399603	6319253	15	Brown	B	Silt/Sand	Sub Ang/Ang	0.004	25	60	25	70	
6631415	399576	6319250	20	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.006	25	60	25	70	
6631416	399551	6319238	15	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.012	120	80	25	80	
6631417	399527	6319254	15	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.006	25	70	25	70 65	
6631418	399499	6319349	10	Brown	Talus Fines	Silt/Sand	Angular	0.005	25	80	25	70	
6631419	399524	6319349	15	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.005	25	70	25	80	

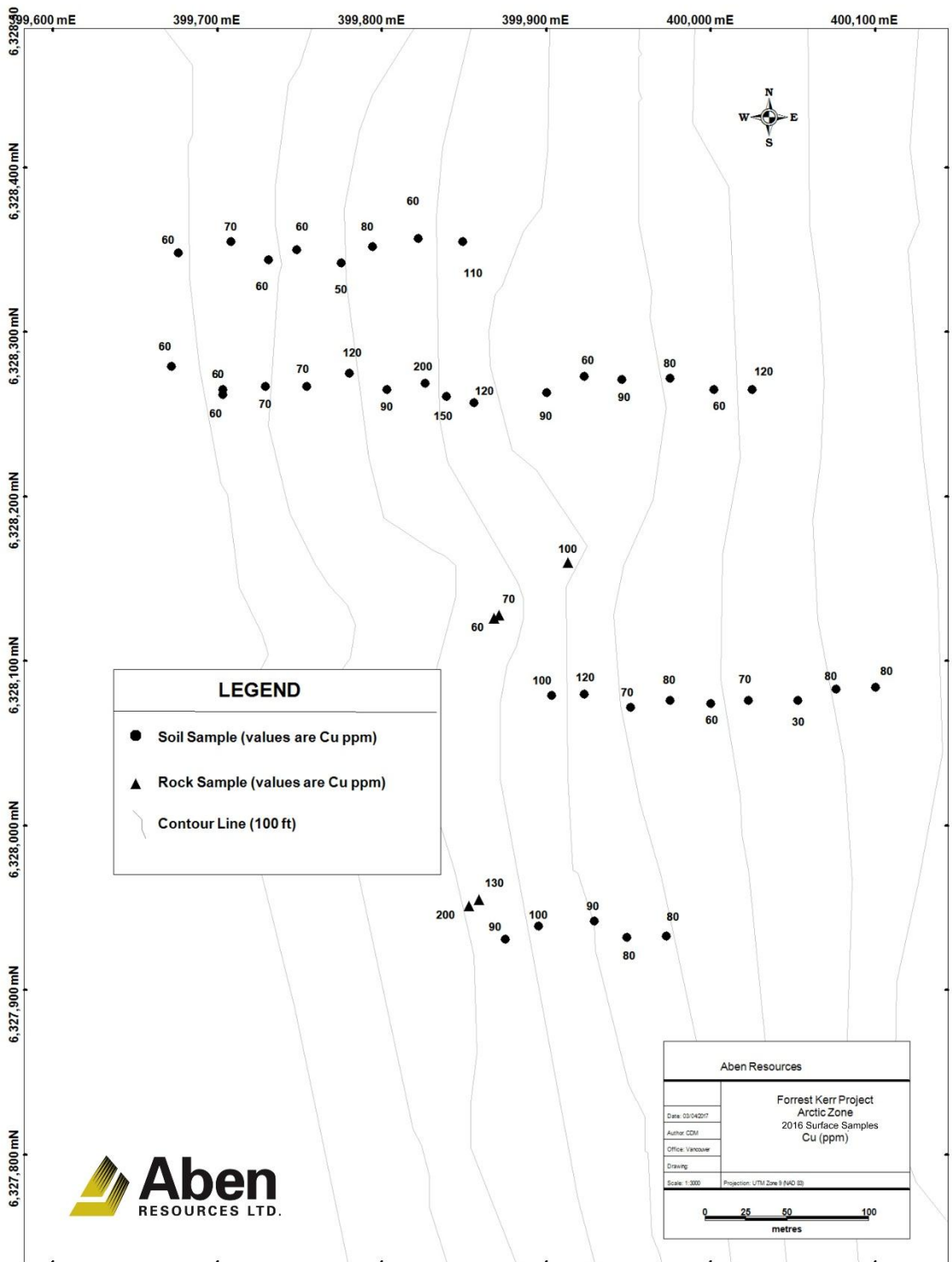
Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9	
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
6631420	399547	6319352	15	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.003	25	60	25	70
6631421	399572	6319353	10	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.004	25	500	25	100
6631422	399598	6319352	15	Light Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.006	60	80	25	90
6631423	399620	6319348	15	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.014	80	100	25	80
6631424	399651	6319346	15	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.004	25	70	25	70
6631425	399674	6319355	15	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.007	25	70	25	90
6631426	399699	6319449	15	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.015	25	70	25	100
6631427	399676	6319449	10	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.005	25	80	25	90
6631428	399647	6319449	15	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.004	25	80	25	80
6631429	399624	6319453	15	Light Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.004	25	70	25	90
6631430	399605	6319448	10	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.005	25	70	25	70
6631431	399576	6319449	15	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.005	25	50	25	80
6631432	399549	6319446	20	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.004	25	60	25	70
6631433	399526	6319452	15	Light Brown	Talus Fines	Sandy	Sub Ang/Ang	0.004	25	60	25	70
6631434	399506	6319539	15	Light Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.019	280	260	25	80
6631435	399524	6319530	15	Brown	Talus Fines	Silt/Sand	Sub Ang/Ang	0.005	25	60	25	80
6631436	399547	6319550	20	Brown	B	Silt/Sand	Angular	0.003	25	60	25	80
6631437	399575	6319548	15	Brown	Talus Fines	Sandy	Angular	0.004	25	60	25	80
6631438	399599	6319551	20	Dark Brown	B	Silt/Sand	Angular	0.004	25	50	25	100
6631439	399625	6319548	10	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.004	25	80	25	80
6631440	399646	6319554	10	Brown	Talus Fines	Sandy	Angular	0.01	25	80	25	90
6631441	399625	6319647	15	Brown	Talus Fines	Silt/Sand	Sub Angular	0.007	25	110	25	100
6631442	399601	6319650	15	Brown	Talus Fines	Silt/Sand	Sub Angular	0.005	25	90	25	60
6631443	399574	6319649	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	50	25	100
6631444	399552	6319652	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.003	25	60	25	80
6631445	399524	6319649	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	40	25	90
6631446	399503	6319651	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.003	25	30	25	80
6631447	399453	6319640	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.002	25	40	25	80
6631448	399426	6319643	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.005	25	100	25	120
6631449	399405	6319639	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.006	25	90	25	90
6631450	399505	6319748	15	Light Brown	B	Silt	Sub Angular	0.003	25	70	25	60
6631451	399526	6319744	15	Light Brown	B	Silt/Sand	Sub Angular	0.004	25	40	25	80
6631452	399548	6319748	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.021	25	90	25	80
6631453	399574	6319749	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.006	25	50	25	80
6631454	399625	6319748	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.007	25	90	25	90
6631455	399646	6319752	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.006	25	90	25	80
6631456	399676	6319753	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.007	25	80	25	80
6631457	399675	6319849	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.007	25	80	25	100
6631458	399652	6319850	15	Grey Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	50	25	80

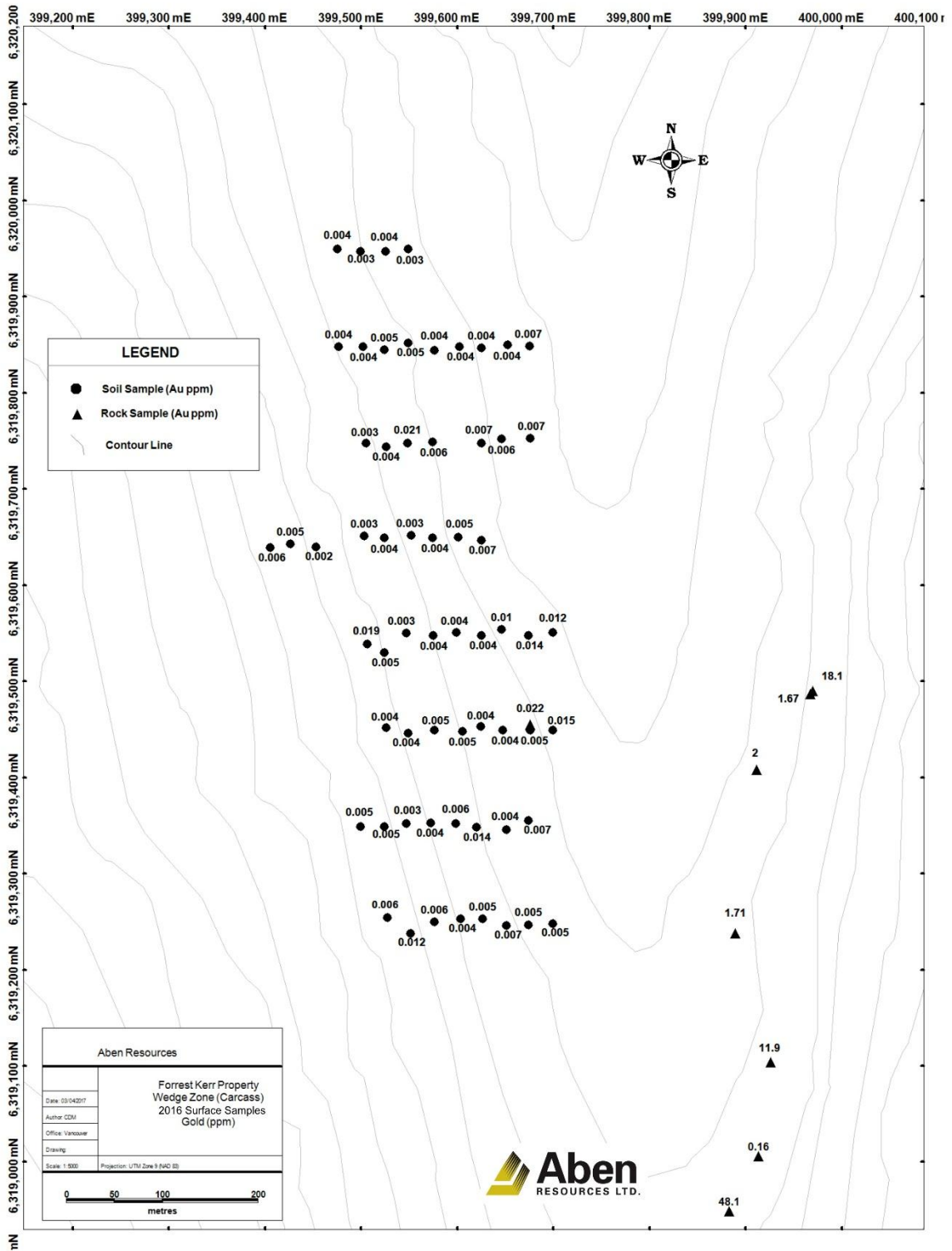
Aben Resources---Forrest Kerr Property					Soil Samples						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Depth (cm)	Colour	Horizon	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631459	399625	6319847	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	60	25	80	
6631460	399602	6319848	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	50	25	90	
6631461	399576	6319844	15	Brown	B	Silt	Sub Angular	0.004	25	50	25	80	
6631462	399549	6319852	15	Brown	B	Silt	Sub Angular	0.005	25	30	25	100	
6631463	399524	6319845	15	Brown	Talus Fines	Silt	Sub Angular	0.005	25	10	25	60	
6631464	399502	6319848	15	Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	40	25	70	
6631465	399476	6319848	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	60	25	80	
6631466	399475	6319950	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	50	25	90	
6631467	399499	6319947	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.003	25	40	25	100	
6631468	399525	6319947	15	Brown	Talus Fines	Silt/Sand	Sub Angular	0.004	25	30	25	70	
6631469	399549	6319950	15	Light Brown	Talus Fines	Silt/Sand	Sub Angular	0.003	25	40	25	80	
6631470							Blank	0.003	25	40	25	110	
6631471							Blank	0.004	25	40	25	100	
6631472	399674	6319548	10	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.014	25	50	25	80	
6631473	399699	6319551	10	Brown	Talus Fines	Sandy	Sub Ang/Ang	0.012	25	70	25	100	
Aben Resources---Forrest Kerr Property					Stream Sediment						UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Channel	Colour	Type	Texture	Rock Shapes	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	
6631163	402470	6297092	active	grey	silt	fine	rounded	0.008	90	80	25	440	
6631164	402560	6297026	active	grey	silt	fine	rounded	0.006	220	60	25	430	
6631165	402718	6297020	active	grey	silt	fine	rounded	0.004	80	50	25	490	
6631166	402767	6297071	active	grey	silt	fine	rounded	0.008	70	100	25	370	
6631167	402916	6297183	active	grey	silt	fine	rounded	0.003	110	50	25	260	
6631168	402908	6297161	active	grey	silt	fine	rounded	0.006	80	80	25	470	
6631169	402998	6297183	active	grey	silt	fine	rounded	0.003	70	60	25	350	
6631170	403409	6297378	active	grey	silt	fine	rounded	0.005	60	60	25	510	
6631171	403443	6297472	active	grey	silt	fine	rounded	0.003	25	60	25	680	
6631172	403553	6297556	active	grey	silt	fine	rounded	0.004	25	60	25	460	
6631173	403695	6297631	active	grey	silt	fine	rounded	0.008	25	70	25	650	

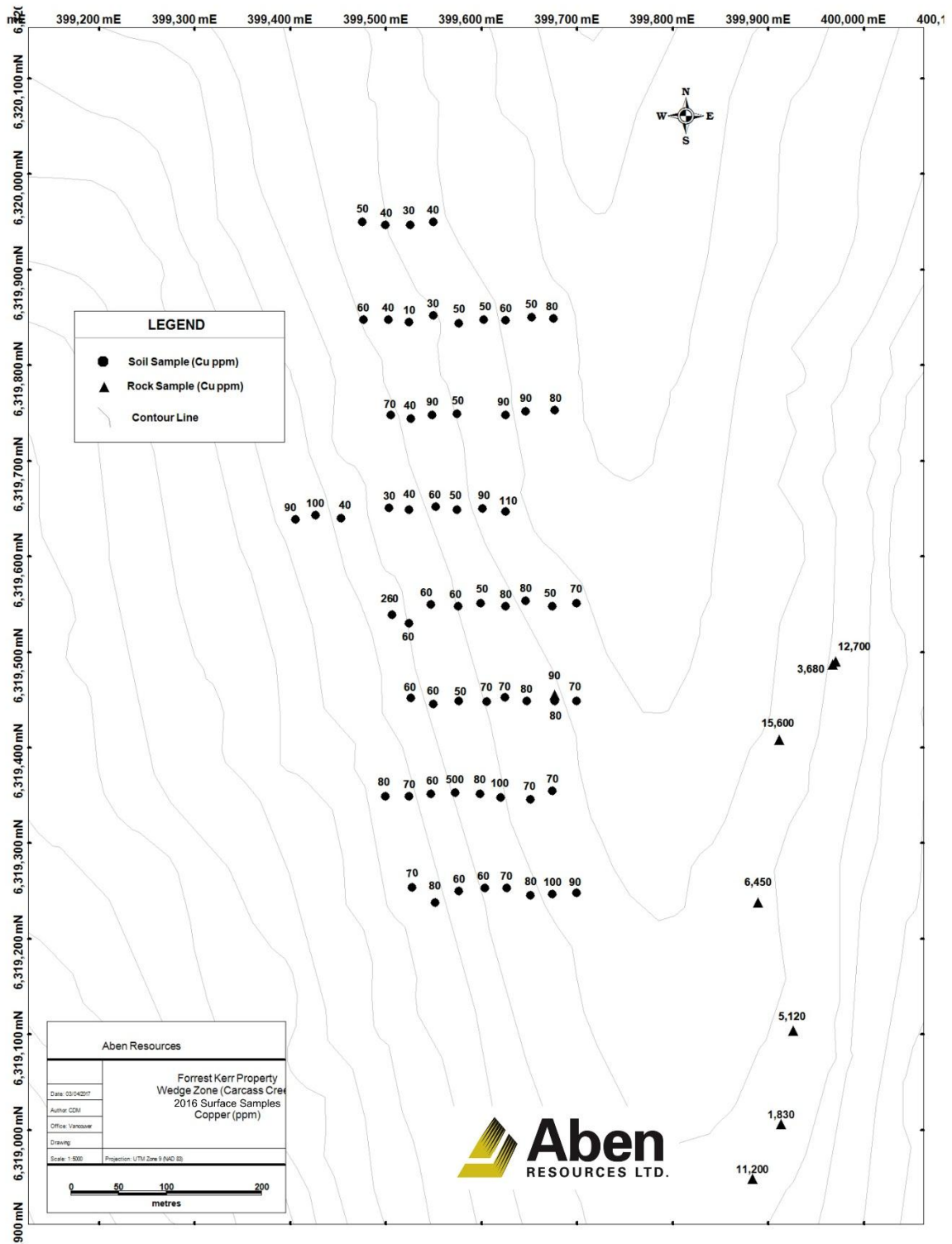
Aben Resources---Forrest Kerr Property				Rock Samples								UTM NAD 83 Zone 9		
Sample #	Easting	Northing	Sample Type	Area	Lithology	Modifier	Colour	Date	Sampler	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
6632001	399853	6327951	Grab	Arctic	Maf Volc	fractured	light grey	08/09/2016	CS	0.008	0.16	200	25	80
6632002	399859	6327955	Grab	Arctic	Fels Volc	silicified	light grey	08/09/2016	CM	0.008	0.005	130	25	70
6632003	399871	6328128	Comp Gr	Arctic	Monzonite	silicified	light grey	08/09/2016	CM	0.028	0.03	70	25	190
6632004	399868	6328126	Comp Gr	Arctic	Monzonite	Sheared	tan	08/09/2016	CS	0.123	0.33	60	50	370
6632005	399913	6328160	Comp Gr	Arctic	Fels Volc	fg grit	med grey	09/09/2016	CM	0.007	0.005	100	25	70
6632006	397745	6330159	Grab	Arctic	Siltstone	fractured	Blue-grey	10/09/2016	CM	0.004	0.13	210	25	100
6632007	399957	6336742	Comp Gr	Arctic	Rhyolite	breccia	buff	10/09/2016	CM	0.008	0.1	5	25	100
6632008	400160	6317571	SCGrab	S.Wedge	Qz vein	fractured	white-tan	12/09/2016	CS	0.002	0.005	5	25	25
6632009	400162	6317597	Comp Gr	S.Wedge	veined volc	fractured	tan	12/09/2016	CM	0.015	49.5	1060	25	1780
6632010	400246	6317737	Grab	S.Wedge	Qz vein	Vuggy	tan	12/09/2016	CS	41.3	95.1	1650	9870	8420
6632011	400642	6317871	Comp Gr	S.Wedge	monzonite	silicified	med grey	12/09/2016	CM	0.061	2.49	10	25	25
6632012	401060	6317053	Comp Gr	S.Wedge	F. Por Monz	fractured	white-tan	12/09/2016	CS	0.034	0.14	5	25	25
6632013	395996	6292092	25cm Chip	Goldpan	Qz vein	Vuggy	white	14/09/2016	CS	0.011	0.54	20	60	25
6632014	400708	6311978	Grab	Blind	F. Por Monz	fractured	buff-grey	15/09/2016	CS	0.015	15.7	90	140	60
6632015	400692	6311982	Comp Gr	Blind	Granodior	fractured	Blue-grey	15/09/2016	CS	0.01	0.13	5	70	25
6632016	400791	6311894	Grab	Blind	Granodior	fractured	Blue-grey	15/09/2016	CS	0.017	0.52	5	120	25
6632017	399985	6310854	SCGrab	Boundary	Maf Volc	Veined	brown	16/09/2016	CS	0.034	1.02	180	450	3170
6632018	400035	6310931	SCGrab	Boundary	Maf Volc	Veined	brown	16/09/2016	CS	0.249	101	252000	25	240
6632019	400031	6310940	SCGrab	Boundary	Maf Volc	Banded vns	brown	16/09/2016	CS	9.66	99.9	145000	270	360
6632020	400431	6313111	Comp Gr	Sand Lake	Maf Volc	breccia	lt grey	16/09/2016	CS	0.007	0.2	220	25	150
6632021	399961	6311090	Comp Gr	Boundary	FelsSubVolc		med grey-grn	16/09/2016	CM	0.005	0.52	390	110	240
6632022	400445	6313092	Grab	Sand Lake	qtz-carb	massive	clr-white	16/09/2016	CM	0.002	0.03	40	25	80
6632023	399911	6318695	Grab	Carcass	Maf tuff	banded	blue/ yellow	18/09/2016	CS	0.588	13.1	3860	380	660
6632024	399933	6318645	Grab	Carcass	Maf tuff	fractured	brown	18/09/2016	CS	0.057	57.7	27200	540	1970
6632025	399933	6318645	Dup 6632024	Carcass	Maf tuff	fractured	brown	18/09/2016	CS	0.047	110	31200	470	1880
6632026	399883	6318949	Grab	Carcass	Maf tuff	Veined	grey/ tan	18/09/2016	CS	48.1	27.6	11200	6090	95700
6632027			Blank					18/09/2016	CM	0.024	0.01	70	25	240
6632028	399913	6319006	Grab	Carcass	Maf tuff	Veined	yellow-tan	18/09/2016	CS	0.16	6.8	1830	180	340
6632029	399926	6319104	Grab	Carcass	Qz vein	fractured	white	18/09/2016	CS	11.9	11.3	5120	5990	103000
6632030	399889	6319238	Grab	Carcass	Qz vein	fractured	Grey/ white	18/09/2016	CS	1.71	19.9	6450	17800	57000
6632031	399911	6319408	Comp Gr	Carcass	Fel Volc	Veined	tan/ white	19/09/2016	CS	2	16.5	15600	870	6570
6632032			Blank					19/09/2016	CM	0.005	0.84	60	25	180
6632033	399967	6319487	Grab	Carcass	Qz vein	fractured	tan	19/09/2016	CS	18.1	151	12700	1900	210
6632034	399970	6319490	Comp Gr	Carcass	FelsVolc	fractured	qtz veined	19/09/2016	CM	1.67	25.7	3680	1890	1240
6632035	399676	6319455	Comp Gr	Carcass	Argillite	Veined	black/white	19/09/2016	CS	0.022	0.7	90	25	25

# APPENDIX D: Surface Sample plan maps with Gold & Copper

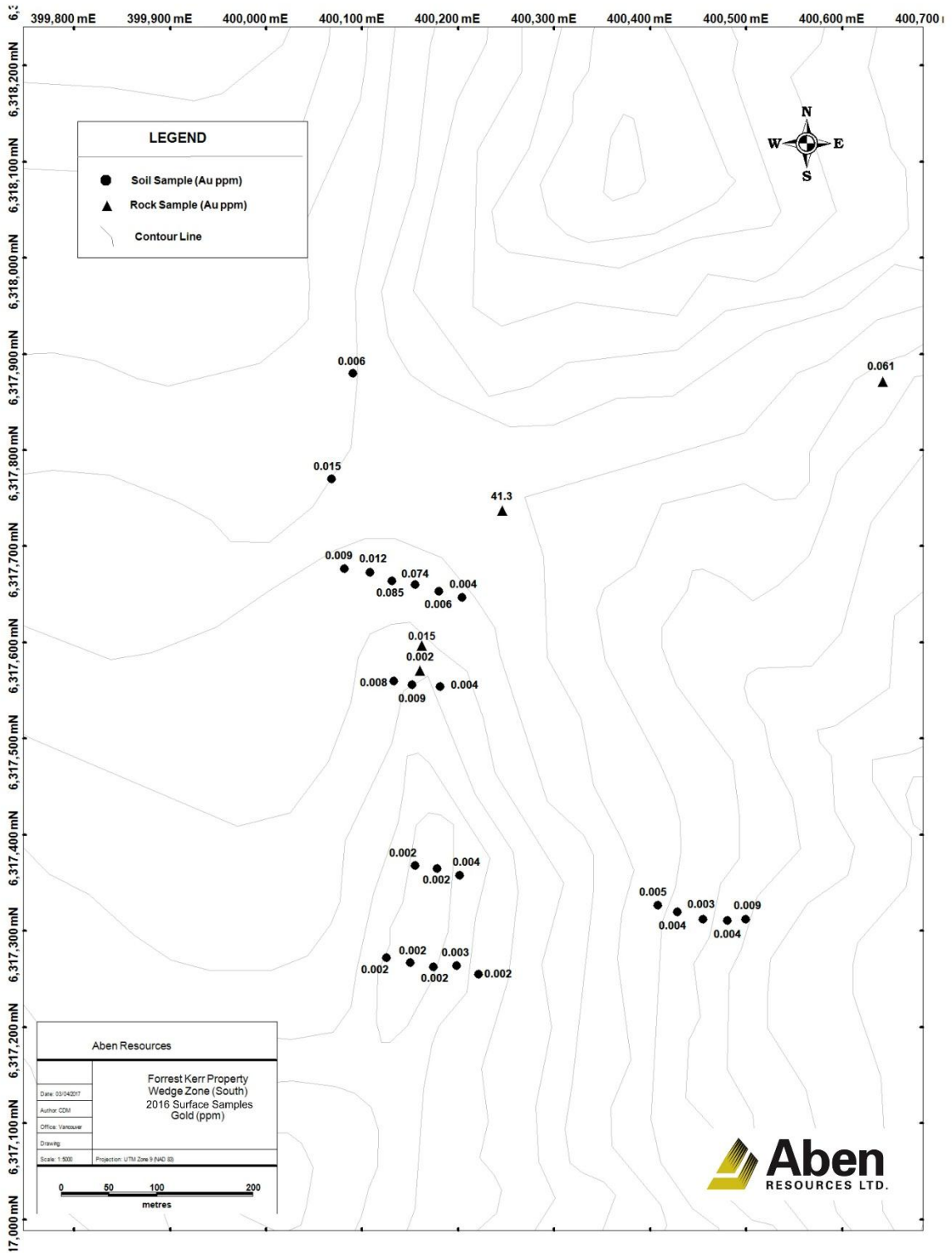


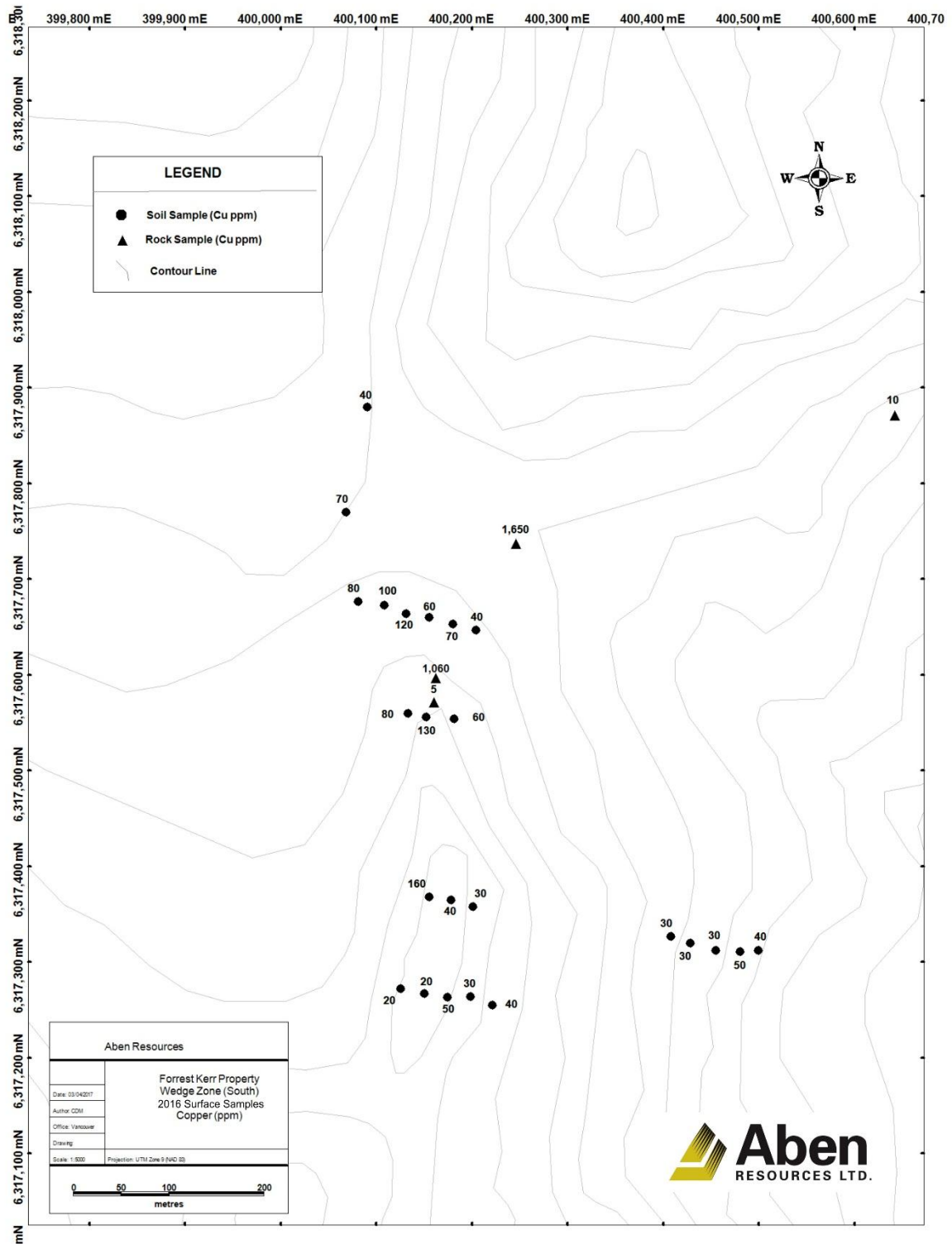


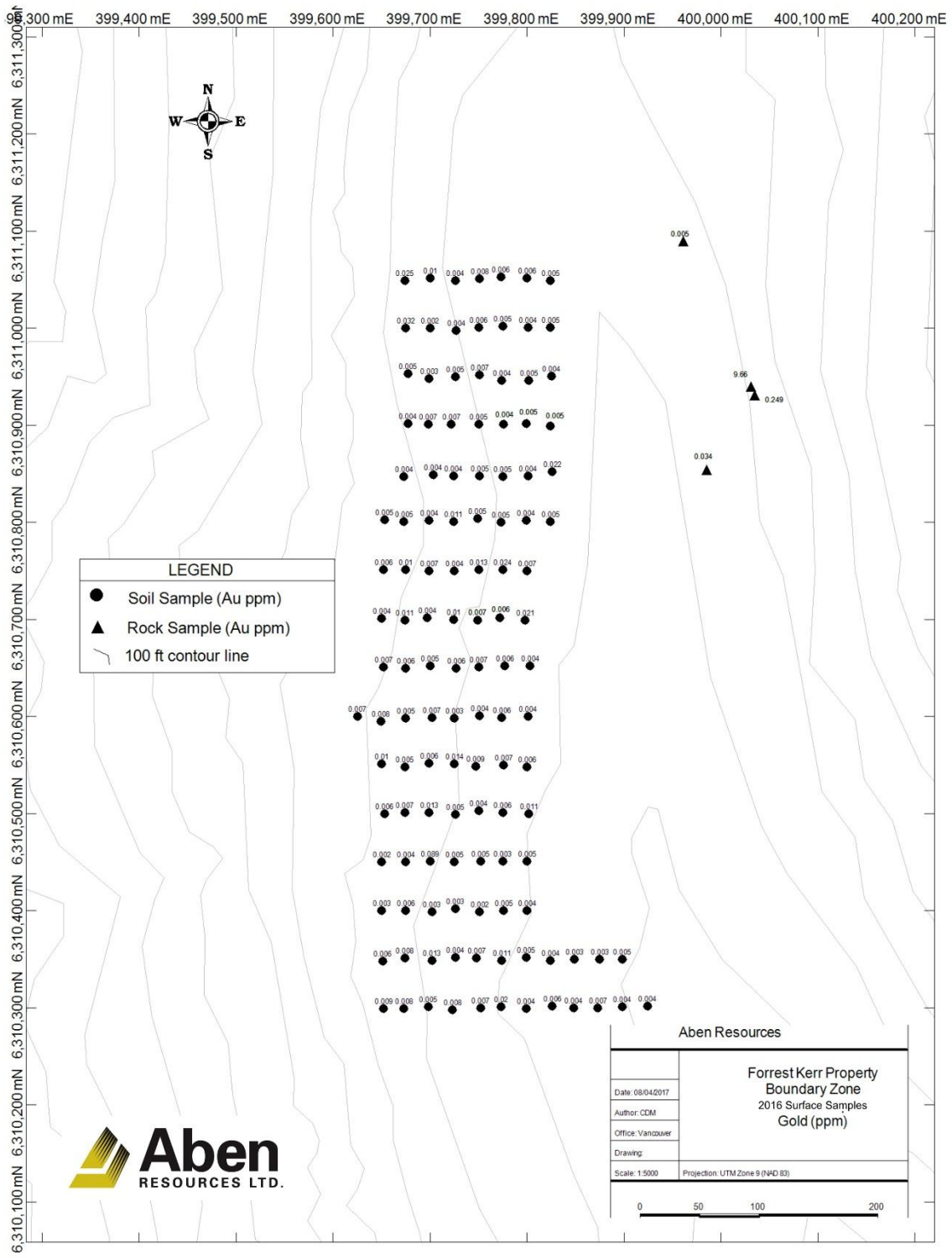


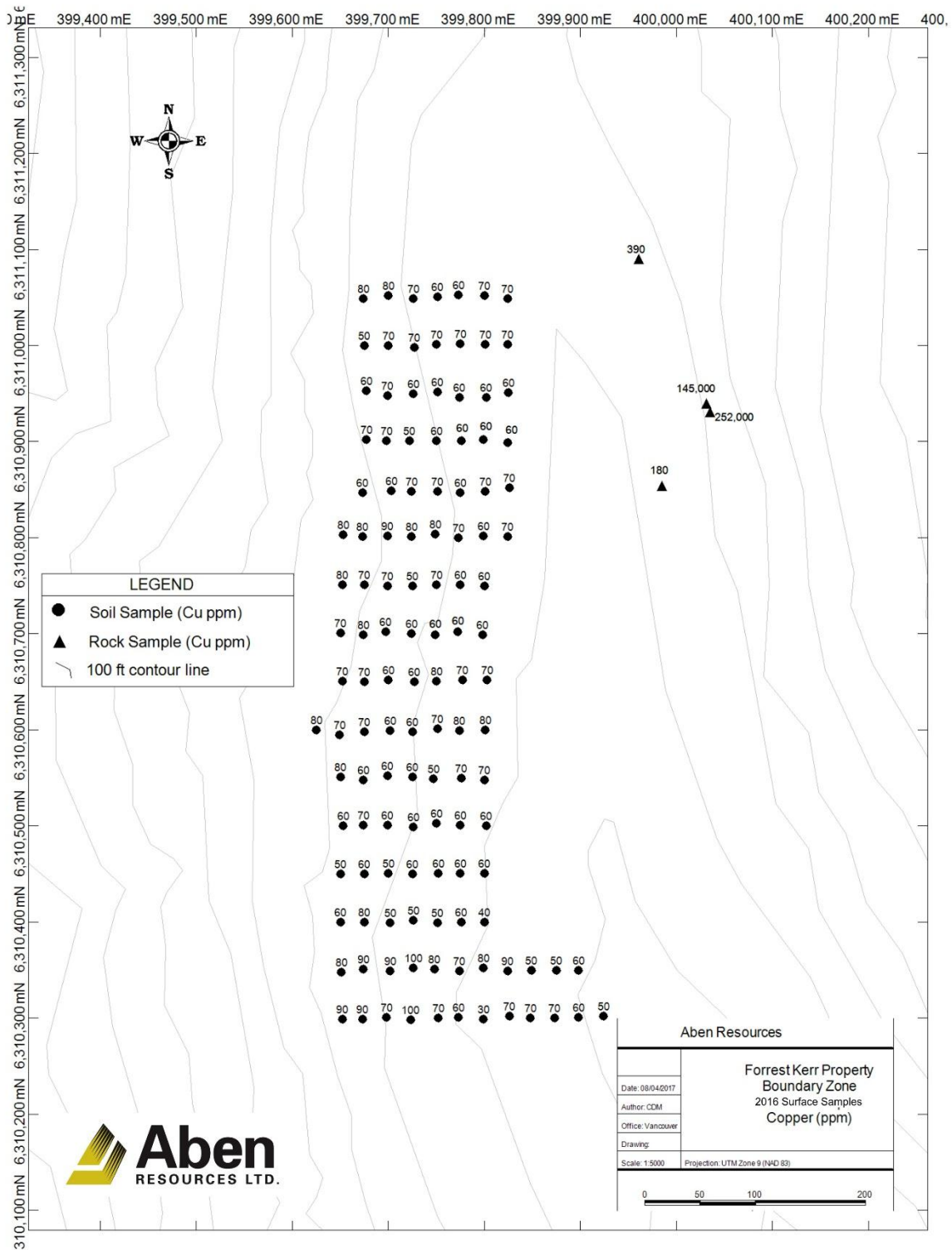


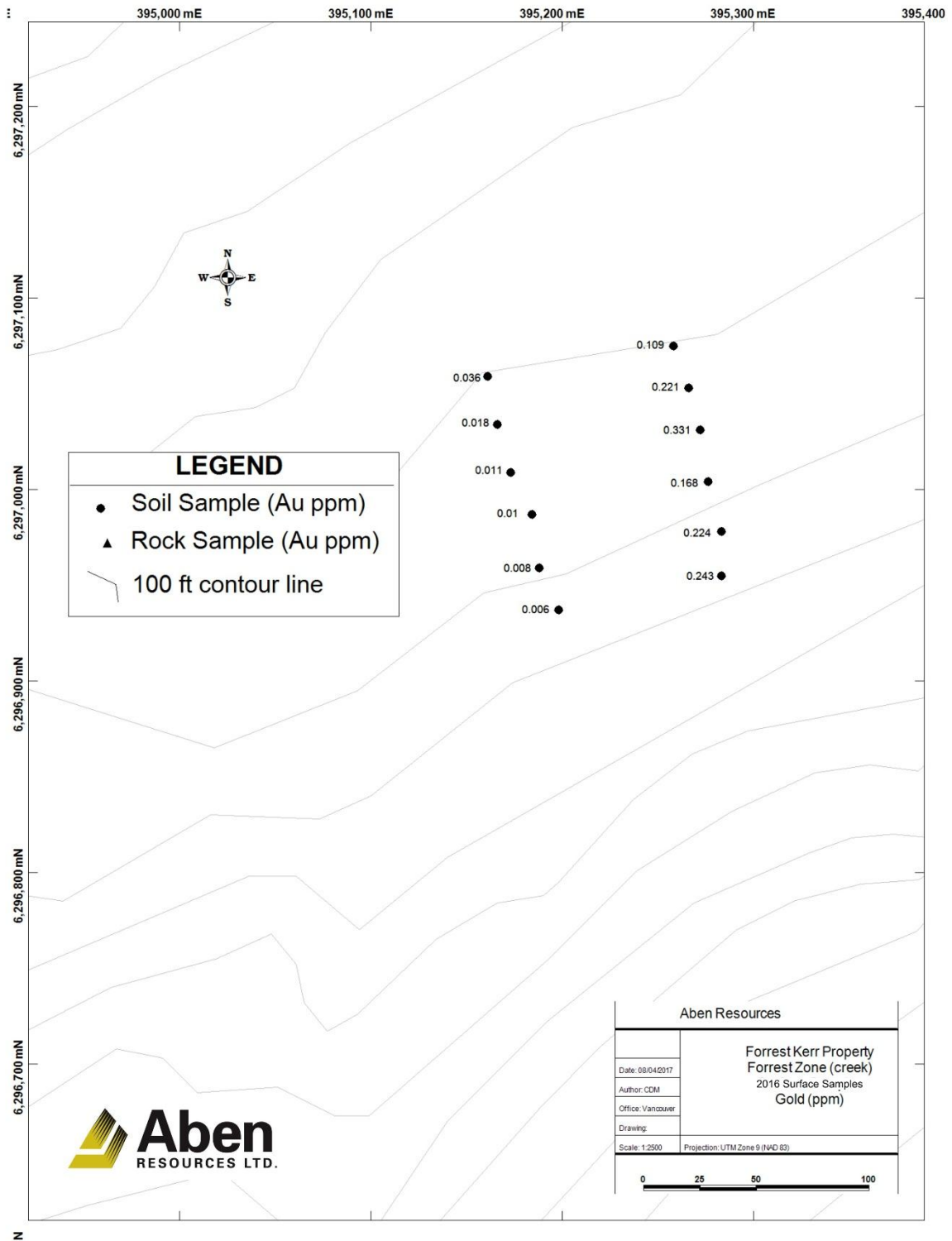


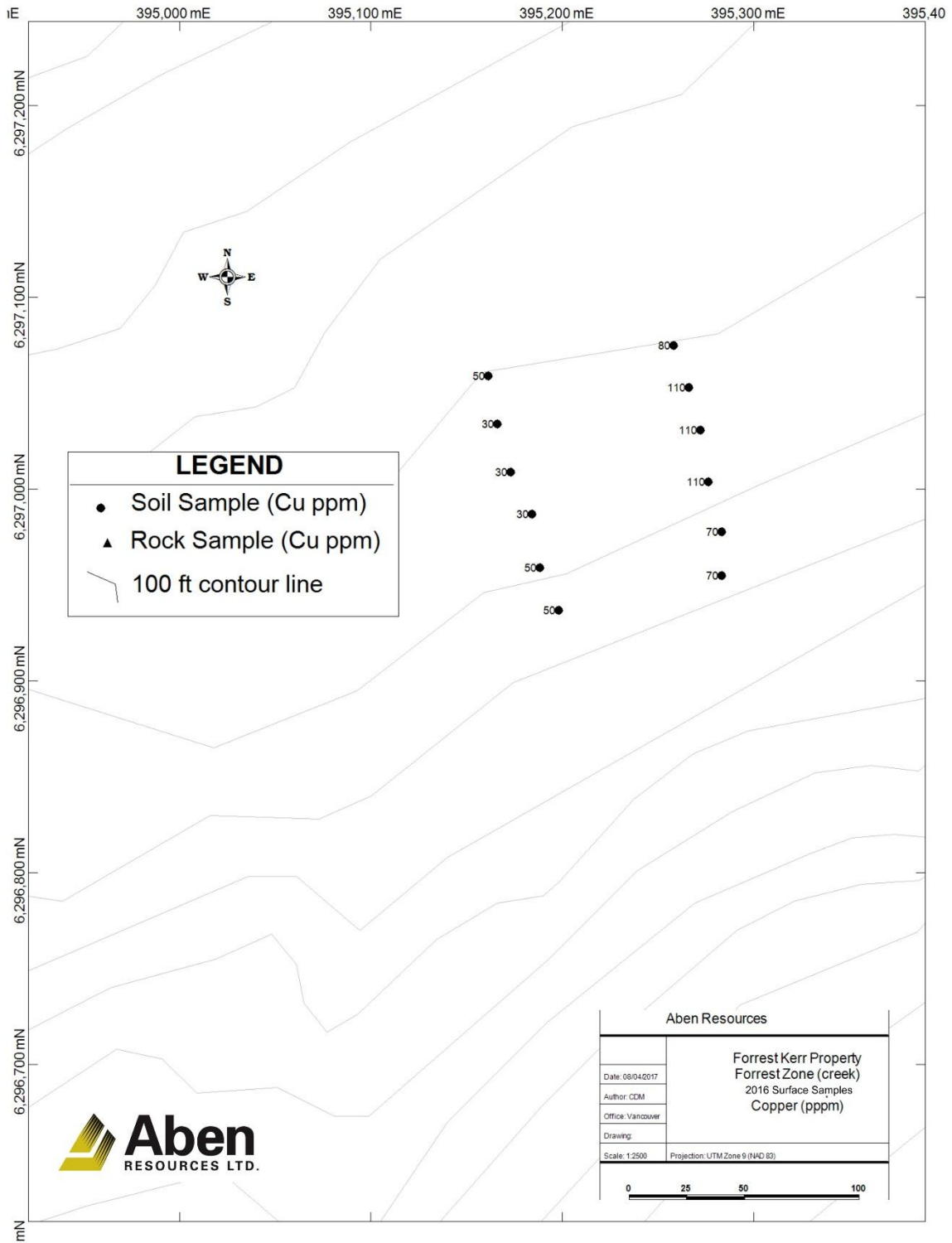


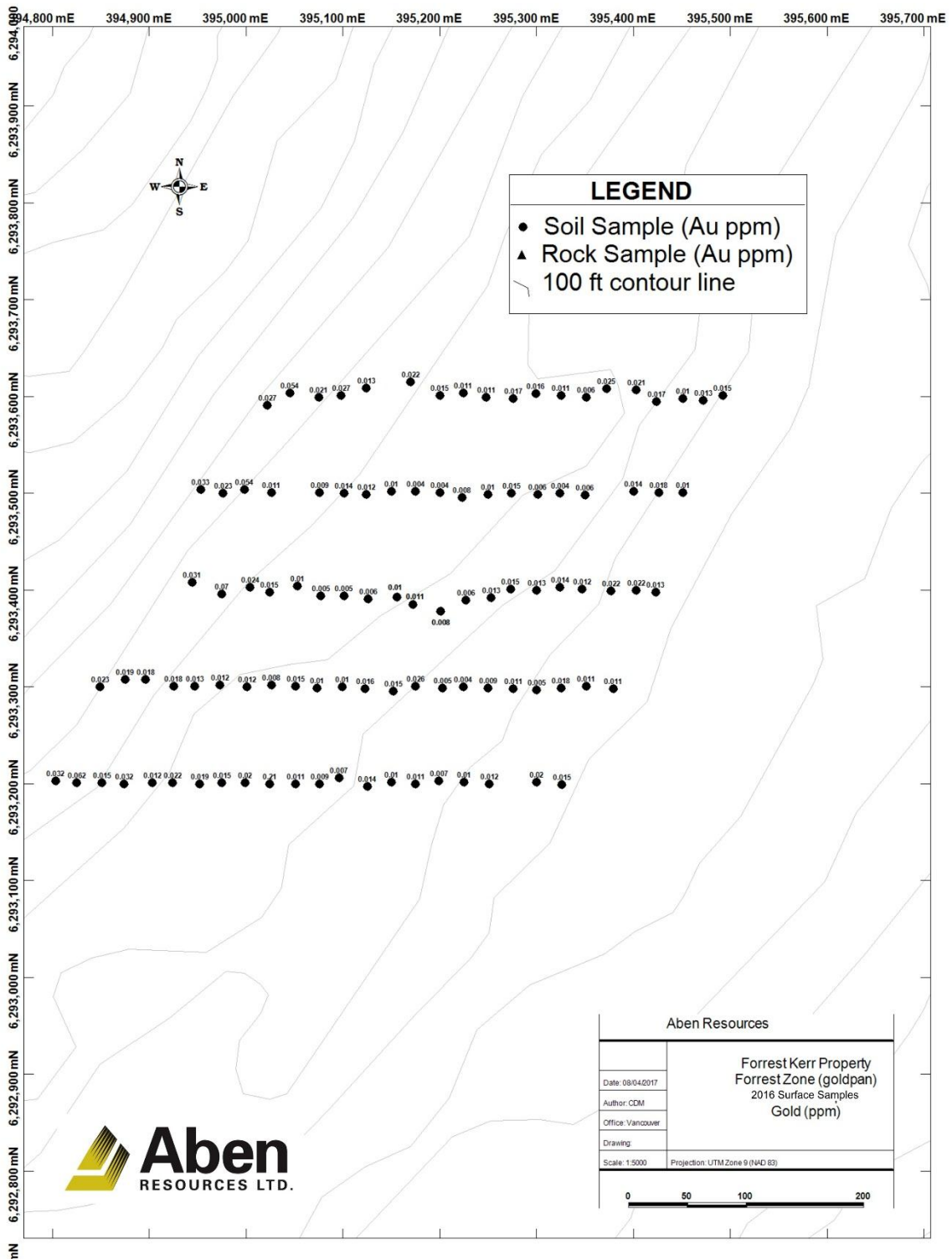


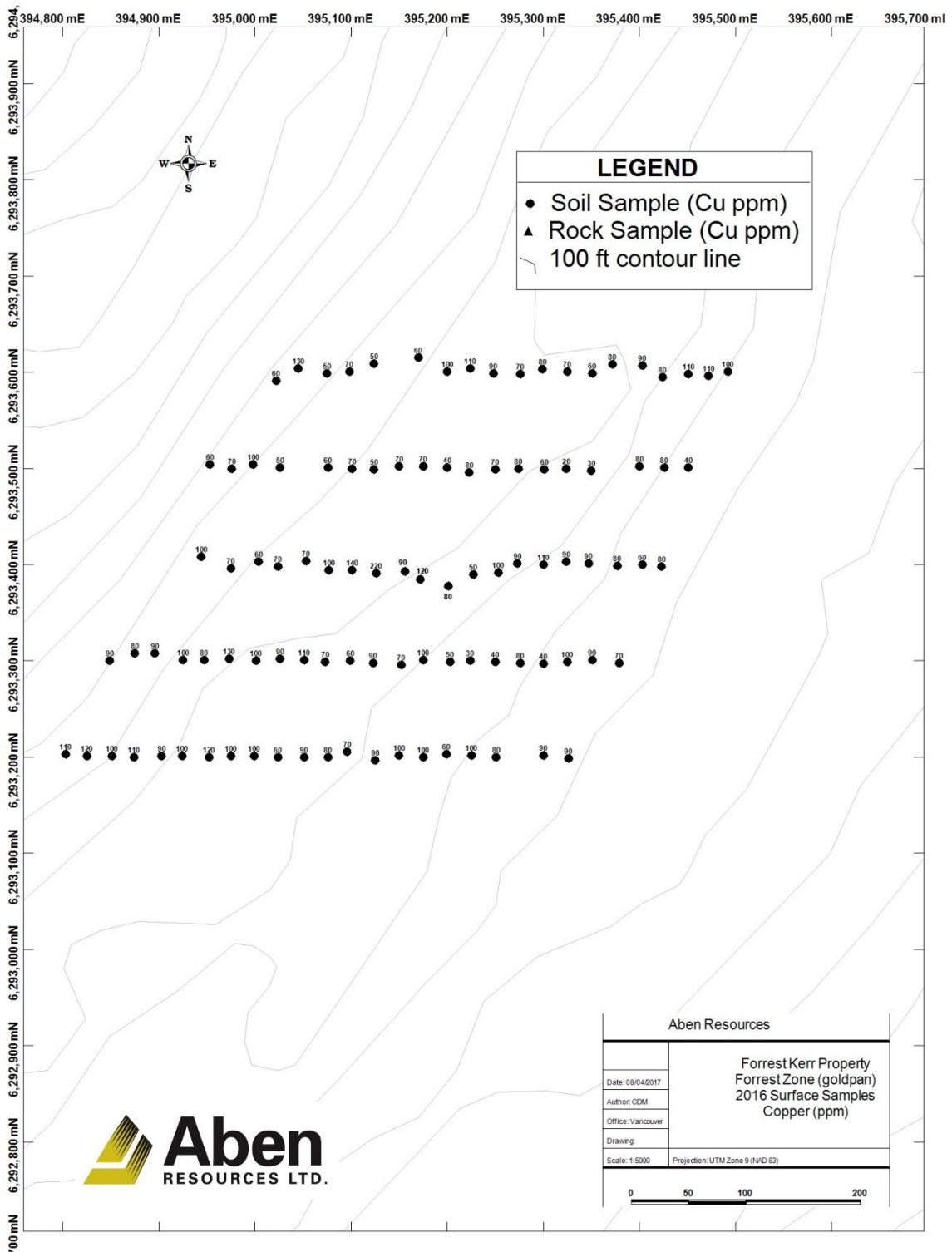














## APPENDIX E: Certificate of Qualified Person

### APPENDIX E: Certificate of Qualified Person

#### CERTIFICATE. C. McDowell

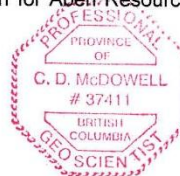
I, Cornell McDowell, of 3507 108st NW Edmonton, Alberta, do hereby certify that:

- 1) I am a professional geologist providing consulting services to the exploration industry with an office at 3507 108st NW Edmonton, Alberta.
- 2) I graduated from the University of Alberta in 2005 with a B.Sc., Specialization in Geology.
- 3) I am a member in good standing in the Association of Professional Engineers and Geoscientists of the Provinces of British Columbia and Alberta.
- 4) I have practiced my profession continuously since 2005. I have had 12 years' experience in ore deposits and mineral exploration while working on a variety of ore deposit types.
- 5) I have read the definition of "qualified person" set out in National Instrument 43-101 and certify that by reason of education and relevant experience I meet the requirements of a Qualified Person as defined in National Instrument 43-101.
- 6) I am the author of this assessment report "2016 Geochemical Report on the Forrest Kerr Property" and am responsible for all parts of it.
- 7) I was present every day on the Forrest Kerr Property during the 2016 field program.
- 8) I act in the capacity of Vice President of Exploration for ~~Aben Resources~~ and therefore am not independent of the issuer.

Dated this 28th day of April, 2017

  
\_\_\_\_\_

(signed) C. McDowell, P.Geol.



(Sealed)

## **APPENDIX F: Analytical Certificates**



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001	
E6631101 (7877997)	8.10	0.016	<0.01	0.16	0.002	<0.005	0.011	7.70	3.28	<0.01	0.469	0.114	<0.005	0.002	
E6631102 (7877998)	7.67	0.009	<0.01	0.61	0.001	0.006	0.006	7.58	1.96	<0.01	0.863	0.076	<0.005	0.003	
E6631103 (7877999)	9.15	<0.005	<0.01	0.46	0.003	0.006	0.008	7.44	2.37	<0.01	0.597	0.172	<0.005	0.003	
E6631104 (7878000)	9.29	0.006	<0.01	0.64	0.002	<0.005	0.005	3.46	3.09	<0.01	0.402	0.068	<0.005	0.002	
E6631105 (7878001)	10.1	<0.005	<0.01	1.02	0.003	<0.005	0.006	4.24	3.26	<0.01	0.459	0.081	<0.005	0.003	
E6631106 (7878002)	10.2	<0.005	<0.01	0.77	0.003	0.007	0.006	5.38	3.19	<0.01	0.503	0.092	<0.005	0.004	
E6631107 (7878003)	10.6	0.006	<0.01	0.69	0.003	0.006	0.007	5.45	3.22	<0.01	0.500	0.081	<0.005	0.004	
E6631108 (7878004)	8.99	0.006	<0.01	1.84	0.003	0.007	0.006	5.56	2.68	<0.01	0.818	0.124	<0.005	0.004	
E6631109 (7878005)	6.79	<0.005	<0.01	2.17	0.002	<0.005	0.006	4.85	2.22	<0.01	0.538	0.117	<0.005	0.003	
E6631110 (7878006)	10.8	0.007	<0.01	0.55	0.002	<0.005	0.006	5.64	3.83	<0.01	0.443	0.148	<0.005	0.002	
E6631111 (7878007)	11.1	0.006	<0.01	0.38	0.001	<0.005	0.006	5.50	4.09	<0.01	0.457	0.091	<0.005	0.002	
E6631112 (7878008)	10.4	0.016	<0.01	0.40	0.003	<0.005	0.007	6.59	3.74	<0.01	0.350	0.283	<0.005	0.004	
E6631113 (7878009)	9.44	<0.005	<0.01	0.85	0.002	<0.005	0.007	4.61	2.83	<0.01	0.494	0.082	<0.005	0.003	
E6631114 (7878010)	8.47	0.007	<0.01	1.06	0.003	0.008	0.012	6.17	2.05	<0.01	1.20	0.119	<0.005	0.004	
E6631115 (7878011)	7.98	<0.005	<0.01	0.57	0.002	0.006	0.009	5.46	2.72	<0.01	0.481	0.164	<0.005	0.002	
E6631116 (7878012)	6.65	0.007	<0.01	1.02	0.004	0.008	0.020	9.39	2.19	<0.01	0.625	0.350	<0.005	0.003	
E6631117 (7878013)	4.10	0.010	<0.01	1.15	0.004	0.005	0.015	5.60	1.54	<0.01	0.458	0.156	<0.005	0.003	
E6631118 (7878014)	5.61	0.017	<0.01	0.95	0.008	0.020	0.012	13.0	2.63	<0.01	1.02	0.206	<0.005	0.007	
E6631119 (7878015)	6.50	<0.005	<0.01	0.47	0.001	0.007	0.009	9.38	1.92	<0.01	0.686	0.074	<0.005	0.002	
E6631120 (7878016)	5.48	<0.005	<0.01	0.31	0.001	0.005	0.006	6.84	1.05	<0.01	0.494	0.044	<0.005	0.002	
E6631121 (7878017)	6.06	<0.005	<0.01	0.75	0.002	<0.005	0.009	5.84	1.36	<0.01	0.488	0.227	<0.005	0.002	
E6631122 (7878018)	7.59	0.006	<0.01	0.24	0.003	<0.005	0.008	5.69	2.05	<0.01	0.437	0.253	<0.005	0.002	
E6631123 (7878019)	3.26	<0.005	<0.01	0.16	<0.001	<0.005	0.006	1.90	1.06	<0.01	0.169	0.019	<0.005	0.002	
E6631124 (7878020)	5.58	0.007	<0.01	0.84	0.003	<0.005	0.012	4.46	1.44	<0.01	0.465	0.316	<0.005	0.002	
E6631125 (7878021)	8.11	<0.005	<0.01	0.23	0.001	<0.005	0.008	5.62	1.69	<0.01	0.486	0.036	<0.005	0.002	
E6631126 (7878022)	8.41	0.005	<0.01	0.34	0.002	<0.005	0.008	5.84	1.98	<0.01	0.471	0.163	<0.005	0.002	
E6631127 (7878023)	6.03	<0.005	<0.01	0.21	<0.001	<0.005	0.003	4.20	1.59	<0.01	0.327	0.113	<0.005	<0.001	
E6631128 (7878024)	8.98	<0.005	<0.01	0.46	0.002	<0.005	0.007	6.10	1.68	<0.01	0.546	0.121	<0.005	0.002	
E6631129 (7878025)	8.55	<0.005	<0.01	0.58	0.002	<0.005	0.006	5.26	2.01	<0.01	0.783	0.588	<0.005	0.002	
E6631130 (7878026)	6.16	<0.005	<0.01	0.48	<0.001	<0.005	0.008	3.39	1.60	<0.01	0.249	0.045	<0.005	0.001	
E6631131 (7878027)	6.32	<0.005	<0.01	0.27	<0.001	<0.005	0.007	6.09	1.62	<0.01	0.371	0.077	<0.005	0.002	
E6631132 (7878028)	6.68	<0.005	<0.01	0.32	0.002	0.007	0.012	8.03	2.57	<0.01	0.514	0.181	<0.005	0.004	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001	
E6631133 (7878029)	4.95	0.006	<0.01	0.35	0.003	0.006	0.010	8.08	1.81	<0.01	0.453	0.201	<0.005	0.003	
E6631134 (7878030)	6.72	<0.005	<0.01	0.48	0.001	<0.005	0.008	6.59	1.46	<0.01	0.545	0.071	<0.005	0.002	
E6631135 (7878031)	7.45	0.011	<0.01	0.73	0.003	<0.005	0.008	7.57	1.57	<0.01	0.655	0.345	<0.005	0.002	
E6631136 (7878032)	8.48	<0.005	<0.01	0.82	0.002	<0.005	0.009	5.20	1.60	<0.01	0.846	0.194	<0.005	0.002	
E6631137 (7878033)	6.99	<0.005	<0.01	1.97	0.004	0.009	0.010	7.14	3.16	<0.01	0.607	0.128	<0.005	0.006	
E6631138 (7878034)	7.63	<0.005	<0.01	1.50	0.003	0.007	0.009	5.57	3.54	<0.01	0.520	0.105	<0.005	0.004	
E6631139 (7878035)	9.95	<0.005	<0.01	0.18	0.002	<0.005	0.006	6.98	6.01	<0.01	0.385	1.59	<0.005	0.002	
E6631140 (7878036)	9.26	0.006	<0.01	0.58	0.001	0.006	0.013	5.56	5.22	<0.01	0.508	0.263	<0.005	0.003	
E6631141 (7878037)	10.0	<0.005	<0.01	0.29	0.001	0.005	0.008	4.47	5.35	<0.01	0.575	0.165	<0.005	0.003	
E6631142 (7878038)	8.84	<0.005	<0.01	0.76	0.002	<0.005	0.008	4.92	5.63	<0.01	0.756	0.312	<0.005	0.002	
E6631143 (7878039)	10.2	<0.005	<0.01	0.12	0.001	<0.005	0.010	4.70	7.71	<0.01	0.455	0.604	<0.005	0.001	
E6631144 (7878040)	9.31	0.007	<0.01	0.12	0.001	<0.005	0.012	4.53	6.78	<0.01	0.429	0.508	<0.005	0.002	
E6631145 (7878041)	10.0	<0.005	<0.01	0.24	0.001	<0.005	0.006	3.92	6.46	<0.01	0.418	0.320	<0.005	0.002	
E6631146 (7878042)	9.92	<0.005	<0.01	1.85	0.003	0.032	0.007	6.30	5.52	<0.01	1.09	0.200	<0.005	0.016	
E6631147 (7878043)	9.96	<0.005	<0.01	0.55	0.001	0.006	0.004	4.51	4.66	<0.01	0.722	0.190	<0.005	0.003	
E6631148 (7878044)	9.03	<0.005	<0.01	0.09	<0.001	<0.005	0.007	4.00	8.04	<0.01	0.262	0.513	<0.005	0.001	
E6631149 (7878045)	9.05	<0.005	<0.01	0.30	0.001	<0.005	0.004	4.02	5.09	<0.01	0.561	0.339	<0.005	0.002	
E6631150 (7878046)	8.88	<0.005	<0.01	0.16	<0.001	<0.005	0.002	4.14	4.10	<0.01	0.400	0.117	<0.005	0.001	
E6631151 (7878047)	8.48	<0.005	<0.01	<0.05	0.001	<0.005	0.002	2.91	5.57	<0.01	0.246	0.256	<0.005	0.001	
E6631152 (7878049)	9.47	0.008	<0.01	0.10	<0.001	0.017	0.005	4.63	4.85	<0.01	0.338	0.130	<0.005	0.004	
E6631153 (7878050)	10.2	<0.005	<0.01	0.59	0.002	<0.005	0.003	4.75	5.78	<0.01	0.487	0.541	<0.005	0.002	
E6631154 (7878051)	9.32	<0.005	<0.01	0.25	0.002	<0.005	0.004	5.04	5.51	<0.01	0.358	0.673	<0.005	0.002	
E6631155 (7878052)	10.0	0.014	0.02	0.19	0.005	0.031	0.016	7.34	5.58	<0.01	0.527	0.302	<0.005	0.020	
E6631156 (7878053)	8.75	<0.005	<0.01	0.23	0.002	0.008	0.004	4.18	5.54	<0.01	0.372	0.499	0.005	0.005	
E6631157 (7878054)	9.64	<0.005	<0.01	0.21	0.002	0.007	0.003	5.44	6.81	<0.01	0.333	0.658	<0.005	0.004	
E6631158 (7878055)	9.76	<0.005	<0.01	0.17	<0.001	<0.005	0.003	4.07	5.74	<0.01	0.444	0.394	<0.005	0.001	
E6631159 (7878056)	10.1	<0.005	<0.01	<0.05	0.001	<0.005	0.003	3.95	5.56	<0.01	0.447	0.477	<0.005	0.001	
E6631160 (7878057)	9.20	<0.005	<0.01	<0.05	<0.001	<0.005	0.003	3.91	5.32	<0.01	0.377	0.301	<0.005	0.001	
E6631161 (7878058)	8.48	<0.005	<0.01	0.35	0.002	<0.005	0.005	5.13	4.23	<0.01	0.435	0.247	<0.005	0.002	
E6631162 (7878059)	8.12	<0.005	<0.01	0.50	0.002	<0.005	0.004	5.20	4.25	<0.01	0.447	0.396	<0.005	0.002	
E6631163 (7878060)	7.71	0.009	<0.01	1.94	0.004	0.016	0.008	6.33	1.21	<0.01	1.59	0.169	<0.005	0.009	
E6631164 (7878061)	7.16	0.022	<0.01	2.19	0.005	0.013	0.006	6.80	1.12	<0.01	1.77	0.304	<0.005	0.009	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016

DATE RECEIVED: Sep 27, 2016

DATE REPORTED: Oct 24, 2016

SAMPLE TYPE: Other

Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001
E6631165 (7878062)	6.94	0.008	<0.01	2.96	0.003	0.013	0.005	5.90	1.03	<0.01	1.38	0.234	<0.005	0.009
E6631166 (7878063)	8.35	0.007	<0.01	5.44	0.007	0.020	0.010	9.35	1.00	<0.01	1.78	0.176	<0.005	0.024
E6631167 (7878064)	6.80	0.011	<0.01	2.02	0.002	0.015	0.005	5.38	1.36	<0.01	0.933	0.174	<0.005	0.007
E6631168 (7878065)	7.15	0.008	<0.01	3.80	0.005	0.021	0.008	8.04	1.02	<0.01	1.81	0.178	<0.005	0.019
E6631169 (7878066)	6.07	0.007	<0.01	2.78	0.004	0.014	0.006	5.90	1.00	<0.01	1.24	0.153	<0.005	0.011
E6631170 (7878067)	6.61	0.006	<0.01	2.87	0.004	0.016	0.006	7.32	0.91	<0.01	1.79	0.165	<0.005	0.010
E6631171 (7878068)	4.99	<0.005	<0.01	2.81	0.002	0.009	0.006	4.59	0.82	<0.01	0.871	0.181	<0.005	0.006
E6631172 (7878069)	5.81	<0.005	<0.01	2.49	0.003	0.012	0.006	5.96	0.88	<0.01	1.28	0.158	<0.005	0.008
E6631173 (7878070)	7.62	<0.005	<0.01	1.55	0.003	0.010	0.007	6.87	1.71	<0.01	1.16	0.200	<0.005	0.007
E6631174 (7878071)	6.84	0.005	<0.01	0.94	0.002	0.006	0.005	6.26	1.29	<0.01	0.735	0.193	<0.005	0.003
E6631175 (7878072)	6.47	<0.005	<0.01	0.59	<0.001	0.006	0.003	4.67	1.36	<0.01	0.446	0.119	<0.005	0.002
E6631176 (7878073)	5.24	<0.005	<0.01	0.40	<0.001	<0.005	0.003	4.41	0.92	<0.01	0.487	0.030	<0.005	0.002
E6631177 (7878074)	6.87	<0.005	<0.01	0.64	<0.001	<0.005	0.003	3.12	1.02	<0.01	0.622	0.055	<0.005	0.002
E6631178 (7878075)	6.87	<0.005	<0.01	0.64	0.001	0.007	0.005	4.00	1.18	<0.01	0.832	0.062	<0.005	0.002
E6631179 (7878076)	7.43	<0.005	<0.01	0.52	<0.001	0.009	0.005	4.57	1.15	<0.01	0.574	0.034	<0.005	0.019
E6631180 (7878077)	6.37	0.012	<0.01	0.38	0.004	0.006	0.007	8.29	1.29	<0.01	0.498	0.415	<0.005	0.003
E6631181 (7878078)	5.23	0.011	<0.01	0.40	0.002	<0.005	0.007	6.44	1.06	<0.01	0.535	0.194	<0.005	0.002
E6631182 (7878079)	6.87	0.027	<0.01	0.45	0.003	<0.005	0.011	8.93	1.42	<0.01	0.664	0.311	<0.005	0.003
E6631183 (7878080)	6.67	0.023	<0.01	0.36	0.004	0.007	0.011	8.29	1.43	<0.01	0.644	0.342	<0.005	0.002
E6631184 (7878081)	6.88	0.022	<0.01	0.44	0.003	0.006	0.011	8.04	1.39	<0.01	0.648	0.320	<0.005	0.002
E6631185 (7878082)	6.62	0.017	<0.01	0.71	0.003	0.005	0.008	7.31	1.35	<0.01	0.680	0.274	<0.005	0.003
E6631186 (7878083)	9.41	<0.005	<0.01	2.20	0.003	0.009	0.007	8.56	1.04	<0.01	2.49	0.248	<0.005	0.004
E6631187 (7878084)	9.11	<0.005	<0.01	1.83	0.003	0.009	0.007	8.00	1.13	<0.01	2.32	0.256	<0.005	0.004
E6631188 (7878085)	8.70	<0.005	<0.01	2.06	0.003	0.008	0.006	8.08	1.09	<0.01	2.25	0.229	<0.005	0.003
E6631189 (7878086)	8.98	<0.005	<0.01	1.71	0.003	0.007	0.006	7.75	1.39	<0.01	1.92	0.218	<0.005	0.003
E6631190 (7878087)	8.78	<0.005	<0.01	2.30	0.003	0.009	0.007	8.24	0.72	<0.01	2.61	0.248	<0.005	0.003
E6631191 (7878088)	9.58	<0.005	<0.01	1.18	0.003	0.007	0.008	7.55	1.89	<0.01	1.86	0.250	<0.005	0.003
E6631192 (7878089)	10.4	<0.005	<0.01	0.25	0.003	<0.005	0.008	7.80	2.89	<0.01	1.22	0.374	<0.005	0.003
E6631193 (7878090)	7.61	<0.005	<0.01	0.38	0.002	<0.005	0.005	5.72	1.66	<0.01	0.872	0.172	<0.005	0.002
E6631194 (7878091)	8.77	<0.005	<0.01	2.50	0.003	0.009	0.007	8.82	0.63	<0.01	2.59	0.239	<0.005	0.003
E6631195 (7878092)	9.17	<0.005	<0.01	2.50	0.003	0.009	0.007	8.34	0.83	<0.01	2.45	0.238	<0.005	0.003
E6631196 (7878093)	8.87	<0.005	<0.01	2.33	0.003	0.009	0.007	8.15	0.83	<0.01	2.44	0.225	<0.005	0.004

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001	
E6631197 (7878094)	9.40	<0.005	<0.01	2.47	0.003	0.010	0.007	8.60	0.92	<0.01	2.53	0.233	<0.005	0.004	
E6631198 (7878095)	9.03	<0.005	<0.01	2.41	0.003	0.009	0.007	8.37	0.83	<0.01	2.46	0.236	<0.005	0.004	
E6631199 (7878096)	8.79	<0.005	<0.01	2.53	0.003	0.010	0.007	8.55	0.79	<0.01	2.47	0.203	<0.005	0.004	
E6631200 (7878097)	8.83	<0.005	<0.01	2.69	0.003	0.009	0.006	7.97	0.65	<0.01	2.34	0.226	<0.005	0.004	
E6631201 (7878098)	8.93	<0.005	<0.01	2.75	0.003	0.009	0.006	8.19	0.67	<0.01	2.38	0.233	<0.005	0.003	
E6631202 (7878099)	8.69	<0.005	<0.01	2.73	0.003	0.009	0.006	8.27	0.62	<0.01	2.26	0.251	<0.005	0.003	
E6631203 (7878100)	8.90	<0.005	<0.01	2.52	0.003	0.009	0.006	8.11	0.77	<0.01	2.40	0.218	<0.005	0.004	
E6631204 (7878101)	8.83	<0.005	<0.01	2.58	0.003	0.009	0.006	8.13	0.70	<0.01	2.46	0.219	<0.005	0.004	
E6631205 (7878102)	9.20	<0.005	<0.01	2.47	0.003	0.009	0.007	8.55	0.82	<0.01	2.52	0.230	<0.005	0.004	
E6631206 (7878103)	9.34	<0.005	<0.01	3.06	0.003	0.009	0.006	8.25	0.89	<0.01	2.39	0.197	<0.005	0.003	
E6631207 (7878104)	8.99	<0.005	<0.01	2.65	0.003	0.009	0.007	8.33	0.75	<0.01	2.46	0.234	<0.005	0.003	
E6631208 (7878105)	9.00	<0.005	<0.01	2.72	0.003	0.009	0.007	8.28	0.72	<0.01	2.39	0.232	<0.005	0.003	
E6631209 (7878106)	8.98	<0.005	<0.01	3.01	0.003	0.009	0.005	7.91	0.66	<0.01	2.37	0.194	<0.005	0.004	
E6631210 (7878107)	9.17	<0.005	<0.01	2.78	0.003	0.010	0.006	8.50	0.74	<0.01	2.57	0.215	<0.005	0.004	
E6631211 (7878108)	9.38	<0.005	<0.01	2.70	0.003	0.009	0.006	8.25	0.72	<0.01	2.55	0.197	<0.005	0.004	
E6631212 (7878109)	9.08	<0.005	<0.01	2.75	0.003	0.010	0.006	8.46	0.76	<0.01	2.56	0.230	<0.005	0.004	
E6631213 (7878110)	9.11	<0.005	<0.01	2.75	0.003	0.011	0.006	8.26	0.70	<0.01	2.57	0.216	<0.005	0.004	
E6631214 (7878111)	9.35	<0.005	<0.01	3.17	0.003	0.012	0.007	8.50	0.65	<0.01	2.88	0.226	<0.005	0.004	
E6631215 (7878112)	8.93	<0.005	<0.01	3.01	0.003	0.011	0.007	7.81	0.60	<0.01	2.56	0.208	<0.005	0.004	
E6631216 (7878113)	8.88	<0.005	<0.01	3.10	0.004	0.011	0.006	7.99	0.57	<0.01	2.58	0.223	<0.005	0.004	
E6631217 (7878114)	9.08	<0.005	<0.01	3.02	0.003	0.012	0.007	8.18	0.62	<0.01	2.80	0.236	<0.005	0.004	
E6631218 (7878115)	9.26	<0.005	<0.01	3.07	0.003	0.012	0.007	8.43	0.64	<0.01	2.88	0.231	<0.005	0.004	
E6631219 (7878116)	9.04	<0.005	<0.01	3.08	0.003	0.011	0.006	7.99	0.61	<0.01	2.71	0.228	<0.005	0.004	
E6631220 (7878117)	9.03	<0.005	<0.01	3.03	0.003	0.011	0.006	8.31	0.58	<0.01	2.63	0.222	<0.005	0.004	
E6631221 (7878118)	9.68	<0.005	<0.01	3.04	0.003	0.010	0.008	8.74	0.93	<0.01	2.91	0.229	<0.005	0.004	
E6631222 (7878119)	9.25	<0.005	<0.01	4.02	0.004	0.012	0.008	8.74	0.79	<0.01	3.00	0.213	<0.005	0.009	
E6631223 (7878120)	9.46	<0.005	<0.01	2.59	0.004	0.011	0.009	8.66	0.93	<0.01	3.06	0.247	0.005	0.004	
E6631224 (7878121)	9.07	<0.005	<0.01	2.22	0.004	0.010	0.008	8.54	0.82	<0.01	2.82	0.272	<0.005	0.004	
E6631225 (7878122)	8.88	<0.005	<0.01	2.83	0.004	0.012	0.008	8.81	0.70	<0.01	2.84	0.267	<0.005	0.004	
E6631226 (7878123)	9.00	<0.005	<0.01	3.07	0.003	0.011	0.007	8.24	0.65	<0.01	2.67	0.213	<0.005	0.004	
E6631227 (7878124)	9.05	<0.005	<0.01	2.60	0.003	0.010	0.006	8.07	0.71	<0.01	2.68	0.216	<0.005	0.004	
E6631228 (7878125)	8.73	<0.005	<0.01	2.79	0.003	0.011	0.007	8.13	0.68	<0.01	2.52	0.208	<0.005	0.004	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016

DATE RECEIVED: Sep 27, 2016

DATE REPORTED: Oct 24, 2016

SAMPLE TYPE: Other

Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001
E6631229 (7878126)	8.95	<0.005	<0.01	2.31	0.003	0.010	0.006	7.74	0.94	<0.01	2.51	0.215	<0.005	0.004
E6631230 (7878127)	8.97	<0.005	<0.01	2.16	0.003	0.008	0.006	7.16	0.88	<0.01	2.31	0.181	<0.005	0.003
E6631231 (7878128)	9.06	<0.005	<0.01	2.39	0.003	0.009	0.007	8.20	0.91	<0.01	2.50	0.238	<0.005	0.004
E6631232 (7878129)	9.25	<0.005	<0.01	1.31	0.002	0.007	0.005	6.39	1.62	<0.01	2.11	0.145	<0.005	0.003
E6631233 (7878130)	9.29	<0.005	<0.01	3.25	0.003	0.010	0.007	8.44	0.71	<0.01	2.76	0.221	<0.005	0.004
E6631234 (7878131)	9.00	<0.005	<0.01	2.74	0.003	0.011	0.007	8.63	0.89	<0.01	2.66	0.254	<0.005	0.004
E6631235 (7878132)	8.79	<0.005	<0.01	2.78	0.004	0.011	0.008	8.64	0.67	<0.01	2.84	0.258	<0.005	0.004
E6631236 (7878133)	9.65	<0.005	<0.01	2.35	0.003	0.007	0.007	7.83	1.23	<0.01	2.53	0.207	<0.005	0.003
E6631237 (7878134)	9.26	<0.005	<0.01	1.81	0.003	0.008	0.008	8.03	1.11	<0.01	2.44	0.237	<0.005	0.003
E6631238 (7878135)	9.10	<0.005	<0.01	2.06	0.003	0.007	0.006	7.33	0.95	<0.01	2.27	0.197	<0.005	0.003
E6631239 (7878136)	9.20	<0.005	<0.01	3.09	0.003	0.007	0.006	7.79	0.99	<0.01	2.43	0.203	<0.005	0.003
E6631240 (7878137)	8.42	<0.005	<0.01	1.74	0.003	0.007	0.006	7.11	0.89	<0.01	2.17	0.191	<0.005	0.003
E6631241 (7878138)	7.87	<0.005	<0.01	2.85	0.003	0.009	0.006	6.84	0.84	<0.01	2.06	0.164	<0.005	0.003
E6631242 (7878139)	8.80	<0.005	<0.01	2.49	0.003	0.009	0.006	7.43	1.01	<0.01	2.24	0.183	<0.005	0.004
E6631243 (7878140)	8.83	<0.005	<0.01	1.81	0.003	0.007	0.007	7.32	1.23	<0.01	2.19	0.214	<0.005	0.003
E6631244 (7878141)	8.84	<0.005	<0.01	1.93	0.003	0.007	0.007	7.34	1.15	<0.01	2.13	0.212	<0.005	0.003
E6631245 (7878142)	8.94	<0.005	<0.01	1.81	0.003	0.008	0.008	7.39	1.25	<0.01	2.30	0.193	<0.005	0.003
E6631246 (7878143)	8.46	<0.005	<0.01	1.86	0.002	0.007	0.006	6.77	1.11	<0.01	2.09	0.186	<0.005	0.003
E6631247 (7878144)	9.41	<0.005	<0.01	2.59	0.002	0.008	0.006	6.74	1.76	<0.01	2.22	0.154	<0.005	0.003
E6631248 (7878145)	9.05	<0.005	<0.01	1.94	0.002	0.009	0.007	6.87	1.52	<0.01	2.18	0.174	<0.005	0.005
E6631249 (7878146)	9.43	<0.005	<0.01	1.42	0.002	0.007	0.007	6.58	1.56	<0.01	2.29	0.187	<0.005	0.003
E6631250 (7878147)	9.48	<0.005	<0.01	1.75	0.002	0.007	0.008	6.91	1.34	<0.01	2.21	0.235	<0.005	0.003
E6631251 (7878148)	9.09	<0.005	<0.01	1.80	0.002	0.008	0.008	6.83	1.30	<0.01	2.13	0.221	<0.005	0.003
E6631252 (7878149)	9.42	<0.005	<0.01	2.09	0.003	0.009	0.007	7.98	0.97	<0.01	2.39	0.276	<0.005	0.003
E6631253 (7878150)	9.35	<0.005	<0.01	2.53	0.002	0.009	0.006	7.99	0.69	<0.01	2.75	0.234	<0.005	0.003
E6631254 (7878151)	9.36	<0.005	<0.01	2.31	0.002	0.008	0.006	7.62	0.97	<0.01	2.33	0.217	<0.005	0.003
E6631255 (7878152)	9.56	<0.005	<0.01	2.37	0.003	0.011	0.007	8.12	0.92	<0.01	2.52	0.238	<0.005	0.003
E6631256 (7878154)	9.69	<0.005	<0.01	1.76	0.002	0.007	0.007	6.94	1.32	<0.01	2.17	0.194	<0.005	0.003
E6631257 (7878155)	9.83	<0.005	<0.01	2.19	0.002	0.008	0.008	6.89	1.38	<0.01	2.21	0.178	<0.005	0.003
E6631258 (7878156)	8.88	<0.005	<0.01	1.67	0.002	0.008	0.008	6.59	1.19	<0.01	1.98	0.246	<0.005	0.003
E6631259 (7878157)	9.24	<0.005	<0.01	1.88	0.002	0.007	0.006	6.76	1.06	<0.01	2.14	0.186	<0.005	0.003
E6631260 (7878158)	9.15	<0.005	<0.01	1.71	0.002	0.007	0.006	6.47	1.18	<0.01	1.98	0.210	<0.005	0.003

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016

DATE RECEIVED: Sep 27, 2016

DATE REPORTED: Oct 24, 2016

SAMPLE TYPE: Other

Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001
E6631261 (7878159)	8.88	<0.005	<0.01	1.88	0.002	0.007	0.006	6.90	1.12	<0.01	2.05	0.214	<0.005	0.004
E6631262 (7878160)	8.97	<0.005	<0.01	2.15	0.002	0.007	0.005	6.60	0.97	<0.01	2.01	0.187	<0.005	0.003
E6631263 (7878161)	9.17	<0.005	<0.01	1.85	0.002	0.007	0.007	7.18	1.08	<0.01	2.04	0.233	<0.005	0.003
E6631264 (7878162)	9.64	<0.005	<0.01	2.00	0.002	0.007	0.007	7.14	1.14	<0.01	2.15	0.224	<0.005	0.003
E6631265 (7878163)	9.12	<0.005	<0.01	1.64	0.002	0.007	0.006	6.52	1.18	<0.01	1.98	0.188	<0.005	0.003
E6631266 (7878164)	9.11	<0.005	<0.01	1.73	0.002	0.007	0.007	7.09	1.14	<0.01	2.12	0.222	<0.005	0.003
E6631267 (7878165)	9.08	<0.005	<0.01	1.90	0.002	0.007	0.006	6.65	1.04	<0.01	2.12	0.194	<0.005	0.003
E6631268 (7878166)	8.88	<0.005	<0.01	2.09	0.002	0.009	0.006	7.38	1.00	<0.01	2.14	0.257	<0.005	0.003
E6631269 (7878167)	9.43	<0.005	<0.01	2.14	0.002	0.007	0.006	7.07	1.07	<0.01	2.17	0.198	<0.005	0.003
E6631270 (7878168)	9.73	<0.005	<0.01	1.73	0.002	0.007	0.006	6.60	1.46	<0.01	1.96	0.155	<0.005	0.003
E6631271 (7878169)	9.61	<0.005	<0.01	2.16	0.002	0.008	0.006	7.83	0.97	<0.01	2.41	0.233	<0.005	0.003
E6631272 (7878170)	9.26	<0.005	<0.01	2.88	0.002	0.008	0.005	7.77	0.58	<0.01	2.54	0.224	<0.005	0.003
E6631273 (7878171)	9.28	<0.005	<0.01	2.19	0.002	0.007	0.006	7.51	0.93	<0.01	2.33	0.221	<0.005	0.003
E6631274 (7878172)	8.87	<0.005	<0.01	2.44	0.002	0.007	0.005	7.62	0.78	<0.01	2.17	0.213	<0.005	0.003
E6631275 (7878173)	8.99	<0.005	<0.01	2.53	0.002	0.008	0.006	7.26	0.69	<0.01	2.30	0.216	<0.005	0.003
E6631276 (7878174)	9.21	<0.005	<0.01	2.25	0.002	0.007	0.006	7.25	0.95	<0.01	2.30	0.204	<0.005	0.003
E6631277 (7878175)	9.23	<0.005	<0.01	2.44	0.002	0.007	0.006	7.43	0.82	<0.01	2.25	0.198	<0.005	0.003
E6631278 (7878176)	9.10	<0.005	<0.01	2.08	0.002	0.007	0.006	7.26	1.00	<0.01	2.04	0.217	<0.005	0.003
E6631279 (7878177)	9.04	<0.005	<0.01	2.91	0.002	0.007	0.004	7.04	0.53	<0.01	2.23	0.181	<0.005	0.003
E6631280 (7878178)	8.20	<0.005	<0.01	0.80	0.002	0.006	0.006	6.02	1.06	<0.01	1.29	0.187	<0.005	0.002
E6631281 (7878179)	9.23	<0.005	<0.01	2.69	0.002	0.008	0.005	7.82	0.54	<0.01	2.44	0.216	<0.005	0.003
E6631282 (7878180)	9.28	<0.005	<0.01	2.85	0.002	0.008	0.005	7.56	0.55	<0.01	2.51	0.204	<0.005	0.003
E6631283 (7878181)	9.08	<0.005	<0.01	2.80	0.002	0.008	0.005	7.48	0.56	<0.01	2.41	0.204	<0.005	0.003
E6631284 (7878182)	9.12	<0.005	<0.01	2.52	0.003	0.008	0.008	8.02	0.63	<0.01	2.31	0.257	<0.005	0.003
E6631285 (7878183)	8.92	<0.005	<0.01	2.68	0.002	0.007	0.006	7.15	0.61	<0.01	2.17	0.211	<0.005	0.003
E6631286 (7878184)	8.84	<0.005	<0.01	0.90	0.002	0.007	0.008	5.93	1.45	<0.01	1.83	0.150	<0.005	0.003
E6631287 (7878185)	10.0	<0.005	<0.01	0.83	0.003	0.006	0.009	7.50	1.43	<0.01	1.47	0.288	<0.005	0.003
E6631288 (7878186)	10.3	<0.005	<0.01	0.74	0.003	0.007	0.009	7.44	1.35	<0.01	1.35	0.265	<0.005	0.003
E6631289 (7878187)	10.4	<0.005	<0.01	0.70	0.003	0.008	0.010	7.58	1.46	<0.01	1.51	0.266	<0.005	0.003
E6631290 (7878188)	9.45	<0.005	<0.01	1.11	0.003	0.007	0.008	7.17	1.34	<0.01	1.46	0.204	<0.005	0.003
E6631291 (7878189)	9.78	<0.005	<0.01	1.66	0.003	0.008	0.007	7.89	1.10	<0.01	1.93	0.222	<0.005	0.003
E6631292 (7878190)	9.46	<0.005	<0.01	1.54	0.003	0.007	0.008	7.72	1.10	<0.01	1.76	0.212	<0.005	0.003

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001	
E6631293 (7878191)	9.85	<0.005	<0.01	0.56	0.002	0.007	0.009	7.31	1.40	<0.01	1.08	0.229	<0.005	0.003	
E6631294 (7878192)	9.22	<0.005	<0.01	2.57	0.002	0.007	0.005	7.80	0.68	<0.01	2.15	0.204	<0.005	0.003	
E6631295 (7878193)	8.89	<0.005	<0.01	2.49	0.002	0.008	0.005	7.79	0.67	<0.01	2.34	0.199	<0.005	0.003	
E6631296 (7878194)	9.36	<0.005	<0.01	2.14	0.003	0.007	0.006	7.75	0.68	<0.01	2.42	0.197	<0.005	0.003	
E6631297 (7878195)	8.91	<0.005	<0.01	2.14	0.002	0.006	0.005	8.14	0.56	<0.01	2.15	0.215	<0.005	0.003	
E6631298 (7878196)	9.37	<0.005	<0.01	0.47	0.003	0.012	0.009	7.24	1.61	<0.01	0.995	0.256	<0.005	0.005	
E6631299 (7878197)	9.16	<0.005	<0.01	0.61	0.003	0.021	0.009	7.88	1.42	<0.01	1.06	0.317	<0.005	0.010	
E6631300 (7878198)	9.25	<0.005	<0.01	0.57	0.002	0.008	0.007	6.45	1.80	<0.01	1.69	0.151	<0.005	0.003	
E6631301 (7878199)	9.07	<0.005	<0.01	0.67	0.003	0.012	0.010	6.74	1.33	<0.01	1.22	0.205	<0.005	0.005	
E6631302 (7878200)	8.96	<0.005	<0.01	0.64	0.002	0.008	0.007	5.75	1.55	<0.01	1.16	0.137	<0.005	0.003	
E6631303 (7878201)	8.47	<0.005	<0.01	0.59	0.002	0.007	0.006	5.50	1.44	<0.01	0.923	0.174	<0.005	0.003	
E6631304 (7878202)	8.44	<0.005	<0.01	0.83	<0.001	<0.005	0.003	7.23	1.77	<0.01	0.398	0.052	<0.005	0.001	
E6631305 (7878203)	9.78	<0.005	<0.01	1.99	0.002	0.006	0.007	8.11	0.81	<0.01	1.99	0.233	<0.005	0.003	
E6631306 (7878204)	9.52	<0.005	<0.01	1.93	0.002	0.006	0.007	8.11	0.82	<0.01	1.91	0.231	<0.005	0.003	
E6631307 (7878205)	9.24	<0.005	<0.01	2.01	0.002	0.006	0.007	8.10	0.75	<0.01	1.98	0.246	<0.005	0.003	
E6631308 (7878206)	9.41	<0.005	<0.01	2.09	0.002	0.006	0.006	7.97	0.74	<0.01	1.96	0.225	<0.005	0.003	
E6631309 (7878207)	8.48	<0.005	<0.01	1.12	0.002	0.005	0.009	6.38	1.55	<0.01	1.17	0.086	<0.005	0.006	
E6631310 (7878208)	8.22	<0.005	<0.01	0.78	0.002	0.006	0.009	6.06	1.71	<0.01	1.07	0.104	<0.005	0.006	
E6631311 (7878209)	9.33	<0.005	<0.01	0.60	0.003	0.006	0.008	7.10	1.53	<0.01	0.763	0.137	<0.005	0.007	
E6631312 (7878210)	7.38	<0.005	<0.01	0.36	0.002	0.005	0.010	4.96	1.38	<0.01	1.11	0.094	<0.005	0.004	
E6631313 (7878211)	7.95	<0.005	<0.01	0.58	0.002	0.005	0.006	5.83	1.40	<0.01	0.954	0.094	<0.005	0.003	
E6631314 (7878212)	8.31	<0.005	<0.01	0.67	0.002	0.006	0.010	5.80	1.65	<0.01	1.27	0.095	<0.005	0.005	
E6631315 (7878213)	8.43	<0.005	<0.01	0.76	0.002	0.007	0.010	6.16	1.75	<0.01	1.34	0.127	<0.005	0.006	
E6631316 (7878214)	7.93	<0.005	<0.01	0.61	0.002	0.005	0.009	5.55	1.52	<0.01	1.21	0.119	<0.005	0.004	
E6631317 (7878215)	8.70	<0.005	<0.01	0.88	0.001	0.006	0.007	6.26	1.95	<0.01	0.848	0.081	<0.005	0.003	
E6631318 (7878216)	8.74	<0.005	<0.01	0.64	0.001	0.006	0.008	6.60	1.23	<0.01	1.18	0.060	<0.005	0.004	
E6631319 (7878217)	8.58	<0.005	<0.01	0.53	0.002	0.006	0.009	6.09	1.90	<0.01	1.33	0.142	<0.005	0.005	
E6631320 (7878218)	7.19	<0.005	<0.01	0.61	0.001	0.005	0.004	5.32	1.34	<0.01	0.926	0.071	<0.005	0.003	
E6631321 (7878219)	7.42	<0.005	<0.01	0.62	0.002	0.005	0.008	5.18	1.54	<0.01	1.29	0.116	<0.005	0.004	
E6631322 (7878220)	8.34	<0.005	<0.01	1.11	0.002	0.006	0.008	5.61	1.67	<0.01	1.45	0.180	<0.005	0.005	
E6631323 (7878221)	7.05	<0.005	<0.01	0.45	0.001	<0.005	0.003	6.28	1.38	<0.01	0.593	0.090	<0.005	0.002	
E6631324 (7878222)	6.80	<0.005	<0.01	0.61	<0.001	<0.005	0.002	6.14	0.99	<0.01	0.427	0.046	<0.005	0.001	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001	
E6631325 (7878223)	7.17	<0.005	<0.01	0.80	<0.001	<0.005	0.006	5.91	1.51	<0.01	0.861	0.071	<0.005	0.003	
E6631326 (7878224)	8.08	<0.005	<0.01	0.70	0.002	0.009	0.008	7.39	1.58	<0.01	1.29	0.258	<0.005	0.005	
E6631327 (7878225)	9.13	<0.005	<0.01	0.83	0.002	0.007	0.007	7.22	2.01	<0.01	1.11	0.147	<0.005	0.004	
E6631328 (7878226)	8.46	<0.005	<0.01	0.95	0.003	0.012	0.008	8.92	1.67	<0.01	1.63	0.315	<0.005	0.007	
E6631329 (7878227)	10.4	<0.005	<0.01	1.20	0.002	0.007	0.004	8.10	2.52	<0.01	0.949	0.096	<0.005	0.004	
E6631330 (7878228)	7.66	<0.005	<0.01	0.36	0.002	0.006	0.007	5.29	1.36	<0.01	1.41	0.093	<0.005	0.005	
E6631331 (7878229)	8.72	<0.005	<0.01	0.90	0.002	0.005	0.009	6.08	1.83	<0.01	1.25	0.083	<0.005	0.005	
E6631332 (7878230)	12.4	0.006	<0.01	0.36	0.002	0.005	0.010	6.02	2.79	<0.01	0.719	0.117	<0.005	0.008	
E6631333 (7878231)	7.86	<0.005	<0.01	0.50	<0.001	0.006	0.004	4.69	1.61	<0.01	0.559	0.081	<0.005	0.002	
E6631334 (7878232)	8.62	<0.005	<0.01	0.64	0.002	<0.005	0.008	6.62	1.78	<0.01	0.871	0.118	<0.005	0.003	
E6631335 (7878233)	8.76	<0.005	<0.01	0.69	0.001	<0.005	0.004	6.76	1.80	<0.01	0.688	0.087	<0.005	0.002	
E6631336 (7878234)	8.94	<0.005	<0.01	0.49	<0.001	<0.005	0.003	7.21	1.32	<0.01	0.411	0.080	<0.005	0.002	
E6631337 (7878235)	8.45	<0.005	<0.01	1.13	0.002	0.006	0.005	6.50	1.53	<0.01	1.13	0.097	<0.005	0.003	
E6631338 (7878236)	8.20	<0.005	<0.01	0.73	0.002	0.007	0.010	6.38	1.58	<0.01	1.33	0.138	<0.005	0.004	
E6631339 (7878237)	8.53	<0.005	<0.01	0.88	0.002	0.007	0.007	6.53	1.88	<0.01	1.11	0.115	<0.005	0.004	
E6631340 (7878238)	7.15	<0.005	<0.01	0.31	0.002	0.005	0.009	5.09	1.37	<0.01	1.14	0.116	<0.005	0.005	
E6631341 (7878239)	7.85	<0.005	<0.01	0.53	0.002	0.007	0.006	4.94	1.39	<0.01	1.18	0.071	<0.005	0.004	
E6631342 (7878240)	8.54	<0.005	<0.01	0.49	0.002	0.007	0.007	6.22	1.57	<0.01	1.13	0.123	<0.005	0.005	
E6631343 (7878241)	7.48	<0.005	<0.01	0.92	0.003	0.009	0.011	7.08	1.54	<0.01	1.53	0.231	<0.005	0.006	
E6631344 (7878242)	8.72	<0.005	<0.01	0.70	0.002	0.007	0.009	6.43	1.86	<0.01	1.25	0.123	<0.005	0.005	
E6631345 (7878243)	8.42	<0.005	<0.01	0.47	0.002	0.008	0.010	6.18	1.66	<0.01	1.33	0.119	<0.005	0.005	
E6631346 (7878244)	8.82	<0.005	<0.01	0.42	0.002	0.008	0.013	5.94	1.83	<0.01	1.52	0.131	<0.005	0.005	
E6631347 (7878245)	7.58	<0.005	<0.01	2.19	0.002	0.007	0.008	9.33	1.85	<0.01	1.92	0.422	<0.005	0.006	
E6631348 (7878246)	8.41	<0.005	<0.01	0.96	0.002	0.008	0.010	8.01	2.33	<0.01	1.52	0.308	<0.005	0.009	
E6631349 (7878247)	5.79	<0.005	<0.01	6.71	0.002	0.006	0.009	6.16	1.70	<0.01	4.31	0.250	<0.005	0.007	
E6631350 (7878248)	6.40	<0.005	<0.01	5.05	0.002	0.006	0.008	5.97	1.99	<0.01	3.67	0.206	<0.005	0.007	
E6631351 (7878249)	7.08	<0.005	<0.01	0.81	0.002	0.006	0.006	4.89	1.25	<0.01	1.18	0.082	<0.005	0.004	
E6631352 (7878250)	7.75	<0.005	<0.01	0.63	0.002	0.007	0.010	6.37	1.72	<0.01	1.30	0.211	<0.005	0.006	
E6631353 (7878251)	8.46	<0.005	<0.01	0.80	0.004	0.007	0.010	5.67	1.62	<0.01	1.08	0.068	<0.005	0.019	
E6631354 (7878252)	8.71	<0.005	<0.01	0.68	0.003	0.007	0.012	5.09	1.75	<0.01	1.22	0.107	<0.005	0.007	
E6631355 (7878253)	8.00	<0.005	<0.01	0.62	0.003	0.007	0.010	6.47	1.98	<0.01	1.38	0.194	<0.005	0.009	
E6631356 (7878254)	8.47	<0.005	<0.01	0.46	0.002	0.007	0.009	6.20	1.97	<0.01	1.25	0.131	<0.005	0.008	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001	
E6631357 (7878255)	8.00	<0.005	<0.01	1.09	0.002	0.007	0.011	6.91	2.16	<0.01	1.39	0.212	<0.005	0.009	
E6631358 (7878256)	6.46	0.007	<0.01	4.38	0.002	0.007	0.010	6.29	2.15	<0.01	2.35	0.203	<0.005	0.010	
E6631359 (7878257)	6.96	0.006	<0.01	1.85	0.003	0.008	0.012	6.14	2.17	<0.01	1.66	0.166	<0.005	0.013	
E6631360 (7878258)	5.92	<0.005	<0.01	6.24	0.003	0.007	0.011	9.21	1.91	<0.01	2.73	0.487	<0.005	0.013	
E6631361 (7878259)	5.58	<0.005	<0.01	7.06	0.002	0.006	0.009	6.18	1.73	<0.01	4.65	0.256	<0.005	0.007	
E6631362 (7878260)	9.48	0.006	<0.01	0.49	0.002	0.008	0.010	8.39	2.51	<0.01	1.02	0.328	<0.005	0.006	
E6631363 (7878261)	9.18	0.006	<0.01	0.50	0.002	0.007	0.007	7.63	2.53	<0.01	1.15	0.260	<0.005	0.005	
E6631364 (7878262)	9.23	<0.005	<0.01	1.04	0.002	0.007	0.006	8.67	2.24	<0.01	1.22	0.294	<0.005	0.005	
E6631365 (7878263)	8.39	<0.005	<0.01	0.96	0.002	0.007	0.007	7.12	2.03	<0.01	1.27	0.201	<0.005	0.006	
E6631366 (7878264)	8.85	<0.005	<0.01	1.03	0.002	0.006	0.007	6.92	1.82	<0.01	1.05	0.120	<0.005	0.006	
E6631367 (7878265)	8.17	<0.005	<0.01	0.87	0.003	0.016	0.010	10.4	1.32	<0.01	1.55	0.423	<0.005	0.008	
E6631368 (7878266)	7.94	<0.005	<0.01	1.19	0.005	0.025	0.014	10.9	1.65	<0.01	1.65	0.557	<0.005	0.011	
E6631369 (7878267)	8.85	<0.005	<0.01	1.33	0.004	0.015	0.007	12.1	1.87	<0.01	1.56	0.472	<0.005	0.009	
E6631370 (7878268)	6.57	<0.005	<0.01	0.37	0.002	<0.005	0.007	4.27	1.36	<0.01	1.03	0.085	<0.005	0.004	
E6631371 (7878269)	6.10	<0.005	<0.01	6.49	0.002	<0.005	0.005	8.17	1.52	<0.01	4.35	0.452	<0.005	0.004	
E6631372 (7878270)	7.74	<0.005	<0.01	2.47	0.002	0.006	0.007	8.13	1.77	<0.01	2.38	0.400	<0.005	0.005	
E6631373 (7878271)	7.30	<0.005	<0.01	2.11	0.001	0.005	0.006	5.39	1.63	<0.01	2.03	0.131	<0.005	0.004	
E6631374 (7878272)	8.21	<0.005	<0.01	1.40	0.002	0.007	0.005	7.99	1.91	<0.01	1.47	0.324	<0.005	0.006	
E6631375 (7878273)	8.42	0.029	<0.01	2.17	0.002	<0.005	0.010	9.42	2.35	<0.01	2.26	0.462	<0.005	0.005	
E6631376 (7878274)	6.75	<0.005	<0.01	3.24	0.002	0.007	0.007	7.85	1.91	<0.01	2.88	0.455	<0.005	0.006	
E6631377 (7878275)	7.23	<0.005	<0.01	2.38	0.003	0.007	0.006	10.3	2.14	<0.01	2.29	0.739	<0.005	0.007	
E6631378 (7878276)	8.06	<0.005	<0.01	1.26	0.005	0.019	0.022	11.8	1.62	<0.01	1.95	0.697	<0.005	0.015	
E6631379 (7878277)	10.9	<0.005	<0.01	0.94	0.004	0.011	0.009	7.13	2.08	<0.01	1.38	0.190	<0.005	0.011	
E6631380 (7878279)	8.05	<0.005	<0.01	0.62	0.003	0.007	0.010	10.4	1.78	<0.01	1.36	0.531	<0.005	0.006	
E6631381 (7878280)	7.97	<0.005	<0.01	0.37	0.002	0.006	0.011	5.23	1.76	<0.01	1.30	0.120	<0.005	0.005	
E6631382 (7878281)	8.58	<0.005	<0.01	0.62	0.002	0.007	0.011	6.02	1.88	<0.01	1.43	0.171	<0.005	0.005	
E6631383 (7878282)	8.49	0.008	<0.01	1.58	0.003	0.006	0.008	9.95	1.73	<0.01	1.72	0.477	<0.005	0.006	
E6631384 (7878283)	8.23	0.009	<0.01	0.78	0.003	0.006	0.009	11.2	1.91	<0.01	1.37	0.652	<0.005	0.006	
E6631385 (7878284)	7.65	0.006	<0.01	0.65	0.003	0.007	0.008	9.67	1.87	<0.01	1.24	0.548	<0.005	0.006	
E6631386 (7878285)	8.25	<0.005	<0.01	1.03	0.002	<0.005	0.006	6.56	1.26	<0.01	1.13	0.137	<0.005	0.004	
E6631387 (7878286)	7.45	<0.005	<0.01	0.75	0.002	0.005	0.007	5.48	1.54	<0.01	1.10	0.121	<0.005	0.004	
E6631388 (7878287)	7.24	<0.005	<0.01	0.59	0.002	<0.005	0.008	5.11	1.62	<0.01	0.982	0.092	<0.005	0.004	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001	
E6631389 (7878288)	6.50	<0.005	<0.01	3.86	0.002	0.005	0.007	7.09	1.54	<0.01	2.97	0.371	<0.005	0.005	
E6631390 (7878289)	8.71	<0.005	<0.01	0.64	0.001	<0.005	0.009	6.27	2.23	<0.01	0.962	0.163	<0.005	0.005	
E6631391 (7878290)	8.64	<0.005	<0.01	1.18	0.002	0.007	0.011	5.75	2.11	<0.01	1.72	0.145	<0.005	0.005	
E6631392 (7878291)	8.41	<0.005	<0.01	1.67	0.002	0.006	0.010	5.91	2.12	<0.01	2.03	0.176	<0.005	0.005	
E6631393 (7878292)	3.71	<0.005	<0.01	11.9	0.001	<0.005	0.006	4.45	1.01	<0.01	7.70	0.306	<0.005	0.004	
E6631394 (7878293)	3.17	<0.005	<0.01	13.5	0.001	<0.005	0.005	4.37	0.99	<0.01	8.57	0.321	<0.005	0.004	
E6631395 (7878294)	6.81	0.011	<0.01	1.94	0.003	<0.005	0.007	13.1	2.12	<0.01	1.79	0.979	<0.005	0.007	
E6631396 (7878295)	5.96	<0.005	<0.01	2.15	0.002	0.005	0.005	13.3	1.27	<0.01	1.61	1.14	<0.005	0.005	
E6631397 (7878296)	3.91	0.007	<0.01	9.23	0.003	0.011	0.013	10.2	0.82	<0.01	6.27	0.850	<0.005	0.009	
E6631398 (7878297)	5.02	0.025	<0.01	9.70	0.002	<0.005	0.006	8.50	1.46	<0.01	6.15	0.718	<0.005	0.005	
E6631399 (7878298)	10.4	<0.005	<0.01	0.80	0.004	0.008	0.012	7.01	1.93	<0.01	1.14	0.139	<0.005	0.011	
E6631400 (7878299)	9.65	<0.005	<0.01	0.46	0.001	0.005	0.008	6.16	1.79	<0.01	0.803	0.108	<0.005	0.003	
E6631401 (7878300)	8.45	<0.005	<0.01	0.87	0.001	0.006	0.005	6.01	1.73	<0.01	0.939	0.099	<0.005	0.003	
E6631402 (7878301)	7.43	<0.005	<0.01	0.65	0.002	0.006	0.010	5.68	1.28	<0.01	1.27	0.237	<0.005	0.004	
E6631403 (7878302)	8.62	0.005	<0.01	0.72	0.002	0.006	0.009	8.54	2.07	<0.01	1.17	0.417	<0.005	0.005	
E6631404 (7878303)	7.97	<0.005	<0.01	0.55	0.002	0.006	0.011	6.83	1.66	<0.01	1.17	0.276	<0.005	0.005	
E6631405 (7878304)	7.57	<0.005	<0.01	0.71	0.002	0.006	0.009	7.21	1.54	<0.01	1.17	0.280	<0.005	0.004	
E6631406 (7878305)	7.72	<0.005	<0.01	0.63	0.002	0.006	0.009	6.86	1.71	<0.01	1.16	0.244	<0.005	0.005	
E6631407 (7878306)	7.61	<0.005	<0.01	0.33	0.002	<0.005	0.008	5.63	1.57	<0.01	1.03	0.138	<0.005	0.004	
E6631408 (7878307)	8.08	<0.005	<0.01	0.68	0.002	0.006	0.006	6.47	1.78	<0.01	0.993	0.151	<0.005	0.004	
E6631409 (7878308)	8.36	<0.005	<0.01	0.66	0.002	<0.005	0.008	6.20	1.83	<0.01	0.877	0.139	<0.005	0.004	
E6631410 (7878309)	8.61	<0.005	<0.01	0.88	0.002	<0.005	0.009	5.79	2.52	<0.01	1.16	0.107	<0.005	0.005	
E6631411 (7878310)	7.65	<0.005	<0.01	1.07	0.003	<0.005	0.010	6.33	2.27	<0.01	1.31	0.124	<0.005	0.004	
E6631412 (7878311)	7.70	<0.005	<0.01	0.53	0.002	<0.005	0.008	6.51	1.83	<0.01	1.06	0.126	<0.005	0.005	
E6631413 (7878312)	6.97	<0.005	<0.01	0.89	0.002	<0.005	0.007	6.56	1.30	<0.01	1.30	0.146	<0.005	0.004	
E6631414 (7878313)	6.55	<0.005	<0.01	0.72	0.002	<0.005	0.006	5.97	1.01	<0.01	0.924	0.131	<0.005	0.003	
E6631415 (7878314)	6.71	<0.005	<0.01	0.83	0.002	<0.005	0.006	6.06	1.20	<0.01	1.20	0.120	<0.005	0.003	
E6631416 (7878315)	7.87	0.012	<0.01	0.32	0.002	0.008	0.008	6.04	1.82	<0.01	0.638	0.125	<0.005	0.007	
E6631417 (7878316)	6.60	<0.005	<0.01	0.34	0.002	<0.005	0.007	5.31	1.31	<0.01	0.787	0.109	<0.005	0.004	
E6631418 (7878317)	6.39	<0.005	<0.01	0.28	0.002	<0.005	0.008	6.13	1.25	<0.01	0.768	0.104	<0.005	0.004	
E6631419 (7878318)	6.69	<0.005	<0.01	0.46	0.002	<0.005	0.007	6.26	1.23	<0.01	0.915	0.133	<0.005	0.004	
E6631420 (7878319)	6.06	<0.005	<0.01	0.64	0.002	<0.005	0.006	5.47	1.00	<0.01	1.05	0.105	<0.005	0.003	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016											DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Sample ID (AGAT ID)	RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	
E6631421 (7878320)		8.68	<0.005	<0.01	0.65	0.003	0.007	0.050	6.91	2.42	<0.01	1.71	0.138	<0.005	0.005
E6631422 (7878321)		7.79	0.006	<0.01	0.95	0.002	<0.005	0.008	7.06	1.47	<0.01	1.14	0.137	<0.005	0.005
E6631423 (7878322)		8.63	0.008	<0.01	0.35	0.002	0.005	0.010	6.34	1.85	<0.01	0.637	0.112	<0.005	0.007
E6631424 (7878323)		6.91	<0.005	<0.01	0.89	0.002	<0.005	0.007	6.30	1.82	<0.01	1.23	0.135	<0.005	0.003
E6631425 (7878324)		7.51	<0.005	<0.01	0.58	0.002	<0.005	0.007	6.14	1.79	<0.01	1.05	0.127	<0.005	0.004
E6631426 (7878325)		7.58	<0.005	<0.01	0.68	0.002	<0.005	0.007	5.92	1.89	<0.01	1.13	0.122	<0.005	0.004
E6631427 (7878326)		6.85	<0.005	<0.01	0.71	0.003	<0.005	0.008	6.55	1.64	<0.01	1.08	0.166	<0.005	0.005
E6631428 (7878327)		6.52	<0.005	<0.01	0.59	0.002	<0.005	0.008	6.49	1.58	<0.01	1.16	0.136	<0.005	0.003
E6631429 (7878328)		7.06	<0.005	<0.01	0.60	0.002	<0.005	0.007	6.86	1.50	<0.01	1.23	0.160	<0.005	0.003
E6631430 (7878329)		6.87	<0.005	<0.01	0.61	0.002	<0.005	0.007	5.82	1.40	<0.01	0.952	0.125	<0.005	0.004
E6631431 (7878330)		6.56	<0.005	<0.01	0.66	0.002	<0.005	0.005	6.31	1.00	<0.01	0.939	0.172	<0.005	0.003
E6631432 (7878331)		7.41	<0.005	<0.01	1.84	0.002	<0.005	0.006	6.34	1.12	<0.01	1.56	0.132	<0.005	0.003
E6631433 (7878332)		7.65	<0.005	<0.01	0.79	0.002	<0.005	0.006	6.72	1.36	<0.01	1.16	0.153	<0.005	0.003
E6631434 (7878333)		9.47	0.028	<0.01	0.21	0.006	0.010	0.026	6.60	2.61	<0.01	0.528	0.117	<0.005	0.020
E6631435 (7878334)		7.18	<0.005	<0.01	0.42	0.002	<0.005	0.006	5.76	1.36	<0.01	1.16	0.148	<0.005	0.004
E6631436 (7878335)		7.68	<0.005	<0.01	0.88	0.002	<0.005	0.006	6.67	1.28	<0.01	0.952	0.142	<0.005	0.003
E6631437 (7878336)		6.67	<0.005	<0.01	0.73	0.002	<0.005	0.006	6.55	1.17	<0.01	1.10	0.177	<0.005	0.003
E6631438 (7878337)		6.96	<0.005	<0.01	1.01	0.002	0.005	0.005	5.96	1.26	<0.01	1.37	0.117	<0.005	0.004
E6631439 (7878338)		6.27	<0.005	<0.01	0.60	0.002	<0.005	0.008	6.66	1.47	<0.01	1.03	0.166	<0.005	0.003
E6631440 (7878339)		7.06	<0.005	<0.01	0.52	0.002	<0.005	0.008	6.43	1.85	<0.01	0.993	0.148	<0.005	0.004
E6631441 (7878340)		7.14	<0.005	<0.01	0.54	0.002	<0.005	0.011	6.48	2.16	<0.01	0.937	0.113	<0.005	0.004
E6631442 (7878341)		6.26	<0.005	<0.01	0.82	0.002	<0.005	0.009	6.49	1.65	<0.01	1.20	0.147	<0.005	0.003
E6631443 (7878342)		7.76	<0.005	<0.01	0.70	0.002	0.006	0.005	6.15	1.66	<0.01	1.24	0.158	<0.005	0.004
E6631444 (7878343)		6.99	<0.005	<0.01	0.95	0.002	<0.005	0.006	7.08	0.71	<0.01	1.07	0.192	<0.005	0.002
E6631445 (7878344)		7.04	<0.005	<0.01	0.50	0.002	<0.005	0.004	5.76	1.56	<0.01	1.08	0.177	<0.005	0.002
E6631446 (7878345)		7.29	<0.005	<0.01	0.36	0.001	<0.005	0.003	4.79	1.88	<0.01	0.385	0.271	<0.005	0.002
E6631447 (7878346)		7.39	<0.005	<0.01	0.26	0.002	0.005	0.004	6.25	1.34	<0.01	1.05	0.203	<0.005	0.002
E6631448 (7878347)		8.10	<0.005	<0.01	0.48	0.003	<0.005	0.010	8.03	1.48	<0.01	1.50	0.421	<0.005	0.002
E6631449 (7878348)		9.69	<0.005	<0.01	0.47	0.003	<0.005	0.009	7.97	2.04	<0.01	1.11	0.194	<0.005	0.004
E6631450 (7878349)		6.36	<0.005	<0.01	0.06	0.001	<0.005	0.007	6.72	1.18	<0.01	0.662	0.070	<0.005	0.003
E6631451 (7878350)		7.05	<0.005	<0.01	0.31	0.002	0.006	0.004	5.14	1.55	<0.01	1.06	0.126	<0.005	0.003
E6631452 (7878351)		8.22	<0.005	<0.01	0.52	0.002	<0.005	0.009	6.09	1.77	<0.01	1.00	0.176	<0.005	0.004

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016

DATE RECEIVED: Sep 27, 2016

DATE REPORTED: Oct 24, 2016

SAMPLE TYPE: Other

Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%
RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	0.001
E6631453 (7878352)	7.06	<0.005	<0.01	0.54	0.002	<0.005	0.005	6.06	1.30	<0.01	1.22	0.153	<0.005	0.003
E6631454 (7878353)	7.68	<0.005	<0.01	0.59	0.002	<0.005	0.009	6.60	2.22	<0.01	1.07	0.141	<0.005	0.003
E6631455 (7878354)	6.99	<0.005	<0.01	1.09	0.002	<0.005	0.009	6.53	1.82	<0.01	1.18	0.167	<0.005	0.004
E6631456 (7878355)	7.81	<0.005	<0.01	0.34	0.002	<0.005	0.008	5.91	1.65	<0.01	1.09	0.145	<0.005	0.004
E6631457 (7878356)	7.18	<0.005	<0.01	0.76	0.002	<0.005	0.008	5.81	1.72	<0.01	1.13	0.126	<0.005	0.004
E6631458 (7878357)	8.01	<0.005	<0.01	0.42	0.002	0.005	0.005	5.47	1.88	<0.01	1.53	0.136	<0.005	0.003
E6631459 (7878358)	7.03	<0.005	<0.01	0.47	0.002	0.005	0.006	5.80	1.53	<0.01	1.26	0.139	<0.005	0.003
E6631460 (7878359)	6.85	<0.005	<0.01	0.55	0.002	0.005	0.005	5.58	1.44	<0.01	1.13	0.143	<0.005	0.003
E6631461 (7878360)	7.93	<0.005	<0.01	0.13	0.002	<0.005	0.005	5.59	1.28	<0.01	1.25	0.070	<0.005	0.003
E6631462 (7878361)	7.96	<0.005	<0.01	0.29	0.002	0.007	0.003	5.87	1.38	<0.01	0.825	0.112	<0.005	0.002
E6631463 (7878362)	7.29	<0.005	<0.01	0.51	<0.001	0.006	0.001	3.84	1.42	<0.01	0.661	0.028	<0.005	0.002
E6631464 (7878363)	6.97	<0.005	<0.01	0.30	0.001	0.005	0.004	4.80	1.38	<0.01	0.977	0.071	<0.005	0.003
E6631465 (7878364)	8.20	<0.005	<0.01	0.09	0.002	<0.005	0.006	5.49	1.85	<0.01	1.04	0.110	<0.005	0.003
E6631466 (7878365)	8.09	<0.005	<0.01	0.17	0.002	0.005	0.005	5.98	1.94	<0.01	1.09	0.178	<0.005	0.003
E6631467 (7878366)	8.31	<0.005	<0.01	0.33	0.002	<0.005	0.004	5.63	2.14	<0.01	1.06	0.158	<0.005	0.002
E6631468 (7878367)	7.78	<0.005	<0.01	0.16	0.002	<0.005	0.003	5.35	2.06	<0.01	1.07	0.125	<0.005	0.002
E6631469 (7878368)	7.95	<0.005	<0.01	0.26	0.002	0.005	0.004	5.80	1.92	<0.01	0.989	0.147	<0.005	0.003
E6631470 (7878369)	7.89	<0.005	<0.01	0.94	0.001	0.008	0.004	4.29	1.26	<0.01	0.938	0.094	<0.005	0.004
E6631471 (7878370)	7.79	<0.005	<0.01	0.86	0.001	0.007	0.004	4.23	1.24	<0.01	0.957	0.095	<0.005	0.004
E6631472 (7878371)	6.67	<0.005	<0.01	0.51	0.002	<0.005	0.005	5.43	1.37	<0.01	0.961	0.114	<0.005	0.004
E6631473 (7878372)	6.85	<0.005	<0.01	0.71	0.002	<0.005	0.007	6.13	1.72	<0.01	1.07	0.141	<0.005	0.004
E6632001 (7878373)	6.38	<0.005	<0.01	6.64	0.003	<0.005	0.020	7.11	4.82	<0.01	2.72	0.127	<0.005	0.003
E6632002 (7878374)	5.69	<0.005	<0.01	6.29	0.002	<0.005	0.013	6.34	4.58	<0.01	2.14	0.156	<0.005	0.002
E6632003 (7878375)	8.81	0.047	<0.01	0.44	<0.001	<0.005	0.007	3.56	5.47	<0.01	0.129	0.028	<0.005	0.002
E6632004 (7878376)	7.40	0.095	<0.01	0.64	<0.001	<0.005	0.006	5.37	5.73	<0.01	0.191	0.030	<0.005	0.001
E6632005 (7878377)	6.01	<0.005	<0.01	10.9	0.003	0.006	0.010	6.19	4.60	<0.01	1.92	0.136	<0.005	0.003
E6632006 (7878378)	8.13	<0.005	<0.01	5.08	0.003	0.008	0.021	6.03	0.26	<0.01	2.25	0.139	<0.005	0.003
E6632007 (7878379)	6.81	0.012	<0.01	0.09	<0.001	<0.005	<0.001	5.23	3.09	<0.01	0.122	0.016	<0.005	<0.001
E6632008 (7878380)	1.32	<0.005	<0.01	1.30	<0.001	0.011	<0.001	0.88	0.91	<0.01	0.601	0.047	<0.005	0.002
E6632009 (7878381)	6.48	0.040	<0.01	0.39	<0.001	<0.005	0.106	4.17	6.78	<0.01	0.479	0.421	<0.005	<0.001
E6632010 (7878382)	0.84	0.089	<0.01	0.26	0.002	0.008	0.165	4.83	0.39	<0.01	0.146	0.256	0.016	0.001
E6632011 (7878383)	5.97	<0.005	<0.01	<0.05	<0.001	<0.005	0.001	1.30	1.63	<0.01	0.010	<0.005	<0.005	0.001

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016

DATE RECEIVED: Sep 27, 2016

DATE REPORTED: Oct 24, 2016

SAMPLE TYPE: Other

Analyte:	Al	As	B	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	
Unit:	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Sample ID (AGAT ID)	RDL:	0.01	0.005	0.01	0.05	0.001	0.005	0.001	0.01	0.05	0.01	0.005	0.005	0.005	
E6632012 (7878384)		8.40	<0.005	<0.01	<0.05	<0.001	<0.005	<0.001	2.33	0.06	<0.01	0.006	<0.005	<0.005	<0.001
E6632013 (7878385)		0.08	<0.005	<0.01	<0.05	<0.001	0.012	0.002	0.47	<0.05	<0.01	<0.005	0.017	<0.005	0.001
E6632014 (7878386)		6.49	0.094	<0.01	<0.05	0.001	<0.005	0.009	5.01	7.16	<0.01	0.047	0.053	<0.005	0.001
E6632015 (7878387)		7.28	<0.005	<0.01	<0.05	<0.001	<0.005	<0.001	1.19	9.33	<0.01	0.053	<0.005	<0.005	<0.001
E6632016 (7878388)		7.67	<0.005	<0.01	<0.05	<0.001	<0.005	<0.001	1.36	9.49	<0.01	0.053	0.010	<0.005	<0.001
E6632017 (7878389)		4.68	<0.005	<0.01	0.21	<0.001	<0.005	0.018	2.90	3.23	<0.01	0.374	0.162	<0.005	<0.001
E6632018 (7878390)		1.35	<0.005	<0.01	<0.05	<0.001	<0.005	25.2	24.4	0.64	<0.01	0.326	0.048	<0.005	0.002
E6632019 (7878391)		1.49	<0.005	<0.01	<0.05	<0.001	<0.005	14.5	21.3	0.45	<0.01	0.488	0.042	<0.005	0.002
E6632020 (7878392)		9.52	<0.005	<0.01	4.71	0.005	0.020	0.022	7.08	0.15	<0.01	2.58	0.109	<0.005	0.014
E6632021 (7878393)		8.55	<0.005	<0.01	2.72	<0.001	<0.005	0.039	3.69	3.92	<0.01	1.03	0.280	<0.005	<0.001
E6632022 (7878394)		1.72	<0.005	<0.01	18.3	<0.001	<0.005	0.004	5.19	0.58	<0.01	6.35	0.098	<0.005	0.002
E6632023 (7878395)		4.36	0.182	<0.01	0.33	0.002	0.006	0.386	9.70	2.10	<0.01	0.195	0.018	<0.005	<0.001
E6632024 (7878396)		8.63	0.255	<0.01	0.06	<0.001	<0.005	2.72	6.48	7.96	<0.01	0.163	0.133	<0.005	<0.001
E6632025 (7878397)		7.63	0.344	<0.01	<0.05	<0.001	<0.005	3.12	7.97	6.58	<0.01	0.251	0.198	<0.005	<0.001
E6632026 (7878398)		1.05	0.285	<0.01	<0.05	0.001	0.006	1.12	5.32	0.47	<0.01	0.059	0.019	<0.005	<0.001
E6632027 (7878399)		8.56	<0.005	<0.01	6.44	0.004	0.008	0.007	8.78	0.91	<0.01	3.67	0.141	<0.005	0.004
E6632028 (7878400)		2.79	0.083	<0.01	0.09	<0.001	0.011	0.183	1.57	1.19	<0.01	0.128	0.018	0.006	0.001
E6632029 (7878402)		0.80	0.021	<0.01	0.31	<0.001	0.009	0.512	2.71	0.35	<0.01	0.148	0.062	<0.005	<0.001
E6632030 (7878403)		1.94	0.044	<0.01	0.42	<0.001	0.006	0.645	3.65	1.37	<0.01	0.466	0.229	<0.005	0.001
E6632031 (7878404)		1.27	0.087	<0.01	0.09	<0.001	0.008	1.56	5.52	0.58	<0.01	0.335	0.187	0.006	0.001
E6632032 (7878405)		8.45	<0.005	<0.01	6.38	0.004	0.008	0.006	8.71	0.90	<0.01	3.62	0.143	<0.005	0.004
E6632033 (7878406)		1.45	0.416	<0.01	0.18	<0.001	0.009	1.27	5.93	0.61	<0.01	0.044	0.018	0.009	0.001
E6632034 (7878407)		3.81	0.179	<0.01	<0.05	<0.001	0.007	0.368	3.57	1.96	<0.01	0.197	0.025	<0.005	<0.001
E6632035 (7878408)		0.99	0.008	<0.01	<0.05	<0.001	0.013	0.009	1.13	0.26	<0.01	0.039	<0.005	<0.005	0.003

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016				DATE REPORTED: Oct 24, 2016				SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631101 (7877997)	<0.005	0.05	21.8	<0.005	0.390	0.022	<0.01	0.010	
E6631102 (7877998)	<0.005	0.04	21.6	<0.005	0.457	0.015	<0.01	0.012	
E6631103 (7877999)	<0.005	0.05	23.4	<0.005	0.549	0.018	<0.01	0.013	
E6631104 (7878000)	<0.005	0.22	25.4	<0.005	0.523	0.017	<0.01	0.013	
E6631105 (7878001)	<0.005	0.25	26.7	<0.005	0.542	0.019	<0.01	0.015	
E6631106 (7878002)	<0.005	0.24	26.4	<0.005	0.593	0.020	<0.01	0.014	
E6631107 (7878003)	<0.005	0.20	27.1	<0.005	0.591	0.019	<0.01	0.014	
E6631108 (7878004)	<0.005	0.28	23.0	<0.005	0.523	0.017	<0.01	0.018	
E6631109 (7878005)	<0.005	0.32	18.4	<0.005	0.341	0.011	<0.01	0.015	
E6631110 (7878006)	<0.005	0.28	26.9	<0.005	0.470	0.016	<0.01	0.023	
E6631111 (7878007)	<0.005	0.28	27.7	<0.005	0.456	0.016	<0.01	0.017	
E6631112 (7878008)	<0.005	0.15	26.3	<0.005	0.466	0.015	<0.01	0.024	
E6631113 (7878009)	<0.005	0.08	25.4	<0.005	0.545	0.016	<0.01	0.016	
E6631114 (7878010)	<0.005	0.02	26.2	<0.005	0.585	0.017	<0.01	0.011	
E6631115 (7878011)	<0.005	0.03	25.2	<0.005	0.798	0.027	<0.01	0.011	
E6631116 (7878012)	<0.005	0.06	17.7	<0.005	0.777	0.033	<0.01	0.017	
E6631117 (7878013)	<0.005	0.13	11.3	<0.005	0.418	0.016	<0.01	0.006	
E6631118 (7878014)	<0.005	0.15	16.2	<0.005	0.989	0.050	<0.01	0.011	
E6631119 (7878015)	<0.005	0.04	19.2	<0.005	0.742	0.025	<0.01	0.008	
E6631120 (7878016)	<0.005	0.04	14.9	<0.005	0.378	0.014	<0.01	0.006	
E6631121 (7878017)	<0.005	0.07	17.0	<0.005	0.388	0.017	<0.01	0.009	
E6631122 (7878018)	<0.005	0.06	18.2	<0.005	0.345	0.020	<0.01	0.009	
E6631123 (7878019)	<0.005	0.04	8.56	<0.005	0.170	0.009	<0.01	<0.005	
E6631124 (7878020)	<0.005	0.12	12.6	<0.005	0.220	0.013	<0.01	<0.005	
E6631125 (7878021)	<0.005	0.05	19.6	<0.005	0.374	0.021	<0.01	0.007	
E6631126 (7878022)	<0.005	0.04	20.2	<0.005	0.405	0.023	<0.01	0.008	
E6631127 (7878023)	<0.005	<0.01	14.4	<0.005	0.308	0.008	<0.01	<0.005	
E6631128 (7878024)	<0.005	<0.01	23.6	<0.005	0.502	0.024	<0.01	0.010	
E6631129 (7878025)	<0.005	0.03	20.1	<0.005	0.451	0.021	<0.01	0.010	
E6631130 (7878026)	<0.005	0.02	19.2	<0.005	0.556	0.011	<0.01	0.006	
E6631131 (7878027)	<0.005	<0.01	16.5	<0.005	0.473	0.020	<0.01	0.007	
E6631132 (7878028)	<0.005	0.02	19.8	<0.005	0.623	0.022	<0.01	0.008	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016			DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other		
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631133 (7878029)	<0.005	0.05	13.7	<0.005	0.486	0.021	<0.01	0.008	
E6631134 (7878030)	<0.005	<0.01	18.1	<0.005	0.524	0.019	<0.01	0.009	
E6631135 (7878031)	<0.005	0.04	18.6	<0.005	0.438	0.016	<0.01	0.012	
E6631136 (7878032)	<0.005	0.04	18.7	<0.005	0.421	0.017	<0.01	0.009	
E6631137 (7878033)	<0.005	0.22	16.3	<0.005	0.684	0.028	<0.01	0.015	
E6631138 (7878034)	<0.005	0.10	17.5	<0.005	0.653	0.028	<0.01	0.009	
E6631139 (7878035)	0.019	<0.01	25.3	<0.005	0.495	0.021	<0.01	0.118	
E6631140 (7878036)	0.019	0.01	27.4	<0.005	0.441	0.011	<0.01	0.076	
E6631141 (7878037)	0.017	<0.01	26.3	<0.005	0.599	0.017	<0.01	0.063	
E6631142 (7878038)	0.020	0.01	26.4	<0.005	0.614	0.014	<0.01	0.062	
E6631143 (7878039)	0.028	<0.01	26.4	<0.005	0.449	0.018	<0.01	0.110	
E6631144 (7878040)	0.096	<0.01	27.4	<0.005	0.457	0.012	<0.01	0.067	
E6631145 (7878041)	0.016	<0.01	27.4	<0.005	0.461	0.014	<0.01	0.062	
E6631146 (7878042)	0.010	0.01	24.4	<0.005	0.699	0.013	<0.01	0.065	
E6631147 (7878043)	0.010	<0.01	26.3	<0.005	0.627	0.015	<0.01	0.065	
E6631148 (7878044)	0.015	<0.01	28.5	<0.005	0.382	0.009	<0.01	0.077	
E6631149 (7878045)	0.019	<0.01	28.3	<0.005	0.400	0.009	<0.01	0.050	
E6631150 (7878046)	0.006	0.01	23.3	<0.005	0.504	0.015	<0.01	0.024	
E6631151 (7878047)	0.017	0.01	27.1	<0.005	0.409	0.012	<0.01	0.083	
E6631152 (7878049)	0.013	0.02	23.1	<0.005	0.585	0.015	<0.01	0.065	
E6631153 (7878050)	0.008	0.01	24.9	<0.005	0.642	0.016	<0.01	0.108	
E6631154 (7878051)	0.010	<0.01	26.0	<0.005	0.558	0.016	<0.01	0.110	
E6631155 (7878052)	0.016	<0.01	24.6	<0.005	0.739	0.014	<0.01	0.078	
E6631156 (7878053)	0.015	<0.01	24.9	<0.005	0.724	0.015	<0.01	0.075	
E6631157 (7878054)	0.012	<0.01	28.5	<0.005	0.499	0.015	<0.01	0.111	
E6631158 (7878055)	0.009	0.03	26.2	<0.005	0.438	0.015	<0.01	0.030	
E6631159 (7878056)	0.009	<0.01	28.8	<0.005	0.366	0.010	<0.01	0.033	
E6631160 (7878057)	0.008	<0.01	28.6	<0.005	0.391	0.011	<0.01	0.030	
E6631161 (7878058)	<0.005	0.01	29.1	<0.005	0.442	0.011	<0.01	0.026	
E6631162 (7878059)	0.006	0.04	27.2	<0.005	0.422	0.011	<0.01	0.029	
E6631163 (7878060)	<0.005	0.09	21.6	<0.005	0.628	0.015	<0.01	0.044	
E6631164 (7878061)	<0.005	0.11	22.3	<0.005	0.545	0.014	<0.01	0.043	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016					DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631165 (7878062)	<0.005	0.11	21.5	<0.005	0.528	0.016	<0.01	0.049	
E6631166 (7878063)	<0.005	0.12	21.8	<0.005	0.595	0.021	<0.01	0.037	
E6631167 (7878064)	<0.005	0.11	19.7	<0.005	0.572	0.011	<0.01	0.026	
E6631168 (7878065)	<0.005	0.14	20.6	<0.005	0.546	0.020	<0.01	0.047	
E6631169 (7878066)	<0.005	0.10	17.3	<0.005	0.504	0.013	<0.01	0.035	
E6631170 (7878067)	<0.005	0.11	20.2	<0.005	0.562	0.020	<0.01	0.051	
E6631171 (7878068)	<0.005	0.12	14.0	<0.005	0.463	0.009	<0.01	0.068	
E6631172 (7878069)	<0.005	0.12	18.0	<0.005	0.485	0.017	<0.01	0.046	
E6631173 (7878070)	<0.005	0.21	22.8	<0.005	0.557	0.019	<0.01	0.065	
E6631174 (7878071)	<0.005	0.06	22.8	<0.005	0.563	0.010	<0.01	0.008	
E6631175 (7878072)	<0.005	0.05	25.6	<0.005	0.534	0.010	<0.01	<0.005	
E6631176 (7878073)	<0.005	0.03	24.6	<0.005	0.428	0.008	<0.01	<0.005	
E6631177 (7878074)	<0.005	0.01	31.7	<0.005	0.343	0.006	<0.01	<0.005	
E6631178 (7878075)	<0.005	0.05	25.3	<0.005	0.370	0.008	<0.01	0.005	
E6631179 (7878076)	<0.005	0.05	20.7	<0.005	0.451	0.009	<0.01	<0.005	
E6631180 (7878077)	<0.005	0.09	18.2	<0.005	0.591	0.009	<0.01	0.007	
E6631181 (7878078)	<0.005	0.08	14.0	<0.005	0.439	0.006	<0.01	0.008	
E6631182 (7878079)	<0.005	0.08	17.8	<0.005	0.603	0.007	<0.01	0.010	
E6631183 (7878080)	<0.005	0.08	19.6	<0.005	0.615	0.009	<0.01	0.010	
E6631184 (7878081)	<0.005	0.08	19.3	<0.005	0.596	0.009	<0.01	0.009	
E6631185 (7878082)	<0.005	0.07	19.2	<0.005	0.564	0.008	<0.01	0.010	
E6631186 (7878083)	<0.005	0.03	25.0	<0.005	0.827	0.017	<0.01	0.013	
E6631187 (7878084)	<0.005	0.02	24.4	<0.005	0.802	0.018	<0.01	0.012	
E6631188 (7878085)	<0.005	0.03	26.3	<0.005	0.892	0.017	<0.01	0.011	
E6631189 (7878086)	<0.005	0.04	25.9	<0.005	0.929	0.018	<0.01	0.011	
E6631190 (7878087)	<0.005	0.02	23.8	<0.005	0.871	0.017	<0.01	0.012	
E6631191 (7878088)	<0.005	0.02	24.9	<0.005	0.655	0.017	<0.01	0.012	
E6631192 (7878089)	<0.005	0.01	24.4	<0.005	0.554	0.018	<0.01	0.012	
E6631193 (7878090)	<0.005	0.06	17.4	<0.005	0.520	0.014	<0.01	0.010	
E6631194 (7878091)	<0.005	0.03	24.9	<0.005	0.906	0.016	<0.01	0.013	
E6631195 (7878092)	<0.005	0.03	24.7	<0.005	0.964	0.017	<0.01	0.012	
E6631196 (7878093)	<0.005	0.03	23.4	<0.005	0.832	0.017	<0.01	0.012	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016					DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631197 (7878094)	<0.005	0.03	24.9	<0.005	0.939	0.017	<0.01	0.013	
E6631198 (7878095)	<0.005	0.03	24.5	<0.005	0.909	0.017	<0.01	0.013	
E6631199 (7878096)	<0.005	0.03	24.6	<0.005	0.985	0.018	<0.01	0.013	
E6631200 (7878097)	<0.005	0.02	25.0	<0.005	0.937	0.015	<0.01	0.011	
E6631201 (7878098)	<0.005	0.03	25.1	<0.005	1.07	0.016	<0.01	0.012	
E6631202 (7878099)	<0.005	0.03	24.0	<0.005	1.29	0.017	<0.01	0.012	
E6631203 (7878100)	<0.005	0.02	24.4	<0.005	0.957	0.016	<0.01	0.012	
E6631204 (7878101)	<0.005	0.02	24.0	<0.005	0.899	0.015	<0.01	0.012	
E6631205 (7878102)	<0.005	0.02	24.9	<0.005	0.918	0.016	<0.01	0.013	
E6631206 (7878103)	<0.005	0.03	25.2	<0.005	0.977	0.017	<0.01	0.012	
E6631207 (7878104)	<0.005	0.02	25.6	<0.005	0.961	0.016	<0.01	0.012	
E6631208 (7878105)	<0.005	0.03	25.2	<0.005	0.990	0.015	<0.01	0.012	
E6631209 (7878106)	<0.005	0.03	25.4	<0.005	0.945	0.015	<0.01	0.011	
E6631210 (7878107)	<0.005	0.02	25.3	<0.005	0.926	0.016	<0.01	0.012	
E6631211 (7878108)	<0.005	0.02	25.1	<0.005	0.896	0.015	<0.01	0.012	
E6631212 (7878109)	<0.005	0.03	25.0	<0.005	0.994	0.017	<0.01	0.013	
E6631213 (7878110)	<0.005	0.02	25.5	<0.005	0.908	0.015	<0.01	0.014	
E6631214 (7878111)	<0.005	0.05	25.1	<0.005	0.932	0.019	<0.01	0.014	
E6631215 (7878112)	<0.005	0.04	24.7	<0.005	0.909	0.016	<0.01	0.012	
E6631216 (7878113)	<0.005	0.04	24.1	<0.005	0.996	0.018	<0.01	0.012	
E6631217 (7878114)	<0.005	0.04	24.0	<0.005	0.881	0.018	<0.01	0.013	
E6631218 (7878115)	<0.005	0.02	24.3	<0.005	0.841	0.018	<0.01	0.013	
E6631219 (7878116)	<0.005	0.02	24.8	<0.005	0.854	0.016	<0.01	0.012	
E6631220 (7878117)	<0.005	0.02	24.0	<0.005	0.968	0.017	<0.01	0.012	
E6631221 (7878118)	<0.005	0.03	23.5	<0.005	0.763	0.018	<0.01	0.013	
E6631222 (7878119)	<0.005	0.06	23.4	<0.005	0.856	0.020	<0.01	0.012	
E6631223 (7878120)	<0.005	0.03	23.3	<0.005	0.731	0.020	<0.01	0.013	
E6631224 (7878121)	<0.005	0.03	23.6	<0.005	0.838	0.019	<0.01	0.012	
E6631225 (7878122)	<0.005	0.04	23.9	<0.005	0.919	0.020	<0.01	0.013	
E6631226 (7878123)	<0.005	0.03	25.5	<0.005	0.902	0.019	<0.01	0.011	
E6631227 (7878124)	<0.005	0.02	24.5	<0.005	0.866	0.017	<0.01	0.012	
E6631228 (7878125)	<0.005	0.03	24.5	<0.005	0.979	0.019	<0.01	0.012	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016					DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631229 (7878126)	<0.005	0.03	25.2	<0.005	0.888	0.016	<0.01	0.012	
E6631230 (7878127)	<0.005	0.02	25.8	<0.005	0.870	0.014	<0.01	0.011	
E6631231 (7878128)	<0.005	0.03	24.3	<0.005	0.969	0.017	<0.01	0.012	
E6631232 (7878129)	<0.005	0.01	26.6	<0.005	0.749	0.014	<0.01	0.010	
E6631233 (7878130)	<0.005	0.03	24.8	<0.005	0.941	0.017	<0.01	0.012	
E6631234 (7878131)	<0.005	0.03	24.4	<0.005	1.03	0.018	<0.01	0.012	
E6631235 (7878132)	<0.005	0.03	25.5	<0.005	0.898	0.019	<0.01	0.011	
E6631236 (7878133)	<0.005	0.01	24.7	<0.005	0.728	0.014	<0.01	0.013	
E6631237 (7878134)	<0.005	0.01	24.9	<0.005	0.836	0.014	<0.01	0.013	
E6631238 (7878135)	<0.005	<0.01	27.1	<0.005	0.752	0.012	<0.01	0.012	
E6631239 (7878136)	<0.005	0.03	25.0	<0.005	0.820	0.014	<0.01	0.013	
E6631240 (7878137)	<0.005	<0.01	22.7	<0.005	0.739	0.013	<0.01	0.011	
E6631241 (7878138)	<0.005	0.04	22.9	<0.005	0.968	0.014	<0.01	0.010	
E6631242 (7878139)	<0.005	0.03	25.8	<0.005	0.889	0.014	<0.01	0.012	
E6631243 (7878140)	<0.005	<0.01	26.3	<0.005	0.782	0.013	<0.01	0.012	
E6631244 (7878141)	<0.005	0.02	26.4	<0.005	0.848	0.013	<0.01	0.011	
E6631245 (7878142)	<0.005	0.02	25.2	<0.005	0.813	0.014	<0.01	0.012	
E6631246 (7878143)	<0.005	0.01	24.0	<0.005	0.753	0.012	<0.01	0.011	
E6631247 (7878144)	<0.005	0.03	24.9	<0.005	0.719	0.014	<0.01	0.012	
E6631248 (7878145)	<0.005	0.01	26.8	<0.005	0.765	0.013	<0.01	0.012	
E6631249 (7878146)	<0.005	0.02	26.7	<0.005	0.767	0.012	<0.01	0.010	
E6631250 (7878147)	<0.005	0.02	26.4	<0.005	0.803	0.011	<0.01	0.010	
E6631251 (7878148)	<0.005	0.03	26.1	<0.005	0.860	0.011	<0.01	0.013	
E6631252 (7878149)	<0.005	0.04	24.3	<0.005	0.952	0.013	<0.01	0.011	
E6631253 (7878150)	<0.005	0.02	24.1	<0.005	0.825	0.011	<0.01	0.012	
E6631254 (7878151)	<0.005	0.03	25.3	<0.005	0.974	0.012	<0.01	0.011	
E6631255 (7878152)	<0.005	0.04	24.8	<0.005	0.926	0.013	<0.01	0.012	
E6631256 (7878154)	<0.005	0.03	26.8	<0.005	0.772	0.011	<0.01	0.011	
E6631257 (7878155)	<0.005	0.04	26.4	<0.005	0.730	0.010	<0.01	0.011	
E6631258 (7878156)	<0.005	0.03	26.8	<0.005	0.726	0.010	<0.01	0.011	
E6631259 (7878157)	<0.005	0.03	27.0	<0.005	0.749	0.011	<0.01	0.010	
E6631260 (7878158)	<0.005	0.04	26.9	<0.005	0.788	0.010	<0.01	0.010	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016					DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631261 (7878159)	<0.005	0.03	27.3	<0.005	0.798	0.011	<0.01	0.010	
E6631262 (7878160)	<0.005	0.02	25.9	<0.005	0.791	0.010	<0.01	0.010	
E6631263 (7878161)	<0.005	0.03	26.6	<0.005	0.852	0.010	<0.01	0.012	
E6631264 (7878162)	<0.005	0.02	25.2	<0.005	0.779	0.010	<0.01	0.011	
E6631265 (7878163)	<0.005	0.03	25.2	<0.005	0.801	0.011	<0.01	0.010	
E6631266 (7878164)	<0.005	0.02	25.5	<0.005	0.807	0.012	<0.01	0.010	
E6631267 (7878165)	<0.005	0.04	25.4	<0.005	0.729	0.011	<0.01	0.011	
E6631268 (7878166)	<0.005	0.08	25.5	<0.005	0.872	0.011	<0.01	0.012	
E6631269 (7878167)	<0.005	0.03	26.1	<0.005	0.865	0.011	<0.01	0.010	
E6631270 (7878168)	<0.005	0.02	26.6	<0.005	0.830	0.011	<0.01	0.009	
E6631271 (7878169)	<0.005	0.03	25.5	<0.005	0.886	0.012	<0.01	0.011	
E6631272 (7878170)	<0.005	0.03	26.1	<0.005	0.828	0.012	<0.01	0.011	
E6631273 (7878171)	<0.005	0.03	26.3	<0.005	0.791	0.011	<0.01	0.011	
E6631274 (7878172)	<0.005	0.03	26.5	<0.005	0.960	0.012	<0.01	0.010	
E6631275 (7878173)	<0.005	0.02	24.5	<0.005	0.784	0.011	<0.01	0.011	
E6631276 (7878174)	<0.005	0.02	25.7	<0.005	0.782	0.011	<0.01	0.011	
E6631277 (7878175)	<0.005	0.02	25.9	<0.005	0.814	0.011	<0.01	0.011	
E6631278 (7878176)	<0.005	0.04	26.5	<0.005	0.791	0.010	<0.01	0.010	
E6631279 (7878177)	<0.005	0.02	25.8	<0.005	0.818	0.011	<0.01	0.010	
E6631280 (7878178)	<0.005	0.04	19.7	<0.005	0.540	0.011	<0.01	0.009	
E6631281 (7878179)	<0.005	0.03	25.5	<0.005	0.836	0.012	<0.01	0.011	
E6631282 (7878180)	<0.005	0.02	25.8	<0.005	0.750	0.011	<0.01	0.011	
E6631283 (7878181)	<0.005	0.02	25.5	<0.005	0.778	0.011	<0.01	0.011	
E6631284 (7878182)	<0.005	0.03	23.8	<0.005	0.837	0.013	<0.01	0.012	
E6631285 (7878183)	<0.005	0.03	25.9	<0.005	0.851	0.011	<0.01	0.010	
E6631286 (7878184)	<0.005	0.02	25.2	<0.005	0.612	0.011	<0.01	0.009	
E6631287 (7878185)	<0.005	0.03	24.0	<0.005	0.622	0.017	<0.01	0.012	
E6631288 (7878186)	<0.005	0.04	25.0	<0.005	0.594	0.018	<0.01	0.012	
E6631289 (7878187)	<0.005	0.04	25.8	<0.005	0.653	0.018	<0.01	0.012	
E6631290 (7878188)	<0.005	0.03	23.9	<0.005	0.713	0.015	<0.01	0.011	
E6631291 (7878189)	<0.005	0.02	24.9	<0.005	0.720	0.014	<0.01	0.012	
E6631292 (7878190)	<0.005	0.02	24.5	<0.005	0.762	0.014	<0.01	0.011	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016				DATE REPORTED: Oct 24, 2016				SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
Sample ID (AGAT ID)									
E6631293 (7878191)	<0.005	0.04	21.7	<0.005	0.606	0.019	<0.01	0.011	
E6631294 (7878192)	<0.005	0.02	25.9	<0.005	0.912	0.013	<0.01	0.010	
E6631295 (7878193)	<0.005	0.03	24.3	<0.005	0.775	0.013	<0.01	0.011	
E6631296 (7878194)	<0.005	0.01	24.5	<0.005	0.666	0.012	<0.01	0.012	
E6631297 (7878195)	<0.005	0.02	21.8	<0.005	0.747	0.009	<0.01	0.013	
E6631298 (7878196)	<0.005	0.04	20.8	<0.005	0.564	0.017	<0.01	0.010	
E6631299 (7878197)	<0.005	0.04	19.9	<0.005	0.562	0.017	<0.01	0.012	
E6631300 (7878198)	<0.005	0.02	22.5	<0.005	0.575	0.013	<0.01	0.009	
E6631301 (7878199)	<0.005	0.04	20.7	<0.005	0.575	0.015	<0.01	0.010	
E6631302 (7878200)	<0.005	0.04	22.2	<0.005	0.606	0.015	<0.01	0.009	
E6631303 (7878201)	<0.005	0.04	20.9	<0.005	0.548	0.013	<0.01	0.009	
E6631304 (7878202)	<0.005	0.10	15.5	<0.005	0.669	0.006	<0.01	0.008	
E6631305 (7878203)	<0.005	0.02	24.8	<0.005	0.747	0.010	<0.01	0.013	
E6631306 (7878204)	<0.005	0.02	25.1	<0.005	0.742	0.010	<0.01	0.013	
E6631307 (7878205)	<0.005	0.03	23.6	<0.005	0.824	0.011	<0.01	0.013	
E6631308 (7878206)	<0.005	0.03	24.4	<0.005	0.696	0.009	<0.01	0.013	
E6631309 (7878207)	<0.005	0.03	28.8	<0.005	0.875	0.013	<0.01	0.013	
E6631310 (7878208)	<0.005	<0.01	30.4	<0.005	0.762	0.011	<0.01	0.011	
E6631311 (7878209)	<0.005	0.09	19.0	<0.005	0.886	0.013	<0.01	0.015	
E6631312 (7878210)	<0.005	<0.01	30.4	<0.005	0.603	0.008	<0.01	0.009	
E6631313 (7878211)	<0.005	0.04	23.9	<0.005	0.741	0.010	<0.01	0.009	
E6631314 (7878212)	<0.005	0.02	28.7	<0.005	0.690	0.009	<0.01	0.012	
E6631315 (7878213)	<0.005	<0.01	28.9	<0.005	0.728	0.010	<0.01	0.012	
E6631316 (7878214)	<0.005	<0.01	30.3	<0.005	0.716	0.010	<0.01	0.011	
E6631317 (7878215)	<0.005	0.04	25.3	<0.005	0.736	0.007	<0.01	0.011	
E6631318 (7878216)	<0.005	0.08	20.8	<0.005	0.885	0.011	<0.01	0.008	
E6631319 (7878217)	<0.005	0.01	29.6	<0.005	0.662	0.010	<0.01	0.011	
E6631320 (7878218)	<0.005	0.05	22.5	<0.005	0.729	0.010	<0.01	0.009	
E6631321 (7878219)	<0.005	0.03	32.2	<0.005	0.690	0.009	<0.01	0.009	
E6631322 (7878220)	<0.005	0.03	29.1	<0.005	0.735	0.009	<0.01	0.011	
E6631323 (7878221)	<0.005	0.09	16.8	<0.005	0.768	0.008	<0.01	0.007	
E6631324 (7878222)	<0.005	0.08	14.0	<0.005	0.931	0.010	<0.01	0.005	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016					DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631325 (7878223)	<0.005	0.08	19.6	<0.005	0.801	0.009	<0.01	0.008	
E6631326 (7878224)	<0.005	0.02	26.3	<0.005	0.675	0.009	<0.01	0.011	
E6631327 (7878225)	<0.005	0.04	23.8	<0.005	0.699	0.009	<0.01	0.012	
E6631328 (7878226)	<0.005	0.02	25.8	<0.005	0.960	0.010	<0.01	0.014	
E6631329 (7878227)	0.006	0.03	22.5	<0.005	0.883	0.006	<0.01	0.020	
E6631330 (7878228)	<0.005	<0.01	31.9	<0.005	0.657	0.009	<0.01	0.008	
E6631331 (7878229)	<0.005	0.03	28.8	<0.005	0.771	0.010	<0.01	0.012	
E6631332 (7878230)	<0.005	<0.01	26.9	<0.005	0.903	0.015	<0.01	0.012	
E6631333 (7878231)	<0.005	0.07	18.8	<0.005	0.954	0.012	<0.01	0.007	
E6631334 (7878232)	<0.005	0.03	25.6	<0.005	0.724	0.007	<0.01	0.011	
E6631335 (7878233)	<0.005	0.06	21.0	<0.005	0.749	0.007	<0.01	0.010	
E6631336 (7878234)	<0.005	0.09	15.1	<0.005	0.747	0.007	<0.01	0.008	
E6631337 (7878235)	<0.005	0.06	22.5	<0.005	0.903	0.010	<0.01	0.011	
E6631338 (7878236)	<0.005	0.02	28.2	<0.005	0.730	0.009	<0.01	0.012	
E6631339 (7878237)	<0.005	0.03	27.3	<0.005	0.704	0.007	<0.01	0.013	
E6631340 (7878238)	<0.005	<0.01	31.5	<0.005	0.613	0.009	<0.01	0.010	
E6631341 (7878239)	<0.005	0.01	28.5	<0.005	0.695	0.009	<0.01	0.010	
E6631342 (7878240)	<0.005	0.03	26.1	<0.005	0.720	0.009	<0.01	0.010	
E6631343 (7878241)	<0.005	0.03	29.0	<0.005	0.768	0.012	<0.01	0.011	
E6631344 (7878242)	<0.005	0.02	26.9	<0.005	0.705	0.009	<0.01	0.012	
E6631345 (7878243)	<0.005	<0.01	28.7	<0.005	0.737	0.011	<0.01	0.010	
E6631346 (7878244)	<0.005	<0.01	28.7	<0.005	0.641	0.013	<0.01	0.010	
E6631347 (7878245)	<0.005	0.05	24.9	<0.005	0.700	0.008	<0.01	0.011	
E6631348 (7878246)	<0.005	0.03	25.9	<0.005	0.645	0.013	<0.01	0.013	
E6631349 (7878247)	<0.005	0.09	20.1	<0.005	0.467	0.008	<0.01	0.014	
E6631350 (7878248)	<0.005	0.12	23.3	<0.005	0.515	0.007	<0.01	0.013	
E6631351 (7878249)	<0.005	0.01	29.2	<0.005	0.714	0.008	<0.01	0.009	
E6631352 (7878250)	<0.005	0.04	28.4	<0.005	0.616	0.011	<0.01	0.012	
E6631353 (7878251)	<0.005	0.01	27.3	<0.005	0.757	0.008	<0.01	0.013	
E6631354 (7878252)	<0.005	0.03	28.3	<0.005	0.698	0.013	<0.01	0.009	
E6631355 (7878253)	<0.005	0.03	28.9	<0.005	0.642	0.012	<0.01	0.011	
E6631356 (7878254)	<0.005	<0.01	28.3	<0.005	0.637	0.011	<0.01	0.011	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016				DATE REPORTED: Oct 24, 2016				SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631357 (7878255)	<0.005	0.04	26.7	<0.005	0.564	0.015	<0.01	0.013	
E6631358 (7878256)	<0.005	0.19	24.1	<0.005	0.484	0.028	<0.01	0.019	
E6631359 (7878257)	<0.005	0.14	27.8	<0.005	0.550	0.043	<0.01	0.023	
E6631360 (7878258)	<0.005	0.13	20.2	<0.005	0.412	0.039	<0.01	0.024	
E6631361 (7878259)	<0.005	0.13	19.9	<0.005	0.450	0.006	<0.01	0.011	
E6631362 (7878260)	<0.005	0.05	24.8	<0.005	0.633	0.015	<0.01	0.011	
E6631363 (7878261)	<0.005	0.03	24.3	<0.005	0.557	0.010	<0.01	0.013	
E6631364 (7878262)	<0.005	0.02	23.9	<0.005	0.717	0.009	<0.01	0.015	
E6631365 (7878263)	<0.005	<0.01	27.8	<0.005	0.696	0.009	<0.01	0.013	
E6631366 (7878264)	<0.005	0.03	23.9	<0.005	0.771	0.009	<0.01	0.013	
E6631367 (7878265)	<0.005	0.03	21.8	<0.005	0.917	0.012	<0.01	0.017	
E6631368 (7878266)	<0.005	0.03	22.2	<0.005	1.66	0.018	<0.01	0.013	
E6631369 (7878267)	<0.005	0.04	19.0	<0.005	1.36	0.016	<0.01	0.015	
E6631370 (7878268)	<0.005	<0.01	32.6	<0.005	0.597	0.008	<0.01	0.008	
E6631371 (7878269)	<0.005	0.07	17.9	<0.005	0.572	<0.005	<0.01	0.012	
E6631372 (7878270)	<0.005	0.03	23.6	<0.005	0.617	0.008	<0.01	0.012	
E6631373 (7878271)	<0.005	0.02	28.2	<0.005	0.601	0.007	<0.01	0.009	
E6631374 (7878272)	<0.005	0.04	23.7	<0.005	0.614	0.010	<0.01	0.009	
E6631375 (7878273)	<0.005	0.08	21.1	<0.005	0.556	0.006	<0.01	0.013	
E6631376 (7878274)	<0.005	0.06	22.6	<0.005	0.510	0.008	<0.01	0.014	
E6631377 (7878275)	<0.005	0.09	22.6	<0.005	0.495	0.010	<0.01	0.013	
E6631378 (7878276)	<0.005	0.05	21.3	<0.005	1.32	0.014	<0.01	0.021	
E6631379 (7878277)	<0.005	0.05	21.6	<0.005	1.05	0.015	<0.01	0.017	
E6631380 (7878279)	<0.005	0.02	25.0	<0.005	0.632	0.009	<0.01	0.012	
E6631381 (7878280)	<0.005	<0.01	29.6	<0.005	0.569	0.011	<0.01	0.009	
E6631382 (7878281)	<0.005	0.03	28.1	<0.005	0.644	0.011	<0.01	0.010	
E6631383 (7878282)	<0.005	0.03	23.3	<0.005	0.842	0.010	<0.01	0.014	
E6631384 (7878283)	<0.005	0.02	22.5	<0.005	0.667	0.009	<0.01	0.014	
E6631385 (7878284)	<0.005	0.02	24.3	<0.005	0.615	0.009	<0.01	0.014	
E6631386 (7878285)	<0.005	0.04	25.3	<0.005	0.890	0.010	<0.01	0.011	
E6631387 (7878286)	<0.005	<0.01	28.7	<0.005	0.633	0.007	<0.01	0.011	
E6631388 (7878287)	<0.005	<0.01	30.2	<0.005	0.567	0.007	<0.01	0.012	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016					DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631389 (7878288)	<0.005	0.07	24.6	<0.005	0.516	0.005	<0.01	0.010	
E6631390 (7878289)	<0.005	<0.01	27.8	<0.005	0.522	0.007	<0.01	0.015	
E6631391 (7878290)	<0.005	0.02	28.0	<0.005	0.563	0.011	<0.01	0.010	
E6631392 (7878291)	<0.005	0.03	26.5	<0.005	0.559	0.010	<0.01	0.009	
E6631393 (7878292)	<0.005	0.13	12.4	<0.005	0.263	<0.005	<0.01	0.006	
E6631394 (7878293)	<0.005	0.17	9.92	<0.005	0.228	<0.005	<0.01	0.006	
E6631395 (7878294)	<0.005	0.04	21.9	<0.005	0.522	0.006	<0.01	0.011	
E6631396 (7878295)	<0.005	0.08	18.5	<0.005	0.499	<0.005	<0.01	0.010	
E6631397 (7878296)	<0.005	0.14	13.3	<0.005	0.310	<0.005	<0.01	0.010	
E6631398 (7878297)	<0.005	0.10	13.8	<0.005	0.345	<0.005	<0.01	0.012	
E6631399 (7878298)	<0.005	0.04	23.7	<0.005	0.944	0.011	<0.01	0.017	
E6631400 (7878299)	<0.005	0.06	19.7	<0.005	0.769	0.009	<0.01	0.011	
E6631401 (7878300)	<0.005	0.04	22.2	<0.005	0.759	0.008	<0.01	0.011	
E6631402 (7878301)	<0.005	0.03	27.4	<0.005	0.601	0.009	<0.01	0.009	
E6631403 (7878302)	<0.005	0.03	24.7	<0.005	0.629	0.008	<0.01	0.014	
E6631404 (7878303)	<0.005	<0.01	27.0	<0.005	0.610	0.008	<0.01	0.012	
E6631405 (7878304)	<0.005	0.02	24.7	<0.005	0.667	0.009	<0.01	0.011	
E6631406 (7878305)	<0.005	0.02	26.5	<0.005	0.612	0.009	<0.01	0.011	
E6631407 (7878306)	<0.005	0.01	29.4	<0.005	0.638	0.010	<0.01	0.009	
E6631408 (7878307)	<0.005	0.03	26.6	<0.005	0.680	0.009	<0.01	0.012	
E6631409 (7878308)	<0.005	0.03	24.3	<0.005	0.651	0.008	<0.01	0.012	
E6631410 (7878309)	<0.005	0.27	27.9	<0.005	0.943	0.016	<0.01	0.008	
E6631411 (7878310)	<0.005	0.30	27.0	<0.005	1.02	0.015	<0.01	0.008	
E6631412 (7878311)	<0.005	<0.01	28.7	<0.005	0.955	0.016	<0.01	0.008	
E6631413 (7878312)	<0.005	0.02	29.6	<0.005	1.10	0.016	<0.01	0.008	
E6631414 (7878313)	<0.005	0.02	27.5	<0.005	1.23	0.015	<0.01	0.007	
E6631415 (7878314)	<0.005	0.01	28.4	<0.005	1.13	0.017	<0.01	0.007	
E6631416 (7878315)	<0.005	<0.01	27.7	<0.005	0.858	0.014	<0.01	0.008	
E6631417 (7878316)	<0.005	<0.01	29.2	<0.005	0.844	0.014	<0.01	0.007	
E6631418 (7878317)	<0.005	<0.01	30.1	<0.005	0.953	0.016	<0.01	0.007	
E6631419 (7878318)	<0.005	0.01	28.5	<0.005	1.04	0.016	<0.01	0.008	
E6631420 (7878319)	<0.005	0.03	30.1	<0.005	1.07	0.016	<0.01	0.007	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016					DATE REPORTED: Oct 24, 2016			SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
Sample ID (AGAT ID)									
E6631421 (7878320)	<0.005	0.02	25.6	<0.005	0.919	0.012	<0.01	0.010	
E6631422 (7878321)	<0.005	0.02	27.6	<0.005	1.14	0.017	<0.01	0.009	
E6631423 (7878322)	<0.005	<0.01	27.5	<0.005	0.819	0.017	<0.01	0.008	
E6631424 (7878323)	<0.005	0.16	29.0	<0.005	0.968	0.013	<0.01	0.007	
E6631425 (7878324)	<0.005	0.06	28.4	<0.005	0.981	0.016	<0.01	0.009	
E6631426 (7878325)	<0.005	0.16	28.3	<0.005	0.945	0.015	<0.01	0.010	
E6631427 (7878326)	<0.005	0.12	27.7	<0.005	1.06	0.016	<0.01	0.009	
E6631428 (7878327)	<0.005	0.10	28.6	<0.005	1.13	0.016	<0.01	0.008	
E6631429 (7878328)	<0.005	0.04	28.5	<0.005	1.14	0.018	<0.01	0.009	
E6631430 (7878329)	<0.005	0.03	29.7	<0.005	1.04	0.014	<0.01	0.007	
E6631431 (7878330)	<0.005	0.02	28.5	<0.005	1.22	0.014	<0.01	0.008	
E6631432 (7878331)	<0.005	0.03	25.7	<0.005	1.27	0.020	<0.01	0.007	
E6631433 (7878332)	<0.005	0.03	27.2	<0.005	1.08	0.014	<0.01	0.007	
E6631434 (7878333)	<0.005	0.09	24.2	<0.005	0.627	0.024	<0.01	0.008	
E6631435 (7878334)	<0.005	0.01	26.8	<0.005	0.944	0.014	<0.01	0.008	
E6631436 (7878335)	<0.005	0.04	22.1	<0.005	1.06	0.019	<0.01	0.008	
E6631437 (7878336)	<0.005	0.02	28.4	<0.005	1.13	0.014	<0.01	0.008	
E6631438 (7878337)	<0.005	0.03	27.3	<0.005	1.10	0.017	<0.01	0.010	
E6631439 (7878338)	<0.005	0.06	29.9	<0.005	1.09	0.014	<0.01	0.008	
E6631440 (7878339)	<0.005	0.10	28.4	<0.005	1.07	0.015	<0.01	0.009	
E6631441 (7878340)	<0.005	0.25	21.9	<0.005	0.874	0.015	<0.01	0.010	
E6631442 (7878341)	<0.005	0.17	27.3	<0.005	0.948	0.012	<0.01	0.006	
E6631443 (7878342)	<0.005	0.03	25.7	<0.005	0.803	0.013	<0.01	0.010	
E6631444 (7878343)	<0.005	0.04	26.1	<0.005	1.47	0.016	<0.01	0.008	
E6631445 (7878344)	<0.005	0.05	23.3	<0.005	0.862	0.013	<0.01	0.009	
E6631446 (7878345)	<0.005	0.04	23.7	<0.005	0.769	0.016	<0.01	0.008	
E6631447 (7878346)	<0.005	0.02	24.8	<0.005	0.849	0.014	<0.01	0.008	
E6631448 (7878347)	<0.005	0.02	22.1	<0.005	1.00	0.018	<0.01	0.012	
E6631449 (7878348)	<0.005	<0.01	23.4	<0.005	1.10	0.019	<0.01	0.009	
E6631450 (7878349)	<0.005	0.06	21.7	<0.005	0.746	0.015	<0.01	0.006	
E6631451 (7878350)	<0.005	0.02	26.8	<0.005	0.877	0.012	<0.01	0.008	
E6631452 (7878351)	<0.005	0.02	25.7	<0.005	0.918	0.014	<0.01	0.008	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016				DATE REPORTED: Oct 24, 2016				SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
RDL:	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	
E6631453 (7878352)	<0.005	0.03	27.3	<0.005	0.961	0.015	<0.01	0.008	
E6631454 (7878353)	<0.005	0.15	24.2	<0.005	0.996	0.016	<0.01	0.009	
E6631455 (7878354)	<0.005	0.12	23.8	<0.005	0.830	0.013	<0.01	0.008	
E6631456 (7878355)	<0.005	0.01	26.3	<0.005	0.829	0.014	<0.01	0.008	
E6631457 (7878356)	<0.005	0.09	26.2	<0.005	0.761	0.012	<0.01	0.010	
E6631458 (7878357)	<0.005	0.02	26.0	<0.005	0.774	0.010	<0.01	0.008	
E6631459 (7878358)	<0.005	0.03	26.3	<0.005	0.860	0.013	<0.01	0.008	
E6631460 (7878359)	<0.005	0.04	26.4	<0.005	0.877	0.013	<0.01	0.009	
E6631461 (7878360)	<0.005	0.03	23.6	<0.005	0.731	0.013	<0.01	0.008	
E6631462 (7878361)	<0.005	0.06	21.5	<0.005	0.724	0.013	<0.01	0.010	
E6631463 (7878362)	<0.005	0.05	21.5	<0.005	0.867	0.012	<0.01	0.006	
E6631464 (7878363)	<0.005	0.02	26.9	<0.005	0.812	0.011	<0.01	0.007	
E6631465 (7878364)	<0.005	0.02	25.0	<0.005	0.754	0.012	<0.01	0.008	
E6631466 (7878365)	<0.005	0.06	23.2	<0.005	0.660	0.011	<0.01	0.009	
E6631467 (7878366)	<0.005	0.04	23.0	<0.005	0.649	0.011	<0.01	0.010	
E6631468 (7878367)	<0.005	0.05	22.4	<0.005	0.675	0.011	<0.01	0.007	
E6631469 (7878368)	<0.005	0.05	22.0	<0.005	0.637	0.011	<0.01	0.008	
E6631470 (7878369)	<0.005	<0.01	28.7	<0.005	0.524	0.008	<0.01	0.011	
E6631471 (7878370)	<0.005	<0.01	27.7	<0.005	0.505	0.008	<0.01	0.010	
E6631472 (7878371)	<0.005	0.04	30.5	<0.005	1.10	0.015	<0.01	0.008	
E6631473 (7878372)	<0.005	0.14	27.2	<0.005	0.867	0.014	<0.01	0.010	
E6632001 (7878373)	<0.005	0.23	19.0	<0.005	0.547	0.024	<0.01	0.008	
E6632002 (7878374)	<0.005	0.35	19.3	<0.005	0.352	0.015	<0.01	0.007	
E6632003 (7878375)	<0.005	0.44	26.8	<0.005	0.252	0.011	<0.01	0.019	
E6632004 (7878376)	0.005	0.68	27.8	<0.005	0.210	0.008	<0.01	0.037	
E6632005 (7878377)	<0.005	0.40	17.4	<0.005	0.574	0.019	<0.01	0.007	
E6632006 (7878378)	<0.005	0.19	22.2	<0.005	0.503	0.018	<0.01	0.010	
E6632007 (7878379)	<0.005	0.42	30.5	<0.005	0.112	<0.005	<0.01	0.010	
E6632008 (7878380)	<0.005	0.01	39.1	<0.005	0.031	<0.005	<0.01	<0.005	
E6632009 (7878381)	<0.005	0.07	29.8	<0.005	0.177	0.013	<0.01	0.178	
E6632010 (7878382)	0.987	0.77	37.4	<0.005	0.010	<0.005	<0.01	0.842	
E6632011 (7878383)	<0.005	0.37	34.9	<0.005	0.297	0.011	<0.01	<0.005	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

### (201-079) Sodium Peroxide Fusion - ICP-OES finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016				DATE REPORTED: Oct 24, 2016				SAMPLE TYPE: Other
Analyte:	Pb	S	Si	Sn	Ti	V	W	Zn	
Unit:	%	%	%	%	%	%	%	%	
Sample ID (AGAT ID)	RDL:								
E6632012 (7878384)	<0.005	0.21	32.7	<0.005	0.325	0.012	<0.01	<0.005	
E6632013 (7878385)	0.006	<0.01	45.3	<0.005	<0.005	<0.005	<0.01	<0.005	
E6632014 (7878386)	0.014	0.25	30.9	<0.005	0.224	<0.005	<0.01	0.006	
E6632015 (7878387)	0.007	0.17	31.9	<0.005	0.239	0.005	<0.01	<0.005	
E6632016 (7878388)	0.012	0.15	30.8	<0.005	0.258	0.006	<0.01	<0.005	
E6632017 (7878389)	0.045	1.35	30.8	<0.005	0.155	<0.005	<0.01	0.317	
E6632018 (7878390)	<0.005	11.4	6.64	<0.005	0.031	<0.005	<0.01	0.024	
E6632019 (7878391)	0.027	7.20	14.4	<0.005	0.015	<0.005	<0.01	0.036	
E6632020 (7878392)	<0.005	0.44	16.1	<0.005	0.741	0.024	<0.01	0.015	
E6632021 (7878393)	0.011	0.16	26.9	<0.005	0.270	0.007	<0.01	0.024	
E6632022 (7878394)	<0.005	0.44	6.11	<0.005	0.135	<0.005	<0.01	0.008	
E6632023 (7878395)	0.038	0.79	27.9	<0.005	0.093	<0.005	<0.01	0.066	
E6632024 (7878396)	0.054	0.39	25.3	<0.005	0.185	<0.005	<0.01	0.197	
E6632025 (7878397)	0.047	1.03	23.3	<0.005	0.159	<0.005	<0.01	0.188	
E6632026 (7878398)	0.609	4.70	29.9	<0.005	0.011	<0.005	0.01	9.57	
E6632027 (7878399)	<0.005	0.13	21.5	<0.005	1.42	0.011	<0.01	0.024	
E6632028 (7878400)	0.018	0.28	38.4	<0.005	0.076	<0.005	<0.01	0.034	
E6632029 (7878402)	0.599	3.74	31.3	<0.005	0.012	<0.005	0.01	10.3	
E6632030 (7878403)	1.78	4.07	29.2	<0.005	0.051	<0.005	<0.01	5.70	
E6632031 (7878404)	0.087	1.50	35.2	<0.005	0.032	<0.005	<0.01	0.657	
E6632032 (7878405)	<0.005	0.14	21.2	<0.005	1.42	0.012	<0.01	0.018	
E6632033 (7878406)	0.190	1.15	34.1	<0.005	0.027	<0.005	<0.01	0.021	
E6632034 (7878407)	0.189	0.59	34.7	<0.005	0.111	<0.005	<0.01	0.124	
E6632035 (7878408)	<0.005	0.09	42.8	<0.005	0.036	<0.005	<0.01	<0.005	

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016	DATE REPORTED: Oct 24, 2016	SAMPLE TYPE: Other
Analyte:	Au	Au-Grav	
Unit:	ppm	g/t	
RDL:	0.001	0.5	
Sample ID (AGAT ID)			
E6631101 (7877997)	0.009		
E6631102 (7877998)	0.005		
E6631103 (7877999)	0.008		
E6631104 (7878000)	0.010		
E6631105 (7878001)	0.012		
E6631106 (7878002)	0.008		
E6631107 (7878003)	0.012		
E6631108 (7878004)	0.011		
E6631109 (7878005)	0.019		
E6631110 (7878006)	0.018		
E6631111 (7878007)	0.016		
E6631112 (7878008)	0.019		
E6631113 (7878009)	0.011		
E6631114 (7878010)	0.019		
E6631115 (7878011)	0.014		
E6631116 (7878012)	0.013		
E6631117 (7878013)	0.008		
E6631118 (7878014)	0.010		
E6631119 (7878015)	0.004		
E6631120 (7878016)	0.003		
E6631121 (7878017)	0.004		
E6631122 (7878018)	0.005		
E6631123 (7878019)	0.003		
E6631124 (7878020)	0.005		
E6631125 (7878021)	0.004		
E6631126 (7878022)	0.004		
E6631127 (7878023)	0.009		
E6631128 (7878024)	0.002		
E6631129 (7878025)	0.003		
E6631130 (7878026)	0.004		
E6631131 (7878027)	0.002		
E6631132 (7878028)	0.004		

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631133 (7878029)		0.004	
E6631134 (7878030)		0.006	
E6631135 (7878031)		0.005	
E6631136 (7878032)		0.003	
E6631137 (7878033)		0.018	
E6631138 (7878034)		0.015	
E6631139 (7878035)		0.004	
E6631140 (7878036)		0.009	
E6631141 (7878037)		0.008	
E6631142 (7878038)		0.009	
E6631143 (7878039)		0.012	
E6631144 (7878040)		0.085	
E6631145 (7878041)		0.074	
E6631146 (7878042)		0.006	
E6631147 (7878043)		0.004	
E6631148 (7878044)		0.015	
E6631149 (7878045)		0.006	
E6631150 (7878046)		0.002	
E6631151 (7878047)		0.002	
E6631152 (7878049)		0.002	
E6631153 (7878050)		0.003	
E6631154 (7878051)		0.002	
E6631155 (7878052)		0.002	
E6631156 (7878053)		0.002	
E6631157 (7878054)		0.004	
E6631158 (7878055)		0.005	
E6631159 (7878056)		0.004	
E6631160 (7878057)		0.003	
E6631161 (7878058)		0.004	
E6631162 (7878059)		0.009	
E6631163 (7878060)		0.008	
E6631164 (7878061)		0.006	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631165 (7878062)		0.004	
E6631166 (7878063)		0.008	
E6631167 (7878064)		0.003	
E6631168 (7878065)		0.006	
E6631169 (7878066)		0.003	
E6631170 (7878067)		0.005	
E6631171 (7878068)		0.003	
E6631172 (7878069)		0.004	
E6631173 (7878070)		0.008	
E6631174 (7878071)		0.036	
E6631175 (7878072)		0.018	
E6631176 (7878073)		0.011	
E6631177 (7878074)		0.010	
E6631178 (7878075)		0.008	
E6631179 (7878076)		0.006	
E6631180 (7878077)		0.243	
E6631181 (7878078)		0.224	
E6631182 (7878079)		0.168	
E6631183 (7878080)		0.331	
E6631184 (7878081)		0.221	
E6631185 (7878082)		0.109	
E6631186 (7878083)		0.005	
E6631187 (7878084)		0.006	
E6631188 (7878085)		0.006	
E6631189 (7878086)		0.008	
E6631190 (7878087)		0.004	
E6631191 (7878088)		0.010	
E6631192 (7878089)		0.025	
E6631193 (7878090)		0.032	
E6631194 (7878091)		0.002	
E6631195 (7878092)		0.004	
E6631196 (7878093)		0.006	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631197 (7878094)		0.005	
E6631198 (7878095)		0.004	
E6631199 (7878096)		0.005	
E6631200 (7878097)		0.004	
E6631201 (7878098)		0.005	
E6631202 (7878099)		0.004	
E6631203 (7878100)		0.007	
E6631204 (7878101)		0.005	
E6631205 (7878102)		0.003	
E6631206 (7878103)		0.005	
E6631207 (7878104)		0.004	
E6631208 (7878105)		0.007	
E6631209 (7878106)		0.007	
E6631210 (7878107)		0.005	
E6631211 (7878108)		0.004	
E6631212 (7878109)		0.005	
E6631213 (7878110)		0.005	
E6631214 (7878111)		0.022	
E6631215 (7878112)		0.004	
E6631216 (7878113)		0.005	
E6631217 (7878114)		0.005	
E6631218 (7878115)		0.004	
E6631219 (7878116)		0.004	
E6631220 (7878117)		0.004	
E6631221 (7878118)		0.005	
E6631222 (7878119)		0.005	
E6631223 (7878120)		0.004	
E6631224 (7878121)		0.011	
E6631225 (7878122)		0.005	
E6631226 (7878123)		0.005	
E6631227 (7878124)		0.004	
E6631228 (7878125)		0.005	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631229 (7878126)		0.007	
E6631230 (7878127)		0.024	
E6631231 (7878128)		0.013	
E6631232 (7878129)		0.004	
E6631233 (7878130)		0.007	
E6631234 (7878131)		0.010	
E6631235 (7878132)		0.006	
E6631236 (7878133)		0.004	
E6631237 (7878134)		0.011	
E6631238 (7878135)		0.004	
E6631239 (7878136)		0.010	
E6631240 (7878137)		0.007	
E6631241 (7878138)		0.006	
E6631242 (7878139)		0.021	
E6631243 (7878140)		0.004	
E6631244 (7878141)		0.006	
E6631245 (7878142)		0.007	
E6631246 (7878143)		0.006	
E6631247 (7878144)		0.005	
E6631248 (7878145)		0.006	
E6631249 (7878146)		0.007	
E6631250 (7878147)		0.004	
E6631251 (7878148)		0.006	
E6631252 (7878149)		0.004	
E6631253 (7878150)		0.003	
E6631254 (7878151)		0.007	
E6631255 (7878152)		0.005	
E6631256 (7878154)		0.008	
E6631257 (7878155)		0.007	
E6631258 (7878156)		0.010	
E6631259 (7878157)		0.005	
E6631260 (7878158)		0.006	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631261 (7878159)		0.014	
E6631262 (7878160)		0.009	
E6631263 (7878161)		0.007	
E6631264 (7878162)		0.006	
E6631265 (7878163)		0.006	
E6631266 (7878164)		0.007	
E6631267 (7878165)		0.013	
E6631268 (7878166)		0.005	
E6631269 (7878167)		0.004	
E6631270 (7878168)		0.006	
E6631271 (7878169)		0.011	
E6631272 (7878170)		0.002	
E6631273 (7878171)		0.004	
E6631274 (7878172)		0.089	
E6631275 (7878173)		0.005	
E6631276 (7878174)		0.005	
E6631277 (7878175)		0.003	
E6631278 (7878176)		0.005	
E6631279 (7878177)		0.004	
E6631280 (7878178)		0.005	
E6631281 (7878179)		0.002	
E6631282 (7878180)		0.003	
E6631283 (7878181)		0.003	
E6631284 (7878182)		0.006	
E6631285 (7878183)		0.003	
E6631286 (7878184)		0.006	
E6631287 (7878185)		0.008	
E6631288 (7878186)		0.013	
E6631289 (7878187)		0.004	
E6631290 (7878188)		0.007	
E6631291 (7878189)		0.011	
E6631292 (7878190)		0.005	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016	DATE REPORTED: Oct 24, 2016	SAMPLE TYPE: Other
Analyte:	Au	Au-Grav	
Unit:	ppm	g/t	
RDL:	0.001	0.5	
Sample ID (AGAT ID)			
E6631293 (7878191)	0.004		
E6631294 (7878192)	0.003		
E6631295 (7878193)	0.003		
E6631296 (7878194)	0.005		
E6631297 (7878195)	0.004		
E6631298 (7878196)	0.009		
E6631299 (7878197)	0.008		
E6631300 (7878198)	0.005		
E6631301 (7878199)	0.008		
E6631302 (7878200)	0.007		
E6631303 (7878201)	0.020		
E6631304 (7878202)	0.004		
E6631305 (7878203)	0.006		
E6631306 (7878204)	0.004		
E6631307 (7878205)	0.007		
E6631308 (7878206)	0.004		
E6631309 (7878207)	0.015		
E6631310 (7878208)	0.020		
E6631311 (7878209)	0.012		
E6631312 (7878210)	0.010		
E6631313 (7878211)	0.007		
E6631314 (7878212)	0.011		
E6631315 (7878213)	0.010		
E6631316 (7878214)	0.014		
E6631317 (7878215)	0.007		
E6631318 (7878216)	0.009		
E6631319 (7878217)	0.011		
E6631320 (7878218)	0.010		
E6631321 (7878219)	0.018		
E6631322 (7878220)	0.014		
E6631323 (7878221)	0.006		
E6631324 (7878222)	0.004		

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631325 (7878223)		0.006	
E6631326 (7878224)		0.015	
E6631327 (7878225)		0.010	
E6631328 (7878226)		0.008	
E6631329 (7878227)		0.004	
E6631330 (7878228)		0.011	
E6631331 (7878229)		0.011	
E6631332 (7878230)		0.018	
E6631333 (7878231)		0.005	
E6631334 (7878232)		0.011	
E6631335 (7878233)		0.009	
E6631336 (7878234)		0.004	
E6631337 (7878235)		0.005	
E6631338 (7878236)		0.026	
E6631339 (7878237)		0.015	
E6631340 (7878238)		0.016	
E6631341 (7878239)		0.010	
E6631342 (7878240)		0.010	
E6631343 (7878241)		0.015	
E6631344 (7878242)		0.008	
E6631345 (7878243)		0.012	
E6631346 (7878244)		0.012	
E6631347 (7878245)		0.013	
E6631348 (7878246)		0.018	
E6631349 (7878247)		0.018	
E6631350 (7878248)		0.019	
E6631351 (7878249)		0.210	
E6631352 (7878250)		0.020	
E6631353 (7878251)		0.015	
E6631354 (7878252)		0.019	
E6631355 (7878253)		0.022	
E6631356 (7878254)		0.012	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631357 (7878255)		0.032	
E6631358 (7878256)		0.015	
E6631359 (7878257)		0.062	
E6631360 (7878258)		0.032	
E6631361 (7878259)		0.023	
E6631362 (7878260)		0.031	
E6631363 (7878261)		0.070	
E6631364 (7878262)		0.024	
E6631365 (7878263)		0.015	
E6631366 (7878264)		0.010	
E6631367 (7878265)		0.005	
E6631368 (7878266)		0.005	
E6631369 (7878267)		0.004	
E6631370 (7878268)		0.010	
E6631371 (7878269)		0.012	
E6631372 (7878270)		0.014	
E6631373 (7878271)		0.009	
E6631374 (7878272)		0.011	
E6631375 (7878273)		0.054	
E6631376 (7878274)		0.023	
E6631377 (7878275)		0.033	
E6631378 (7878276)		0.006	
E6631379 (7878277)		0.010	
E6631380 (7878279)		0.015	
E6631381 (7878280)		0.013	
E6631382 (7878281)		0.010	
E6631383 (7878282)		0.017	
E6631384 (7878283)		0.021	
E6631385 (7878284)		0.025	
E6631386 (7878285)		0.006	
E6631387 (7878286)		0.011	
E6631388 (7878287)		0.016	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016	DATE REPORTED: Oct 24, 2016	SAMPLE TYPE: Other
Analyte:	Au	Au-Grav	
Unit:	ppm	g/t	
RDL:	0.001	0.5	
Sample ID (AGAT ID)			
E6631389 (7878288)	0.017		
E6631390 (7878289)	0.011		
E6631391 (7878290)	0.011		
E6631392 (7878291)	0.015		
E6631393 (7878292)	0.022		
E6631394 (7878293)	0.013		
E6631395 (7878294)	0.027		
E6631396 (7878295)	0.021		
E6631397 (7878296)	0.054		
E6631398 (7878297)	0.027		
E6631399 (7878298)	0.011		
E6631400 (7878299)	0.008		
E6631401 (7878300)	0.006		
E6631402 (7878301)	0.013		
E6631403 (7878302)	0.015		
E6631404 (7878303)	0.013		
E6631405 (7878304)	0.014		
E6631406 (7878305)	0.012		
E6631407 (7878306)	0.022		
E6631408 (7878307)	0.022		
E6631409 (7878308)	0.013		
E6631410 (7878309)	0.005		
E6631411 (7878310)	0.005		
E6631412 (7878311)	0.007		
E6631413 (7878312)	0.005		
E6631414 (7878313)	0.004		
E6631415 (7878314)	0.006		
E6631416 (7878315)	0.012		
E6631417 (7878316)	0.006		
E6631418 (7878317)	0.005		
E6631419 (7878318)	0.005		
E6631420 (7878319)	0.003		

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Oct 24, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6631421 (7878320)		0.004	
E6631422 (7878321)		0.006	
E6631423 (7878322)		0.014	
E6631424 (7878323)		0.004	
E6631425 (7878324)		0.007	
E6631426 (7878325)		0.015	
E6631427 (7878326)		0.005	
E6631428 (7878327)		0.004	
E6631429 (7878328)		0.004	
E6631430 (7878329)		0.005	
E6631431 (7878330)		0.005	
E6631432 (7878331)		0.004	
E6631433 (7878332)		0.004	
E6631434 (7878333)		0.019	
E6631435 (7878334)		0.005	
E6631436 (7878335)		0.003	
E6631437 (7878336)		0.004	
E6631438 (7878337)		0.004	
E6631439 (7878338)		0.004	
E6631440 (7878339)		0.010	
E6631441 (7878340)		0.007	
E6631442 (7878341)		0.005	
E6631443 (7878342)		0.004	
E6631444 (7878343)		0.003	
E6631445 (7878344)		0.004	
E6631446 (7878345)		0.003	
E6631447 (7878346)		0.002	
E6631448 (7878347)		0.005	
E6631449 (7878348)		0.006	
E6631450 (7878349)		0.003	
E6631451 (7878350)		0.004	
E6631452 (7878351)		0.021	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016	DATE REPORTED: Oct 24, 2016	SAMPLE TYPE: Other
Analyte:	Au	Au-Grav	
Unit:	ppm	g/t	
RDL:	0.001	0.5	
Sample ID (AGAT ID)			
E6631453 (7878352)	0.006		
E6631454 (7878353)	0.007		
E6631455 (7878354)	0.006		
E6631456 (7878355)	0.007		
E6631457 (7878356)	0.007		
E6631458 (7878357)	0.004		
E6631459 (7878358)	0.004		
E6631460 (7878359)	0.004		
E6631461 (7878360)	0.004		
E6631462 (7878361)	0.005		
E6631463 (7878362)	0.005		
E6631464 (7878363)	0.004		
E6631465 (7878364)	0.004		
E6631466 (7878365)	0.004		
E6631467 (7878366)	0.003		
E6631468 (7878367)	0.004		
E6631469 (7878368)	0.003		
E6631470 (7878369)	0.003		
E6631471 (7878370)	0.004		
E6631472 (7878371)	0.014		
E6631473 (7878372)	0.012		
E6632001 (7878373)	0.008		
E6632002 (7878374)	0.008		
E6632003 (7878375)	0.028		
E6632004 (7878376)	0.123		
E6632005 (7878377)	0.007		
E6632006 (7878378)	0.004		
E6632007 (7878379)	0.008		
E6632008 (7878380)	0.002		
E6632009 (7878381)	0.015		
E6632010 (7878382)	>10	41.3	
E6632011 (7878383)	0.061		

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Sep 27, 2016

DATE RECEIVED: Sep 27, 2016

DATE REPORTED: Oct 24, 2016

SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.001	Au-Grav g/t 0.5
E6632012 (7878384)		0.034	
E6632013 (7878385)		0.011	
E6632014 (7878386)		0.015	
E6632015 (7878387)		0.010	
E6632016 (7878388)		0.017	
E6632017 (7878389)		0.034	
E6632018 (7878390)		0.249	
E6632019 (7878391)		9.66	
E6632020 (7878392)		0.007	
E6632021 (7878393)		0.005	
E6632022 (7878394)		0.002	
E6632023 (7878395)		0.588	
E6632024 (7878396)		0.057	
E6632025 (7878397)		0.047	
E6632026 (7878398)		>10	48.1
E6632027 (7878399)		0.024	
E6632028 (7878400)		0.160	
E6632029 (7878402)		>10	11.9
E6632030 (7878403)		1.71	
E6632031 (7878404)		2.00	
E6632032 (7878405)		0.005	
E6632033 (7878406)		>10	18.1
E6632034 (7878407)		1.67	
E6632035 (7878408)		0.022	

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(201-079) Sodium Peroxide Fusion - ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Al	7877997	8.10	8.09	0.1%	7878013	4.10	4.02	2.0%	7878032	8.48	8.87	4.5%	7878050	10.2	10.4	1.9%
As	7877997	0.016	0.013	20.7%	7878013	0.0101	0.0106	4.8%	7878032	< 0.005	< 0.005	0.0%	7878189	< 0.005	< 0.005	0.0%
B	7877997	< 0.01	< 0.01	0.0%	7878013	< 0.01	< 0.01	0.0%	7878032	< 0.01	< 0.01	0.0%	7878050	< 0.01	< 0.01	0.0%
Ca	7877997	0.16	0.13	20.7%	7878013	1.15	1.11	3.5%	7878032	0.82	0.80	2.5%	7878050	0.59	0.59	0.0%
Co	7877997	0.002	0.002	0.0%	7878013	0.004	0.004	0.0%	7878032	0.002	0.002	0.0%	7878050	0.002	0.002	0.0%
Cr	7877997	< 0.005	< 0.005	0.0%	7878013	0.0054	0.0055	1.8%	7878032	< 0.005	< 0.005	0.0%	7878050	< 0.005	< 0.005	0.0%
Cu	7877997	0.0105	0.0102	2.9%	7878013	0.015	0.015	0.0%	7878032	0.009	0.009	0.0%	7878050	0.003	0.003	0.0%
Fe	7877997	7.70	7.71	0.1%	7878013	5.60	5.44	2.9%	7878032	5.20	5.43	4.3%	7878050	4.75	4.73	0.4%
K	7877997	3.28	3.11	5.3%	7878013	1.54	1.50	2.6%	7878032	1.60	1.61	0.6%	7878050	5.78	5.95	2.9%
Li	7877997	< 0.01	< 0.01	0.0%	7878013	< 0.01	< 0.01	0.0%	7878032	< 0.01	< 0.01	0.0%	7878050	< 0.01	< 0.01	0.0%
Mg	7877997	0.469	0.457	2.6%	7878013	0.458	0.449	2.0%	7878032	0.846	0.897	5.9%	7878050	0.487	0.481	1.2%
Mn	7877997	0.114	0.109	4.5%	7878013	0.156	0.161	3.2%	7878032	0.194	0.185	4.7%	7878050	0.541	0.540	0.2%
Mo	7877997	< 0.005	< 0.005	0.0%	7878013	< 0.005	< 0.005	0.0%	7878032	< 0.005	< 0.005	0.0%	7878050	< 0.005	< 0.005	0.0%
Ni	7877997	0.002	0.002	0.0%	7878013	0.003	0.003	0.0%	7878032	0.002	0.002	0.0%	7878050	0.002	0.002	0.0%
Pb	7877997	< 0.005	< 0.005	0.0%	7878013	< 0.005	< 0.005	0.0%	7878032	< 0.005	< 0.005	0.0%	7878050	0.0083	0.0106	24.3%
S	7878146	0.02	0.02	0.0%	7878013	0.131	0.135	3.0%	7878032	0.04	0.04	0.0%	7878050	0.01	0.01	0.0%
Si	7877997	21.8	21.8	0.0%	7878013	11.3	11.0	2.7%	7878032	18.7	19.1	2.1%	7878050	24.9	25.7	3.2%
Sn	7877997	< 0.005	< 0.005	0.0%	7878013	< 0.005	< 0.005	0.0%	7878032	< 0.005	< 0.005	0.0%	7878050	< 0.005	< 0.005	0.0%
Ti	7877997	0.390	0.384	1.6%	7878013	0.418	0.401	4.2%	7878032	0.421	0.424	0.7%	7878050	0.642	0.642	0.0%
V	7877997	0.022	0.021	4.7%	7878013	0.0156	0.0154	1.3%	7878032	0.017	0.017	0.0%	7878050	0.0163	0.0166	1.8%
W	7877997	< 0.01	< 0.01	0.0%	7878013	< 0.01	< 0.01	0.0%	7878032	< 0.01	< 0.01	0.0%	7878050	< 0.01	< 0.01	0.0%
Zn	7877997	0.010	0.010	0.0%	7878013	0.006	0.006	0.0%	7878032	0.009	0.009	0.0%	7878050	0.108	0.111	2.7%
Parameter	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Al	7878068	4.99	4.89	2.0%	7878076	7.43	7.45	0.3%	7878092	9.17	9.29	1.3%	7878111	9.35	9.12	2.5%
As	7878068	< 0.005	< 0.005	0.0%	7878076	< 0.005	< 0.005	0.0%	7878092	< 0.005	< 0.005	0.0%	7878111	< 0.005	< 0.005	0.0%
B	7878068	< 0.01	< 0.01	0.0%	7878076	< 0.01	< 0.01	0.0%	7878092	< 0.01	< 0.01	0.0%	7878111	< 0.01	< 0.01	0.0%
Ca	7878068	2.81	2.78	1.1%	7878076	0.52	0.53	1.9%	7878092	2.50	2.62	4.7%	7878111	3.17	3.13	1.3%
Co	7878068	0.002	0.002	0.0%	7878076	< 0.001	< 0.001	0.0%	7878092	0.003	0.003	0.0%	7878111	0.003	0.003	0.0%
Cr	7878068	0.0094	0.0096	2.1%	7878224	0.009	0.009	0.0%	7878092	0.009	0.009	0.0%	7878111	0.012	0.012	0.0%
Cu	7878068	0.006	0.006	0.0%	7878076	0.005	0.005	0.0%	7878092	0.007	0.007	0.0%	7878111	0.0072	0.0079	9.3%



CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

Fe	7878068	4.59	4.49	2.2%	7878076	4.57	4.59	0.4%	7878092	8.34	8.70	4.2%	7878111	8.50	8.50	0.0%
K	7878068	0.82	0.86	4.8%	7878076	1.15	1.17	1.7%	7878092	0.83	0.85	2.4%	7878111	0.65	0.66	1.5%
Li	7878068	< 0.01	< 0.01	0.0%	7878076	< 0.01	< 0.01	0.0%	7878092	< 0.01	< 0.01	0.0%	7878111	< 0.01	< 0.01	0.0%
Mg	7878068	0.871	0.875	0.5%	7878076	0.574	0.578	0.7%	7878092	2.45	2.44	0.4%	7878111	2.88	2.89	0.3%
Mn	7878068	0.181	0.177	2.2%	7878076	0.034	0.034	0.0%	7878092	0.238	0.237	0.4%	7878111	0.226	0.229	1.3%
Mo	7878068	< 0.005	< 0.005	0.0%	7878076	< 0.005	< 0.005	0.0%	7878092	< 0.005	< 0.005	0.0%	7878111	< 0.005	< 0.005	0.0%
Ni	7878068	0.006	0.006	0.0%	7878224	0.005	0.005	0.0%	7878092	0.0034	0.0035	2.9%	7878111	0.004	0.004	0.0%
Pb	7878068	< 0.005	< 0.005	0.0%	7878076	< 0.005	< 0.005	0.0%	7878092	< 0.005	< 0.005	0.0%	7878111	< 0.005	< 0.005	0.0%
S	7878068	0.12	0.12	0.0%	7878076	0.05	0.05	0.0%	7878092	0.03	0.03	0.0%	7878111	0.05	0.05	0.0%
Si	7878068	14.0	13.8	1.4%	7878076	20.7	20.9	1.0%	7878092	24.7	25.6	3.6%	7878111	25.1	25.2	0.4%
Sn	7878068	< 0.005	< 0.005	0.0%	7878076	< 0.005	< 0.005	0.0%	7878092	< 0.005	< 0.005	0.0%	7878111	< 0.005	< 0.005	0.0%
Ti	7878068	0.463	0.471	1.7%	7878076	0.451	0.452	0.2%	7878092	0.964	0.976	1.2%	7878111	0.932	0.904	3.1%
V	7878068	0.009	0.009	0.0%	7878076	0.009	0.009	0.0%	7878092	0.017	0.017	0.0%	7878111	0.019	0.019	0.0%
W	7878068	< 0.01	< 0.01	0.0%	7878076	< 0.01	< 0.01	0.0%	7878092	< 0.01	< 0.01	0.0%	7878111	< 0.01	< 0.01	0.0%
Zn	7878068	0.0676	0.0673	0.4%	7878076	< 0.005	< 0.005	0.0%	7878092	0.012	0.012	0.0%	7878111	0.014	0.014	0.0%
		REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12		
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Al	7878128	9.06	8.85	2.3%	7878284	7.65	7.83	2.3%	7878302	8.62	8.53	1.0%	7878319	6.06	5.94	2.0%
As	7878128	< 0.005	< 0.005	0.0%	7878284	0.0064	0.0066	3.1%	7878302	0.0053	0.0059	10.7%	7878319	< 0.005	< 0.005	0.0%
B	7878128	< 0.01	< 0.01	0.0%	7878284	< 0.01	< 0.01	0.0%	7878302	< 0.01	< 0.01	0.0%	7878319	< 0.01	< 0.01	0.0%
Ca	7878128	2.39	2.38	0.4%	7878284	0.65	0.66	1.5%	7878302	0.72	0.72	0.0%	7878319	0.64	0.63	1.6%
Co	7878128	0.003	0.003	0.0%	7878284	0.0026	0.0024	8.0%	7878302	0.002	0.002	0.0%	7878319	0.002	0.002	0.0%
Cr	7878128	0.0093	0.0101	8.2%	7878284	0.007	0.007	0.0%	7878302	0.006	0.006	0.0%	7878319	< 0.005	< 0.005	0.0%
Cu	7878128	0.007	0.007	0.0%	7878284	0.008	0.008	0.0%	7878302	0.009	0.009	0.0%	7878319	0.006	0.006	0.0%
Fe	7878128	8.20	8.00	2.5%	7878284	9.67	9.63	0.4%	7878302	8.54	8.46	0.9%	7878319	5.47	5.33	2.6%
K	7878128	0.91	0.91	0.0%	7878284	1.87	1.88	0.5%	7878302	2.07	2.10	1.4%	7878319	1.00	0.992	0.8%
Li	7878128	< 0.01	< 0.01	0.0%	7878284	< 0.01	< 0.01	0.0%	7878302	< 0.01	< 0.01	0.0%	7878319	< 0.01	< 0.01	0.0%
Mg	7878128	2.50	2.50	0.0%	7878284	1.24	1.27	2.4%	7878302	1.17	1.12	4.4%	7878319	1.05	1.00	4.9%
Mn	7878128	0.238	0.240	0.8%	7878284	0.548	0.559	2.0%	7878302	0.417	0.400	4.2%	7878319	0.105	0.102	2.9%
Mo	7878128	< 0.005	< 0.005	0.0%	7878284	< 0.005	< 0.005	0.0%	7878302	< 0.005	< 0.005	0.0%	7878319	< 0.005	< 0.005	0.0%
Ni	7878128	0.004	0.004	0.0%	7878284	0.006	0.006	0.0%	7878302	0.005	0.005	0.0%	7878319	0.003	0.003	0.0%
Pb	7878128	< 0.005	< 0.005	0.0%	7878284	< 0.005	< 0.005	0.0%	7878302	< 0.005	< 0.005	0.0%	7878319	< 0.005	< 0.005	0.0%
S	7878128	0.03	0.03	0.0%	7878284	0.02	0.02	0.0%	7878302	0.025	0.024	4.1%	7878319	0.026	0.023	12.2%
Si	7878128	24.3	24.1	0.8%	7878284	24.3	24.1	0.8%	7878302	24.7	24.6	0.4%	7878319	30.1	29.7	1.3%



CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

Sn	7878128	< 0.005	< 0.005	0.0%	7878284	< 0.005	< 0.005	0.0%	7878302	< 0.005	< 0.005	0.0%	7878319	< 0.005	< 0.005	0.0%
Ti	7878128	0.969	0.957	1.2%	7878284	0.615	0.610	0.8%	7878302	0.629	0.623	1.0%	7878319	1.07	1.04	2.8%
V	7878128	0.017	0.017	0.0%	7878284	0.009	0.009	0.0%	7878302	0.008	0.008	0.0%	7878319	0.0156	0.0149	4.6%
W	7878128	< 0.01	< 0.01	0.0%	7878284	< 0.01	< 0.01	0.0%	7878302	< 0.01	< 0.01	0.0%	7878319	< 0.01	< 0.01	0.0%
Zn	7878128	0.012	0.012	0.0%	7878284	0.014	0.014	0.0%	7878302	0.0135	0.0133	1.5%	7878319	0.0067	0.0064	4.6%
REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16				
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Al	7878337	6.96	7.01	0.7%	7878354	6.99	6.70	4.2%	7878372	6.85	7.12	3.9%	7878389	4.68	4.60	1.7%
As	7878337	< 0.005	< 0.005	0.0%	7878354	< 0.005	< 0.005	0.0%	7878372	< 0.005	< 0.005	0.0%	7878389	< 0.005	< 0.005	0.0%
B	7878337	< 0.01	< 0.01	0.0%	7878354	< 0.01	< 0.01	0.0%	7878372	< 0.01	< 0.01	0.0%	7878389	< 0.01	< 0.01	0.0%
Ca	7878337	1.01	1.02	1.0%	7878354	1.09	1.03	5.7%	7878372	0.711	0.736	3.5%	7878389	0.206	0.192	7.0%
Co	7878337	0.002	0.002	0.0%	7878354	0.002	0.002	0.0%	7878372	0.002	0.002	0.0%	7878389	< 0.001	< 0.001	0.0%
Cr	7878337	0.0053	0.0044	18.6%	7878354	< 0.005	< 0.005	0.0%	7878372	< 0.005	< 0.005	0.0%	7878389	0.005	0.005	0.0%
Cu	7878337	0.005	0.005	0.0%	7878354	0.009	0.009	0.0%	7878372	0.007	0.007	0.0%	7878389	0.0181	0.0186	2.7%
Fe	7878337	5.96	6.02	1.0%	7878354	6.53	6.37	2.5%	7878372	6.13	6.35	3.5%	7878389	2.90	2.83	2.4%
K	7878337	1.26	1.25	0.8%	7878354	1.82	1.77	2.8%	7878372	1.72	1.82	5.6%	7878389	3.23	3.27	1.2%
Li	7878337	< 0.01	< 0.01	0.0%	7878354	< 0.01	< 0.01	0.0%	7878372	< 0.01	< 0.01	0.0%	7878389	< 0.01	< 0.01	0.0%
Mg	7878337	1.37	1.35	1.5%	7878354	1.18	1.10	7.0%	7878372	1.07	1.10	2.8%	7878389	0.374	0.372	0.5%
Mn	7878337	0.117	0.115	1.7%	7878354	0.167	0.157	6.2%	7878372	0.141	0.146	3.5%	7878389	0.162	0.160	1.2%
Mo	7878337	< 0.005	< 0.005	0.0%	7878354	< 0.005	< 0.005	0.0%	7878372	< 0.005	< 0.005	0.0%	7878389	< 0.005	< 0.005	0.0%
Ni	7878337	0.0036	0.0033	8.7%	7878354	0.004	0.004	0.0%	7878372	0.004	0.004	0.0%	7878389	< 0.001	0.001	
Pb	7878337	< 0.005	< 0.005	0.0%	7878354	< 0.005	< 0.005	0.0%	7878372	< 0.005	< 0.005	0.0%	7878389	0.0454	0.0457	0.7%
S	7878337	0.026	0.025	3.9%	7878354	0.12	0.11	8.7%	7878372	0.14	0.14	0.0%	7878389	1.35	1.41	4.3%
Si	7878337	27.3	28.1	2.9%	7878354	23.8	23.2	2.6%	7878372	27.2	28.2	3.6%	7878389	30.8	31.0	0.6%
Sn	7878337	< 0.005	< 0.005	0.0%	7878354	< 0.005	< 0.005	0.0%	7878372	< 0.005	< 0.005	0.0%	7878389	< 0.005	< 0.005	0.0%
Ti	7878337	1.10	1.12	1.8%	7878354	0.830	0.811	2.3%	7878372	0.867	0.893	3.0%	7878389	0.155	0.150	3.3%
V	7878337	0.0165	0.0161	2.5%	7878354	0.013	0.013	0.0%	7878372	0.014	0.014	0.0%	7878389	< 0.005	< 0.005	0.0%
W	7878337	< 0.01	< 0.01	0.0%	7878354	< 0.01	< 0.01	0.0%	7878372	< 0.01	< 0.01	0.0%	7878389	< 0.01	< 0.01	0.0%
Zn	7878337	0.0096	0.0092	4.3%	7878354	0.008	0.008	0.0%	7878372	0.010	0.010	0.0%	7878389	0.317	0.316	0.3%
REPLICATE #17																
Parameter	Sample ID	Original	Replicate	RPD												
Al	7878408	0.99	1.04	4.9%												
As	7878408	0.008	0.008	0.0%												
B	7878408	< 0.01	< 0.01	0.0%												



CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

Ca	7878408	< 0.05	0.05													
Co	7878408	< 0.001	< 0.001	0.0%												
Cr	7878408	0.013	0.013	0.0%												
Cu	7878408	0.009	0.009	0.0%												
Fe	7878408	1.13	1.22	7.7%												
K	7878408	0.260	0.276	6.0%												
Li	7878408	< 0.01	< 0.01	0.0%												
Mg	7878408	0.039	0.041	5.0%												
Mn	7878408	< 0.005	< 0.005	0.0%												
Mo	7878408	< 0.005	< 0.005	0.0%												
Ni	7878408	0.0031	0.0035	12.1%												
Pb	7878408	< 0.005	< 0.005	0.0%												
S	7878408	0.09	0.09	0.0%												
Si	7878408	42.8	42.7	0.2%												
Sn	7878408	< 0.005	< 0.005	0.0%												
Ti	7878408	0.0361	0.0377	4.3%												
V	7878408	< 0.005	< 0.005	0.0%												
W	7878408	< 0.01	< 0.01	0.0%												
Zn	7878408	< 0.005	< 0.005	0.0%												

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	7877997	0.009	0.026		7878016	0.003	0.003	0.0%	7878034	0.015	0.018	18.2%	7878055	0.005	0.006	18.2%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	7878073	0.011	0.005		7878091	0.002	0.003		7878109	0.0045	0.0041	9.3%	7878127	0.024	0.008	
	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	7878146	0.007	0.005		7878165	0.013	0.006		7878184	0.006	0.011		7878202	0.004	0.023	
	REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	7878221	0.0061	0.0051	17.9%	7878239	0.010	0.007		7878269	0.012	0.012	0.0%	7878276	0.006	0.006	0.0%
	REPLICATE #17				REPLICATE #18				REPLICATE #19				REPLICATE #20			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD



**AGAT** Laboratories

Quality Assurance - Replicate  
AGAT WORK ORDER: 16T141736  
PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

Au	7878296	0.054	0.028		7878314	0.0056	0.0049	13.3%	7878333	0.019	0.019	0.0%	7878351	0.021	0.009	
----	---------	-------	-------	--	---------	--------	--------	-------	---------	-------	-------	------	---------	-------	-------	--



CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(201-079) Sodium Peroxide Fusion - ICP-OES finish

Parameter	CRM #1 (ref.GTS-2a)				CRM #2 (ref.LKSD-2)				CRM #3 (ref.Till-2)				CRM #4 (ref.LKSD-2)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	6.96	7.23	104%	90% - 110%					8.47	8.82	104%	90% - 110%	6.51	6.55	101%	90% - 110%
Ca	4.01	4.03	100%	90% - 110%					0.907	0.863	95%	90% - 110%	1.57	1.53	97%	90% - 110%
Fe	7.56	7.85	104%	90% - 110%					3.77	4.05	107%	90% - 110%	4.33	4.37	101%	90% - 110%
K	2.02	1.99	98%	90% - 110%					2.55	2.62	103%	90% - 110%	2.16	2.23	103%	90% - 110%
Mg	2.41	2.41	100%	90% - 110%					1.1	1.1	99%	90% - 110%	1.025	0.984	96%	90% - 110%
Mn	0.15	0.16	106%	90% - 110%	0.23	0.22	95%	90% - 110%					0.23	0.21	91%	90% - 110%
S	0.348	0.335	96%	90% - 110%												
Si	23.65	23.56	100%	90% - 110%					28.4	30.6	108%	90% - 110%	27.5	28.1	102%	90% - 110%
Ti									0.527	0.527	100%	90% - 110%	0.36	0.35	97%	90% - 110%
Parameter	CRM #5 (ref.GTS-2a)				CRM #6 (ref.Till-2)				CRM #7 (ref.LKSD-2)				CRM #8 (ref.Till-2)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	6.96	7.15	103%	90% - 110%									8.47	8.59	101%	90% - 110%
Ca	4.01	3.93	98%	90% - 110%									0.907	0.852	94%	90% - 110%
Fe	7.56	7.6	101%	90% - 110%									3.77	3.85	102%	90% - 110%
K	2.02	2	99%	90% - 110%									2.55	2.56	100%	90% - 110%
Mg	2.41	2.31	96%	90% - 110%									1.1	1.1	96%	90% - 110%
Mn	0.15	0.16	105%	90% - 110%					0.23	0.22	95%	90% - 110%				
S	0.348	0.334	96%	90% - 110%												
Si					28.4	28.7	101%	90% - 110%					28.4	29	102%	90% - 110%
Ti					0.527	0.551	104%	90% - 110%					0.527	0.547	104%	90% - 110%
Parameter	CRM #9 (ref.LKSD-2)				CRM #10 (ref.GTS-2a)				CRM #11 (ref.LKSD-2)				CRM #12 (ref.GTS-2a)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	6.51	6.51	100%	90% - 110%	6.96	6.91	99%	90% - 110%								
Ca	1.57	1.53	97%	90% - 110%	4.01	3.96	99%	90% - 110%								
Fe	4.33	4.3	99%	90% - 110%	7.56	7.62	101%	90% - 110%								
K	2.16	2.28	106%	90% - 110%	2.02	1.97	98%	90% - 110%								
Mg	1.025	0.997	97%	90% - 110%	2.41	2.36	98%	90% - 110%								
Mn	0.23	0.21	93%	90% - 110%	0.15	0.16	106%	90% - 110%					0.15	0.15	102%	90% - 110%
S					0.348	0.343	99%	90% - 110%								
Si	27.5	27.8	101%	90% - 110%					27.5	27.7	101%	90% - 110%				
Ti	0.36	0.34	95%	90% - 110%					0.36	0.35	98%	90% - 110%				



CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

Parameter	CRM #13 (ref.TiII-2)				CRM #14 (ref.LKSD-2)				CRM #15 (ref.GTS-2a)				CRM #16 (ref.LKSD-2)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	8.47	8.39	99%	90% - 110%	6.51	6.41	99%	90% - 110%	6.94	7.26	105%	90% - 110%	6.51	6.46	99%	90% - 110%
Ca	0.907	0.844	93%	90% - 110%	1.57	1.63	104%	90% - 110%	4.01	4.29	107%	90% - 110%	1.57	1.62	103%	90% - 110%
Fe	3.77	3.88	103%	90% - 110%	4.33	4.32	100%	90% - 110%	7.56	7.94	105%	90% - 110%	4.33	4.22	97%	90% - 110%
K	2.55	2.48	97%	90% - 110%	2.16	2.29	106%	90% - 110%	2.02	2.03	100%	90% - 110%	2.16	2.25	104%	90% - 110%
Mg	1.1	1.1	102%	90% - 110%	1.025	1.093	107%	90% - 110%	2.41	2.63	109%	90% - 110%	1.025	1.001	98%	90% - 110%
Mn					0.23	0.22	94%	90% - 110%	0.15	0.16	103%	90% - 110%	0.23	0.22	94%	90% - 110%
Si	28.4	28.6	101%	90% - 110%	27.5	27.9	102%	90% - 110%	23.65	23.7	100%	90% - 110%	27.5	26.5	96%	90% - 110%
Ti	0.527	0.547	104%	90% - 110%	0.36	0.35	97%	90% - 110%					0.36	0.34	93%	90% - 110%
Parameter	CRM #17 (ref.TiII-2)				CRM #18 (ref.GTS-2a)				CRM #19 (ref.LKSD-2)				CRM #20 (ref.TiII-2)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	8.47	8.41	99%	90% - 110%	6.94	7.25	104%	90% - 110%	6.51	6.26	96%	90% - 110%	8.47	8.56	101%	90% - 110%
Ca	0.907	0.887	98%	90% - 110%	4.01	4.18	104%	90% - 110%	1.57	1.56	99%	90% - 110%	0.907	0.89	98%	90% - 110%
Fe	3.77	3.79	101%	90% - 110%	7.56	7.8	103%	90% - 110%	4.33	4.06	94%	90% - 110%	3.77	3.83	101%	90% - 110%
K	2.55	2.44	96%	90% - 110%	2.02	2.04	101%	90% - 110%	2.16	2.18	101%	90% - 110%	2.55	2.53	99%	90% - 110%
Mg	1.1	1.1	100%	90% - 110%	2.41	2.44	101%	90% - 110%	1.025	0.997	97%	90% - 110%	1.1	1.1	99%	90% - 110%
Mn					0.15	0.16	104%	90% - 110%	0.23	0.22	95%	90% - 110%				
Si	28.4	27.3	96%	90% - 110%	23.65	23.45	99%	90% - 110%	27.5	25.9	94%	90% - 110%	28.4	27.8	98%	90% - 110%
Ti	0.527	0.529	100%	90% - 110%					0.36	0.33	92%	90% - 110%	0.527	0.536	102%	90% - 110%
Parameter	CRM #21 (ref.GTS-2a)															
	Expect	Actual	Recovery	Limits												
Al	6.94	6.7	97%	90% - 110%												
Ca	4.01	4.05	101%	90% - 110%												
Fe	7.56	7.42	98%	90% - 110%												
K	2.02	1.94	96%	90% - 110%												
Mg	2.41	2.32	96%	90% - 110%												
Mn	0.15	0.15	99%	90% - 110%												
Si	23.65	22.16	94%	90% - 110%												
<b>(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)</b>																
Parameter	CRM #1 (ref.GSP4C)				CRM #2 (ref.GSP7K)				CRM #3 (ref.1P5L)				CRM #4 (ref.GS6D)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	0.362	0.345	95%	90% - 110%	0.694	0.639	92%	90% - 110%	1.53	1.54	100%	90% - 110%	6.09	5.65	93%	90% - 110%





CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

	CRM #5 (ref.GSP4C)				CRM #6 (ref.GSP7K)				CRM #7 (ref.1P5L)				CRM #8 (ref.GS6D)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	0.362	0.357	98%	90% - 110%	0.694	0.763	109%	90% - 110%	1.53	1.46	95%	90% - 110%	6.09	6.25	103%	90% - 110%
	CRM #9 (ref.GSP4C)				CRM #10 (ref.GSP7K)				CRM #11 (ref.1P5L)				CRM #12 (ref.GS6D)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	0.362	0.362	100%	90% - 110%	0.694	0.711	102%	90% - 110%	1.53	1.47	96%	90% - 110%	6.09	5.71	94%	90% - 110%
	CRM #13 (ref.GSP4C)				CRM #14 (ref.GSP7K)				CRM #15 (ref.1P5L)				CRM #16 (ref.GS6D)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	0.362	0.391	108%	90% - 110%	0.694	0.767	110%	90% - 110%	1.53	1.49	97%	90% - 110%	6.09	5.45	90%	90% - 110%
	CRM #17 (ref.GSP4C)				CRM #18 (ref.GSP7K)				CRM #19 (ref.1P5L)				CRM #20 (ref.GS6D)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	0.362	0.336	93%	90% - 110%	0.694	0.68	98%	90% - 110%	1.53	1.46	95%	90% - 110%	6.09	5.74	94%	90% - 110%
	CRM #21 (ref.1P5L)															
Parameter	Expect	Actual	Recovery	Limits												
Au	1.53	1.43	94%	90% - 110%												



## Method Summary

CLIENT NAME: ABEN RESOURCES LTD

AGAT WORK ORDER: 16T141736

PROJECT:

ATTENTION TO: Cornell McDowell; Jim Pettit

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Al	MIN-200-12001		ICP/OES
As	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Co	MIN-200-12001		ICP/OES
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
K	MIN-200-12001		ICP/OES
Li	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/OES
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/OES
S	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Sn	MIN-200-12001		ICP/OES
Ti	MIN-200-12001		ICP/OES
V	MIN-200-12001		ICP/OES
W			ICP/OES
Zn	MIN-200-12001		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Au-Grav	MIN-200-12006		GRAVIMETRIC



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(201-074) Aqua Regia Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Sep 27, 2016      DATE RECEIVED: Sep 27, 2016      DATE REPORTED: Dec 14, 2016      SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Ag	ppm	0.01
E6631163 (7878060)	NSS		
E6631164 (7878061)	NSS		
E6631165 (7878062)	NSS		
E6631166 (7878063)	NSS		
E6631167 (7878064)	NSS		
E6631168 (7878065)	NSS		
E6631169 (7878066)	NSS		
E6631170 (7878067)	0.40		
E6631171 (7878068)	0.34		
E6631172 (7878069)	0.36		
E6631173 (7878070)	0.57		
E6632001 (7878373)	0.16		
E6632002 (7878374)	<0.01		
E6632003 (7878375)	0.03		
E6632004 (7878376)	0.33		
E6632005 (7878377)	<0.01		
E6632006 (7878378)	0.13		
E6632007 (7878379)	0.10		
E6632008 (7878380)	<0.01		
E6632009 (7878381)	49.5		
E6632010 (7878382)	95.1		
E6632011 (7878383)	2.49		
E6632012 (7878384)	0.14		
E6632013 (7878385)	0.54		
E6632014 (7878386)	15.7		
E6632015 (7878387)	0.13		
E6632016 (7878388)	0.52		
E6632017 (7878389)	1.02		
E6632018 (7878390)	101		
E6632019 (7878391)	99.9		
E6632020 (7878392)	0.20		
E6632021 (7878393)	0.52		

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 16T141736

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ABEN RESOURCES LTD

ATTENTION TO: Cornell McDowell; Jim Pettit

(201-074) Aqua Regia Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Sep 27, 2016	DATE RECEIVED: Sep 27, 2016	DATE REPORTED: Dec 14, 2016	SAMPLE TYPE: Other
Analyte: Ag	Unit: ppm	RDL: 0.01	
Sample ID (AGAT ID)			
E6632022 (7878394)		0.03	
E6632023 (7878395)		13.1	
E6632024 (7878396)		57.7	
E6632025 (7878397)		110	
E6632026 (7878398)		27.6	
E6632027 (7878399)		0.01	
E6632028 (7878400)		6.80	
E6632029 (7878402)		11.3	
E6632030 (7878403)		19.9	
E6632031 (7878404)		16.5	
E6632032 (7878405)		0.84	
E6632033 (7878406)		151	
E6632034 (7878407)		25.7	
E6632035 (7878408)		0.70	

Comments: RDL - Reported Detection Limit

7878060-7878408 Au determination by this method is semi-quantitative due to small sample size.

Certified By: