

**BC Geological Survey  
Assessment Report  
37887**



**ASSESSMENT REPORT TITLE PAGE AND SUMMARY**

**TITLE OF REPORT: 2018 Technical Assessment Report on Sampling the Davis-Keays Property**

**TOTAL COST: \$23,071.50**

**AUTHOR(S): Richard Beck**

**SIGNATURE(S):**

A handwritten signature in black ink, appearing to read "Richard Beck", written over a horizontal line.

**NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):**  
**STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5715248**

**YEAR OF WORK: 2018**

**PROPERTY NAME: Davis-Keays**

**CLAIM NAME(S) (on which work was done): 1026111, 1026112 and 1034459**

**COMMODITIES SOUGHT: Au, Ag, Cu, Mo, Pb and Zn**

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:**

**MINING DIVISION: Omineca**

**NTS / BCGS: 94K/11**

**LATITUDE: 58 33'**

**LONGITUDE: 125 27'**

**UTM Zone: 10      EASTING: 357000      NORTHING: 6493000**

**OWNER(S): John Bot**

**MAILING ADDRESS:**

**P.O. Box 4373 Quesnel British Columbia V2J 3J4**

**OPERATOR(S): John Bot**

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**P.O. Box 4373 Quesnel British Columbia V2J 3J4**

**REPORT KEYWORDS**

**Eagle Vein, Harris Vein, Hydrothermal Quartz vein system, Diabase dykes, Copper Mineralization**

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:**  
**31179**

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		1026111, 1026112 and 1034459	\$20,783.25
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock - 17		1026111, 1026112 and 1034459	\$1093.25
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			\$1195.00
<u>Other – report writing</u>			\$1195.00
		<b>TOTAL COST</b>	\$10,856.35

# 2018 TECHNICAL ASSESSMENT REPORT OF ROCK SAMPLING ON THE DAVIS-KEAYS PROPERTY

**Liard Mining Division, British Columbia**

**NTS 94K/06/11/12**

**58 33' 20" N/125 27' 30" W**

**6493000N / 357000E**

**Event #: 5715248**

**Tenure #'s:**

**1026111, 1026112, 1030419, 1034440, 1034443, 1034445, 1034447,  
1034459, 1034472, 1034473, 1034497, 1034498, 1034576, 1034578,  
1034583, 1034585, 1037753, 1038186, 1042237, 1050167, 1050168,  
1050495, 1055498, 1055499, 1055500, 1055501, 1056487, 1056488,  
1056489, 1056496, 1056497, 1059841, 1062288, 1062289**

**Prepared for:**

John Bot

**Prepared by:**

Richard Beck

R. Beck Consulting Services

Smithers, BC  
**January 10 2019**

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## 1. SUMMARY

In the fall of 2018, Mr. John Bot of Quesnel, British Columbia contracted R. Beck Consulting Services of Smithers, B.C. to conduct a short field exploration program on the Northeastern B.C. Davis-Keays property. The program for which R. Beck Consulting Services was contracted led to the writing of this report as well.

This report covers the work performed by R. Beck Consulting Services between September 14<sup>th</sup> and September 21<sup>st</sup>, 2018. As the author of this report, I was physically on the property between September 14<sup>th</sup> and September 21<sup>st</sup>, 2018 therefore able to confirm the work performed.

The worked performed was a short sample program solely based upon and controlled by budget. The last exploration season was in 2016 and focused on the Harris Vein area of the property in the upper reaches of the cirque, immediately south of the Eagle vein adits. As the property was accessed by helicopter and all exploration was conducted by foot the level of sampling of potential mineralized rocks was limited to how much area could be safely covered in a day. The 2018 program was designed to focus on the Eagle vein area and as much area coverage as possible in and around this central location.

Sampling was designed to identify possible new vein systems or off-shoot veins of the existing Eagle Vein that had yet to be sampled as well as prospecting in and around the known adits.

The Davis-Keays Property is located approximately 170km west-southwest of Fort Nelson, British Columbia and consists of 34 mineral claims (Figure 1). Exploration included preparatory work and report writing.

This field program was conducted between September 14<sup>th</sup> and September 21<sup>st</sup>, 2018 and provided much of the data on which this report is based.

## 2. INTRODUCTION AND TERMS OF REFERENCE

This report borrows/quotes from historical assessment reports of the area as noted in the References section.

## 3. PROPERTY DESCRIPTION AND LOCATION

### 3.1 ACCESSIBILITY AND INFRASTRUCTURE

The Keays property is accessed from the city of Fort Nelson, B.C. approximately 170km west-southwest. Access to the property is by helicopter, however, in summer months' access may be possible via an access trail originating from the Muncho Lake area (Figure 1).

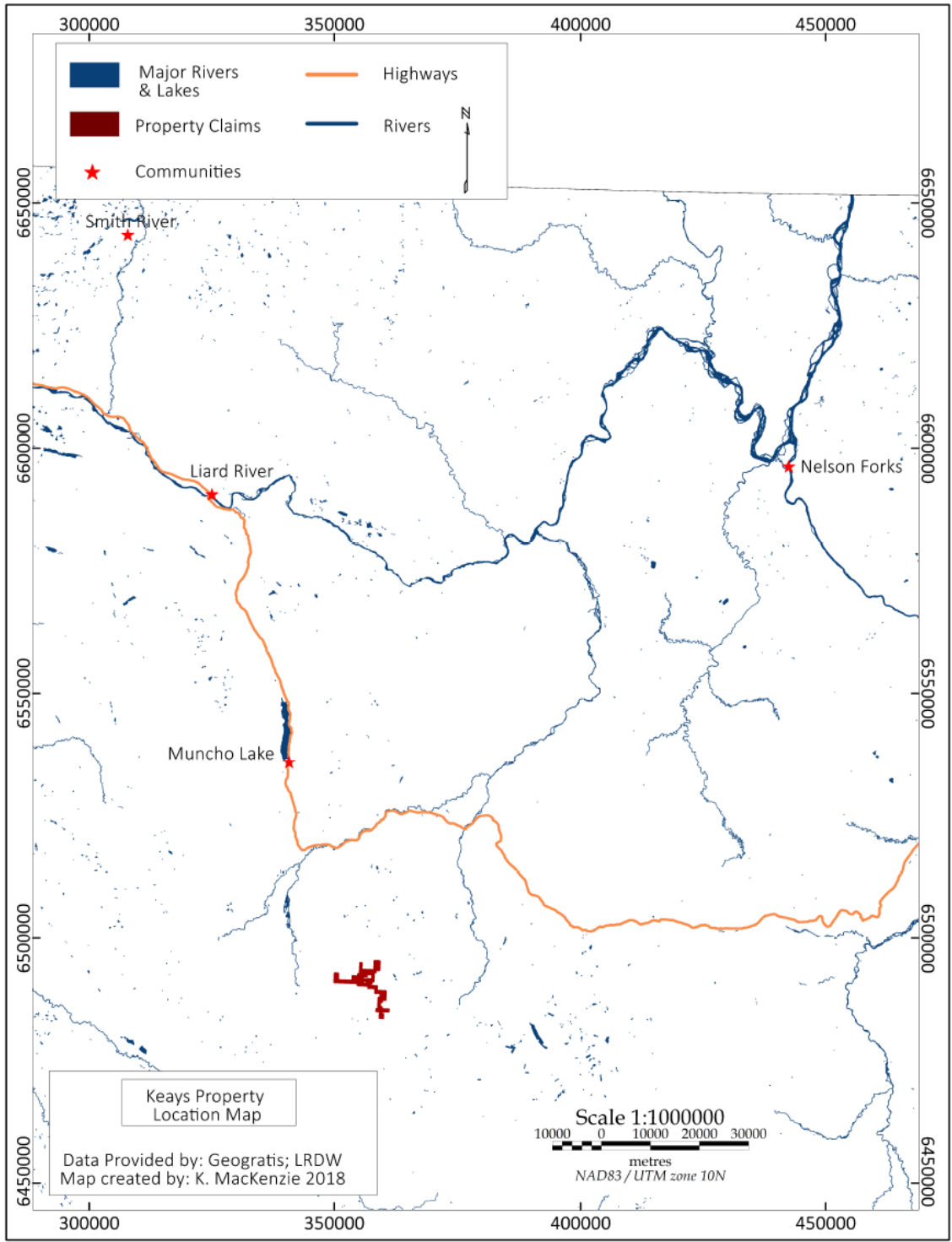


Figure 1: Keays Property Location

### 3.2 MINERAL TENURE INFORMATION

The Keys Property consists of 34 mineral claims, totaling 2399.3179ha. The property is located on NTS map sheet 94K/11 in the Liard Mining Division and approximately 170km west-southwest of the city of Fort Nelson, B.C. The geographic coordinates of the approximate centre of the property are 6493000N / 357000E. (Table 1 & Figure 2).

*Table 1: Davis-Keays Mineral Tenures*

Title Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Status	Area (ha)
1026111	EAGLE 1	102844 (100%)	094K	2014/FEB/20	2020/MAY/15	GOOD	202.6584
1026112	EAGLE 2	102844 (100%)	094K	2014/FEB/20	2020/MAY/15	GOOD	84.4242
1030419		102844 (100%)	094K	2014/AUG/20	2020/MAY/15	GOOD	67.5366
1034440		102844 (100%)	094K	2015/FEB/27	2020/MAY/15	GOOD	16.8971
1034443		102844 (100%)	094K	2015/FEB/27	2020/MAY/15	GOOD	16.8951
1034445		102844 (100%)	094K	2015/FEB/27	2020/MAY/15	GOOD	33.7924
1034447		102844 (100%)	094K	2015/FEB/27	2020/MAY/15	GOOD	33.7923
1034459		102844 (100%)	094K	2015/MAR/01	2020/MAY/15	GOOD	101.3432
1034472		102844 (100%)	094K	2015/MAR/01	2020/MAY/15	GOOD	152.0828
1034473		102844 (100%)	094K	2015/MAR/01	2020/MAY/15	GOOD	16.8992
1034497		102844 (100%)	094K	2015/MAR/01	2020/MAY/15	GOOD	33.7845
1034498		102844 (100%)	094K	2015/MAR/01	2020/MAY/15	GOOD	50.6795
1034576		102844 (100%)	094K	2015/MAR/04	2020/MAY/15	GOOD	16.9131
1034578	MAGNUM CORE	102844 (100%)	094K	2015/MAR/04	2020/MAY/15	GOOD	33.8165
1034583		102844 (100%)	094K	2015/MAR/04	2020/MAY/15	GOOD	33.8243
1034585		102844 (100%)	094K	2015/MAR/04	2020/MAY/15	GOOD	118.3662
1037753	MINERS LINK	102844 (100%)	094K	2015/AUG/05	2020/MAY/15	GOOD	169.0296
1038186		102844 (100%)	094K	2015/AUG/25	2020/MAY/15	GOOD	16.8972
1042237	KEY 1	102844 (100%)	094K	2016/FEB/22	2020/MAY/15	GOOD	84.4741
1050167	CHURCH 5	102844 (100%)	094K	2017/FEB/20	2020/MAY/15	GOOD	16.9149
1050168	CHURCH 6	102844 (100%)	094K	2017/FEB/20	2020/MAY/15	GOOD	16.9169
1050495	LADY LUCK	102844 (100%)	094K	2017/MAR/01	2020/MAY/15	GOOD	16.9268



1055498	LADY LUCK ROAD	102844 (100%)	094K	2017/OCT/12	2020/MAY/15	GOOD	118.4581
1055499	LUCKY MAC	102844 (100%)	094K	2017/OCT/12	2020/MAY/15	GOOD	33.8418
1055500	MAGNUM CREEK	102844 (100%)	094K	2017/OCT/12	2020/MAY/15	GOOD	33.8417
1055501	MAGNUM CREEK 2	102844 (100%)	094K	2017/OCT/12	2020/MAY/15	GOOD	33.8417
1056487	RAMMMM	102844 (100%)	094K	2017/NOV/18	2020/MAY/15	GOOD	16.8936
1056488	RAMMING	102844 (100%)	094K	2017/NOV/18	2020/MAY/15	GOOD	304.1335
1056489	RAM 3	102844 (100%)	094K	2017/NOV/18	2020/MAY/15	GOOD	101.365
1056496	KEY EAST	102844 (100%)	094K	2017/NOV/19	2020/MAY/15	GOOD	151.9368
1056497	CHURCH BELLS	102844 (100%)	094K	2017/NOV/19	2020/MAY/15	GOOD	33.8105
1059841	KE 2	102844 (100%)	094K	2018/APR/05	2020/MAY/15	GOOD	151.8885
1062288	KEY EAST 2	102844 (100%)	094K	2018/AUG/10	2020/MAY/15	GOOD	33.7743
1062289	KEY EAST 3	102844 (100%)	094K	2018/AUG/10	2020/MAY/15	GOOD	50.6675

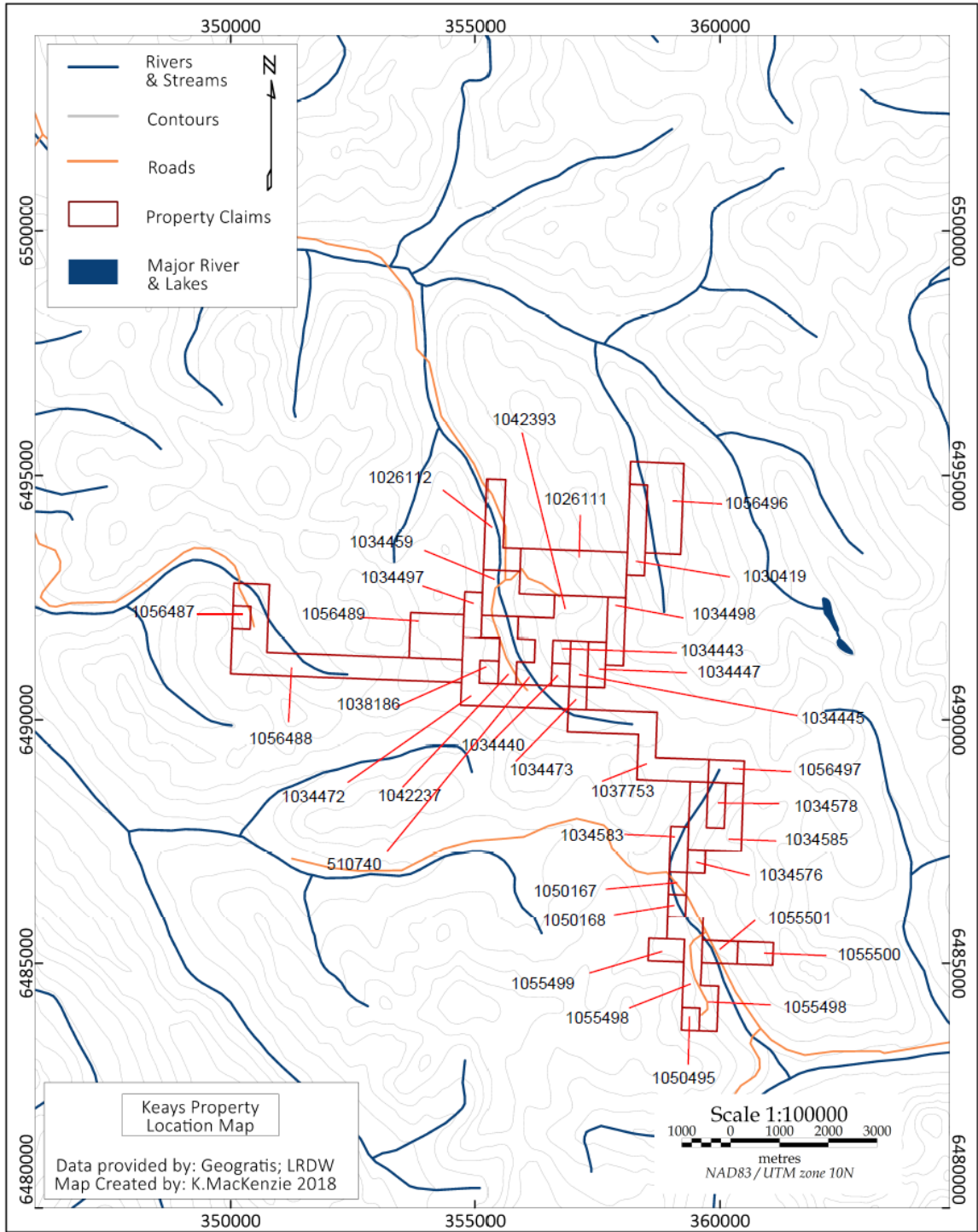


Figure 2: Keays Property Claims

### 3.3 PHYSIOGRAPHY AND CLIMATE

The property is situated on moderate to very steep mountainous terrain with elevations ranging from 1300m to 2400m. The claims are within the Northern Rocky Mountains and lie above the tree line with local vegetation restricted to shrubbery, grasses and very small trees. Most of the property is covered in talus material from the surrounding rocks. Climate here receives rain throughout the summer months on an almost daily basis with snow first appearing in and around late August and remaining through to the following spring months of April and May.

## 4. HISTORY

(Harrington, 2009, asst rpt 31179)

The two main deposits identified in the area were the Davis-Keays (Eagle Vein located on the Key Property), discovered in August, 1967, by prospectors Harris Davis and Robert Keays of Fort Nelson, BC, and the Churchill Copper deposit (Magnum Vein).

Between 1968 and 1971, underground development was carried out on the Eagle and Harris veins. During this three year period, over 2.9 kilometers of underground work was completed including over 6,300 feet (1,920 meters) of drifting and sublevels on the mineralized vein, 1,955 feet (596 meters) of cross-cutting, and 1,100 feet (335 meters) of raising. Other vein-style occurrences on the Property were prospected, trenched, and the Harris, Keays, and Keays North veins received a limited amount of drilling.

In 1970, MacDonald Consultants Ltd completed a Feasibility Study, which was complemented a year later by an Evaluation Report done by Chapman, Wood & Griswold Ltd. Metallurgical tests at Lakefield Research, Peterborough, Ontario, indicated satisfactory 95% recovery from copper concentrate grading 28% using conventional crushing, grinding and floatation. Production was planned but never commenced, due to adverse economic and political conditions in the mid-1970s. At an undetermined date because no reports are available, Kam Kotia Mines carried out 148 meters of underground development on the Harris vein, including approximately 30 meters of access and 118 meters of drifting along the vein.

In 1992, a crew supervised by P. Leriche, P.Geo, of Reliance Geological Services, visited the Eagle vein and found the 6400- and 7300-level portals were blocked by scree. The 6950-level adit was open and in very good condition.

Quartz-carbonate veining with chalcopyrite mineralization was observed throughout the 670 meter long tunnel. Summarized results of four rock samples collected from the Eagle vein are shown in Appendix A.

In 1996, Reliance Geological Services, for Seguro Projects Inc, carried out a work program on the Key Property consisting of geochemical rock sampling. Eighteen rock chip samples were collected and sent to International Plasma Laboratory Ltd of Vancouver, BC, for analysis of gold by fire assay, copper by assay, and 29 other elements by ICP methods.

Descriptions follow:

Harris Vein Nine rock samples were taken from surface outcropping. The Harris vein ranges from 1 to 2 meters in width, containing heavy malachite and chalcopryrite mineralization, which decreases with depth. Chalcopryrite occurs as large blobs, thin veinlets, or disseminations. Malachite occurs in varying amounts throughout the vein.

Pink Vein The Pink vein is adjacent to a diabase dike and was observed discontinuously for 54 meters. The Pink vein contains minor chalcopryrite mineralization occurring as disseminated and thin stringers. Minor amounts of malachite staining were observed.

Creek Vein The Creek vein was traced for 150 meters along the side of a creek trending 040o. The Creek vein is sporadically mineralized throughout, and ranges from 5 cm to 1 m wide, averaging 50 cm. Mineralization consists of chalcopryrite dissemination and small chalcopryrite stringers, as well as minor malachite staining.

In 1998 and 1999, assessment work, consisting of Landsat TM(optical) and JERS- 1(radar) image studies and structural interpretation, was carried out by Crest Geological Consultants.

It was concluded that post-mineralization northwest-trending faults may have truncated several veins. If that structural interpretation is correct, there may be several areas in the vicinity of the Eagle, Magnum, and Neil veins that contain more vein structures with accompanying copper mineralization.

In 2002, Senator Minerals Inc carried out a work program designed to locate and sample the Pink vein and its extensions to confirm the presence of cobalt mineralization, to trace the length of the vein, and to test the theory that cobalt mineralization in area veins may be related to elevation. Lower priority objectives included the location and tracing of the Harris vein and an investigation of possibly accessible underground workings on that vein outside of the main underground development associated with the Eagle vein.

Two select and ten rock chip samples were collected from the Pink vein and its presumed extensions. One select sample was taken from the entrance to an adit, at 1,722 meters of elevation, which accesses the Harris vein. Five of thirteen samples returned copper values over 10,000 ppm. These five samples were each re-analyzed by ore grade CU-aqua regia/AA, yielding percent-copper values. Results and descriptions follow:

The main objective of the 2002 program was realized by the identification of a correlation between cobalt mineralization and elevation, with all significant cobalt values coming from elevations of less than 6,000 feet (1,828 meters). Copper exploration potential of the Pink vein extension was also confirmed, with 12 samples taken along the 500-meter sampled length of the vein returning copper values ranging from 114 ppm to 4.53% (45,300 ppm).

The secondary objective of identifying underground workings on the Harris vein was also realized.

## 5. GEOLOGICAL SETTING

### 5.1 REGIONAL GEOLOGY

(Harrington, 2009, asst rpt 31179)

The Property lies within the eastern edge of the Rocky Mountains in rugged topography. Excellent exposures exist above timberline, revealing flat to locally contorted sedimentary rock formations dislocated by extensive regional faulting.

Proterozoic argillites, quartzite's, and limestones, which contain all the known copper deposits, have generally low dips, are intruded by diabase dikes of Proterozoic age, and are overlain by unmineralized Palaeozoic formations of Cambrian and later ages. Most of the known mineralized veins of the region have similar mineral composition and structural characteristics (Chapman et al, 1971).

Middle Proterozoic sediments of the Muskwa Assemblage (Wheeler et al, 1991) include the Tetsa, George, Henry Creek, Tuchodi, Aida, and Gataga formations described by Taylor et al, 1973. Quartz-carbonate veins, many of which contain chalcopyrite, occur mainly in the western half of the Precambrian with a similar distribution to the diabase dikes. Dikes cut the veins and are themselves only weakly mineralized on fractures containing carbonates (principally calcite) and quartz.

The Muskwa Assemblage is cut by gabbroic dikes and overlain unconformably by Cambrian (Atan Group) and Ordovician (Kechika Group) rocks. These Ordovician and older rocks, termed pseudo-basement by Taylor, were intensely and repeatedly deformed during pre-Laramide periods of tectonism, and later during the Laramide Orogeny, which occurred between 89 and 43 Ma. Laramide compression deformation created large asymmetrical northwest trending folds, thrust faults, and anticlinal structures which form the Muskwa Anticlinorium. Uplift in the Rocky Mountains resulted principally from generally northeast southwest shortening and thrust faulting that penetrated basement rocks, bringing the basement and overriding younger strata to relatively high levels in the crust. The Laramide thrusts likely followed older zones of weakness.

A fracture zone of normal faults, later than Laramide deformation, extends southward from Muncho Lake into the Toad River valley. The normal faults have a vertical displacement of up to 2,000 feet (600 meters).

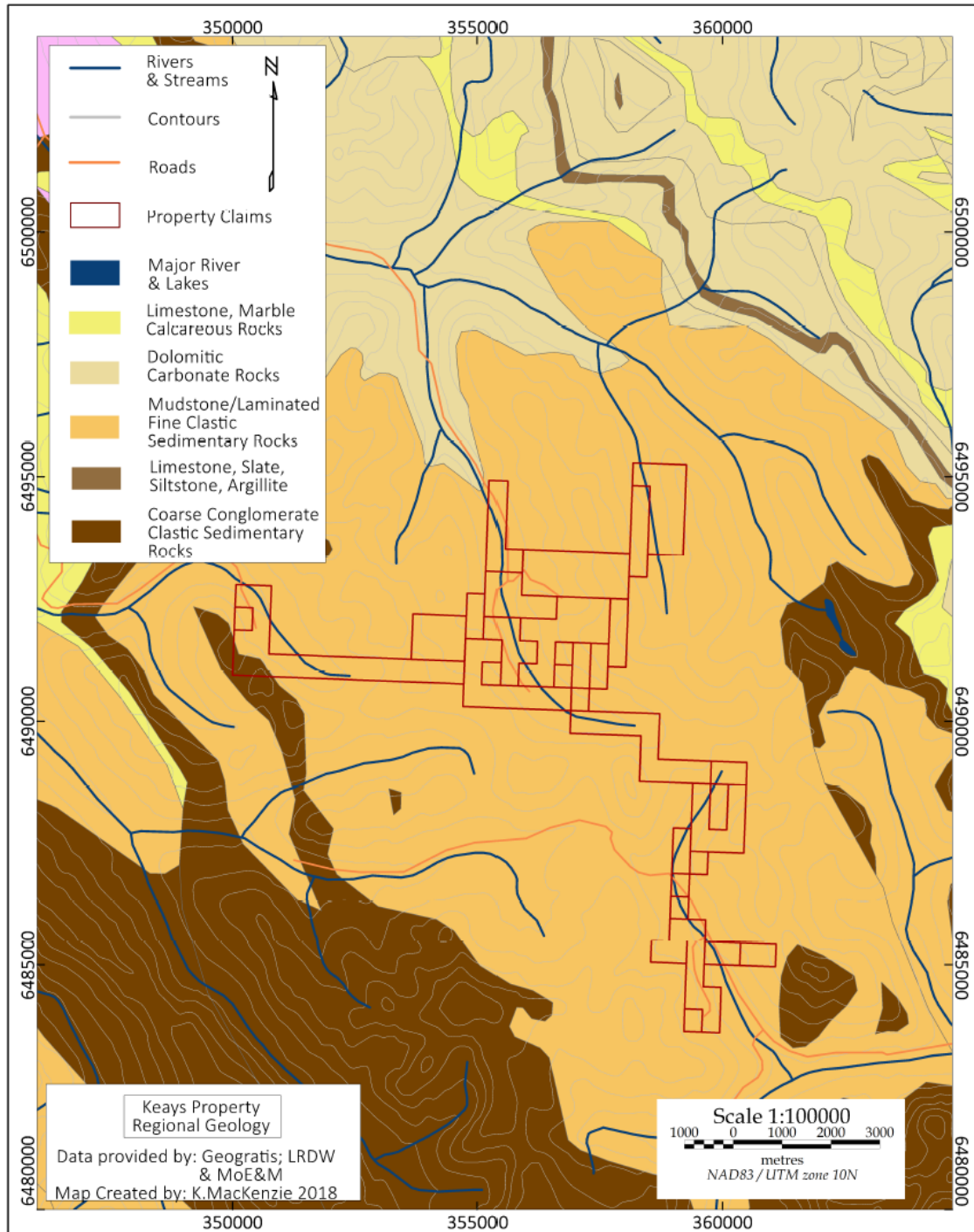


Figure 3: Keays Property Area Regional Geology

## 5.2 LOCAL GEOLOGY

(Harrington, 2009, asst rpt 31179)

The geology of the Key Property consists of a sedimentary sequence belonging to the Precambrian Aida formation. The main rock types include southwest-dipping dark-gray shale, and buff- to orange-weathering dolomite. Sediments are cut by numerous, northeast-trending diabase dykes that range in width from a few meters to approximately 100 meters.

The Precambrian strata are folded about axes that plunge gently southeast (see photos in Appendices). Folds are asymmetrical with steep northeast and gentle southwest limbs. Most folds are concentrated in a northeast trending belt approximately 2,400 meters wide. The northeast trending veins on the Key Property are associated with fractures that are perpendicular to the axes of folds.

## 6. SAMPLING PROGRAM

### 6.1 GEOCHEMICAL SAMPLES

During September 2018, Mr. Richard Beck and field assistant collected seventeen (17) samples on the Davis-Keayes Property. The samples were taken from quartz dominant float along Eagle and Caribou creeks.

Personnel collected the samples using rock hammers and carefully selecting particular mineralized rocks. Samples in most instances were easy to come by; in particular the Eagle creek tributary area, as the surrounding creek bed was inundated with numerous quartz boulders. All sample sites were marked with orange flagging tape and GPS points were taken. Samples were collected, placed into a 6mm 12x20 poly ore bag with associated sample assay lab tag and sealed with a tie strap. A total of 17 samples were taken. All samples taken are found in Table 2 as well as on Figures 4 and Appendix II. Sample Descriptions can be found In Table 2.

Location was determined using a handheld Garmin CSx GPS unit. Samples were collected in poly sample bags and uniquely labeled with sample tags. Samples were taken by Mr. Richard Beck each day back to camp. Upon completion of the sampling program all samples were delivered to and submitted to the ALS Chemex lab in Terrace, B.C. at the end of the program.

All samples were transported directly to the lab by Mr. Beck.

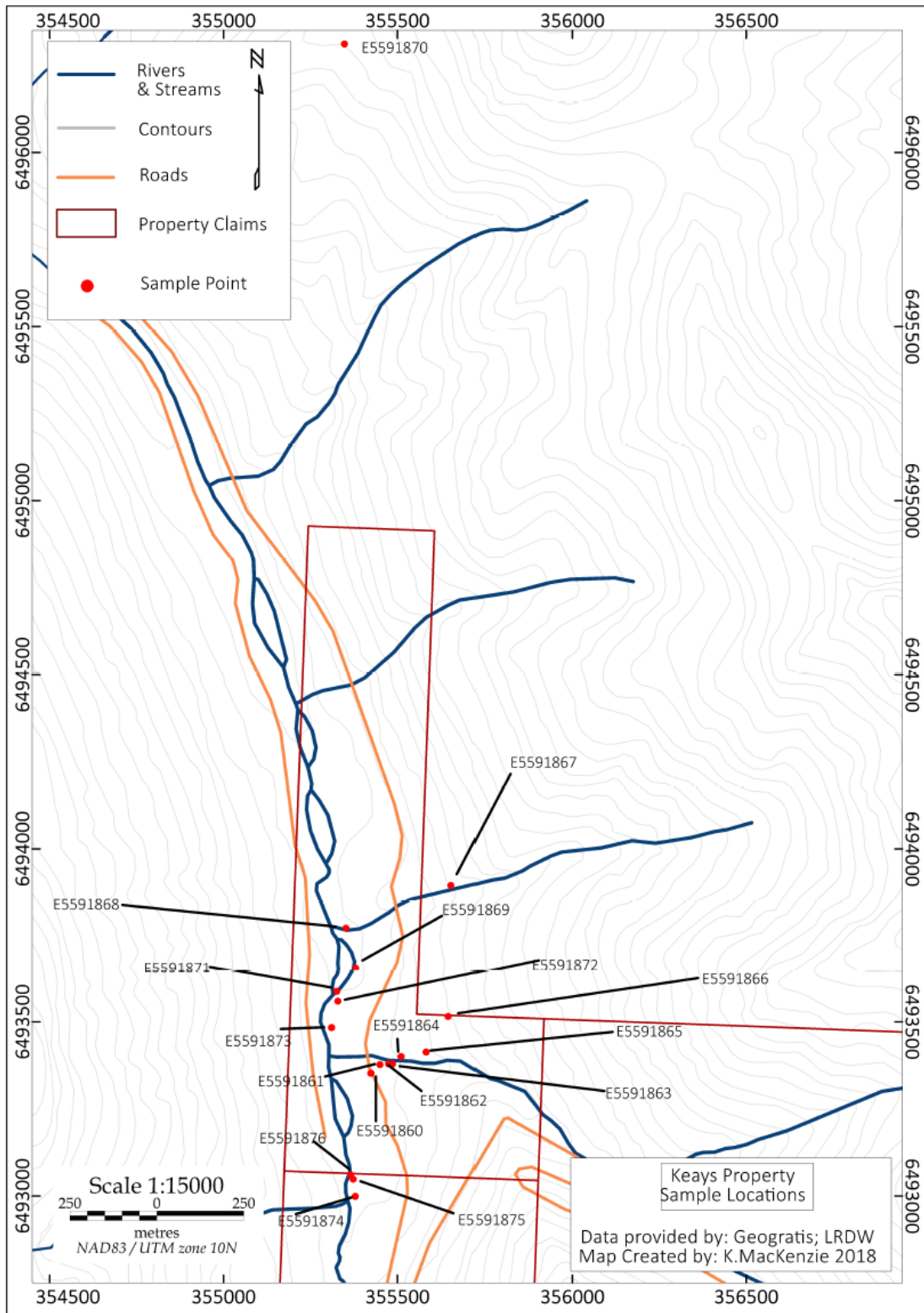


Figure 4: Sample Location Map Keays Property



## 7. SAMPLING

### 7.1 SAMPLING METHOD AND APPROACH

See Sections 6.1 and 6.2 for details of on-site sampling method. After sample collection, sample bags were stored by Mr. Beck until they were delivered to the ALS Chemex Lab in Terrace, BC. Mr. Beck saw the samples at ALS and filled out all the appropriate paperwork.

### 7.2 SAMPLE PREPARATION, ANALYSES, AND SECURITY

ALS crushed all of the samples using CRU-QC and CRU-31 fine crushing -70% <2mm and then pulverized 1000g to 85% <75um. A 46 element aqua regia (ME-OG46) for ore grade elements was performed on all samples followed by an ore grade CU-OG46 aqua regia finish to extinction. Then all samples were analyzed for 41 elements through ICP-MS ultra trace aqua regia (me-ms41). The sample analyses are shown in Appendix I and Table 2.

### 7.3 DATA VERIFICATION

No standards or blanks were submitted although the labs run their own tests regularly.

### 7.4 RESULTS

See Table 2: Assay Results. Assay Certificates can be found in Appendix II

TABLE 2: SAMPLE DESCRIPTIONS

Sample #	Easting	Northing	Zone	Comments
E5591860	355424	6493352	10	Large quartz vein boulder; purple staining rind 2-3mm thick; solid chalcopryite when broken open; actual qtz in vein material is mineral to amount of mineralization; 70% chalcopryite, 25% qtz; 4% pyrite with minor bornite and malachite
E5591861	355450	6493377	10	Malachite rich qtz float boulder; lots of malachite within the quartz; along edges of malachite is fine-grained chalco and pyrite; small discontinuous veinlets of bornite observed within vein material
E5591862	355475	6493379	10	similar description to previous sample# 591861
E5591863	355486	6493379	10	qtz float boulder speckled with chalcopryite rather than thick bands like previous samples; when cracked open "speckled" reveals itself to be both bornite and chalcopryite with abundant malachite staining around native copper flecks
E5591864	355511	6493400	10	similar description to previous sample# 591863
E5591865	355583	6493413	10	in situ qtz vein on northern side of eagle vein tributary ~ 100m west of waterfall; vein has abundant azurite and malachite staining t/o with minor speckles of chalcopryite within vein materia; veining is approximately 1.5-2 feet wide at 227/78; vein appears to pinch and swell and is parallel to and within local lineation where smaller veins exhibit textbook pinch and swell features; this vein is observed on the opposite side of the tributary as well but thicker; could not access due to water
E5591866	355646	6493515	10	located adit at 1455m elevation north of eagle vein tributary and waterfall; sample taken from waste pile directly outside of decommissioned adit; vein material is milky white with abundant pinkish feldspar; very hard to break; appears to be broken/incorporated chunks of syenite material (light brown) within qtz vein; mineralization in this sample is weak with few <1% chalcopryite veinlets and trace pyrite and malachite. Possible chalcocite observed as mafic specks - non-magnetic

E5591867	355654	6493895	10	qtz boulder float in large canyon north of the eagle vein tributary; large boulder exhibiting layered chalcopryrite veinlets within; boulder contains pinkish feldspar xstls from its upslope origin
E5591868	355352	6493772	10	qtz boulder in creek; boulder located in creek that is the creek immediately north of the eagle vein tributary creek; white qtz and pink feldspar throughout with ~4% mm scale chalcopryrite; trace disseminated pyrite and trace intermittent malachite staining
E5591869	355380	6493657	10	large qtz boulder on valley beach-like floor downstream of the eagle tributary; bull qtz with syenite and <1% chalcopryrite; trace malachite staining and trace diss pyrite
E5591870	355348	6496311	10	sample in beach valley along the main north south trending creek north of the eagle vein tributary creek qtz boulder in creek outwash plain; likely source is the eagle vein as the mineralization is identical to that of the eagle vein area location and the mineralization in those samples; abundant stylolite t/o rock with >25% chalco; 5% pyrite and 1% pyrite
E5591871	355326	6493587	10	qtz float in main creek north of the eagle vein tributary; bullish qtz 70% qtz 30% feldspar; abundant iridescent chalco t/o
E5591872	355329	6493559	10	sample like that of previous sample#591871; abundant malachite; trace azurite; qtz feldspar matrix; >5% chalco diss throughout the qtz NOT the feldspar
E5591873	355311	6493483	10	massive qtz float boulder with >20% chalco in massive blebs t/o trace wallrock within the sample - wallrock appears to be argillite?!? Sample located at junction of eagle vein tributary and main creek valley
E5591874	355379	6492999	10	large mineralized boulder of qtz upstream of eagle vein tributary; abundant chalcopryrite; malachite, azurite, pyrite and bornite within milky white qtz/carbonate boulder; 70% stylolite country rock within; argillite?

E5591875	355373	6493048	10	styolite rich mineralized qtz float boulder; qtz only houses abundant chalco, malachite, pyrite and minor azurite; sample taken upstream of eagle vein tributary
E5591876	355366	6493060	10	large strongly mineralized purplish stained qtz float boulder discovered upstream of the eagle vein tributary where this type and style of mineralization is typical; 2016 Harris vein material did not exhibit this staining; >20% chalco 1-2% malachite and azurite and diss flecks of sulphides t/o

## 8. INTERPRETATION AND CONCLUSIONS

The approach to the sampling program was such that the area chosen for exploration was done so based on the budget available, the ability to safely conduct daily traverses on foot and an area in which additional success may yield favourable results.

The 2018 program focus was on the Eagle vein area (1.5km north of the 2016 Harris vein assessment work). The Eagle vein represents the area with the most work to date, in that the area has 4 known adit portals that begin at the valley floor to the upper reaches of the eastern flanks of the mountain side via switchback trails.

The Eagle vein location was chosen for exploration as there are reported quartz veins that run extensively throughout this mountain side location. Our budget-controlled program was to ascertain whether there were quartz that were yet to be discovered as well as updating the current work with current assays of known vein material.

Our camp was located at the base of the Eagle vein tributary along Caribou creek, the main north-south running valley creek. From our camp, we set out on daily traverses covering approximately 3-4 km daily.

In the immediate location of our camp in strewn over a 1km x 1km area we encountered numerous quartz float boulders such that the outwash plain we were situated on was "speckled" with white throughout light brownish oxidized rock talus. All these boulders are presumed to have originated from upstream making the Eagle vein tributary the obvious origin and therefore the favorable results are originating from a confined area. We had to focus our attention on boundaries as the claim(s) we were traversing and ultimately sampling were constrained by their north-south small area extension before we were on someone else's claims.

Quartz float ranged in size from small 10cm boulders to 50cm boulders. Almost every quartz boulder float observed was mineralized to some extent suggesting that the origin site(s) is/are presumably well mineralized too. Access to the upper reaches of the claims was hindered due to extensive snow pack. The adit portals in the upper reaches were observed on both helicopter flights in and out of the property.

All samples yielded copper mineralization with many having elevated copper values. All the samples taken were assumed to (author's opinion based on topography and terrain) have originated from upstream/upslope into the Eagle vein adit region. Samples were of two varying types; one was a milky white quartz vein inundated with sulphide mineralization and abundant purplish reddish staining (oxidation rind) while the other was a moderately mineralized quartz/feldspar vein with weak to moderate stibnite country rock throughout. Until further exploration is conducted it will be assumed that these are two separate episodes of veining from the same area.

In conclusion, quartz vein material is abundant in this area of the Eagle vein tributary and known adit portals so much so that any handpicked float boulder will most likely yield significant copper values. At least two vein styles are present in the same outwash plain with possibly more yet identified. Country rock being that of sedimentary origin was not sampled so it remains unknown at this time whether mineralization is solely confined to the quartz or bleeds into the country. Numerous Northeast/Southwest diabase dykes swarm through the property and, as observed lower down, they cut off the in situ quartz veining. This source of late heat intrusion may very well have remobilized mineralization, however, until further exploration and sampling is conducted this remains an interesting unknown. Copper mineralization is strong in these veins; however, silver, gold, lead and zinc values are relative weak to non-economic.

## 9. RECOMMENDATIONS

The results of the 2019 program were significant and unexpected. Previous reports and workings in the area suggested moderate copper values, however, there has been no mention of the sheer abundance of mineralized quartz as has been discovered between 2016-2019.

Further work is warranted, and a proposed exploration plan follows:

- Database compilation
- Property wide mapping and sampling using helicopter for support to reach those areas you cannot reach by foot. Focus should be on areas in and around Eagle vein, Harris vein and Pink vein.
- Detailed mapping in areas of intersection of veins with dykes
- Underground mapping if possible

An estimated \$500,000 exploration program is recommended for the Davis- Keays Property

## 10. STATEMENT OF COSTS

<b>Keays Property - John Bot</b>					
<b>Geological Sampling Program 2018</b>					
<b>Personnel (Name)* / Position</b>	<b>Field Days</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal</b>	
Richard Beck	Sept 16-19 2018	4	\$500.00	\$2,000.00	
Ewen Wallace	Sept 16-19 2018	4	\$462.00	\$1,848.00	
Richard Beck	Sept 14,15,20,21	4	\$250.00	\$1,000.00	
Ewen Wallace	Sept 14,15,20,21	4	\$231.00	\$924.00	
				\$5,772.00	<b>\$5,772.00</b>
<b>Office Studies</b>	<b>List Personnel</b>				
		<b>Hours</b>	<b>Rate</b>	<b>Subtotal</b>	
Report preparation	R. Beck	17.0	\$55.00	\$935.00	
Report preparation	GIS	4.0	\$65.00	\$260.00	
				\$1,195.00	<b>\$1,195.00</b>
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Drill (cuttings, core, etc.)			\$0.00	\$0.00	
Stream sediment			\$0.00	\$0.00	
Soil			\$0.00	\$0.00	
Rock		17.0	\$57.25	\$973.25	
Water			\$0.00	\$0.00	
Biogeochemistry			\$0.00	\$0.00	
Whole rock			\$0.00	\$0.00	
Petrology			\$0.00	\$0.00	
Other (specify)	freight and shipping		\$0.00	\$120.00	
				\$1,093.25	<b>\$1,093.25</b>
<b>Transportation</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	

Airfare		1.00	\$1,000.00	\$1,000.00	
Taxi			\$0.00	\$0.00	
truck rental		9.00	\$75.00	\$675.00	
kilometers		2666.00	\$0.75	\$1,999.50	
ATV				\$0.00	
fuel				\$0.00	
Helicopter (hours)		1	\$9,100.00	\$9,100.00	
Fuel (litres/hour)			\$0.00	\$0.00	
Other					
				\$12,774.50	<b>\$12,774.50</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Hotel		0.00	\$0.00	\$0.00	
Camp		50.00	\$9.00	\$450.00	
Meals x2 persons x 9 days		134.00	\$9.00	\$1,206.00	
				\$1,656.00	<b>\$1,656.00</b>
<b>Miscellaneous</b>					
Propane				\$0.00	
Field supplies		1.00	\$150.00	\$150.00	
Other (Specify)					
				\$150.00	<b>\$150.00</b>
<b>Equipment Rentals</b>					
Satellite phone/radios		1.00	\$150.75	\$150.75	
Geological tool kits		8.00	\$35.00	\$280.00	
				\$430.75	<b>\$430.75</b>
<b><i>SUB-TOTAL Expenditures</i></b>					<b>\$23,071.50</b>
<b><i>Total to be filed</i></b>	<b>w/o taxes</b>				<b>\$23,071.50</b>

## 11. REFERENCES

1. Harrington, Edward (2009); Assessment Report on the Key Property; Assessment report # 31179



## 12. STATEMENT OF QUALIFICATIONS

I, Richard Beck, residing at 4901 Slack Road, Smithers, British Columbia, do hereby certify that:

- I am the sole proprietor of R. Beck Consulting Services and I was the former President of UTM Exploration Services Ltd.
- I attended Dalhousie University from 1985 to 1989, specializing in Geology; 2018 – present Dalhousie University obtaining credits to fulfill P.Ge
- Between 1987 and 1990, and 1990 to present I have been continuously employed as a junior geologist/project manager/senior exploration geologist in the mineral exploration sector;
- I did visit the property acting on behalf of R Beck Consulting Services at the time and I did witness the sample locations for which this report identifies. I have solely compiled the data collected herein and written the assessment report

Date at Smithers, British Columbia, and this 14th day of January 2019.



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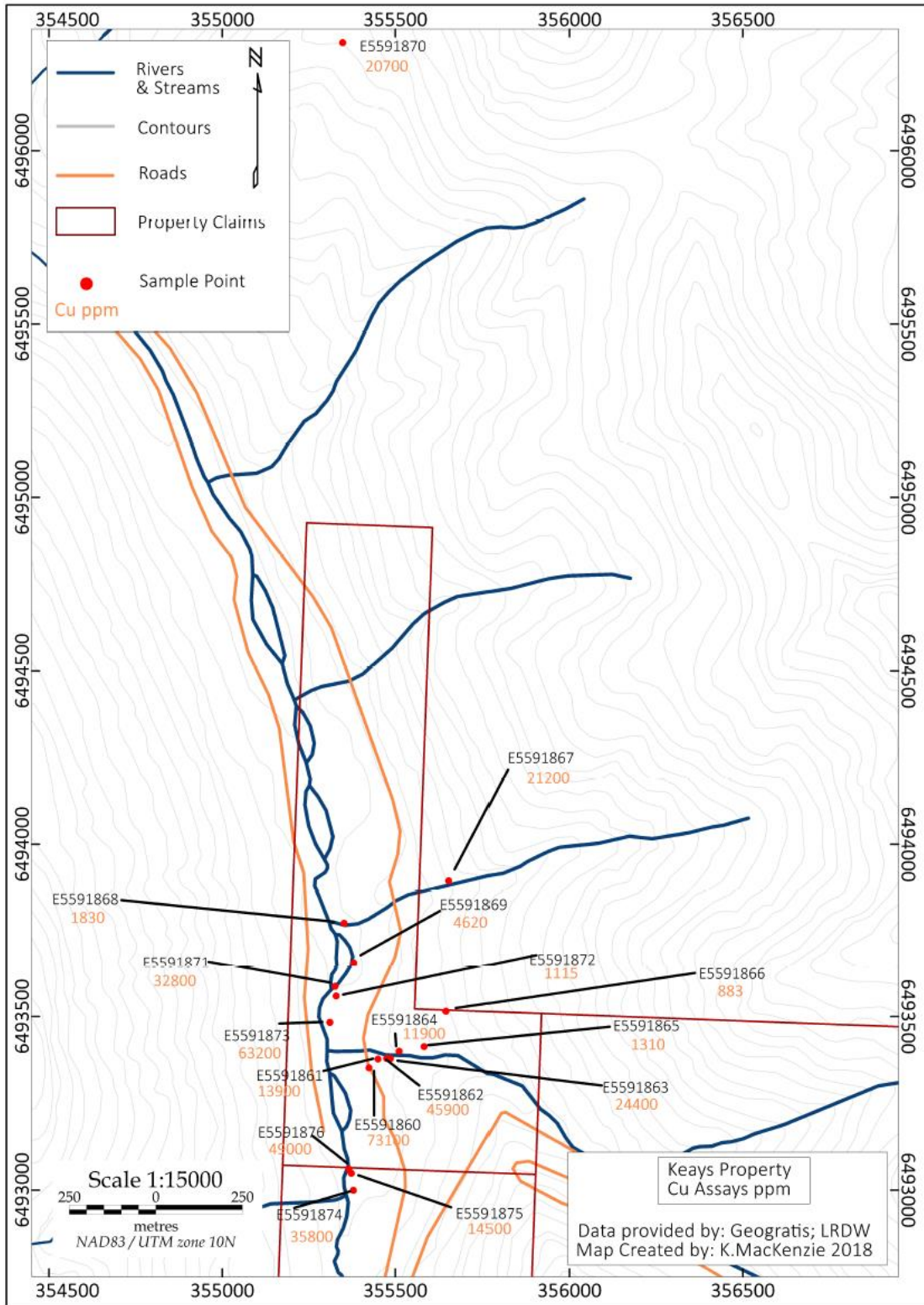
Richard Beck

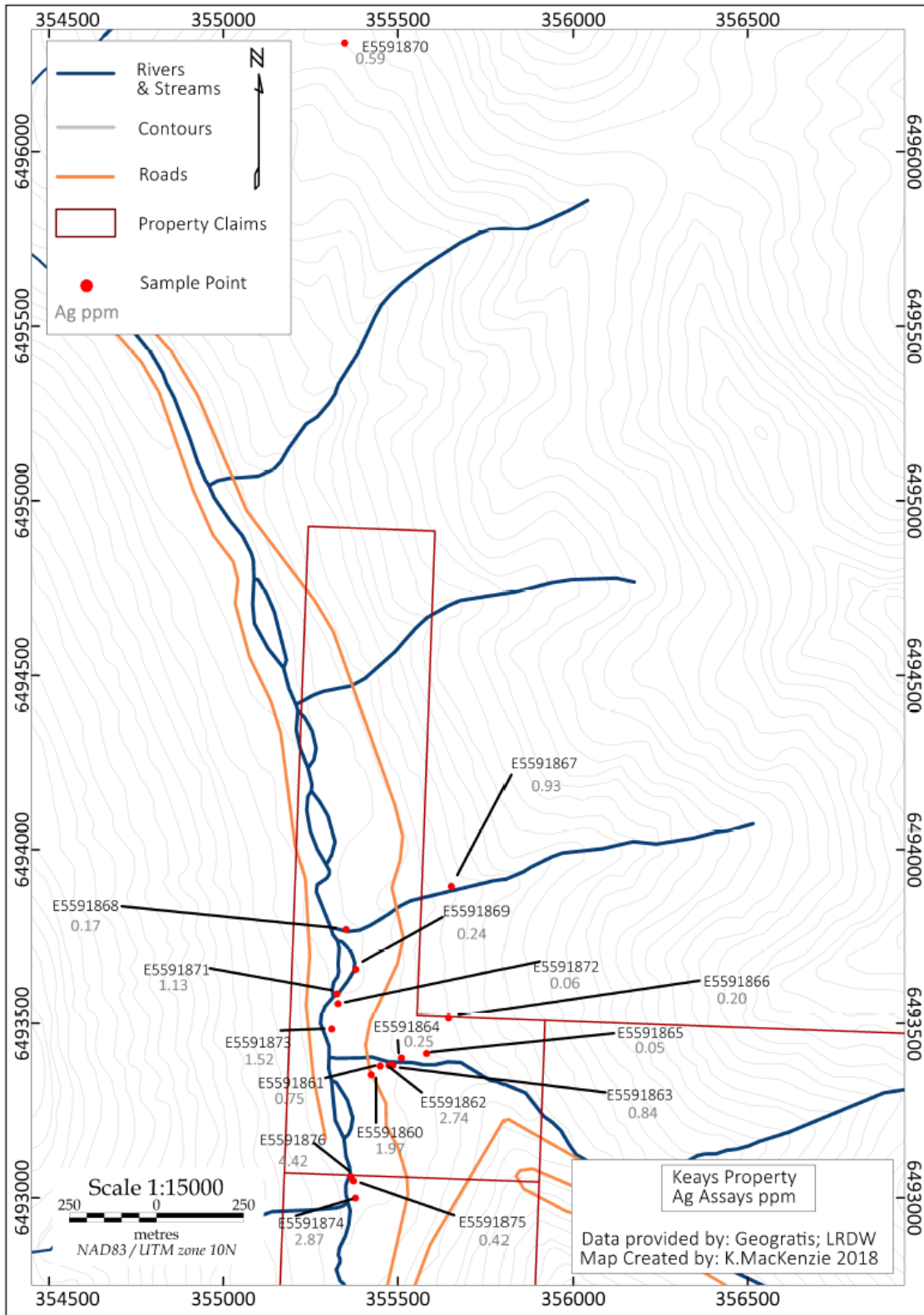
R. Beck Consulting Services

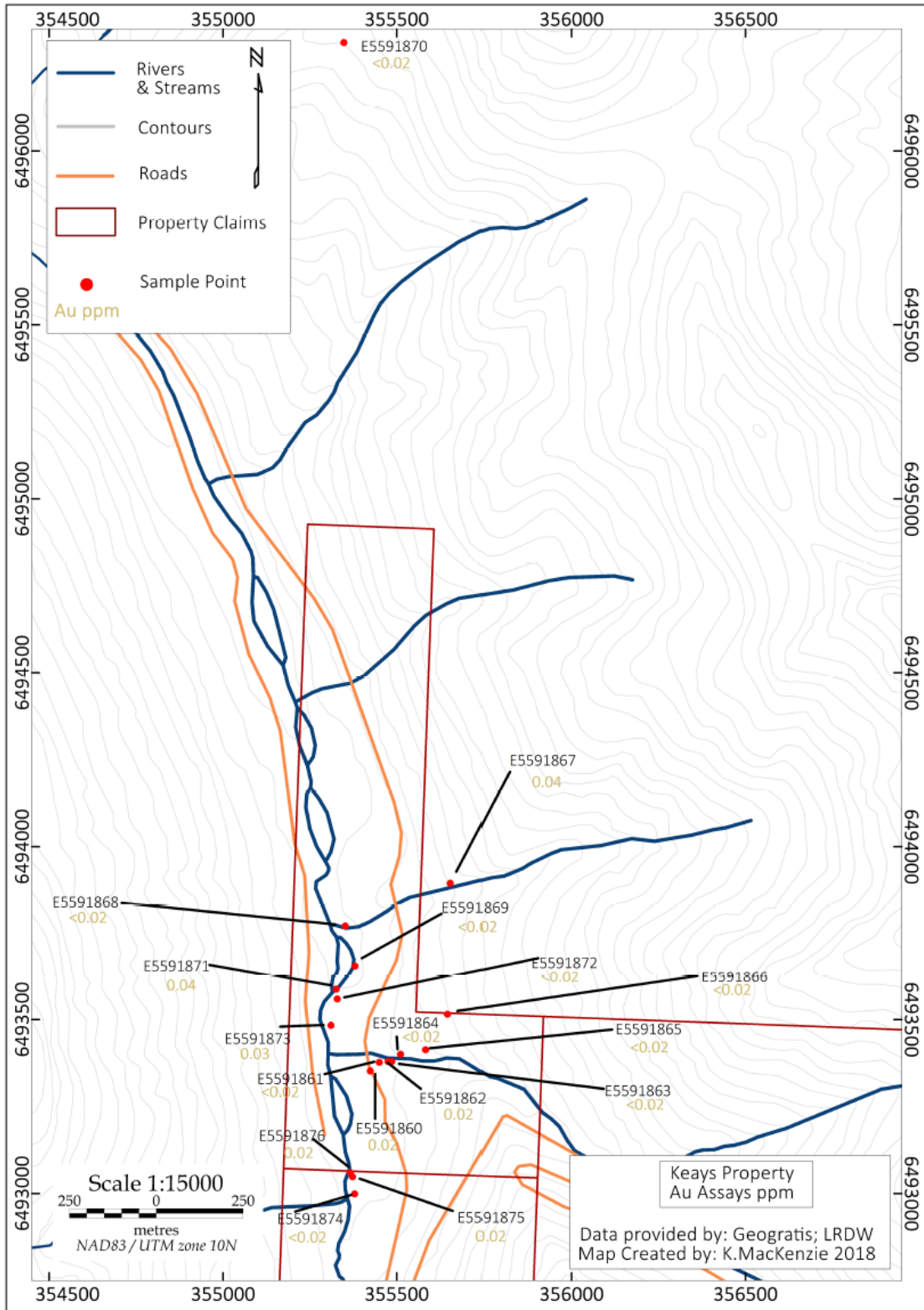
## APPENDIX I: ASSAYS CERTIFICATES

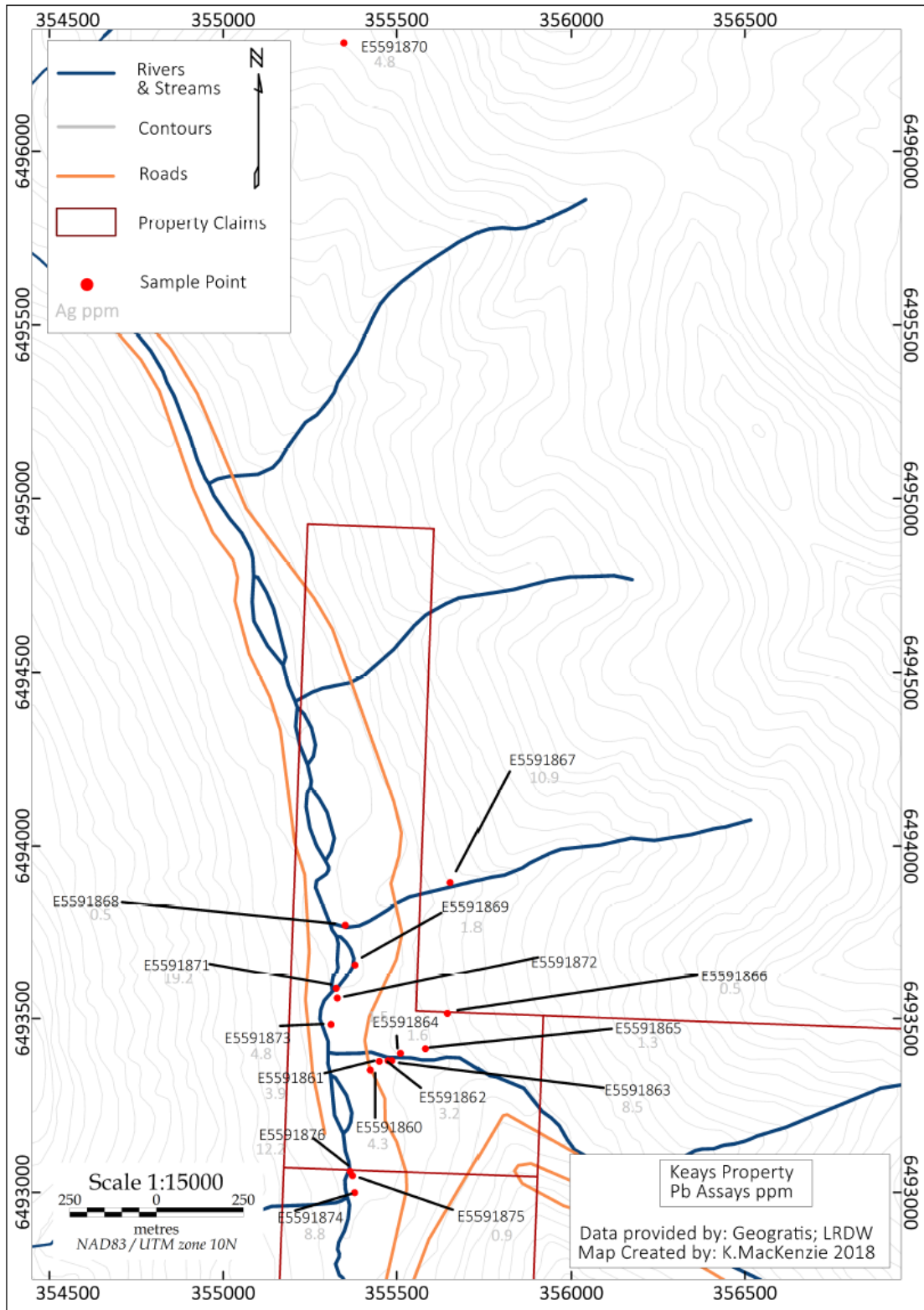


## APPENDIX II: SAMPLE ASSAY MAPS

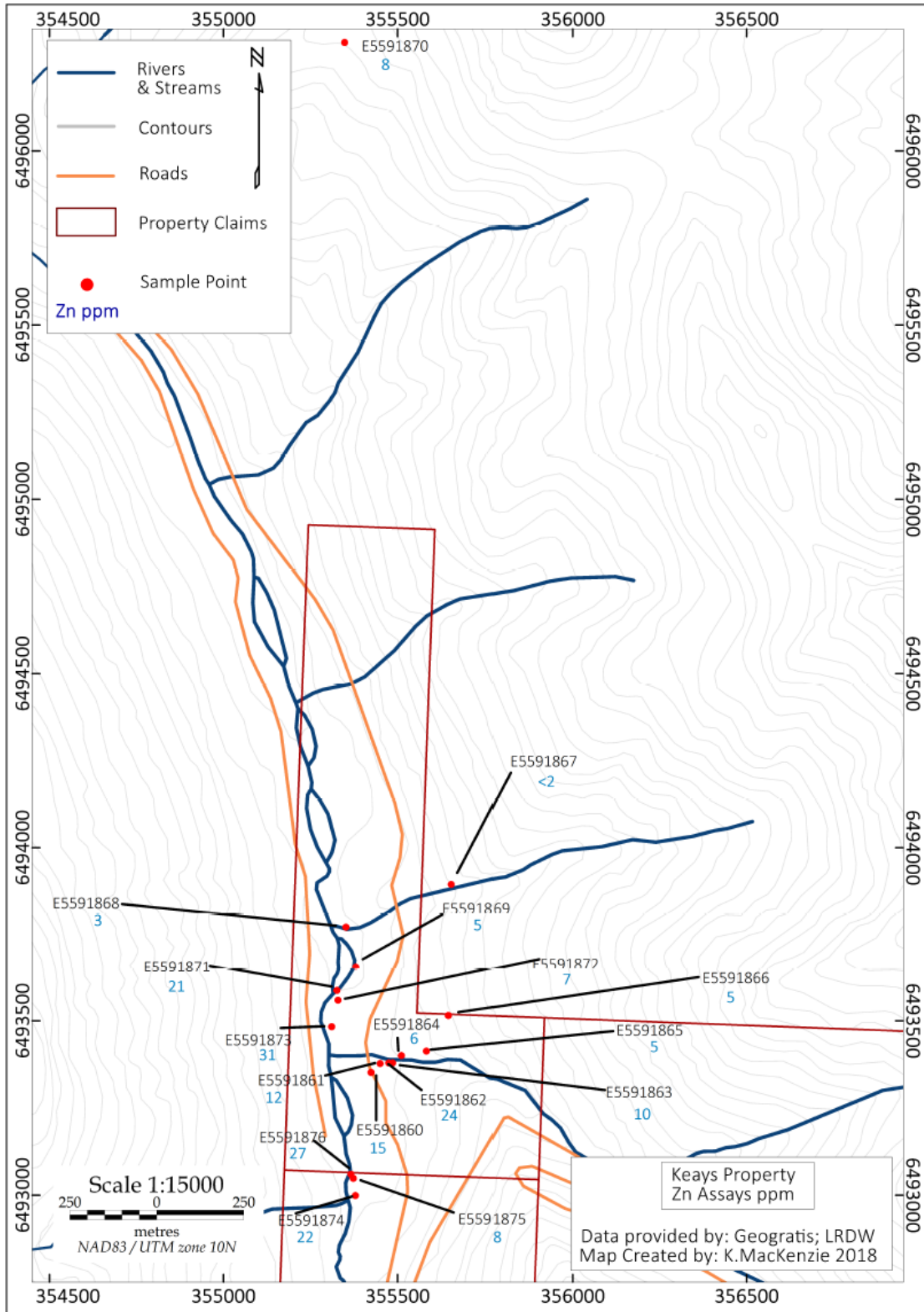












## APPENDIX III: FIELD PHOTOS



Looking north downstream of Caribou creek – helicopter arrival to site



Camp setup on outwash plain of Eagle vein tributary – view looking south





Lowest most adit entrance into Eagle vein – 1455m elevation – view looking Northeast



Lowest most adit entrance – boarded up entrance showing signs of collapse





View from adit location looking Southwest upstream of Caribou creek



View from adit location looking North-Northwest downstream of Caribou creek





Folds in rock sediment along Eagle creek tributary – sample location



View from crevice in Eagle creek tributary at folded rocks – looking west



Typical Malachite stained quartz boulder littering the outwash plain below Eagle vein creek





Typical Chalcopyrite mineralized quartz boulder littering outwash plain of Eagle vein creek



Layered Malachite staining within quartz float





Purplish iron rich and chalcopyrite rich quartz float boulder – this staining is abundant in outwash of the Eagle vein creek area

APPENDIX IV: SAMPLE PHOTOS



Hand sample representatives of samples taken at Davis-Keays Property 2018





Sample 5591860



Sample 5591861





Sample 5591862



Sample 5591863





Sample 5591864



Sample 5591865





Sample 5591866



Sample 5591867





Sample 5591868



Sample 5591869





Sample 5591870



Sample 5591871





Sample 5591872



Sample 5591873





Sample 5591874



Sample 5591875





Sample 5591876



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**CERTIFICATE TR18241748**

Project: Keays

This report is for 17 Rock samples submitted to our lab in Terrace, BC, Canada on 26- SEP- 2018.

The following have access to data associated with this certificate:

RICHARD BECK		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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

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

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS TR18241748**

Sample Description	Method Analyte Units LOD	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.1	1	0.05	
E5591860		2.48	1.97	0.05	4.3	0.02	<10	10	<0.05	1.23	0.50	0.03	0.70	2.2	16	0.06
E5591861		2.64	0.75	0.04	3.5	<0.02	10	10	<0.05	0.20	2.04	0.04	2.25	2.2	14	0.06
E5591862		2.10	2.74	0.06	5.0	0.02	<10	<10	<0.05	3.12	0.82	0.16	2.66	4.2	14	0.06
E5591863		2.85	0.84	0.04	5.6	<0.02	<10	<10	0.05	0.96	2.97	0.04	4.02	4.7	13	0.06
E5591864		2.85	0.25	0.03	7.6	<0.02	<10	<10	<0.05	0.88	2.33	0.03	1.79	4.2	19	0.05
E5591865		2.08	0.05	0.47	2.3	<0.02	<10	<10	0.07	0.06	2.04	0.02	17.20	1.6	16	<0.05
E5591866		2.03	0.20	0.23	1.5	<0.02	10	<10	0.06	0.04	6.34	0.03	5.58	1.9	9	0.09
E5591867		2.80	0.93	0.11	5.1	0.04	<10	20	0.08	2.62	3.79	0.04	3.73	19.2	11	<0.05
E5591868		1.86	0.17	0.03	1.0	<0.02	<10	<10	<0.05	0.05	4.17	0.02	2.58	0.4	10	<0.05
E5591869		2.13	0.24	0.04	1.1	<0.02	<10	10	<0.05	0.07	2.54	0.03	5.03	1.4	10	0.06
E5591870		2.01	0.59	0.10	27.1	<0.02	10	10	0.11	0.96	3.22	0.04	4.11	10.8	12	0.13
E5591871		2.41	1.13	0.03	11.8	0.04	<10	<10	<0.05	3.98	1.13	0.12	1.05	11.1	18	0.06
E5591872		3.21	0.06	0.01	0.7	<0.02	<10	<10	<0.05	0.01	13.65	0.06	5.13	1.2	4	0.07
E5591873		2.87	1.52	0.07	3.5	0.03	<10	<10	<0.05	0.39	3.13	0.20	2.40	2.3	9	0.07
E5591874		2.96	2.87	0.07	7.4	<0.02	<10	10	0.06	0.61	0.88	0.16	3.54	6.4	15	0.13
E5591875		3.22	0.42	0.06	90.2	0.02	<10	10	0.05	0.81	1.52	0.03	3.69	14.2	15	0.06
E5591876		3.07	4.42	0.07	25.9	0.02	<10	10	0.06	2.15	0.64	0.12	6.91	17.3	11	0.15



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**CERTIFICATE OF ANALYSIS TR18241748**

Sample Description	Method Analyte Units LOD	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
E5591860		>10000	6.71	1.99	0.99	<0.02	0.51	0.522	0.03	<0.2	1.3	0.15	71	0.23	0.01	<0.05
E5591861		>10000	2.10	0.49	0.08	<0.02	0.11	0.152	0.03	0.7	0.9	0.88	236	0.14	0.01	<0.05
E5591862		>10000	4.68	0.93	0.25	<0.02	0.15	0.323	0.04	0.8	1.0	0.24	95	0.22	0.01	<0.05
E5591863		>10000	3.22	0.47	0.06	0.03	0.10	0.196	0.03	1.3	0.6	1.43	389	0.17	<0.01	<0.05
E5591864		>10000	2.14	0.20	<0.05	<0.02	0.04	0.117	0.03	0.5	0.9	1.17	160	0.16	0.01	<0.05
E5591865		1310	0.98	1.91	0.10	0.07	0.01	0.054	0.01	10.5	7.8	1.32	243	0.74	0.01	<0.05
E5591866		883	1.47	0.75	<0.05	0.05	0.02	0.141	0.07	2.4	2.8	3.22	675	0.12	0.01	<0.05
E5591867		>10000	5.15	0.73	0.05	0.02	0.11	0.488	0.04	2.1	2.5	2.06	472	0.63	0.01	<0.05
E5591868		1830	0.98	0.13	<0.05	0.02	0.02	0.088	0.02	1.0	0.9	2.28	321	0.72	0.01	<0.05
E5591869		4620	1.15	0.20	<0.05	0.03	0.10	0.093	0.03	1.7	1.0	1.20	249	0.19	0.01	<0.05
E5591870		>10000	4.58	0.42	0.05	0.09	0.12	0.204	0.08	1.3	1.1	1.56	376	0.19	0.01	<0.05
E5591871		>10000	3.23	0.94	0.21	<0.02	0.16	0.255	0.02	0.2	1.3	0.47	124	0.18	0.01	<0.05
E5591872		1115	1.99	0.13	<0.05	<0.02	0.01	0.426	0.01	0.9	1.2	7.46	852	0.07	0.01	<0.05
E5591873		>10000	6.30	2.17	0.90	0.02	0.32	0.530	0.04	0.5	1.7	1.45	216	0.16	0.01	<0.05
E5591874		>10000	3.93	0.40	0.05	0.04	0.07	0.310	0.05	1.1	0.7	0.28	120	0.23	0.01	<0.05
E5591875		>10000	1.78	0.52	<0.05	0.03	0.05	0.170	0.05	1.5	0.7	0.70	125	0.25	<0.01	<0.05
E5591876		>10000	5.81	0.37	0.06	0.04	0.21	0.459	0.05	3.1	0.9	0.29	96	0.22	0.01	<0.05



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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
E5591860		4.4	890	4.3	0.8	<0.001	2.20	2.09	0.3	3.6	64.4	8.4	<0.01	<0.01	<0.2	<0.005
E5591861		4.7	1080	3.9	1.1	<0.001	1.46	1.12	1.0	0.3	12.0	22.4	<0.01	0.01	<0.2	<0.005
E5591862		7.1	1580	3.2	1.3	<0.001	2.94	0.81	0.8	2.2	33.1	10.1	<0.01	<0.01	<0.2	<0.005
E5591863		9.6	510	8.5	1.1	<0.001	2.85	1.86	2.1	1.3	18.6	17.9	<0.01	0.02	0.2	<0.005
E5591864		5.9	460	1.6	0.8	<0.001	1.92	0.53	1.1	1.8	6.9	13.3	<0.01	<0.01	<0.2	<0.005
E5591865		5.8	2630	1.3	0.3	0.001	0.03	0.21	2.4	<0.2	0.5	15.8	<0.01	0.01	0.4	<0.005
E5591866		3.0	1150	0.5	1.8	<0.001	0.11	0.13	7.6	0.2	0.3	46.3	<0.01	<0.01	<0.2	<0.005
E5591867		32.6	170	10.9	1.3	<0.001	4.73	0.81	10.0	4.4	2.4	43.3	<0.01	0.02	<0.2	<0.005
E5591868		2.0	160	0.5	0.5	<0.001	0.09	0.15	3.2	0.4	0.3	15.8	<0.01	0.01	0.2	<0.005
E5591869		2.4	940	1.8	1.1	<0.001	0.39	0.31	1.2	0.3	0.9	26.2	<0.01	<0.01	0.2	<0.005
E5591870		19.0	1190	4.8	2.6	<0.001	4.32	1.56	3.7	4.0	6.4	20.4	<0.01	0.01	0.5	<0.005
E5591871		10.1	720	19.2	0.7	<0.001	1.85	2.17	0.3	1.9	30.6	8.9	<0.01	0.01	<0.2	<0.005
E5591872		1.8	10	1.5	0.3	<0.001	0.02	0.05	4.1	<0.2	0.3	71.2	<0.01	0.01	<0.2	<0.005
E5591873		4.6	2510	4.8	1.3	<0.001	3.15	1.55	3.4	2.8	72.7	31.6	<0.01	0.01	<0.2	<0.005
E5591874		11.3	1370	8.8	1.8	<0.001	2.72	1.40	0.8	3.4	14.4	12.4	<0.01	0.04	0.3	<0.005
E5591875		23.2	700	0.9	1.5	<0.001	1.29	4.17	4.0	0.8	15.2	15.4	<0.01	<0.01	0.2	<0.005
E5591876		19.2	300	12.2	1.7	<0.001	3.82	4.59	1.3	9.2	22.8	12.2	<0.01	0.13	0.3	<0.005





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Sample Description	Method Analyte Units LOD	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Cu- OG46
		Tl	U	V	W	Y	Zn	Zr	Cu
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
E5591860		0.04	0.07	<1	<0.05	1.67	15	<0.5	7.31
E5591861		0.57	0.18	1	<0.05	4.35	12	0.6	1.390
E5591862		0.04	0.12	1	<0.05	3.22	24	0.5	4.59
E5591863		0.20	0.08	1	<0.05	3.57	10	1.2	2.44
E5591864		0.02	0.05	1	<0.05	3.65	6	<0.5	1.185
E5591865		0.29	0.46	15	<0.05	8.07	5	2.5	
E5591866		0.03	0.15	21	<0.05	11.50	5	1.5	
E5591867		0.96	0.14	4	<0.05	4.81	<2	0.8	2.12
E5591868		0.03	0.23	7	<0.05	4.85	3	0.9	
E5591869		0.03	0.36	1	<0.05	6.39	5	1.2	
E5591870		0.07	0.21	2	<0.05	6.12	8	3.1	2.07
E5591871		0.04	0.15	<1	<0.05	2.43	21	<0.5	3.28
E5591872		<0.02	0.07	3	<0.05	16.30	7	<0.5	
E5591873		0.06	0.28	2	<0.05	5.59	31	0.7	6.32
E5591874		0.08	0.12	1	<0.05	3.44	22	1.2	3.58
E5591875		0.03	0.15	1	<0.05	3.41	8	1.1	1.450
E5591876		0.10	0.07	<1	<0.05	1.85	27	1.5	4.90



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Account: RICBEC

Project: Keys

**CERTIFICATE OF ANALYSIS TR18241748**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).  
ME- MS41

#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.  
CRU- 31 CRU- QC LOG- 21 PUL- 31  
PUL- QC SPL- 21 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Cu- OG46 ME- MS41 ME- OG46