**Ministry of Energy, Mines & Petroleum Resources**
Mining & Minerals Division
BC Geological Survey

**Assessment Report**
**Title Page and Summary**

**TYPE OF REPORT [type of survey(s)]:** Geological and Geochemical

**TOTAL COST:** 2875.33

**AUTHOR(S):** Helgi Sigurgeirson, P.Geo **SIGNATURE(S):**

**NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):** n/a **YEAR OF WORK:** 2015

**STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):** SOW #5579281 / Nov.18, 2015

**PROPERTY NAME:** Aufeas

**CLAIM NAME(S) (on which the work was done):** 522383

**COMMODITIES SOUGHT:** Au, Ag

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:** 092HSW036

**MINING DIVISION:** New Westminster **NTS/BCGS:** 092H/6W

**LATITUDE:** 49 ° 19 ' 54.36 " **LONGITUDE:** 120 ° 47 ' 2.33 " **(at centre of work)**

**OWNER(S):**
1) Donald Hunchuk 2)

**MAILING ADDRESS:**
19918 Silverhope Rd., Hope, BC V0X 1L2

**OPERATOR(S) [who paid for the work]:**
1) Donald Hunchuk 2)

**MAILING ADDRESS:**
19918 Silverhope Rd., Hope, BC V0X 1L2

**PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):**
quartz diorite, Cretaceous, Spuzzum Pluton, Wardle Fault, vein, quartz, pyrite, arsenopyrite, 30 cm, moderate dip

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:** 11656, 15872

Next Page

| TYPE OF WORK IN THIS REPORT | EXTENT OF WORK (IN METRIC UNITS) | ON WHICH CLAIMS | PROJECT COSTS APPORTIONED (incl. support) |
|---|---|---|---|
| **GEOLOGICAL (scale, area)** | | | |
| **Ground, mapping** | 1 hectare | | $2575.33 |
| **Photo interpretation** | | | |
| **GEOPHYSICAL (line-kilometres)** | | | |
| **Ground** | | | |
| **Magnetic** | | | |
| **Electromagnetic** | | | |
| **Induced Polarization** | | | |
| **Radiometric** | | | |
| **Seismic** | | | |
| **Other** | | | |
| **Airborne** | | | |
| **GEOCHEMICAL (number of samples analysed for...)** | | | |
| **Soil** | | | |
| **Silt** | | | |
| **Rock** | | | |
| **Other** | | | |
| **DRILLING (total metres; number of holes, size)** | | | |
| **Core** | | | |
| **Non-core** | | | |
| **RELATED TECHNICAL** | | | |
| **Sampling/assaying** | 1 chip sample | | $300 |
| **Petrographic** | | | |
| **Mineralographic** | | | |
| **Metallurgic** | | | |
| **PROSPECTING (scale, area)** | | | |
| **PREPARATORY / PHYSICAL** | | | |
| **Line/grid (kilometres)** | | | |
| **Topographic/Photogrammetric (scale, area)** | | | |
| **Legal surveys (scale, area)** | | | |
| **Road, local access (kilometres)/trail** | | | |
| **Trench (metres)** | | | |
| **Underground dev. (metres)** | | | |
| **Other** | | | |
| | | **TOTAL COST:** | $2875.33 |

# Geological and Geochemical Assessment Report on the Aufeas Property

Hope, British Columbia
New Westminster Mining Division

Map Sheet 092H/6W

UTM 661000E, 5466700N (Zone 10)
N49° 19' 54.36"  W120° 47' 2.33 ”

Claim  522383

Prepared for:
Don Hunchuk

Prepared by:
Helgi Sigurgeirson, P.Geo.
December 27, 2015

## Table of Contents



## List of Figures



## Appendix I



## Appendix II

**Introduction**

Location, Access and Physiography

The property is about 5 km southwest of Hope, BC (Figure 1). The showings are reached by traveling south on the Silver Skagit Road to a rough (4WD) road at 610915E, 5467135N, then west for about half a kilometer to a bridge. From the bridge, there is a rough trail up the south side of Wardle Creek to the Aufeas adit.
The property ranges from about 100 m elevation in the Silverhope Valley to about 900 m at it's western edge. The area has steep, forested slopes. That part of Wardle Creek leading up to the adit is a canyon, with cliffs to the north and south. Snow can be expected from November through till April.

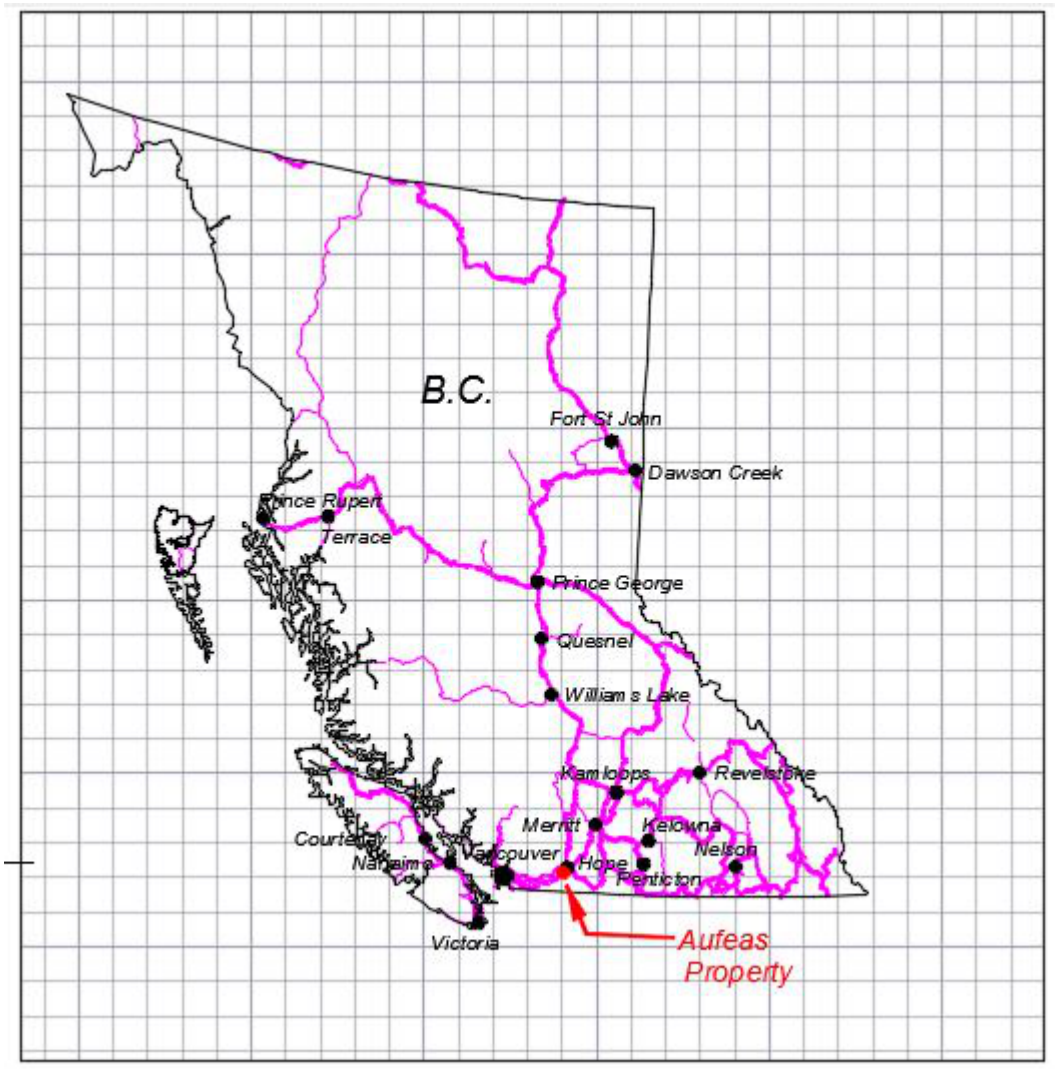


Figure 1: Location Map

Property Definition

The Aufeas Property consists of claim 522383 (Figure 2). The claim covers 147.33 hectares and is 100% owned by Donald Carl Hunchuk.
A Statement of Work (5579281) was filed for the work described in this report on November 18, 2015.

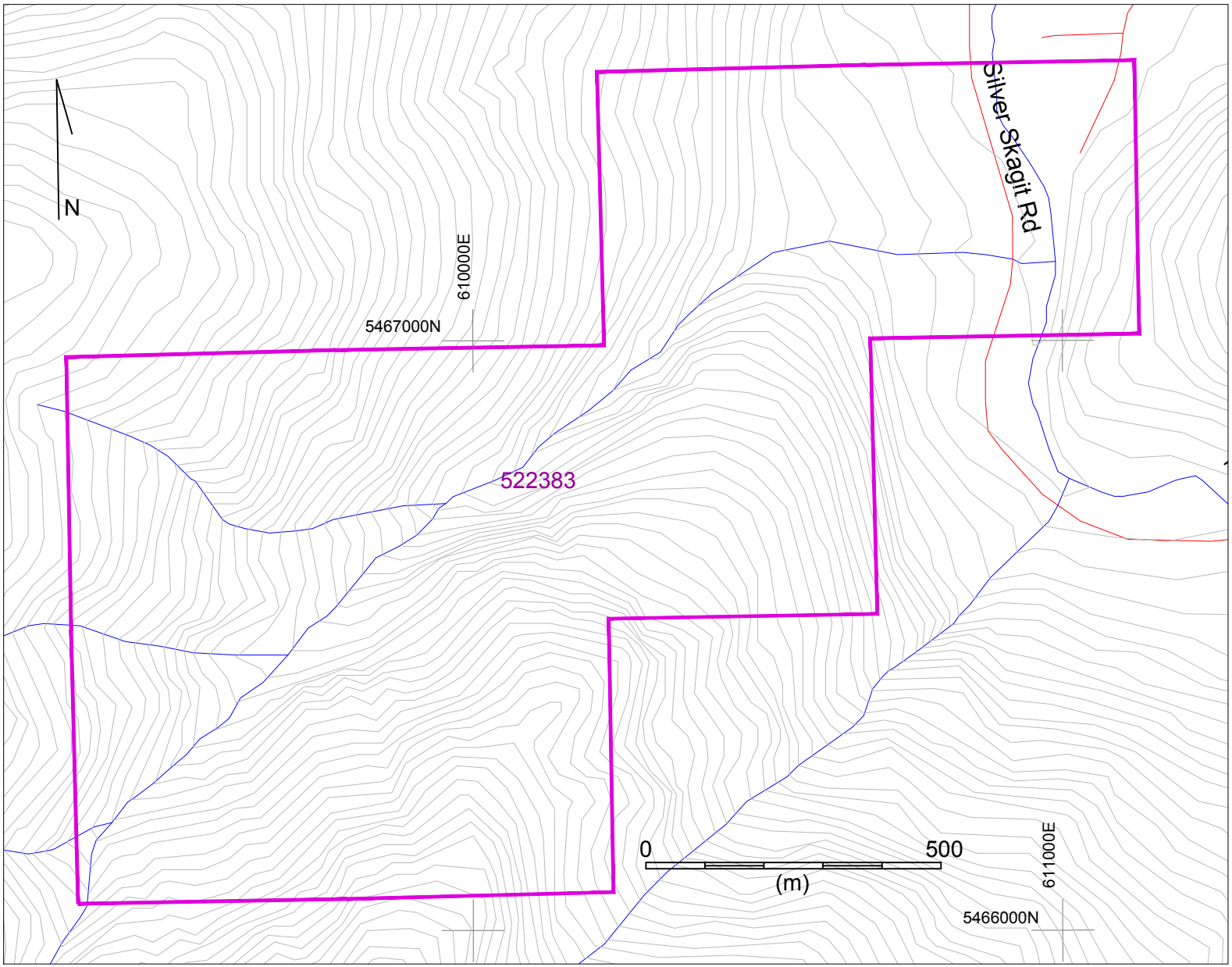



Figure 2: Claim Map (Modified from MapPlace, 2015)

Scale = 1:10 000

Previous Work

The Aufeas vein was discovered in 1910. By 1915 335 m of crosscutting and drifting were completed (Brewer, 1915). The vein was mined from 1937 to 1940 and 487 tonnes were produced. 28.1 g/t Au, 37.4 g/t Ag & 0.93% Cu were recovered. A report by Victor Dolmage in 1938 concluded the average grade of the vein was 17 g/T Au.
A report on the Hunter Claim Group (Shearer, 1983) included prospecting that was done on the southeast corner of the present property. Several rock samples were taken, including a float sample of "oxidized silicified rock" in the creek about 400 m SW along the Wardle Creek Fault that assayed 1.35 opt Au.
Silver Cloud Mines Ltd. acquired the property in 1983 and carried out road construction, repair and underground development in support of a mapping, sampling and drilling program which was carried out in 1985 and 1986 (Allen, 1986). The program completed 914 m of diamond drilling. Sampling included 15 underground channel samples, 90 soil samples, 8 rock samples and 5 silt samples.

Minfile 092HSW 036, which documents the Aufeas Mine, is the only Minfile on the property.

Work Program Summary

The purpose of the 2015 mapping and sampling program was to map and sample the surface trace of the Aufeas Vein, and to assess possible drill sites for further testing of the Aufeas vein. 16 hours of fieldwork were done on October 10 & 11, 2015. 1 rock sample was taken and about 1 hectare of geological mapping was done.

**Regional Geology**

The property is entirely underlain by rocks of the Cretaceous Spuzzum Pluton, which is mainly composed of quartz diorites in the area of the property (Richards & McTaggart, 1976). The Spuzzum Pluton is truncated to the east of the property by the Fraser Fault system. The Oligocene to Miocene granodiorites of the Silver Creek Stock, which lies about 500 m southeast of the property, crosscuts both the Spuzzum Pluton and Fraser River fault system.
.

**Property Geology**

The dominant rock type observed in the area of the workings was a medium grained, dark green-grey quartz diorite (Figure 3). It is commonly weakly foliated. A light grey quartz monzonite? was also observed at several locations. The dominant structure in the area is the Wardle Creek Fault, which Allen (1983) reports as striking 035° and dipping 55° to 70° to the southeast. The Aufeas Vein, and the other veins reported in the area, appear to be splays off this structure. Lineaments paralleling the Wardle Creek fault are common in the area, as are subordinate, east trending lineaments with a similar orientation to the Aufeas Vein.

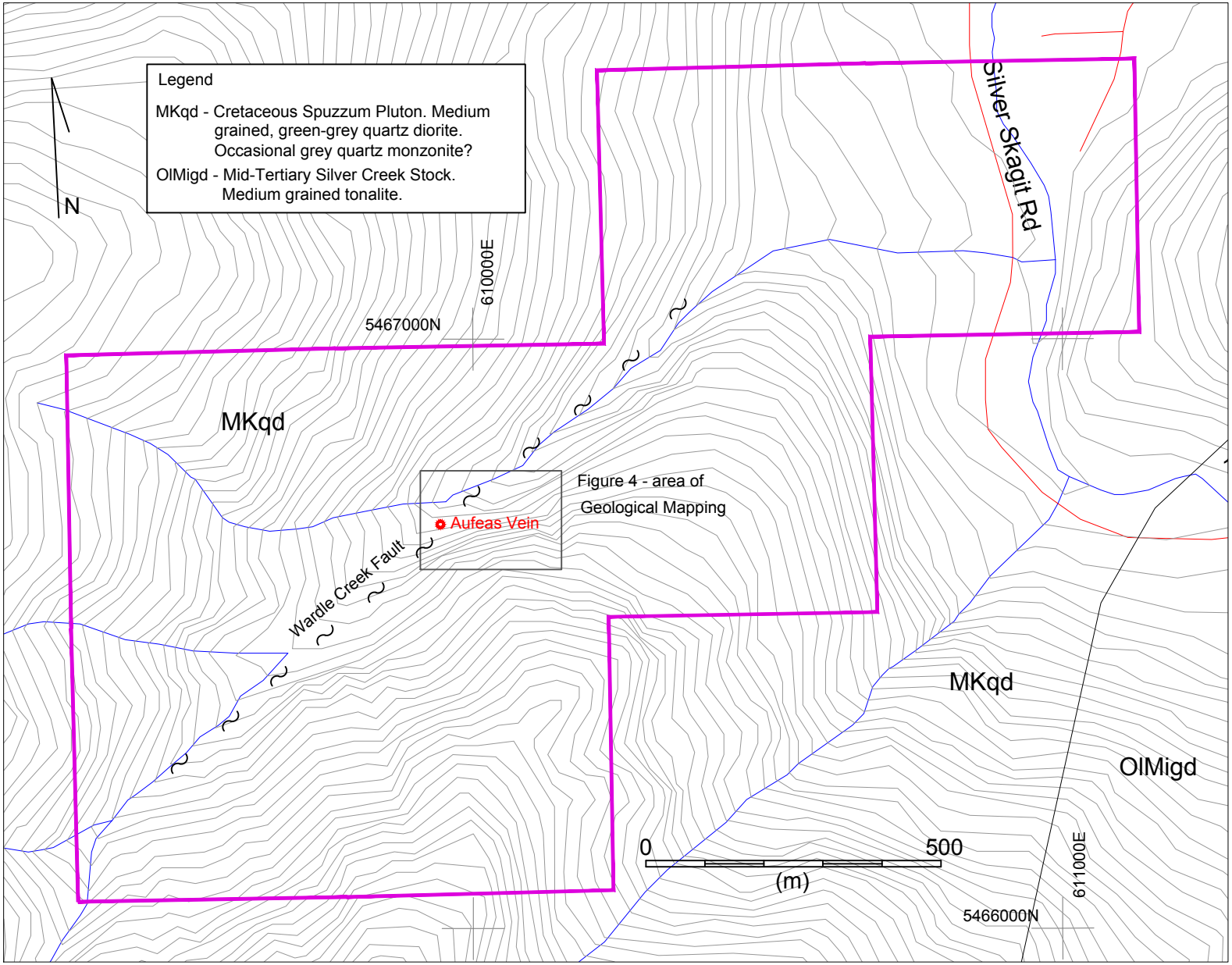



Figure 3: Property Geology / Index Map (Modified from MapPlace, 2015) Scale = 1:10 000

**Geological Mapping**

The purpose of the geological mapping was to locate and characterize the Aufeas Vein on surface. A small section of the vein was exposed by digging at an accessible section of the recessive lineament at approximately the location indicated by the historical mapping (Figure 4). The vein was exposed over about 1 m, and was 30 cm wide. The vein featured about 20 cm  of fractured, limonitic arsenopyrite, pyrite and quartz and about 10 cm of gouge (Figure 5). It was oriented approximately 055/55 SE, though an accurate determination could not be made due to the limited exposure. The contacts between the vein and the host rock was sharp. Both the footwall and hanging wall diorites were bleached to a light grey within 30 cm of the vein, and had limonitic fracture coatings.
Altered diorite similar to that adjacent to the Aufeas Vein was seen in outcrop adjacent to the 0.5 cm quartz veinlet shown on Figure 4 and in float at a couple locations further down the canyon.
There is considerable outcrop visible along the canyon walls and careful mapping should be able to constrain the areas where significant mineralized veins might be present. In the area mapped, the recessive lineament marking the Aufeas Vein was the only structure observed in the rock faces that could have contained the vein.

Figure 5: The Aufeas Vein.

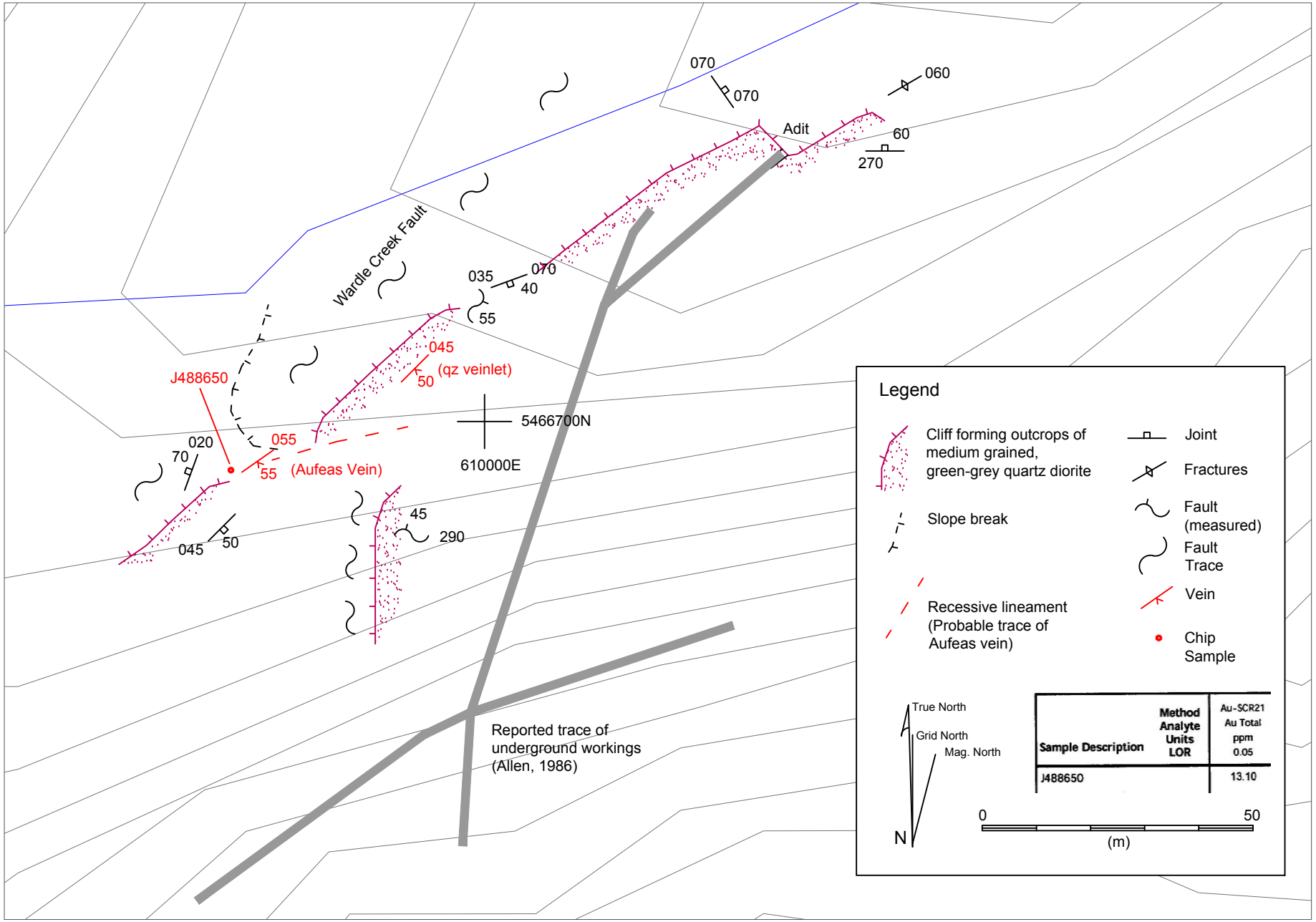



Figure 4: Geology and Sampling Map

Scale = 1:1000

## Geochemical Sampling

A 30 cm chip sample was taken across the Aufeas vein (J488650) at the location shown on Figure 4. A screen metallics procedure was used. Samples were crushed to 70% less than 2 mm, 250 g were riffle split off and pulverized to 85% passing 75 microns. A subsample was subjected to aqua regia digestion and analyzed for 34 elements by ICP-AES. The reject was then screened to 100 microns with the entire oversized fraction analyzed by fire assay with gravimetric finish and reported as the Au(+) fraction. The -100 fraction was then pulverized to 85% passing 75 microns, then 2 subsamples were taken and assayed by fire assay with AAS finish. The average of these results was reported as the Au(-) fraction. Appendix I contains the assay and QA/QC certificates.

The purpose of the rock sampling was to compare compare the grade and nature of the vein on surface with that in the underground sampling. A second purpose was to check whether coarse gold might be affecting the assays. The Au grade sample J488650 of 13.1 ppm over 30 cm is similar to the better values from the channel and drillcore samples reported in 1986. Ag (3 ppm) and Cu (41 ppm) values are low compared to previous sampling, perhaps due to weathering. The plus fraction from the screen metallics assay was considerably higher grade then the minus fraction and resulted in the overall Au grade increasing by 1 ppm relative to the minus fraction. One sample is not enough to determine whether the Au grades from previous sampling may have been under reported due to the presence of coarse Au, but the results suggest there may be a modest but significant effect.

## Conclusions and Recommendations

The Aufeas Vein appears to be similar in grade and character on surface to the vein as it was described and sampled in the underground workings approximately 80 m down dip. Only a small section of the surface trace was exposed. The vein is likely cut off by the Wardle Fault to the west. In the area examined, the vein is generally covered by a significant amount of overburden that has sloughed down from above. Further east it becomes inaccessible as it contours out along the steep canyon walls. The steepness of the canyon limits the options for further drilling of the Aufeas Vein. Horizontal holes from near the mouth of the adit could extend the vein to the east by about 100 m. To test the vein further along strike would require longer holes (c. 300 m) to be drilled from on top of the ridge.

Considerable work could be done to better define the known veins or attempt to locate others in the area. Some specific recommendations:

1. Map and sample the area of the Bluff Vein that was described in the 1983 report.
2. Map the canyon walls. Careful mapping should constrain possible vein locations.
3. Prospect the southeast corner of the claims to follow up on the 1.35 opt float sample found there. The less extreme slopes in this area would make soil sampling relatively easy compared to the canyon.
4. Map and sample the ridge to the southeast of the Aufeas Vein. Till was reported on the ridges and likely reduced the effectiveness of soil sampling in this area, though there were some noteworthy anomalies that should be followed up on.

**References**

Allen, D.G. (1986) Geological Report on the Aufeas Gold Prospect; *B.C. Ministry of Energy and Mines*, Assessment Report 15872.

Brewer, W. (1915) Aufeas Gold Mining Co.; *B.C. Ministry of Mines,* Annual Report, 1915. pages K255-256.

Dolmage, V. (1938) The Aufeas Gold Deposit; *B.C. Ministry of Energy Mines and Petroleum Resources,* Property File.

MapPlace (2015) BC Map UTM Zone 10 showing part of Map Sheet 092H/6W. BC Geological Survey <http://webmap.em.gov.bc.ca/mapplace/minpot/BC_UTM.cfm?zone=10> (December 26, 2015).

Richards, T.A. and McTaggart, K.C. (1976) Granitic rocks of the southern Coast Plutonic Complex and northern Cascades of British Columbia; *Geological Society of America*, Bulletin, Volume 87, pages 935-953.

Shearer, J.T. (1983) Diamond Drilling and Prospecting Report on the Hunter Group; *B.C. Ministry of Energy and Mines*, Assessment Report 11656.

**Statement of Qualifications**

I, Helgi Sigurgeirson, certify the following:

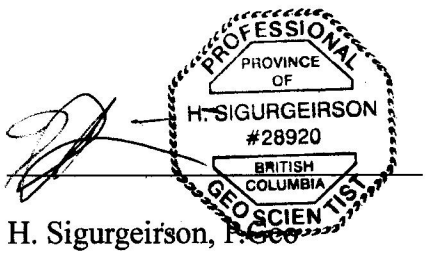
1. I graduated in 1995 from the University of British Columbia with a B.Sc. in the Geological Sciences.

2. I have worked in mining and mineral exploration continuously since graduation.

3. I have worked on VMS, porphyry, epithermal and mesothermal Au vein, anorthosite hosted Ti, and nephrite exploration programs in Canada, Mexico and China. I have developed and operated 3 dimension stone quarries on the BC coast.

4. I am a professional geoscientist in the Association of Professional Engineers and Geoscientists of British Columbia, and have been a member in good standing (member #28920) since 2004.

5. I carried out the work program described herein and wrote this report.




H. Sigurgeirson, P.Geo

December 28, 2015

Date

# Cost Statement

| Consultant | Days | Rate | Amount | Total |
|---|---|---|---|---|
| H. Sigurgeirson, P.Geo. | Fieldwork: October 10 & 11 | $450.00 | 2 | $900.00 |
| | Travel (1/2 rate): August 9 & 12 | $225.00 | 1 | $225.00 |
| | Report Preparation | $1,000.00 | | $1,000.00 |
| **Subtotal** | | | | **$2,125.00** |
| | | | | |
| **Mileage** | | | | |
| 2007 F-150 4x4 | 300 km @ $0.50/km | $0.50 | 300 | **$150.00** |
| | | | | |
| **Expenses** | | | | |
| Accommodations | | | | $267.81 |
| Fuel | | | | $69.00 |
| Food | | | | $125.37 |
| Ferry | | | | $63.15 |
| **Subtotal** | | | | **$525.33** |
| | | | | |
| **Assays** | 1 sample @ $75/sample | $75.00 | 1 | **$75.00** |
| | | | | |
| **Total =** | **$2,875.33** | | | |

# Appendix I

Certificates of Analysis
&
QC Certificates of Analysis

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

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**


**Finalized Date: 1-NOV-2015**
**This copy reported on 2-NOV-2015**
**Account: SAXGEO**

# CERTIFICATE VA15161970

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 22-OCT-2015.

The following have access to data associated with this certificate:

HELGI SUGURGEIRSON

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| 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-ICP41a | High Grade Aqua Regia ICP-AES | ICP-AES |

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**ATTN: HELGI SUGURGEIRSON**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**

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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www.alsglobal.com

To: SAXIFRAGE GEOLOGICAL SERVICES LTD.
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2


Finalized Date: 1-NOV-2015
Account: SAXGEO

# CERTIFICATE OF ANALYSIS VA15161970

| Sample Description | Method | WEI-21 | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg |
| | Units | kg | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | LOR | 0.02 | 1 | 0.05 | 10 | 50 | 5 | 10 | 0.05 | 5 | 5 | 5 | 5 | 0.05 | 50 | 5 |
| J488650 | | 1.22 | 3 | 0.67 | >100000 | 50 | <5 | <10 | 0.75 | <5 | 22 | 17 | 41 | 18.15 | <50 | <5 |

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

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

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**


**Finalized Date: 1-NOV-2015**
**Account: SAXGEO**

# CERTIFICATE OF ANALYSIS VA15161970

| Sample Description | Method | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | K | La | Mg | Mn | Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr | Th | Ti |
| | Units | % | ppm | % | ppm | ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % |
| | LOR | 0.05 | 50 | 0.05 | 30 | 5 | 0.05 | 5 | 50 | 10 | 0.05 | 10 | 5 | 5 | 100 | 0.05 |
| J488650 | | 0.18 | <50 | 0.20 | 290 | <5 | <0.05 | 14 | 150 | 80 | 9.23 | 220 | <5 | 32 | <100 | <0.05 |

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

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**


**Finalized Date: 1-NOV-2015**
**Account: SAXGEO**

# CERTIFICATE OF ANALYSIS VA15161970

| Sample Description | Method | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a |
|---|---|---|---|---|---|---|
| | Analyte | Tl | U | V | W | Zn |
| | Units | ppm | ppm | ppm | ppm | ppm |
| | LOR | 50 | 50 | 5 | 50 | 10 |
| J488650 | | <50 | <50 | 14 | <50 | 90 |

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

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To: SAXIFRAGE GEOLOGICAL SERVICES LTD.
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2


Finalized Date: 1-NOV-2015
Account: SAXGEO

# CERTIFICATE OF ANALYSIS VA15161970

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | LOG-21 | ME-ICP41a | PUL-31 |
| | PUL-QC | SPL-21 | WEI-21 | |

ALS Canada Ltd.
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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**


**Finalized Date: 3-NOV-2015**
**This copy reported on**
**4-NOV-2015**
**Account: SAXGEO**

# CERTIFICATE VA15163737

This report is for 1 Reject sample submitted to our lab in Vancouver, BC, Canada on 22-OCT-2015.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| HELGI SUGURGEIRSON | | |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| FND-03 | Find Reject for Addn Analysis |
| SCR-21 | Screen to -100 to 106 um |
| PUL-32 | Pulverize 1000g to 85% < 75 um |
| SPL-21 | Split sample - riffle splitter |
| BAG-01 | Bulk Master for Storage |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| Au-SCR21 | Au Screen Fire Assay - 100 to 106 um | WST-SIM |
| Au-AA25 | Ore Grade Au 30g FA AA finish | AAS |
| Au-AA25D | Ore Grade Au 30g FA AA Dup | AAS |

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**ATTN: HELGI SUGURGEIRSON**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**

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

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

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

ALS Canada Ltd.
2103 Dollarton Hwy
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www.alsglobal.com

To: SAXIFRAGE GEOLOGICAL SERVICES LTD.
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2


Finalized Date: 3-NOV-2015
Account: SAXGEO

# CERTIFICATE OF ANALYSIS VA15163737

| Sample Description | Method Analyte Units LOR | Au-SCR21 Au Total ppm 0.05 | Au-SCR21 Au (+) F ppm 0.05 | Au-SCR21 Au (-) F ppm 0.05 | Au-SCR21 Au (+) m mg 0.001 | Au-SCR21 WT. + Fr g 0.01 | Au-SCR21 WT. - Fr g 0.1 | Au-AA25 Au ppm 0.01 | Au-AA25D Au ppm 0.01 |
|---|---|---|---|---|---|---|---|---|---|
| J488650 | | 13.10 | 24.9 | 12.10 | 1.600 | 64.25 | 775.0 | 13.40 | 10.80 |

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

ALS Canada Ltd.
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47312 SCHOONER WAY
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Finalized Date: 3-NOV-2015
Account: SAXGEO

# CERTIFICATE OF ANALYSIS VA15163737

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | |
|---|---|---|---|
| Au-AA25 | Au-AA25D | Au-SCR21 | BAG-01 |
| FND-03 | PUL-32 | SCR-21 | SPL-21 |

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**


**Finalized Date: 1-NOV-2015**
**This copy reported on**
**2-NOV-2015**
**Account: SAXGEO**

# QC CERTIFICATE VA15161970

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 22-OCT-2015.

The following have access to data associated with this certificate:

HELGI SUGURGEIRSON

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| 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-ICP41a | High Grade Aqua Regia ICP-AES | ICP-AES |

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**ATTN: HELGI SUGURGEIRSON**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**

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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To: SAXIFRAGE GEOLOGICAL SERVICES LTD.
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2



# QC CERTIFICATE OF ANALYSIS VA15161970

| Sample Description | Method | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K |
| | Units | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % |
| | LOR | 1 | 0.05 | 10 | 50 | 5 | 10 | 0.05 | 5 | 5 | 5 | 5 | 0.05 | 50 | 5 | 0.05 |
| **STANDARDS** | | | | | | | | | | | | | | | | |
| OGGeo08 | | 20 | 2.31 | 130 | 370 | <5 | 20 | 0.99 | 19 | 98 | 86 | 8210 | 4.94 | <50 | <5 | 1.05 |
| Target Range - Lower Bound | | 18 | 2.13 | 100 | 270 | <5 | <10 | 0.88 | 8 | 85 | 72 | 7970 | 4.86 | <50 | <5 | 0.96 |
| Upper Bound | | 23 | 2.56 | 140 | 480 | 11 | 30 | 1.12 | 29 | 109 | 96 | 8810 | 5.70 | 110 | 11 | 1.22 |
| OREAS-134b | | >200 | 0.39 | 210 | 630 | <5 | <10 | 4.15 | 569 | 104 | 12 | 1320 | 11.60 | <50 | <5 | 0.13 |
| Target Range - Lower Bound | | 189 | 0.27 | 200 | 390 | <5 | <10 | 3.89 | 516 | 94 | <5 | 1290 | 11.35 | <50 | <5 | <0.05 |
| Upper Bound | | >200 | 0.49 | 250 | 810 | 13 | 30 | 4.59 | 606 | 118 | 24 | 1435 | 13.15 | 130 | 13 | 0.24 |
| **BLANKS** | | | | | | | | | | | | | | | | |
| BLANK | | <1 | <0.05 | <10 | <50 | <5 | <10 | <0.05 | <5 | <5 | <5 | <5 | <0.05 | <50 | <5 | <0.05 |
| Target Range - Lower Bound | | <1 | <0.05 | <10 | <50 | <5 | <10 | <0.05 | <5 | <5 | <5 | <5 | <0.05 | <50 | <5 | <0.05 |
| Upper Bound | | 2 | 0.10 | 20 | 100 | 10 | 20 | 0.10 | 10 | 10 | 10 | 10 | 0.10 | 100 | 10 | 0.10 |
| **DUPLICATES** | | | | | | | | | | | | | | | | |
| J488650 | | 3 | 0.67 | >100000 | 50 | <5 | <10 | 0.75 | <5 | 22 | 17 | 41 | 18.15 | <50 | <5 | 0.18 |
| DUP | | 3 | 0.68 | >100000 | 50 | <5 | 10 | 0.74 | <5 | 23 | 17 | 41 | 17.85 | <50 | <5 | 0.18 |
| Target Range - Lower Bound | | 2 | 0.60 | 96500 | <50 | <5 | <10 | 0.67 | <5 | 17 | 11 | 35 | 17.30 | <50 | <5 | 0.12 |
| Upper Bound | | 4 | 0.75 | >100000 | 100 | 10 | 20 | 0.82 | 10 | 28 | 23 | 47 | 18.70 | 100 | 10 | 0.24 |

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PENDER ISLAND BC V0N 2M2


Finalized Date: 1-NOV-2015
Account: SAXGEO

# QC CERTIFICATE OF ANALYSIS VA15161970

| Sample Description | Method | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a | ME-ICP41a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | La | Mg | Mn | Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr | Th | Ti | Tl |
| | Units | ppm | % | ppm | ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm |
| | LOR | 50 | 0.05 | 30 | 5 | 0.05 | 5 | 50 | 10 | 0.05 | 10 | 5 | 5 | 100 | 0.05 | 50 |
| **STANDARDS** | | | | | | | | | | | | | | | | |
| OGGeo08 | | <50 | 0.94 | 420 | 916 | 0.33 | 8570 | 790 | 7140 | 2.72 | 20 | 6 | 67 | <100 | 0.34 | <50 |
| Target Range - Lower Bound | | <50 | 0.83 | 350 | 864 | 0.21 | 8250 | 680 | 6720 | 2.55 | <10 | <5 | 55 | <100 | 0.24 | <50 |
| Target Range - Upper Bound | | 130 | 1.07 | 480 | 1005 | 0.42 | 9520 | 910 | 7760 | 3.05 | 40 | 17 | 78 | 200 | 0.46 | 100 |
| OREAS-134b | | <50 | 1.83 | 3470 | 10 | <0.05 | 35 | 250 | >50000 | >10.0 | 90 | <5 | 18 | <100 | <0.05 | 70 |
| Target Range - Lower Bound | | <50 | 1.69 | 3280 | <5 | <0.05 | <5 | 170 | 124000 | 17.90 | 80 | <5 | 13 | <100 | <0.05 | <50 |
| Target Range - Upper Bound | | 130 | 2.06 | 3840 | 13 | 0.17 | 25 | 390 | >50000 | 10.00 | 130 | 13 | 34 | 300 | 0.13 | 160 |
| **BLANKS** | | | | | | | | | | | | | | | | |
| BLANK | | <50 | <0.05 | <30 | <5 | <0.05 | <5 | <50 | <10 | <0.05 | 20 | <5 | <5 | <100 | <0.05 | <50 |
| Target Range - Lower Bound | | <50 | <0.05 | <30 | <5 | <0.05 | <5 | <50 | <10 | <0.05 | <10 | <5 | <5 | <100 | <0.05 | <50 |
| Target Range - Upper Bound | | 100 | 0.10 | 60 | 10 | 0.10 | 10 | 100 | 20 | 0.10 | 20 | 10 | 10 | 200 | 0.10 | 100 |
| **DUPLICATES** | | | | | | | | | | | | | | | | |
| J488650 | | <50 | 0.20 | 290 | <5 | <0.05 | 14 | 150 | 80 | 9.23 | 220 | <5 | 32 | <100 | <0.05 | <50 |
| DUP | | <50 | 0.20 | 290 | <5 | <0.05 | 12 | 130 | 40 | 9.07 | 220 | <5 | 33 | <100 | <0.05 | <50 |
| Target Range - Lower Bound | | <50 | 0.14 | 250 | <5 | <0.05 | 8 | 90 | 50 | 8.78 | 200 | <5 | 26 | <100 | <0.05 | <50 |
| Target Range - Upper Bound | | 100 | 0.26 | 330 | 10 | 0.10 | 18 | 190 | 70 | 9.52 | 240 | 10 | 39 | 200 | 0.10 | 100 |

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# QC CERTIFICATE OF ANALYSIS VA15161970

| Sample Description | Method / Analyte / Units / LOR | ME-ICP41a U ppm 50 | ME-ICP41a V ppm 5 | ME-ICP41a W ppm 50 | ME-ICP41a Zn ppm 10 |
|---|---|---|---|---|---|
| **STANDARDS** | | | | | |
| OGGeo08 | | <50 | 81 | <50 | 7090 |
| Target Range - Lower Bound | | <50 | 72 | <50 | 6700 |
| Target Range - Upper Bound | | 110 | 96 | 100 | 7740 |
| OREAS-134b | | <50 | <5 | <50 | >50000 |
| Target Range - Lower Bound | | <50 | <5 | <50 | 164500 |
| Target Range - Upper Bound | | 130 | 10 | 130 | >50000 |
| **BLANKS** | | | | | |
| BLANK | | <50 | <5 | <50 | <10 |
| Target Range - Lower Bound | | <50 | <5 | <50 | <10 |
| Target Range - Upper Bound | | 100 | 10 | 100 | 20 |
| **DUPLICATES** | | | | | |
| J488650 | | <50 | 14 | <50 | 90 |
| DUP | | <50 | 14 | <50 | 40 |
| Target Range - Lower Bound | | <50 | 9 | <50 | 50 |
| Target Range - Upper Bound | | 100 | 19 | 100 | 80 |

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**PENDER ISLAND BC V0N 2M2**

**Page: Appendix 1**
**Total # Appendix Pages: 1**
**Finalized Date: 1-NOV-2015**
**Account: SAXGEO**

# QC CERTIFICATE OF ANALYSIS VA15161970

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | | |
|---|---|---|---|---|
| | CRU-31 | LOG-21 | ME-ICP41a | PUL-31 |
| | PUL-QC | SPL-21 | WEI-21 | |

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**PENDER ISLAND BC V0N 2M2**


**Finalized Date: 3-NOV-2015**
**This copy reported on**
**4-NOV-2015**
**Account: SAXGEO**

# QC CERTIFICATE VA15163737

This report is for 1 Reject sample submitted to our lab in Vancouver, BC, Canada on 22-OCT-2015.

The following have access to data associated with this certificate:

HELGI SUGURGEIRSON

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| FND-03 | Find Reject for Addn Analysis |
| SCR-21 | Screen to -100 to 106 um |
| PUL-32 | Pulverize 1000g to 85% < 75 um |
| SPL-21 | Split sample - riffle splitter |
| BAG-01 | Bulk Master for Storage |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| Au-SCR21 | Au Screen Fire Assay - 100 to 106 um | WST-SIM |
| Au-AA25 | Ore Grade Au 30g FA AA finish | AAS |
| Au-AA25D | Ore Grade Au 30g FA AA Dup | AAS |

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
**ATTN: HELGI SUGURGEIRSON**
**47312 SCHOONER WAY**
**PENDER ISLAND BC V0N 2M2**

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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Finalized Date: 3-NOV-2015
Account: SAXGEO

# QC CERTIFICATE OF ANALYSIS VA15163737

| Sample Description | Method Analyte Units LOR | Au-AA25 Au ppm 0.01 | Au-AA25D Au ppm 0.01 |
|---|---|---|---|
| **STANDARDS** | | | |
| BP-13 | | 0.36 | 0.36 |
| Target Range - Lower Bound | | 0.33 | 0.33 |
| Upper Bound | | 0.39 | 0.39 |
| OxJ111 | | 2.18 | 2.18 |
| Target Range - Lower Bound | | 2.03 | 2.03 |
| Upper Bound | | 2.31 | 2.31 |
| **BLANKS** | | | |
| BLANK | | <0.01 | <0.01 |
| Target Range - Lower Bound | | <0.01 | <0.01 |
| Upper Bound | | 0.02 | 0.02 |
| **DUPLICATES** | | | |
| ORIGINAL | | 0.05 | |
| DUP | | 0.06 | 0.06 |
| Target Range - Lower Bound | | 0.04 | 0.05 |
| Upper Bound | | 0.07 | 0.07 |
| J488650 | | 13.40 | 10.80 |
| DUP | | 13.05 | 13.05 |
| Target Range - Lower Bound | | 12.55 | 11.30 |
| Upper Bound | | 13.90 | 12.55 |
| ORIGINAL | | 0.09 | |
| DUP | | 0.12 | 0.12 |
| Target Range - Lower Bound | | 0.09 | 0.10 |
| Upper Bound | | 0.12 | 0.14 |

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**Finalized Date: 3-NOV-2015**
**Account: SAXGEO**

# QC CERTIFICATE OF ANALYSIS VA15163737

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| Applies to Method: | | | |
|---|---|---|---|
| Au-AA25 | Au-AA25D | Au-SCR21 | BAG-01 |
| FND-03 | PUL-32 | SCR-21 | SPL-21 |