

**Memorandum Report of 2017 Drilling and Trenching**

**On the**

**Sulphur Property (Lions Zone)**

<b>US 1 to 23</b>	<b>YD06601 to YD06623</b>
<b>US 27</b>	<b>YD06627</b>
<b>US 86 to 90</b>	<b>YD17724 to YD17728</b>

**Dawson Mining District, Yukon  
NTS Sheet 115O14 & 115O10  
63°42'N. Lat., 138°47'W. Long.**

**Operated by and Recorded to**



**By  
Mark Fekete, P. Geo.  
and  
Marty Huber, P. Geo.  
December 11, 2017**

**YMEP No. 17-042**

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## Certificate of Qualifications

I, Mark Fekete, having my place of residence at 178 Dennison Boulevard in Val d'Or in the Province of Quebec do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from the University of British Columbia in 1986, I have been engaged as a Geologist continuously since 1986 and I am a Member in good standing of the Order of Geologists of Quebec (OGQ #553) and the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC #31440), and I am a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Sulphur property on numerous occasions including most recently in July 2017;
3. I co-wrote and I am, as the senior author and qualified person, responsible for the contents of this technical report entitled "Memorandum Report of 2017 Drilling and Trenching on the Sulphur Property, Dawson Mining District, Yukon, NTS Sheets 115O14 & 115O10.," based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I am an Officer and Director, and I beneficially hold a number of shares in Taku Gold Corp.;
6. I hold no direct interest in the Sulphur property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared for the purposes, nor in full compliance with, National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 11<sup>th</sup> day of December 2017,

(s) "**Mark Fekete**"

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Mark Fekete, P.Geol.

## **Certificate of Qualifications**

I, Marty Huber, having my place of residence at 16 Flax Mill Dr. Conestoga in the Province of Ontario, do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from Acadia University in May 2011, I have been engaged as a Geologist continuously since 2011 and I am a Member in good standing with the Association of Professional Geoscientists of Nova Scotia (APGNS #232) and I am a “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Sulphur property most recently in October, 2017;
3. I co-wrote this technical report entitled “Memorandum Report of 2017 Drilling and Trenching on the Sulphur Property, Dawson Mining District, Yukon, NTS Sheets 115O14 & 115O10,” based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I beneficially hold a number of shares in Taku Gold Corp.
6. I hold no direct interest in the Sulphur Project as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared for the purposes, nor in full compliance with, National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 11th day of December 2017,

(s) “*Marty Huber*”

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Marty Huber, P. Geo.

## Introduction and Terms of Reference

Breakaway Exploration Management Inc. (“Breakaway”) was engaged by Taku Gold. Corp. (“Taku”) to manage and report on a trenching and reverse circulation drilling program completed on the Sulphur property (“Sulphur” or the “Property”) in 2017. To date, several strong gold and arsenic-in-soil anomalies have been discovered over the Lions zone, which have had minimal trenching and drilling follow up work. During a prospecting campaign in 2015, it was noted that there was more downslope displacement in the soils than had been previously interpreted. A Very Low Frequency Electromagnetic (“VLF-EM”) survey completed the same year identified several prospective VLF-EM anomalies up slope from the gold-arsenic soil anomalies. The goal of the work was to determine if one such VLF-EM anomaly marked a gold-bearing bedrock structure that was causing the downslope geochemical anomaly. The work was done under Class 1 guidelines. The work was partially funded by the Yukon Mineral Exploration Program (YMEP No. 17-042), for which Taku is extremely grateful.

## Location, Property Information and Access

The Sulphur property is located approximately 45 kilometres southeast of Dawson City in the Klondike gold camp of Yukon (Figure 1). Sulphur Creek is the most obvious topographical feature in the area. The approximate center of the Property is described by 138°49’ West Longitude and 63°42’ North Latitude on N.T.S. Sheets 115010 & 115014. The Property covers an approximate area of 11,344 hectares within the Dawson Mining Division, and includes 543 contiguous, un-surveyed mineral titles (Figure 2) listed in the following table.

Table 1 - List of Claims

Claim Name	Tag No.	Expiry Date	#
SU 1 to 452	YD28201 to YD28652	14-Mar-19	452
US 1 to 84	YD06601 to YD06684	14-Mar-20	84
US 85 to 91	YD17723 to YD17729	14-Mar-20	7

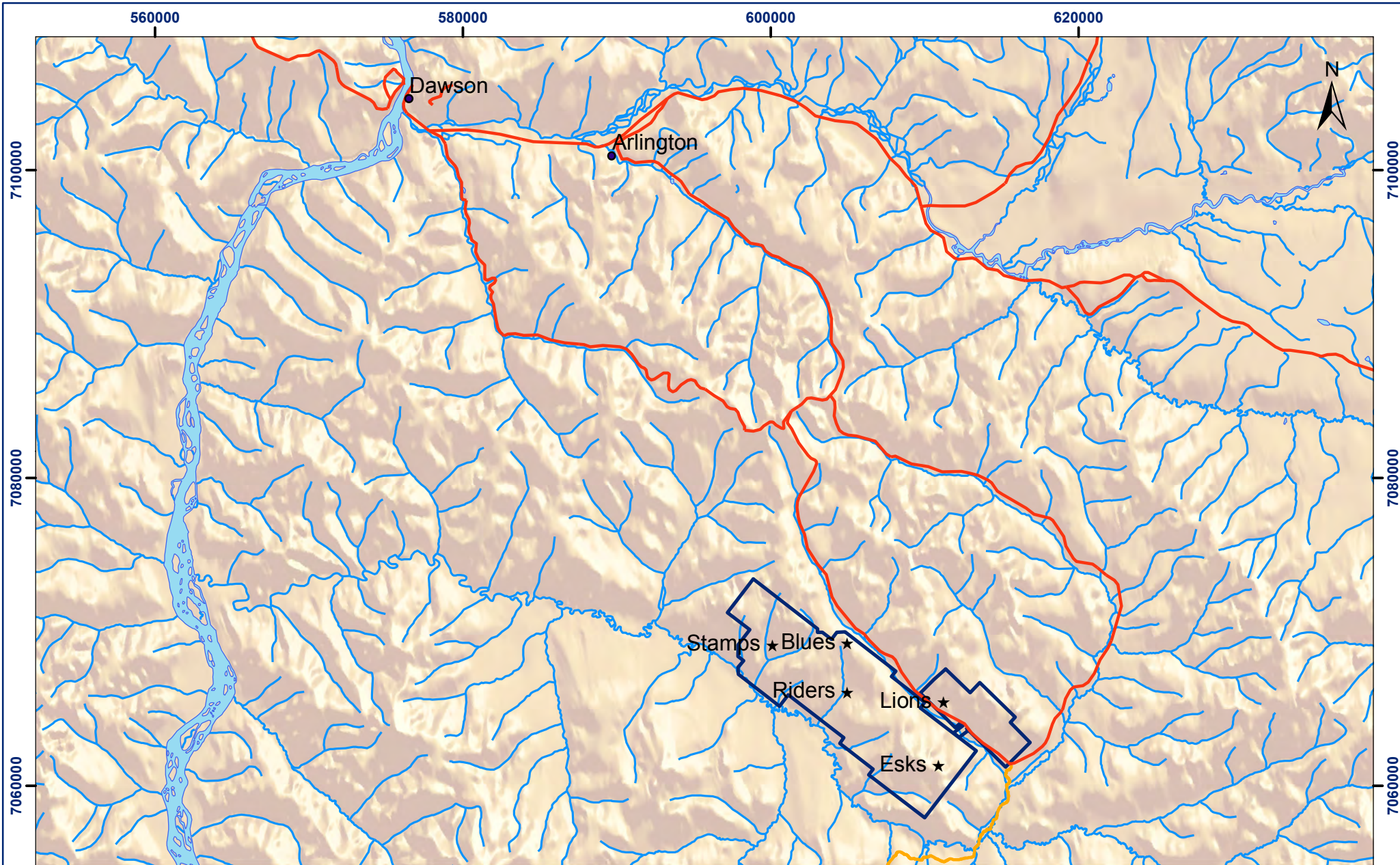
Taku Gold Corp. holds a 100% interest in the claims subject only to a 2% Net Smelter Return royalty on all smeltable minerals or metals extracted from the claims payable to a local prospecting syndicate. Taku has the right to purchase one-half (or 1%) of the royalty for \$1,000,000 cash.

The Sulphur Creek road provides relatively good summer access to the Property from Dawson City. There are a number of old cat trails that lead into the claims and provide limited access to heavy equipment. A helicopter however is required to reach most parts of the Property. The Property can be worked from Dawson City by truck or from an exploration camp set up on or near the Property. A camp can be supported from Dawson City, where services are limited, or from Whitehorse where a full range of services are available including line-cutting, geophysics, drilling, assaying, aircraft charters etc.

## Previous Work

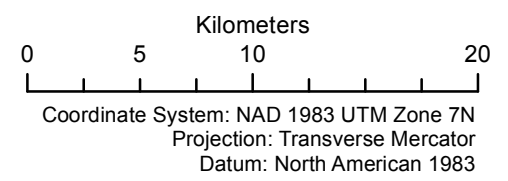
There is an extensive history of placer mining on Sulphur Creek and there are at least four seasonal placer mines currently in operation. A review of the Yukon Geological Survey MINFILE database however shows that previous hard rock (or quartz) exploration work on the Property was very limited (Southam, 1995a and 1995b; Ouellette and Couttes 1987a and 1987b).

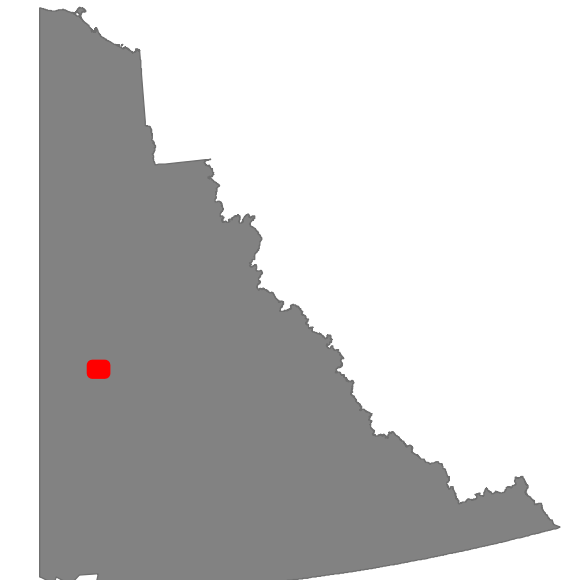
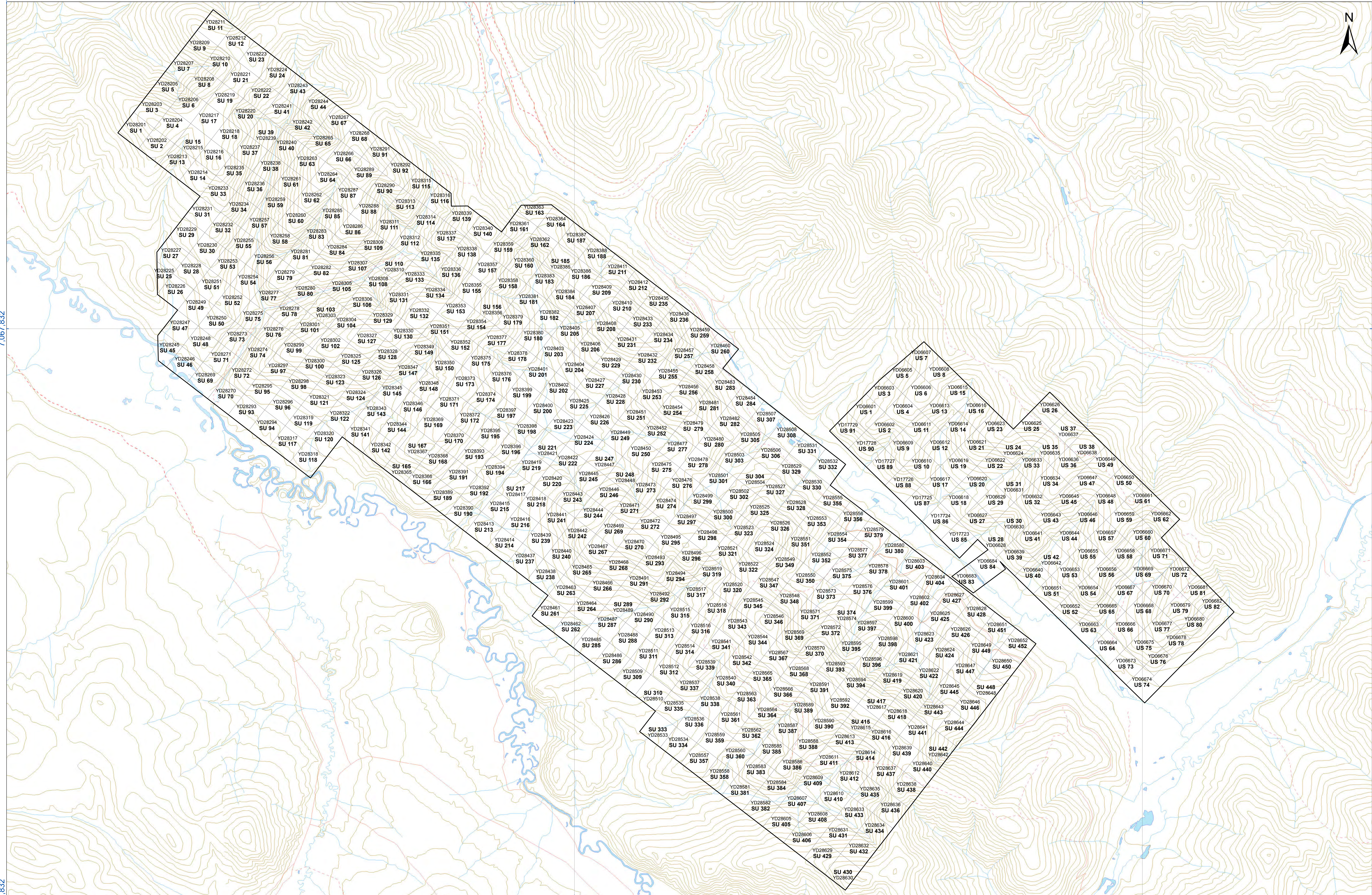
After staking Sulphur in 2010, Taku completed a multi-sensor airborne geophysical survey over the entire Property. A total of 1,292 line kilometers of data were collected at 100m line spacing by Precision Geosurveys Inc. of Vancouver, British Columbia (Poon, 2010). In 2011, Taku collected a total of 6,408 soil samples with hand augers on predetermined GPS traverse lines and detailed grids (Fekete and Dubois, 2011). Five gold zones were defined from the grid sample results and trenching was done at three of the five zones. In 2012 a total of 1,033 metres of NQ diameter drilling was done in seven holes. Six holes were drilled in the Lions area and one in the Blues area (Fekete and Huber, 2012). Anomalous gold intersections are listed in Table 2 below:



**TAKU GOLD  
CORP.**

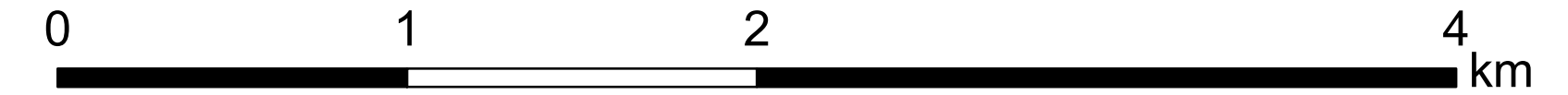
**Sulphur Property  
Figure 1 - Location**





**SULPHUR PROPERTY**  
**Figure 2. CLAIM MAP**

Universal Transverse Mercator Zone 7  
 World Geodetic System 1984  
 Scale 1:20 000



Sulphur Property  
 Figure 2. Claim Map  
 Taku Gold Corp.  
 NTS Sheet: 1150/10, 11, 14 & 15  
 Date: November 5, 2011

**Table 2 - 2012 Significant Drill Intersections**

Hole	Zone	From (m)	Length (m)	Wt.Avg. (gpt Au)
SU12-01	Lions	50.0	2.0	0.31
SU12-02	Lions	58.0	5.0	0.12
SU12-04	Lions	75.0	2.0	0.14
SU12-06	Lions	56.0	2.0	0.14
SU12-07	Blues Z1	39.0	3.0	0.32
	Blues Z2	50.0	6.0	0.19
	Blues Z3	72.0	1.0	0.72

In 2013 Taku completed High definition DC (“HRDC”) induced polarization (“IP”) and resistivity (“Res”) surveys at the Blues zone followed by Geoprobe® geochemical sampling. Both of these methods were developed and are offered by Ground Truth Exploration Inc. of Dawson City as a technique to upgrade soil geochemical anomalies to a high confidence drill targets. This approach was used successfully at the Blues zone in 2013 to identify three discreet target structures marked by resistivity contrasts and strongly anomalous Geoprobe® results (Fekete and Huber, 2014). However, the IP-Res survey in particular was found to be cost prohibitive at approximately \$12,000 per line kilometre. Since 2013 Taku has been looking for an alternative geophysical method to replace the HRDC IP-Res survey.

In 2015 Taku completed a VLF-EM survey totaling 43.7 line kilometers over the Lions zone. Joel Dubé of Dynamic Discovery Geosciences Ltd. interpreted 15 VLF-EM anomalies based on the strength of the VLF-EM conductor, its continuity over several lines, its association to a magnetic lineament or its location close to a structural feature possibly favourable to mineralisation (Fekete and Huber, 2015). Each anomaly was assigned a priority number from 1 to 3 with 1 being the best. The Authors then examined the spatial association of each VLF-EM conductor with elevated gold and arsenic soil geochemical responses. The best conductors with respect to elevated gold and arsenic in soil are indicated in bold face in Table 3 below.

**Table 3 - Interpreted VLF anomalies with respect to elevated Au-As in soil**

ID	Length (m)	Priority	Comments	Au-As Assoc.
VLF-01	100	3	Moderate end of line anomaly (not well defined - marginal). Possible cultural anomaly related to road. Open at both to north and south.	Weak
VLF-02	500	N/A	Cultural anomaly caused by power line.	N/A
VLF-03	100	3	Weak to moderate VLF-EM conductor. Associated to a weak magnetic high.	Weak
VLF-04	600	2	Weak to moderate VLF-EM conductor. No clear magnetic expression. Associated to topographic ridge. Possible continuity of the VLF-5 conductor. Open to south.	Moderate: possible SE extension of VLF-05
VLF-05	1,300	1	Weak to strong VLF-EM conductor. Locally associated to strong magnetic high. Associated to topographic ridge. Possible continuity of the VLF-4 conductor.	Strong: south end downslope 200m east; north end downslope 75m west
VLF-06	500	2	Weak to moderate VLF-EM conductor. No clear magnetic expression. Open to south.	Moderate: not covered but possible south extent of VLF-08
VLF-07	700	3	Weak to moderate VLF-EM conductor. No clear magnetic expression.	Not covered
VLF-08	600	2	Weak to moderate VLF-EM conductor. Locally associated to strong magnetic high.	Moderate: anomalies along entire length
VLF-09	300	2	Moderate VLF-EM conductor. No clear magnetic expression. Possibly associated to the VLF-5 conductor.	Moderate: centered on anomaly (due to VLF-05?)
VLF-10	200	2	Weak to moderate VLF-EM conductor. No clear magnetic expression. Located near potassium anomaly.	Weak
VLF-11	1,200	2	Weak to moderate VLF-EM conductor. No clear magnetic expression. Passes across potassium anomaly.	Moderate: spot anomaly at north end (due to VLF-05?)
VLF-12	200	2	Weak to moderate VLF-EM conductor. No clear magnetic expression.	Weak



VLF-13	700	2	Weak to moderate VLF-EM conductor. Locally associated to magnetic high.	Moderate: anomalies along entire length
VLF-14	300	2	Weak to moderate VLF-EM conductor. No magnetic expression.	Moderate: spot anomaly at north end
VLF-15	N/A	3	Moderate VLF-EM conductor. No magnetic expression. Open to north.	Weak

## Geological Context and Deposit Model

The Property lies within the Yukon-Tanana Terrane (Figure 3), where large areas have little to no bedrock exposure so consequently mapping of the area remains poorly understood. Generally it consists of several successions of layered sedimentary and volcanic rocks ranging from Late Proterozoic to Late Permian age that overlay the older Nisling Terrane. These complexly deformed layered rocks have been episodically intruded by various intrusive rocks in the Permian, Jurassic, Cretaceous and Tertiary periods. The intrusive events have been accompanied by volcanic activity especially in the Upper Jurassic to Lower Cretaceous. The Yukon-Tanana has been subjected to numerous prolonged deformational events including subduction and accretion that has led to significant structural thickening. Imbricated allochthonous terranes such as Slide Mountain Terrane are evidenced by altered ultramafic fragments.

The Property lies within the Klondike-White Gold district of the Stewart River area (Figure 4). The district has been interpreted to be underlain by the Klondike assemblage which is comprised of strongly deformed and altered mafic to felsic metavolcanic rocks and as well as deformed subvolcanic and plutonic equivalents, together with interlayered non-carbonaceous metasediments. This assemblage has been emplaced as a stack of three distinct thrust plates over rocks of the Late Devonian Early Mississippian Nasina assemblage (Mortensen, 1996).

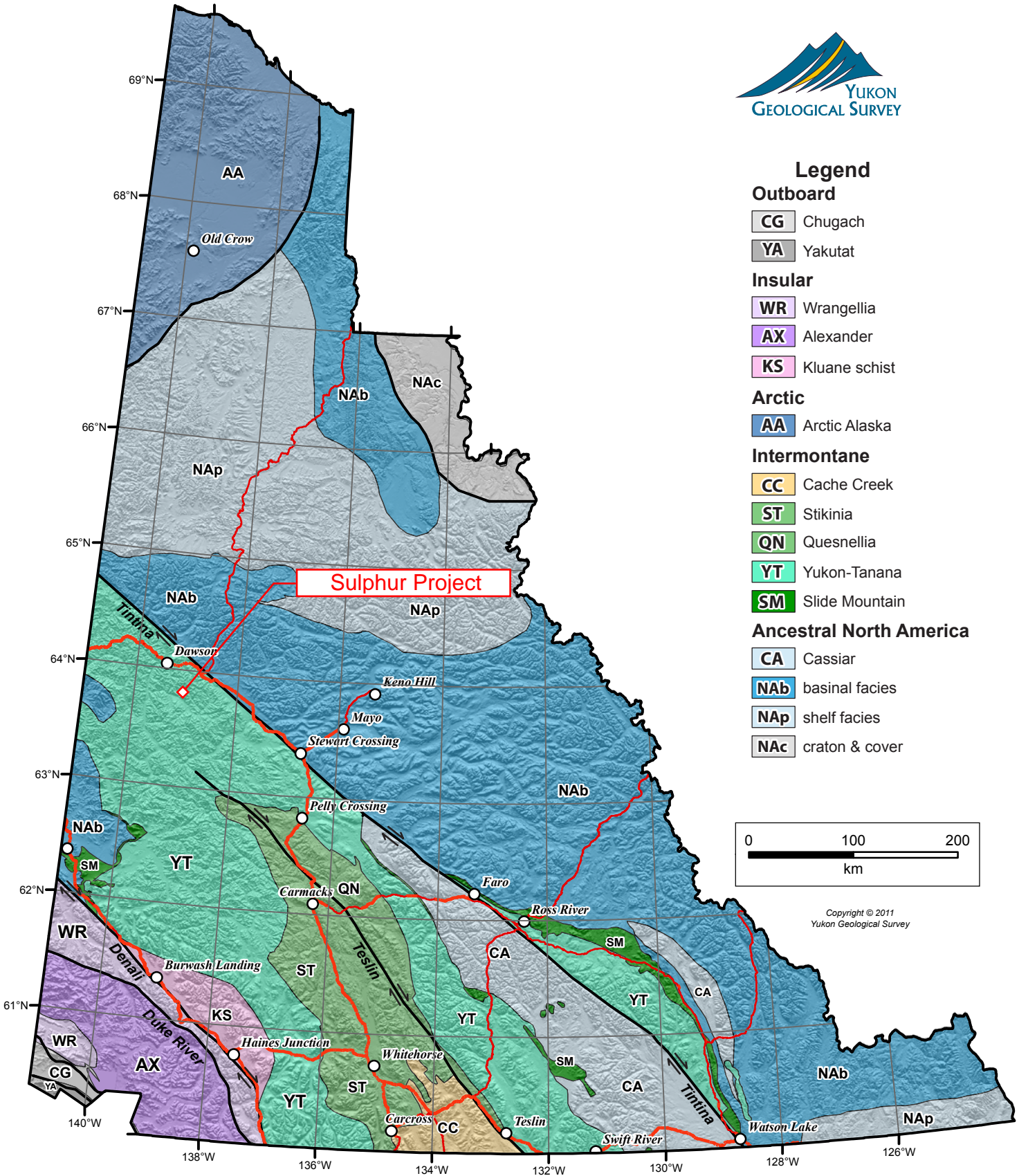
According to the most recent mapping and compilation of the Stewart River area by Ryan and Gordy (2005), the majority of the Property is underlain by the Permian Klondike Schist (Pks) unit (Figure 5). This rock assemblage consists of muscovite-chlorite-quartz-feldspar schists and chlorite schists, phyllites and phyllonites. The northeastern parts of the Sulphur West block and most of the Sulphur East block are underlain by the Sulphur Creek Orthogneiss (Pogq) which consists of Permian orthogneiss derived from quartz monzonite.

The property lies within underexplored Klondike-White Gold district of the loosely defined Tintina Gold Belt. This metallurgical province has past production of 29.9 million ounces and 39.3 million ounces, for total gold resources of 69.2 million ounces. Notable gold deposits are Donlin Creek, Ft. Knox, Pogo and Brewery Creek. The Klondike-White Gold district lies within the larger Dawson Range area where a number of known gold and porphyry copper deposits show a wide range of styles, geological settings and geochemical associations. Taku's exploration effort at Sulphur is not adhering to any firm deposit model but is instead based on practical survey methods that generate drill targets and have led to discoveries by other groups working in the area.

## 2017 Work

The 2017 trenching and drilling program was completed from August 10 to October 17. The first phase of work included cutting approximately 2 kilometres of temporary trail in order to move equipment onto site and between stations. This work was completed over 24 man days by Breakaway personnel with truck set-outs from Dawson. For the purposes of assessment report this preparatory work was charged to trenching. The second phase of work included trenching and reverse circulation drilling. Work was completed by Breakaway with truck set-outs from a temporary camp located 4 kilometres south of the work area on the Sulphur Creek Road. Analytical work was done from October 17 to November 29 by Bureau Veritas Commodities Canada Ltd. ("BV").

The work was planned under the supervision of Professional Geologist Mark Fekete (the "Senior Author") and managed on a day-to-day basis by Professional Geologist Marty Huber (the "Junior Author") The Junior Author compiled the field data into digital maps and wrote this Report up to December 11, 2017. A detailed "Statement of Work" form is included herein as Appendix A.

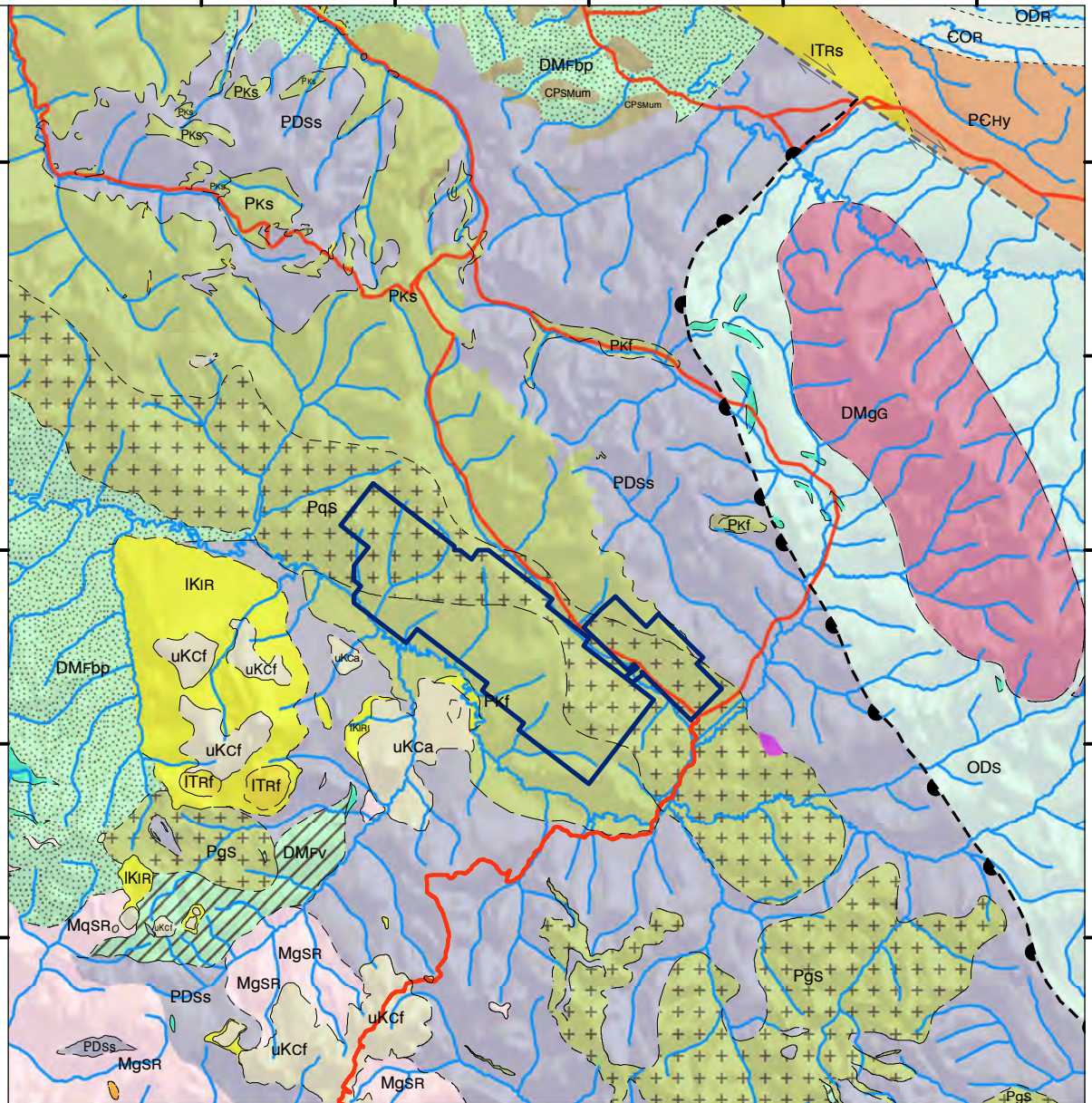


- Legend**
- Outboard**
- CG Chugach
  - YA Yakutat
- Insular**
- WR Wrangellia
  - AX Alexander
  - KS Kluane schist
- Arctic**
- AA Arctic Alaska
- Intermontane**
- CC Cache Creek
  - ST Stikinia
  - QN Quesnellia
  - YT Yukon-Tanana
  - SM Slide Mountain
- Ancestral North America**
- CA Cassiar
  - NAb basinal facies
  - NAP shelf facies
  - NAC craton & cover

Figure 3 - Yukon Tectonic Map

590000 600000 610000 620000 630000

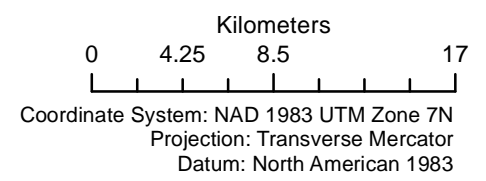
- Yukon Bedrock Geology**
- LOWER TERTIARY, MOSTLY(?) EOCENE**
- ITR1: ROSS: dark grey-green olivine basalt necks and flows
  - ITR2: ROSS: rhyolite flows, tuff, ash-flow tuff and breccia
  - ITR3: ROSS: brown, thin-bedded, claystone, siltstone, shale and coal
- UPPER CRETACEOUS**
- uKC1: CARMACKS: augite-olivine basalt and breccia
  - uKC2: CARMACKS: andesite, porphyry
  - uKC3: CARMACKS: acid vitric crystal tuff, lapilli tuff and welded tuff
- LOWER CRETACEOUS**
- IKIR: INDIAN RIVER: clast-supported pebble to cobble conglomerate
- LATE TRIASSIC TO EARLY JURASSIC**
- LTrEJgbM: MINTO SUITE: Hbl gabbro
- MIDDLE TO LATE PERMIAN**
- PgS: SULPHUR CREEK SUITE: granodiorite and quartz monzonite
  - PqS: SULPHUR CREEK SUITE: variably foliated, K-feldspar augen granite, metaporphyry
  - PK1: KLONDIKE SCHIST: quartz-muscovite-chlorite schist
  - PK2: KLONDIKE SCHIST: silvery grey muscovite-chlorite quartz phyllite, micaceous quartzite
- CARBONIFEROUS TO PERMIAN**
- CPSM2: CAMPBELL RANGE: dark green to black basalt, greenstone, locally pillowed
  - CPSM4: SLIDE MOUNTAIN: brown weathering, variably serpentinized ultramafic rocks
- MISSISSIPPIAN**
- MqSR: SIMPSON RANGE SUITE: foliated metagranite, quartz monzonite and granodiorite; augen granite
  - MgSR: SIMPSON RANGE SUITE: Hbl-bearing metagranodiorite, metadiorite and metatonalite
- DEVONIAN, MISSISSIPPIAN AND(?) OLDER**
- DMF1: FINLAYSON: intermediate to mafic volcanic and volcanoclastic rocks
  - DMF3: FINLAYSON: dark grey to black carbonaceous metasedimentary rocks, metachert
  - DMF4: FINLAYSON: light green to grey, fine-grained siliciclastic and metavolcanoclastic rocks
  - DMF5: FINLAYSON: light grey to white marble, locally crinoidal
  - DMF6: FINLAYSON: ultramafic rocks, serpentinite; metagabbro
- LATE DEVONIAN TO MISSISSIPPIAN**
- DMGg: GRASS LAKES SUITE: fine to medium-grained, foliated granodiorite, granite, quartz monzonite
- ORDOVICIAN TO LOWER DEVONIAN**
- ODS: SCOTTIE CREEK: quartzite, micaceous quartzite, psammitic Qtz-Ms-Bt ± Grt schist
  - ODR: ROAD RIVER - SELWYN: black shale and chert, dolomitic siltstone, calcareous shale, buff platy limestone
- UPPER CAMBRIAN AND ORDOVICIAN**
- COR1: RABBITKETTLE: thin-bedded, silty limestone and grey lustrous calcareous phyllite
- NEOPROTEROZOIC AND PALEOZOIC**
- PDS1: SNOWCAP: quartzite, psammite, pelite and marble; minor greenstone and amphibolite
  - PDS2: SNOWCAP: light grey to buff weathering marble
- NEOPROTEROZOIC TO LOWER CAMBRIAN**
- PCH1: YUSEZYU: brown to pale green shale, quartz-rich sandstone, grit, pebble conglomerate
- normal, low-angle detachment, inferred
- strike slip, dextral, covered

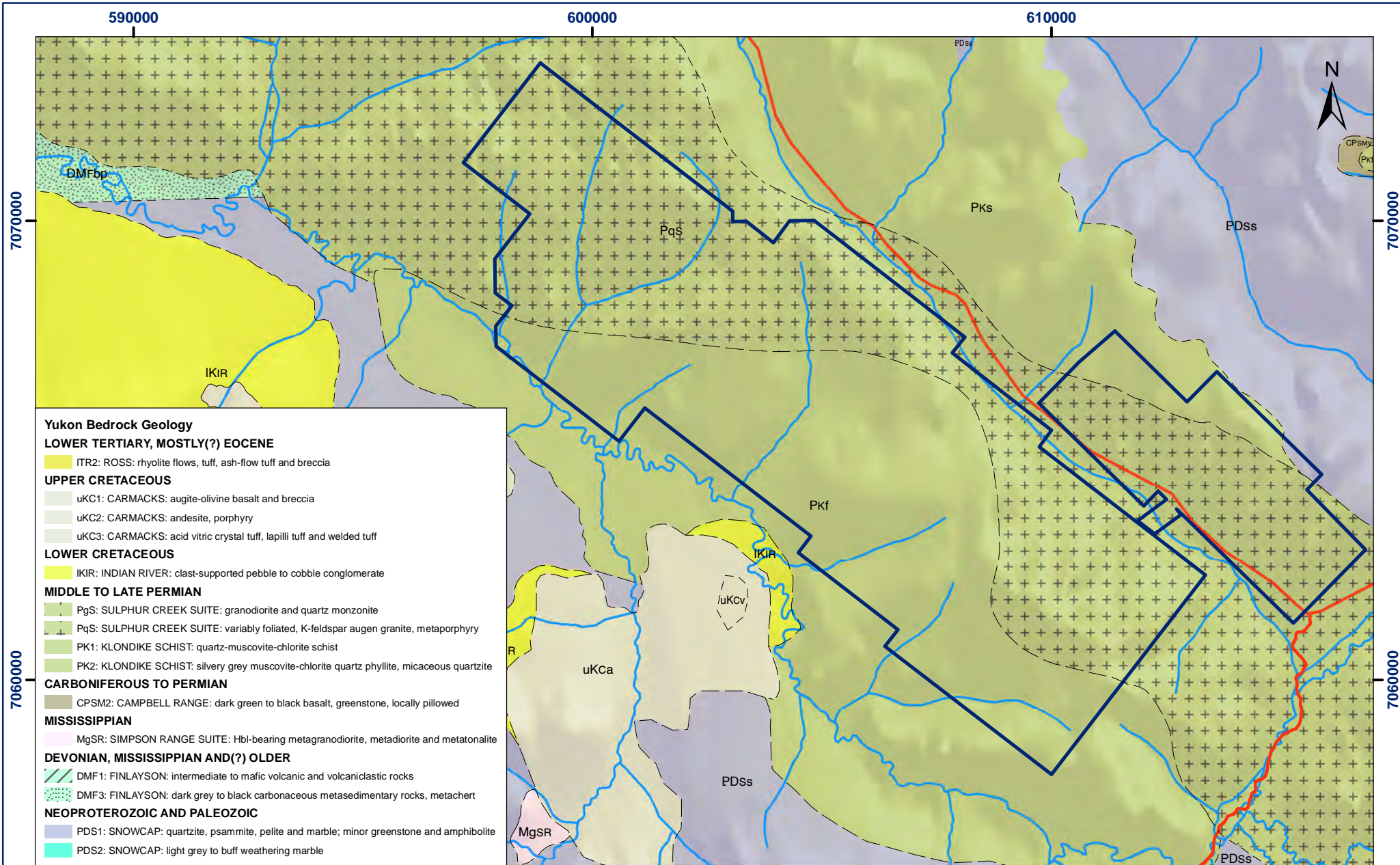


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**Sulphur Property**  
**Figure 4 - Regional Geology**





- Yukon Bedrock Geology**
- LOWER TERTIARY, MOSTLY(?) EOCENE**
- ITR2: ROSS: rhyolite flows, tuff, ash-flow tuff and breccia
- UPPER CRETACEOUS**
- uKC1: CARMACKS: augite-olivine basalt and breccia
  - uKC2: CARMACKS: andesite, porphyry
  - uKC3: CARMACKS: acid vitric crystal tuff, lapilli tuff and welded tuff
- LOWER CRETACEOUS**
- IKIR: INDIAN RIVER: clast-supported pebble to cobble conglomerate
- MIDDLE TO LATE PERMIAN**
- PgS: SULPHUR CREEK SUITE: granodiorite and quartz monzonite
  - PgS: SULPHUR CREEK SUITE: variably foliated, K-feldspar augen granite, metaporphyry
  - PK1: KLONDIKE SCHIST: quartz-muscovite-chlorite schist
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- CPSM2: CAMPBELL RANGE: dark green to black basalt, greenstone, locally pillowed
- MISSISSIPPIAN**
- MgSR: SIMPSON RANGE SUITE: Hbl-bearing metagranodiorite, metadiorite and metatonalite
- DEVONIAN, MISSISSIPPIAN AND(?) OLDER**
- DMF1: FINLAYSON: intermediate to mafic volcanic and volcanoclastic rocks
  - DMF3: FINLAYSON: dark grey to black carbonaceous metasedimentary rocks, metachert
- NEOPROTEROZOIC AND PALEOZOIC**
- PDS1: SNOWCAP: quartzite, psammite, pelite and marble; minor greenstone and amphibolite
  - PDS2: SNOWCAP: light grey to buff weathering marble



**Sulphur Property**  
**Figure 5 - Property Geology**

Kilometers  
 0 1.25 2.5 5

Coordinate System: NAD 1983 UTM Zone 7N  
 Projection: Transverse Mercator  
 Datum: North American 1983

It is the Authors' opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the trench and drill samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Authors have relied upon the adequacy and accuracy of BV commonly accepted for this level of exploration. The Junior Author reconciled the field data with the analytical results and found no irregularities.

## Trenching

Trenching began on October 1 and was completed on October 5 with a low impact rubber tracked mini-excavator. The excavator was rented from Treadstone Equipment Ltd., and operated by Breakaway geologist Dylan Wales. Logging and sampling of the trenches was completed by the Junior Author. A total of 378 metres of trenching was done in four trenches. The trenches were completed in generally an east-west direction with lengths from 86 to 100 metres. The trenches were spaced at intervals roughly 200 metres to intersect the north-trending VLF-05 anomaly at the midpoint of each trench (Figure 6). The trenches remain open, and under Class 1 activity guidelines, should be reclaimed by October 17, 2018. Trench locations, lengths and azimuths are as follows:

**Table 4 - 2017 Trenching Summary**

<b>Trench</b>	<b>UTM mE</b>	<b>UTM mN</b>	<b>Azimuth °</b>	<b>Length m</b>
SUTR17-06	611248	7065379	245	100.0
SUTR17-07	611167	7065543	270	95
SUTR17-08	611197	7065763	270	97
SUTR17-09	611211	7065956	270	86

A total of 77 samples were taken over the four trenches. Rock chip samples of weathered and broken bedrock were systematically collected over five metre intervals from the trenches. Sample locations were recorded with HP iPAQ 200 series field computers running GeoInfoMobile and Tierra Mapper software paired with Holux GPS receivers in map datum UTM WGS84 Zone 7N. Sample descriptions are included as Appendix B. Rock samples were placed in heavy-duty plastic bags with the appropriate sample numbers affixed with bar coded stickers inside the bag as well as marked in indelible ink. Samples were then sealed in rice bags and shipped to BV in Vancouver for analysis. Samples were crushed, and 250 g split and pulverized to -200 mesh, and analyzed for 36 elements (including gold) by 15 gram Aqua Regia digestion, ICP-MS finish (Appendix D).

The host rock in the trenches is predominately a layered augen or orthogneiss inter-fingered with chlorite and muscovite schist, phyllite and muscovite quartzite. Several quartz veins were encountered throughout the trenches. Due to the weathered and broken nature of the bedrock it was difficult to determine the orientations of the quartz veins. Generally they showed a predominately horizontal aspect, but occasionally some were found to be vertical. Trenches SUTR17-07 and 08 encountered zones of dark green to grey gouge material roughly 15 metres east of the VLF-05 anomaly. All trenches exhibited zones of folded and crenulated quartz chlorite schists.

Results from the trenching program returned values from below detection (i.e. < 0.5 ppb Au) up to a maximum of 148.3 ppb Au (Figure 7). There is a strong, although sporadic, association between gold and arsenic with maximum values up 1360ppm As. Elevated copper, lead, silver and zinc values also relate erratically to the better gold and arsenic values. Even though the overall gold results are not encouraging, the VLF-05 target anomaly clearly corresponds to a zone of arsenic enrichment. Table 5 below summarizes the best trench intersections.

**Table 5 - Significant Trench Sample Results**

<b>Trench</b>	<b>From m</b>	<b>Length m</b>	<b>Wt. Avg. ppb</b>	<b>up to ppb</b>
SUTR17-06	45	5	148	148

## Drilling

The drilling was completed from October 6 to October 16 by Midnight Sun Drilling Inc. (“Midnight Sun”) of Whitehorse, Yukon. A total of 2324.1 feet (708.4 metres) of 3.5 inch reverse circulation (“RC”) drilling was done in seven holes directed east to west with holes spaced 100 metres apart on the north-trending VLF-05 anomaly (Figure 6). The field work and logging (Appendix D) was completed by the Junior Author. The chips were logged with GeoInfoTools Data Logger at camp set up 4 kilometres from the work site. Collar locations were recorded with HP IPAQ 200 series field computers running GeoInfoMobile and Tierra Mapper software paired with Holux GPS receivers in map datum UTM WGS84 Zone 7N. Azimuth and dips were recorded with a compass. Collar locations, azimuths, dips and depths of the holes are as follows:

**Table 6 - 2017 Drill Hole Summary**

Hole	UTM mE	UTM mN	Azimuth °	Dip °	Length m
SURC17-01	611255	7065358	240	-55	101.2
SURC17-02	611178	7065449	271	-55	101.2
SURC17-03	611180	7065550	268	-55	101.2
SURC17-04	611154	7065656	271	-55	101.2
SURC17-05	611168	7065749	270	-55	101.2
SURC17-06	611194	7065852	259	-55	101.2
SURC17-07	611211	7065958	270	-55	101.2

RC drilling uses rods with inner and outer tubes, the drill cuttings are returned to surface inside the rods. The drilling mechanism is a pneumatic reciprocating piston known as a hammer driving a tungsten-steel drill bit. Compressed air is blown down between the outside and inner tubes. Rock cuttings are lifted up the inside of the inner tube by differential air pressure.

A deflector box at the top of the drill string moves the rock cuttings through a sample hose to the top of a cyclone. The rock cuttings travel around the inside of the cyclone before falling through the bottom into a sample bag. The rock cuttings are collected and logged at roughly 1.5 meter intervals. Samples were collected for analysis by splitting each sample interval through a 12.5% riffle splitter to about a 1.0 kilogram representative sample. Much of the seven holes were drilled in blocky material and required water to keep the hole open, wet samples were collected from the cyclone in a bucket. The contents of the bucket were stirred vigorously for homogenization; the samples were then taken with a sieve to filter out much of the water. Samples were analyzed for 36 elements (including gold) by 15 gram Aqua Regia digestion, ICP-MS finish. A total of 510 samples were analyzed including 468 drill chip samples, 42 QAQC blanks, duplicates and standards (Appendix E).

The drilling encountered primarily orthogneiss inter-fingered with schists and phyllites. In the northernmost hole SURC1705-07, intervals of abundant grey to blue quartzite were encountered. Quartz veins and oxidized layers are present in restricted intervals within all of the holes. Fine-grained disseminated pyrite mineralization was noted in the last 12 metres of SURC17-01 and minor intervals through SURC17-07. Analytical results from the drilling returned values from below detection (i.e. < 0.5ppb Au) to a maximum of 227.9 ppb Au. Table 7 below lists all anomalous drill intersections:

**Table 7 - 2017 Significant Drill Intersections**

Hole	From (m)*	Length (m)*	Wt. Avg. (ppb Au)	Up to (ppb)
SURC17-01	0.91	6.10	124.4	206.2
SURC17-04	24.99	1.52	179.0	179.4
	69.19	12.19	59.3	185.4
SURC17-05	66.14	13.72	97.7	223.0
	95.10	3.05	112.5	120.6
SURC17-06	60.05	15.24	128.5	227.9
	81.38	10.67	101.6	227.5
SURC17-07	64.62	1.52	126.2	126.2

\*metres are converted from feet as per noted in drill logs

The gold results from the drilling are not particularly strong but they do show a marked correlation to the VLF-05 anomaly. Similar to the trenching results, there is an apparent, although sporadic, association between gold and arsenic with maximum values up to 2552ppm As. Elevated copper, lead, silver and zinc values also relate erratically to the better gold and arsenic values. Even though the overall gold results are not encouraging, the VLF-05 target anomaly is clearly coincident with a bedrock zone of arsenic enrichment, sporadically corresponding to variously elevated gold, and copper, lead, silver and zinc values.

## **Interpretation and Conclusion**

The 2017 trenching and drilling program drill met its primary goal of locating a gold-bearing zone in bedrock roughly coincident with the VLF-05 anomaly, and clearly upslope from the Lion zone gold-arsenic soil geochemical anomalies. However no clear bedrock structure could be identified in either the trenching or drilling. This is due primarily to the weathered and broken nature of the bedrock in the trenches, and the RC method of drilling that only delivers chips rather than core.

The drill results suggest that the VLF-05 anomaly marks a series of north-trending quartz veins within a parallel, arsenic enriched zone. The variously elevated gold, and copper, lead, silver and zinc values are probably due to erratic sulphide mineralization within these quartz veins. The mineralization clearly fits an orogenic-type, structural model. The anomalous intervals are all within quartzite which was primarily intersected in the northern holes.

Although the trenching and drilling did not encounter significant gold-bearing mineralization, the results validate VLF-EM as a relatively inexpensive and effective method to upgrade soil geochemical anomalies to high confidence drill targets. There are still a number of VLF-EM anomalies within in the Lions zone that deserve further investigation. This method can be applied to the other gold-in-soil anomalies identified elsewhere on the Sulphur property.

## **Recommendations**

The 2017 trenching and drilling results, although not remarkable, do suggest that further exploration work is warranted on the Lions zone. The area around holes SURC-05 and 06 showed the best gold intersections. Perhaps a large stripping, trenching and mapping program in this area would identify a definite gold-bearing bedrock structure. Further work should focus on exposing and mapping out the quartzite units which appear to have an association with the gold mineralization. Further prospecting followed by trenching should be done on the remaining VLF-EM anomalies that are proximal to the Lions zone gold-arsenic soil geochemical anomalies.

It is also suggested that VLF-EM surveys be complete over the four other gold-in-soil zones outlined elsewhere on the Property to identify bedrock geophysical features that would help improve the reliability of trenching and or drilling targets at these four sites.

## **References**

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- Southam, P. (1995b): 1995 Geochemical report on the Flug Claims; Yukon Geological Survey Assessment File Report No. 093351.



611000

611500



SURC1707  
SUTR1709

SURC1706

SUTR1708

SURC1705

SURC1704

SURC1703

SUTR1707

SURC1702

SUTR1706

SURC1701

7065500

7065500

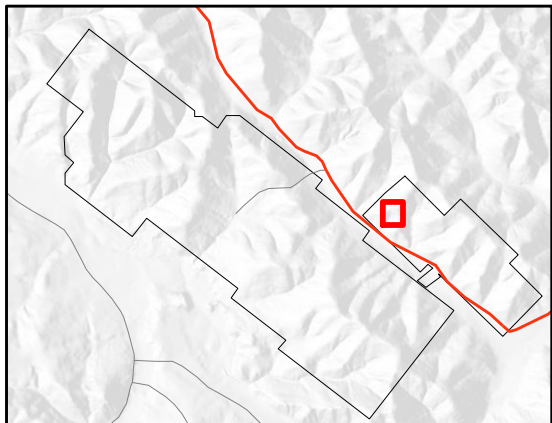
0 25 50 100 Meters



**TAKU GOLD**  
CORP.

- Drilling
- Trenching
- - - Moderate Conductor
- Strong Conductor

**Sulphur Property  
Figure 6  
Drill and Trench Locations**



611000

611500



SUTR1709

SUTR1708

SUTR1707

SUTR1706

7065500

7065500

0 25 50 100 Meters



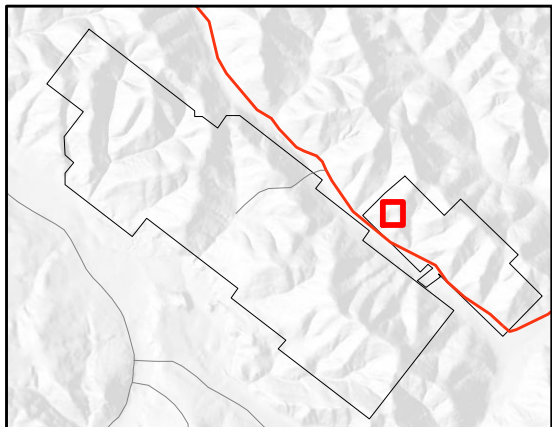
**TAKU GOLD**  
CORP.

### Sulphur Property Figure 7 Trench Results

- Trenching
- Moderate Conductor
- Strong Conductor

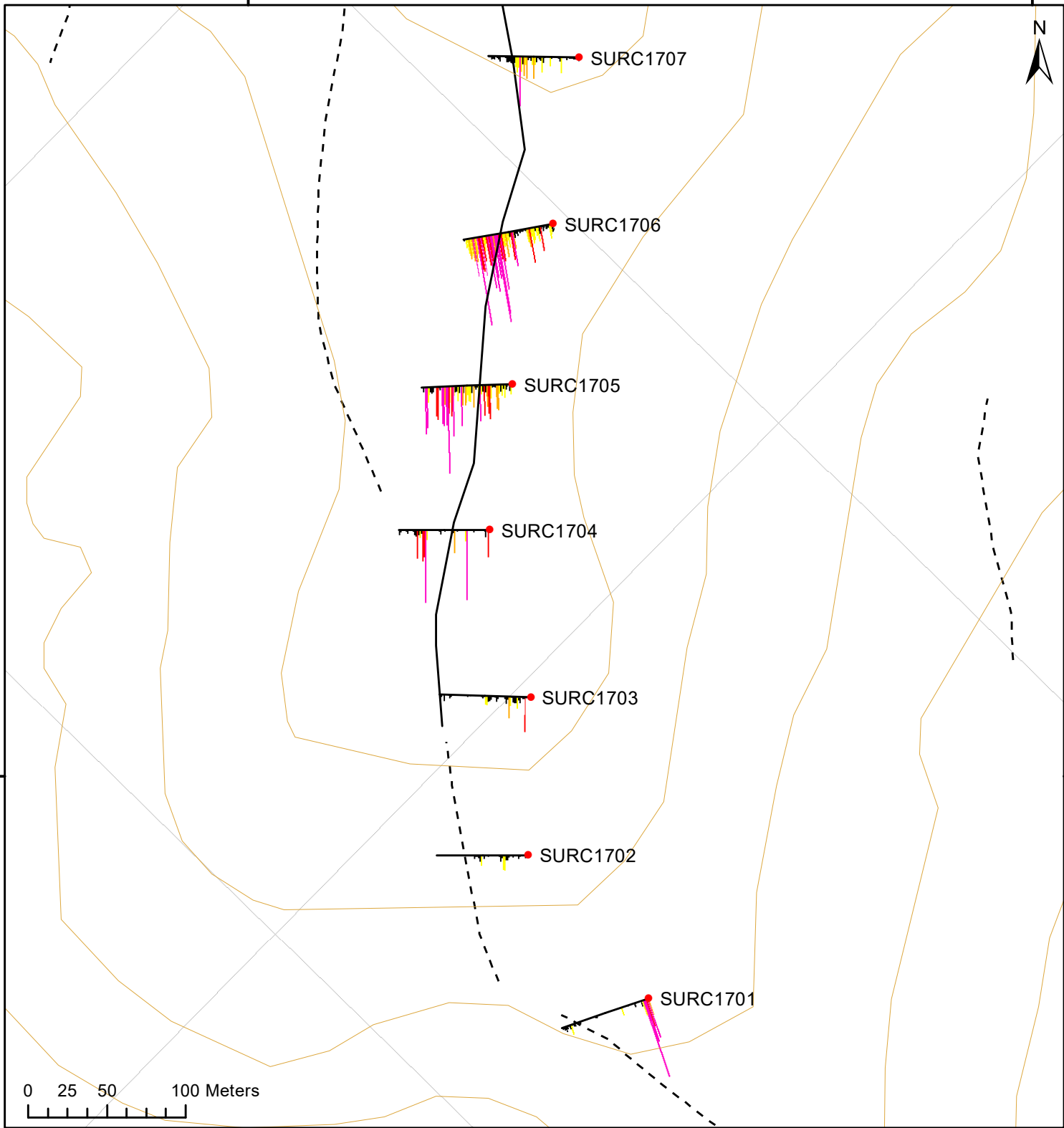
#### Au ppb

- 0 - 20
- 20 - 45
- 45 - 65
- 65 - 90
- 90 - 148



611000

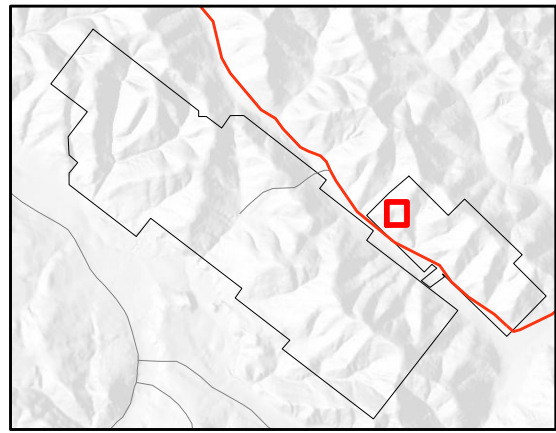
611500



7065500

7065500

0 25 50 100 Meters



**TAKU GOLD**  
CORP.

**Sulphur Property  
Figure 8  
Drill Results**

- Drilling
- - - Moderate Conductor
- Strong Conductor

**Au ppb**

- 0 - 20
- 20 - 45
- 45 - 65
- 95 - 90
- 90 - 228

## **Appendix A - Statement of Work**

**APPLICATION FOR A CERTIFICATE OF WORK**

I, \_\_\_\_\_,  
Agent for Taku Gold Corp.  
of \_\_\_\_\_  
Phone \_\_\_\_\_  
Client I.D. Number: \_\_\_\_\_  
make oath and say that:

Office Date Stamp

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work, on the following mineral claim(s): (Here list claims on which work was actually done by number and name)

See attached List of Claims  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

situated at Sulphur Creek Claim sheet No. 115O10 & 115O14

in the Dawson Mining District, to the value of at least 159,199.37 dollars,

since the 1st day of July 202017,

to represent the following mineral claims under the authority of Grouping Certificate No. HD-03393.  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

See attached List of Claims  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56).

Trenching 378 m in four trenches (77 samples) completed July 31 to September 30 (Cutting temporary access trail)  
October 1 to 5 (trench excavation) at cost of \$45,486.75; drilling 708.4 m in 7 holes (510 samples) completed  
October 6 to 18 at cost of \$113,712.62; and report completed Deceber 1 to 11 (cost prorated to teching and drilling)  
\_\_\_\_\_

Sworn before me at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 20 18.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Owner or Authorized Agent

## Statement of Expenses 2017 Sulphur - Trench

<b>Trenching</b>			<b>Rate</b>			<b>Amount</b>
<b>Breakaway Expl. Mgmt. Inc. No. 1197 &amp; 1218</b>						
5650	Wages and Contract					
	Geologist M.Huber (Field)	14	days @	\$600.00	\$8,400.00	
	Geologist D.Wales (Field)	22	days @	\$425.00	\$9,350.00	
	Junior Techs (3)	9	days @	\$280.00	\$2,520.00	
	Geologist M.Huber (Report)	2	days @	\$600.00	\$1,200.00	
						\$21,470.00
5651	F&L					
	Hotel, food etc. per diem	45	days @	\$150.00	\$6,750.00	
						\$6,750.00
5652	Supplies					
	Tags, bags, flagging etc.	77	samples @	\$2.50	\$192.50	
	NIS #10971129	1	invoice @	\$42.73	\$42.73	
	Napa #6816	1	invoice @	\$179.87	\$179.87	
						\$415.10
5653	Transport					
	Truck Rental	23	days @	\$200.00	\$4,600.00	
	AFD #113750	1	invoice @	\$62.40	\$62.40	
	AFD #254786	1	invoice @	\$117.11	\$117.11	
	AFD #255847	1	invoice @	\$92.73	\$92.73	
	AFD #257036	1	invoice @	\$77.19	\$77.19	
	AFD #259606	1	invoice @	\$64.15	\$64.15	
	AFD #260672	1	invoice @	\$1,151.18	\$1,151.18	
	AN #850279555	1	invoice @	\$503.81	\$503.81	
	Tatchun #33013	1	invoice @	\$40.95	\$40.95	
						\$6,709.52
5654	Rentals					
	VHF-FM radios	32	days @	\$5.00	\$160.00	
	Ipaq GPS	23	days @	\$5.00	\$115.00	
	GIS Licence	2	days @	\$10.00	\$20.00	
	Chain Saw	22	days @	\$35.00	\$770.00	
						\$1,065.00
<b>Treadstone No. 2017-712</b>						
5654	Rentals					
	Mini Hoe	5	days @	\$1,250.00	\$6,250.00	
	Quad	5	days @	\$100.00	\$500.00	
	Slipo Tank	13	days @	\$20.00	\$260.00	
						\$7,010.00
<b>BV No. 286675</b>						
5656	Assays					
	Rocks	77	samples @	\$26.85	\$2,067.13	
						\$2,067.13
					<b>Total</b>	<b>\$45,486.75</b>



## Statement of Expenses 2017 Sulphur - Daily Log

Date	Name	M.Huber	D.Wales	C.Reeves	B.McCauley	K.Tompkins	I.Dorion
	Position	P.Geo.	Geologist	Jr. Tech	Jr. Tech	Jr. Tech	Jr. Tech
31-Jul-17	Cutting access trail	1	1				
4-Aug-17	Cutting access trail	1	1				
5-Aug-17	Cutting access trail	1	1				
11-Aug-17	Cutting access trail		1	1	1	1	
12-Aug-17	Cutting access trail	1	1	1	1	1	
13-Aug-17	Cutting access trail			1	1	1	
16-Aug-17	Cutting access trail		1				
17-Aug-17	Cutting access trail		1				
18-Aug-17	Cutting access trail		1				
19-Aug-17	Cutting access trail		1				
20-Aug-17	Cutting access trail		1				
21-Aug-17	Cutting access trail		1				
22-Aug-17	Cutting access trail		1				
23-Aug-17	Cutting access trail		1				
26-Sep-17	Cutting access trail	1	1				
27-Sep-17	Cutting access trail	1	1				
28-Sep-17	Cutting access trail	1	1				
29-Sep-17	Cutting access trail	1	1				
30-Sep-17	Cutting access trail	1	1				
1-Oct-17	Trenching	1	1				
2-Oct-17	Trenching	1	1				
3-Oct-17	Trenching	1	1				
4-Oct-17	Trenching	1	1				
5-Oct-17	Trenching	1					
10-Dec-17	Report	1					
11-Dec-17	Report	1					
	<b>Total Trenching</b>	<b>16</b>	<b>22</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>0</b>
6-Oct-17	Drilling	1	1				1
7-Oct-17	Drilling	1	1				1
8-Oct-17	Drilling	1	1				1
9-Oct-17	Drilling	1	1				1
10-Oct-17	Drilling	1	1				1
11-Oct-17	Drilling	1	1				1
12-Oct-17	Drilling	1	1				1
13-Oct-17	Drilling	1	1				1
14-Oct-17	Drilling	1	1				1
15-Oct-17	Drilling	1	1				1
16-Oct-17	Drilling	1	1				
17-Oct-17	Drilling	1					
18-Oct-17	Drilling	1					
1-Dec-17	Report	1					
8-Dec-17	Report	1					
9-Dec-17	Report	1					
	<b>Total Drilling</b>	<b>16</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>



Claim List for Cert of Work 2017 Sulphur

Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD28201	SU	1	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28202	SU	2	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28203	SU	3	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28204	SU	4	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28205	SU	5	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28206	SU	6	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28207	SU	7	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28208	SU	8	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28209	SU	9	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28210	SU	10	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28211	SU	11	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28212	SU	12	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28213	SU	13	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28214	SU	14	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28215	SU	15	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28216	SU	16	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28217	SU	17	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28218	SU	18	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28219	SU	19	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28220	SU	20	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28221	SU	21	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28222	SU	22	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28223	SU	23	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28224	SU	24	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28225	SU	25	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28226	SU	26	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28227	SU	27	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28228	SU	28	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28229	SU	29	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28230	SU	30	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28231	SU	31	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28232	SU	32	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28233	SU	33	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28234	SU	34	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28235	SU	35	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28236	SU	36	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28237	SU	37	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28238	SU	38	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28239	SU	39	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28240	SU	40	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28241	SU	41	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28242	SU	42	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28243	SU	43	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28244	SU	44	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28245	SU	45	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28246	SU	46	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28247	SU	47	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28248	SU	48	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28249	SU	49	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28250	SU	50	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28251	SU	51	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28252	SU	52	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28253	SU	53	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28254	SU	54	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28255	SU	55	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28256	SU	56	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28257	SU	57	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28258	SU	58	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28259	SU	59	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28260	SU	60	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28261	SU	61	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28262	SU	62	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28263	SU	63	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28264	SU	64	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28265	SU	65	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28266	SU	66	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28267	SU	67	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28268	SU	68	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28269	SU	69	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28270	SU	70	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00

Claim List for Cert of Work 2017 Sulphur

Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD28271	SU	71	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28272	SU	72	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28273	SU	73	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28274	SU	74	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28275	SU	75	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28276	SU	76	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28293	SU	93	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28294	SU	94	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28295	SU	95	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28296	SU	96	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28297	SU	97	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28298	SU	98	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28299	SU	99	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28300	SU	100	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28317	SU	117	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28318	SU	118	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28319	SU	119	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28320	SU	120	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28321	SU	121	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28322	SU	122	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28323	SU	123	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28324	SU	124	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28461	SU	261	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28462	SU	262	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28485	SU	285	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28486	SU	286	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28509	SU	309	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28510	SU	310	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28533	SU	333	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28534	SU	334	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28535	SU	335	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28536	SU	336	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28557	SU	357	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28558	SU	358	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28559	SU	359	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28560	SU	360	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28581	SU	381	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28582	SU	382	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28583	SU	383	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28584	SU	384	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28605	SU	405	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28606	SU	406	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28607	SU	407	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28608	SU	408	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28629	SU	429	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28630	SU	430	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28631	SU	431	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD28632	SU	432	2019-03-14	2023-03-14			4	\$ 5.00	\$ 20.00
YD06601	US	1	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06602	US	2	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06603	US	3	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06604	US	4	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06605	US	5	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06606	US	6	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06607	US	7	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06608	US	8	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06609	US	9	2020-03-14	2023-03-14	\$15,162.25	\$37,904.21	3	\$ 5.00	\$ 15.00
YD06610	US	10	2020-03-14	2023-03-14	\$15,162.25	\$37,904.21	3	\$ 5.00	\$ 15.00
YD06611	US	11	2020-03-14	2023-03-14	\$15,162.25	\$37,904.21	3	\$ 5.00	\$ 15.00
YD06612	US	12	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06613	US	13	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06614	US	14	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06615	US	15	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06616	US	16	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06617	US	17	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06618	US	18	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06619	US	19	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06620	US	20	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06621	US	21	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06622	US	22	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00

Claim List for Cert of Work 2017 Sulphur

Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD06623	US	23	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06624	US	24	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06625	US	25	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06626	US	26	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06627	US	27	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06628	US	28	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06629	US	29	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06630	US	30	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06631	US	31	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06632	US	32	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06633	US	33	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06634	US	34	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06635	US	35	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06636	US	36	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06637	US	37	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06638	US	38	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06639	US	39	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06640	US	40	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06641	US	41	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06642	US	42	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06643	US	43	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06644	US	44	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06645	US	45	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06646	US	46	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06647	US	47	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06648	US	48	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06649	US	49	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06650	US	50	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06651	US	51	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06652	US	52	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06653	US	53	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06654	US	54	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06655	US	55	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06656	US	56	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06657	US	57	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06658	US	58	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06659	US	59	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06660	US	60	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06661	US	61	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06662	US	62	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06663	US	63	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06664	US	64	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06665	US	65	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06666	US	66	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06667	US	67	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06668	US	68	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06669	US	69	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06670	US	70	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06671	US	71	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06672	US	72	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06673	US	73	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06674	US	74	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06675	US	75	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06676	US	76	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06677	US	77	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06678	US	78	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06679	US	79	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06680	US	80	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06681	US	81	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06682	US	82	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06683	US	83	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD06684	US	84	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD17723	US	85	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD17724	US	86	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD17725	US	87	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD17726	US	88	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD17727	US	89	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD17728	US	90	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD17729	US	91	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28277	SU	77	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00

Claim List for Cert of Work 2017 Sulphur

Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD28278	SU	78	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28279	SU	79	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28280	SU	80	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28281	SU	81	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28282	SU	82	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28283	SU	83	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28284	SU	84	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28285	SU	85	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28286	SU	86	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28287	SU	87	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28288	SU	88	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28289	SU	89	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28290	SU	90	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28291	SU	91	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28292	SU	92	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28301	SU	101	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28302	SU	102	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28303	SU	103	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28304	SU	104	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28305	SU	105	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28306	SU	106	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28307	SU	107	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28308	SU	108	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28309	SU	109	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28310	SU	110	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28311	SU	111	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28312	SU	112	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28313	SU	113	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28314	SU	114	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28315	SU	115	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28316	SU	116	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28325	SU	125	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28326	SU	126	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28327	SU	127	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28328	SU	128	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28329	SU	129	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28330	SU	130	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28331	SU	131	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28332	SU	132	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28333	SU	133	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28334	SU	134	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28335	SU	135	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28336	SU	136	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28337	SU	137	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28338	SU	138	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28339	SU	139	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28340	SU	140	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28341	SU	141	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28342	SU	142	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28343	SU	143	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28344	SU	144	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28345	SU	145	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28346	SU	146	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28347	SU	147	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28348	SU	148	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28349	SU	149	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28350	SU	150	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28351	SU	151	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28352	SU	152	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28353	SU	153	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28354	SU	154	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28355	SU	155	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28356	SU	156	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28357	SU	157	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28358	SU	158	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28359	SU	159	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28360	SU	160	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28361	SU	161	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28362	SU	162	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28363	SU	163	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00

Claim List for Cert of Work 2017 Sulphur

Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD28364	SU	164	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28365	SU	165	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28366	SU	166	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28367	SU	167	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28368	SU	168	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28369	SU	169	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28370	SU	170	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28371	SU	171	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28372	SU	172	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28373	SU	173	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28374	SU	174	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28375	SU	175	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28376	SU	176	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28377	SU	177	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28378	SU	178	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28379	SU	179	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28380	SU	180	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28381	SU	181	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28382	SU	182	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28383	SU	183	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28384	SU	184	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28385	SU	185	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28386	SU	186	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28387	SU	187	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28388	SU	188	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28389	SU	189	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28390	SU	190	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28391	SU	191	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28392	SU	192	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28393	SU	193	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28394	SU	194	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28395	SU	195	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28396	SU	196	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28397	SU	197	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28398	SU	198	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28399	SU	199	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28400	SU	200	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28401	SU	201	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28402	SU	202	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28403	SU	203	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28404	SU	204	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28405	SU	205	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28406	SU	206	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28407	SU	207	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28408	SU	208	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28409	SU	209	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28410	SU	210	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28411	SU	211	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28412	SU	212	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28413	SU	213	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28414	SU	214	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28415	SU	215	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28416	SU	216	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28417	SU	217	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28418	SU	218	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28419	SU	219	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28420	SU	220	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28421	SU	221	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28422	SU	222	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28423	SU	223	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28424	SU	224	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28425	SU	225	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28426	SU	226	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28427	SU	227	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28428	SU	228	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28429	SU	229	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28430	SU	230	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28431	SU	231	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28432	SU	232	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28433	SU	233	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00

Claim List for Cert of Work 2017 Sulphur

Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD28434	SU	234	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28435	SU	235	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28436	SU	236	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28437	SU	237	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28438	SU	238	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28439	SU	239	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28440	SU	240	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28441	SU	241	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28442	SU	242	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28443	SU	243	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28444	SU	244	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28445	SU	245	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28446	SU	246	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28447	SU	247	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28448	SU	248	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28449	SU	249	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28450	SU	250	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28451	SU	251	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28452	SU	252	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28453	SU	253	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28454	SU	254	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28455	SU	255	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28456	SU	256	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28457	SU	257	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28458	SU	258	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28459	SU	259	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28460	SU	260	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28463	SU	263	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28464	SU	264	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28465	SU	265	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28466	SU	266	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28467	SU	267	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28468	SU	268	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28469	SU	269	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28470	SU	270	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28471	SU	271	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28472	SU	272	2020-03-14	2023-03-14			3	\$ 5.00	\$ 15.00
YD28473	SU	273	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28474	SU	274	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28475	SU	275	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28476	SU	276	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28477	SU	277	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28478	SU	278	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28479	SU	279	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28480	SU	280	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28481	SU	281	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28482	SU	282	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28483	SU	283	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28484	SU	284	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28487	SU	287	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28488	SU	288	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28489	SU	289	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28490	SU	290	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28491	SU	291	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28492	SU	292	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28493	SU	293	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28494	SU	294	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28495	SU	295	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28496	SU	296	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28497	SU	297	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28498	SU	298	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28499	SU	299	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28500	SU	300	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28501	SU	301	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28502	SU	302	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28503	SU	303	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28504	SU	304	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28505	SU	305	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28506	SU	306	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28507	SU	307	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00

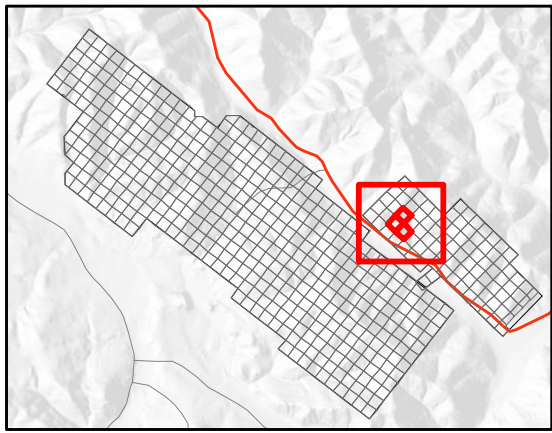
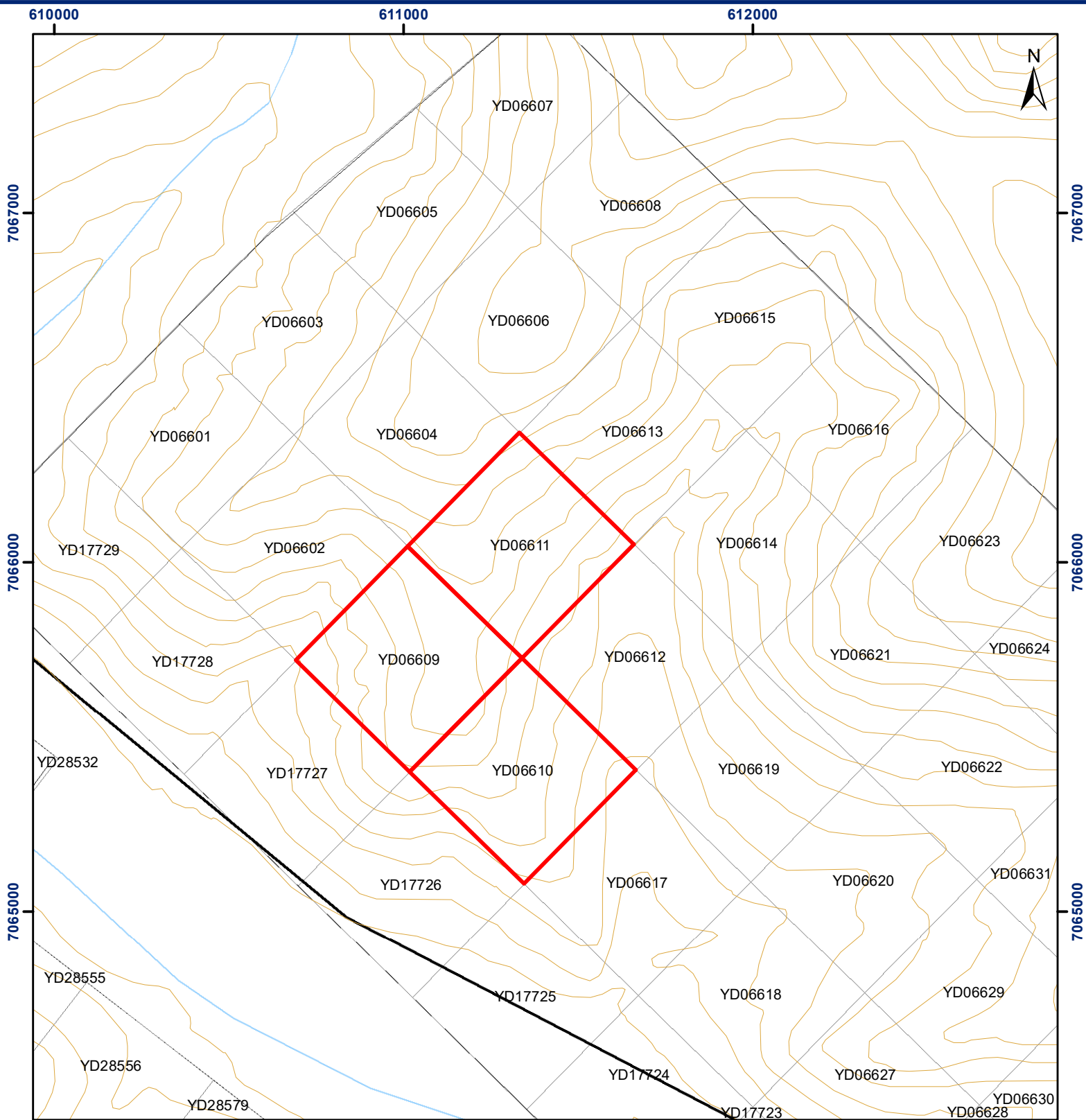
Claim List for Cert of Work 2017 Sulphur

Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD28508	SU	308	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28511	SU	311	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28512	SU	312	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28513	SU	313	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28514	SU	314	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28515	SU	315	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28516	SU	316	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28517	SU	317	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28518	SU	318	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28519	SU	319	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28520	SU	320	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28521	SU	321	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28522	SU	322	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28523	SU	323	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28524	SU	324	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28525	SU	325	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28526	SU	326	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28527	SU	327	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28528	SU	328	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28529	SU	329	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28530	SU	330	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28531	SU	331	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28532	SU	332	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28537	SU	337	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28538	SU	338	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28539	SU	339	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28540	SU	340	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28541	SU	341	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28542	SU	342	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28543	SU	343	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28544	SU	344	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28545	SU	345	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28546	SU	346	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28547	SU	347	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28548	SU	348	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28549	SU	349	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28550	SU	350	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28551	SU	351	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28552	SU	352	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28553	SU	353	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28554	SU	354	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28555	SU	355	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28556	SU	356	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28561	SU	361	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28562	SU	362	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28563	SU	363	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28564	SU	364	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28565	SU	365	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28566	SU	366	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28567	SU	367	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28568	SU	368	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28569	SU	369	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28570	SU	370	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28571	SU	371	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28572	SU	372	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28573	SU	373	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28574	SU	374	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28575	SU	375	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28576	SU	376	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28577	SU	377	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28578	SU	378	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28579	SU	379	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28580	SU	380	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28585	SU	385	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28586	SU	386	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28587	SU	387	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28588	SU	388	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28589	SU	389	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28590	SU	390	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28591	SU	391	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00

Claim List for Cert of Work 2017 Sulphur

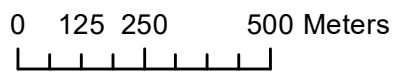
Claim Information					Actual Work Done by Claim		Renewal		
Grant No.	Claim Name	Claim No.	Expiry Date	Extend to Date	Trenching	Drilling	Years	Annual Fee	Total
YD28592	SU	392	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28593	SU	393	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28594	SU	394	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28595	SU	395	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28596	SU	396	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28597	SU	397	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28598	SU	398	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28599	SU	399	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28600	SU	400	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28601	SU	401	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28602	SU	402	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28603	SU	403	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28604	SU	404	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28609	SU	409	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28610	SU	410	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28611	SU	411	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28612	SU	412	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28613	SU	413	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28614	SU	414	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28615	SU	415	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28616	SU	416	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28617	SU	417	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28618	SU	418	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28619	SU	419	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28620	SU	420	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28621	SU	421	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28622	SU	422	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28623	SU	423	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28624	SU	424	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28625	SU	425	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28626	SU	426	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28627	SU	427	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28628	SU	428	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28633	SU	433	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28634	SU	434	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28635	SU	435	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28636	SU	436	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28637	SU	437	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28638	SU	438	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28639	SU	439	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28640	SU	440	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28641	SU	441	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28642	SU	442	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28643	SU	443	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28644	SU	444	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28645	SU	445	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28646	SU	446	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28647	SU	447	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28648	SU	448	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28649	SU	449	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28650	SU	450	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28651	SU	451	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
YD28652	SU	452	2020-03-14	2022-03-14			2	\$ 5.00	\$ 10.00
				Column Total	\$45,486.75	\$113,712.62	1591	\$ 5.00	\$ 7,955.00
				Check Column less Expenses (Should be Zero)	\$0.00	\$0.00			
				Number of Claims where work was done	3				
				Expenses from Statement of Costs	\$45,486.75	\$113,712.62			
				Work required for requested renewal	\$159,100.00				
				Surplus (Deficit)	\$99.37				
				Renewal Fees =	1591	years @	\$5.00		\$7,955.00





**TAKU GOLD**  
CORP.

**Sulphur Property  
Claims Worked 2017**



## **Appendix B - Trench Logs**

# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

**Hole: SUTR1706**

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Hole ID:	<b>SUTR1706</b>	Country:	<b>Canada</b>	Latitude:	<b>63.698523</b>
Hole Type:	<b>Trench</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.749407</b>
Hole Depth:	<b>100</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:		Easting:	<b>611248.50</b>
		Area:		Northing:	<b>7065379.55</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>688.8</b>

## Report Contents:

**Survey**

**Lithology**

**Structure**

**Analyses\_01-05**

**Taku Gold**  
**Sulphur Project**

**TrenchingSU2017 Drill Hole Re**  
**Hole: SUTR1706**

**Survey**

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SUTR1706	0.00	Compass	#####	225	4	
SUTR1706	15.00	Compass	#####	145	8	
SUTR1706	58.00	Compass	#####	230	20	
SUTR1706	80.00	Compass	#####	245	25	
SUTR1706	89.00	Compass	#####	248	25	

**Taku Gold**  
**Sulphur Project**

**TrenchingSU2017 Drill Hole Re**  
**Hole: SUTR1706**

**Lithology**

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SUTR1706	0.00	100.00	Gneiss	Augen	Foliated	Quartz	
SUTR1706	7.70	8.60	Gneiss	Siliceous	Carbonaceou		
SUTR1706	26.00	32.00	SchistChlorite	Fragmental	QuartzEyes		
SUTR1706	60.80	61.90	VeinQuartz	Fragmental			
SUTR1706	80.80	81.30	VeinQuartz				

**Taku Gold**  
**Sulphur Project**

**TrenchingSU2017 Drill Hole Re**  
**Hole: SUTR1706**

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**Structure**

<i>HoleID:</i>	<i>Depth:</i>	<i>Width:</i>	<i>Type:</i>	<i>Mod1:</i>	<i>Dip:</i>	<i>Stike:</i>	<i>Comments:</i>
SUTR1706	87.50	25	CrenulationCleava				

# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

Hole: SUTR1706

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SUTR1706	0.00	5.00	201557	5.00	2	0	27	31
SUTR1706	5.00	10.00	201558	5.00	3	0	46	22
SUTR1706	10.00	15.00	201559	5.00	4	0	56	35
SUTR1706	15.00	20.00	201560	5.00	2	0	30	43
SUTR1706	20.00	25.00	201561	5.00	11	1	435	52
SUTR1706	25.00	30.00	201562	5.00	1	0	17	76
SUTR1706	30.00	35.00	201563	5.00	2	2	6	66
SUTR1706	35.00	40.00	201564	5.00	7	0	105	33
SUTR1706	40.00	45.00	201565	5.00	1	0	3	34
SUTR1706	45.00	50.00	201566	5.00	148	2	1360	161
SUTR1706	50.00	55.00	201567	5.00	43	2	142	109
SUTR1706	55.00	60.20	201568	5.20	3	0	269	32
SUTR1706	60.20	61.90	201570	1.70	2	0	44	11
SUTR1706	61.90	65.00	201569	3.10	3	0	79	34
SUTR1706	65.00	70.00	201571	5.00	8	0	62	30
SUTR1706	70.00	75.00	201572	5.00	8	0	36	34
SUTR1706	75.00	81.00	201573	6.00	5	1	275	36
SUTR1706	81.00	81.50	201575	0.50	0	0	10	7
SUTR1706	81.50	85.00	201574	3.50	3	0	66	33
SUTR1706	85.00	90.00	201576	5.00	0	0	10	31
SUTR1706	90.00	95.00	201577	5.00	4	0	11	30
SUTR1706	95.00	100.00	201578	5.00	3	0	11	29

# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

**Hole: SUTR1707**

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Hole ID:	<b>SUTR1707</b>	Country:	<b>Canada</b>	Latitude:	<b>63.700018</b>
Hole Type:	<b>Trench</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.750923</b>
Hole Depth:	<b>95</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:		Easting:	<b>611167.73</b>
		Area:		Northing:	<b>7065543.42</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>723.3</b>

## Report Contents:

**Survey**

**Lithology**

**Structure**

**Analyses\_01-05**



**Taku Gold**  
**Sulphur Project**

**TrenchingSU2017 Drill Hole Re**  
**Hole: SUTR1707**

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**Survey**

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SUTR1707	0.00	Compass	#####	270	4	

# Taku Gold

Sulphur Project

## TrenchingSU2017 Drill Hole Re

Hole: SUTR1707

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SUTR1707	0.00	11.10	Gouge	Quartz	Gravely		
SUTR1707	11.10	24.00	Unknown1	Gravely	Quartz		
SUTR1707	24.00	44.00	SchistChlorite	Quartz	Fragmental		
SUTR1707	38.00	39.40	VeinQuartz				
SUTR1707	44.00	81.00	Gneiss	Augen	Foliated	QuartzEyes	
SUTR1707	81.00	87.00	Gouge	Gravely			
SUTR1707	87.00	95.00	SchistChlorite				

# Taku Gold

Sulphur Project

TrenchingSU2017 Drill Hole Re

Hole: SUTR1707

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## Structure

<i>HoleID:</i>	<i>Depth:</i>	<i>Width:</i>	<i>Type:</i>	<i>Mod1:</i>	<i>Dip:</i>	<i>Stike:</i>	<i>Comments:</i>
SUTR1707	34.00	20	CrenulationCleava				

# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

Hole: SUTR1707

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SUTR1707 0.00	5.00		201598	5.00	4	0	10	12
SUTR1707 5.00	10.00		201599	5.00	26	0	270	25
SUTR1707 10.00	15.00		201600	5.00	23	0	121	24
SUTR1707 15.00	20.00		201601	5.00	7	0	29	19
SUTR1707 20.00	25.00		201602	5.00	3	0	9	35
SUTR1707 25.00	30.00		201603	5.00	0	0	4	34
SUTR1707 30.00	35.00		201604	5.00	1	0	12	25
SUTR1707 35.00	40.00		201605	5.00	0	0	4	23
SUTR1707 40.00	45.00		201606	5.00	0	0	2	14
SUTR1707 45.00	50.00		201607	5.00	0	0	2	13
SUTR1707 50.00	55.00		201608	5.00	0	0	4	11
SUTR1707 55.00	60.00		201609	5.00	1	0	3	21
SUTR1707 60.00	65.00		201610	5.00	0	0	2	27
SUTR1707 65.00	70.00		201611	5.00	1	0	3	11
SUTR1707 70.00	75.00		201612	5.00	0	0	2	26
SUTR1707 75.00	80.00		201613	5.00	2	0	30	17
SUTR1707 80.00	85.00		201614	5.00	7	0	174	22
SUTR1707 85.00	90.00		201615	5.00	7	0	30	28
SUTR1707 90.00	95.00		201616	5.00	2	0	6	30

# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

**Hole: SUTR1708**

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Hole ID:	<b>SUTR1708</b>	Country:	<b>Canada</b>	Latitude:	<b>63.70198</b>
Hole Type:	<b>Trench</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.750158</b>
Hole Depth:	<b>97</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:		Easting:	<b>611197.83</b>
		Area:		Northing:	<b>7065763.27</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>712.5</b>

## Report Contents:

**Survey**

**Lithology**

**Structure**

**Analyses\_01-05**

**Taku Gold**  
**Sulphur Project**

**TrenchingSU2017 Drill Hole Re**  
**Hole: SUTR1708**

**Survey**

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SUTR1708	0.00	Compass	#####	265	18	
SUTR1708	25.00	Compass	#####	270	16	
SUTR1708	40.00	Compass	#####	266	5	

# Taku Gold

Sulphur Project

## TrenchingSU2017 Drill Hole Re

Hole: SUTR1708

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SUTR1708	0.00	47.30	Gneiss	Siliceous	Biotitic	Foliated	
SUTR1708	47.30	53.00	Gouge	Clayey	Gravely		
SUTR1708	53.00	54.00	VeinQuartz				
SUTR1708	54.00	80.00	Gneiss	Augen	Foliated	Quartz	
SUTR1708	80.00	97.00	SchistChlorite	QuartzEyes	Fragmental		

**Taku Gold**  
**Sulphur Project**

**TrenchingSU2017 Drill Hole Re**  
**Hole: SUTR1708**

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**Structure**

<i>HoleID:</i>	<i>Depth:</i>	<i>Width:</i>	<i>Type:</i>	<i>Mod1:</i>	<i>Dip:</i>	<i>Stike:</i>	<i>Comments:</i>
SUTR1708	88.50		17 CrenulationCleava				



# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

Hole: SUTR1708

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SUTR1708	0.00	5.00	201579	5.00	2	0	27	10
SUTR1708	5.00	10.00	201580	5.00	5	0	14	7
SUTR1708	10.00	15.00	201581	5.00	8	0	9	11
SUTR1708	15.00	20.00	201582	5.00	9	0	14	9
SUTR1708	20.00	25.00	201583	5.00	21	0	28	7
SUTR1708	25.00	30.00	201584	5.00	1	0	15	6
SUTR1708	30.00	35.00	201585	5.00	0	0	13	6
SUTR1708	35.00	40.00	201586	5.00	0	0	7	7
SUTR1708	40.00	45.00	201587	5.00	2	0	3	6
SUTR1708	45.00	50.00	201588	5.00	3	0	5	5
SUTR1708	50.00	55.00	201589	5.00	13	0	68	9
SUTR1708	55.00	60.00	201590	5.00	27	1	383	28
SUTR1708	60.00	65.00	201591	5.00	9	0	198	38
SUTR1708	65.00	70.00	201592	5.00	28	2	480	43
SUTR1708	70.00	75.00	201593	5.00	3	0	37	38
SUTR1708	75.00	80.00	201594	5.00	4	1	16	99
SUTR1708	80.00	85.00	201595	5.00	1	0	6	34
SUTR1708	85.00	90.00	201596	5.00	4	0	61	31
SUTR1708	90.00	97.00	201597	7.00	5	0	110	38

# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

**Hole: SUTR1709**

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Hole ID:	<b>SUTR1709</b>	Country:	<b>Canada</b>	Latitude:	<b>63.703708</b>
Hole Type:	<b>Trench</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.749748</b>
Hole Depth:	<b>86</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:		Easting:	<b>611211.31</b>
		Area:		Northing:	<b>7065956.44</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>737.6</b>

## Report Contents:

**Survey**

**Lithology**

**Structure**

**Analyses\_01-05**

**Taku Gold**  
**Sulphur Project**

**TrenchingSU2017 Drill Hole Re**  
**Hole: SUTR1709**

---

**Survey**

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SUTR1709	0.00	Compass	#####	90	5	

# Taku Gold

Sulphur Project

## TrenchingSU2017 Drill Hole Re

Hole: SUTR1709

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SUTR1709	0.00	6.50	SchistChlorite	Quartz	Fragmental		
SUTR1709	6.50	12.00	Gneiss	Siliceous	Quartz	Biotitic	
SUTR1709	12.00	16.00	SchistChlorite	Fragmental			
SUTR1709	16.00	55.00	Gneiss	Siliceous	Chloritic		
SUTR1709	22.00	22.40	VeinQuartz				
SUTR1709	55.00	69.00	Unknown2	Gravelly	Clayey		
SUTR1709	69.00	86.00	Gneiss	Siliceous	Chloritic		

# Taku Gold

Sulphur Project

TrenchingSU2017 Drill Hole Re

Hole: SUTR1709

---

## Structure

<i>HoleID:</i>	<i>Depth:</i>	<i>Width:</i>	<i>Type:</i>	<i>Mod1:</i>	<i>Dip:</i>	<i>Stike:</i>	<i>Comments:</i>
SUTR1709	3.25	6.5	CrenulationCleava				

# Taku Gold

## Sulphur Project

# TrenchingSU2017 Drill Hole Re

Hole: SUTR1709

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SUTR1709 0.00	5.00		201620	5.00	2	0	3	99
SUTR1709 5.00	10.00		201621	5.00	10	0	5	15
SUTR1709 10.00	15.00		201622	5.00	4	0	4	35
SUTR1709 15.00	20.00		201623	5.00	6	0	10	18
SUTR1709 20.00	25.00		201624	5.00	2	0	4	12
SUTR1709 25.00	30.00		201625	5.00	2	0	3	7
SUTR1709 30.00	35.00		201626	5.00	3	0	3	8
SUTR1709 35.00	40.00		201627	5.00	10	0	12	10
SUTR1709 40.00	45.00		201628	5.00	7	0	6	6
SUTR1709 45.00	50.00		201629	5.00	6	0	4	3
SUTR1709 50.00	55.00		201630	5.00	11	0	5	4
SUTR1709 55.00	60.00		201631	5.00	5	0	7	3
SUTR1709 60.00	65.00		201632	5.00	6	0	18	4
SUTR1709 65.00	70.00		201633	5.00	65	0	64	3
SUTR1709 70.00	75.00		201634	5.00	9	0	19	2
SUTR1709 75.00	80.00		201635	5.00	3	0	16	2
SUTR1709 80.00	86.00		201636	6.00	15	0	36	3

## Appendix C - Drill Logs

# Taku Gold

## Drilling SU 2017 Drill Hole Repo

### Sulphur Project

**Hole: SURC1701**

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Hole ID:	<b>SURC1701</b>	Country:	<b>Canada</b>	Latitude:	<b>63.698333</b>
Hole Type:	<b>Drillhole</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.749288</b>
Hole Depth:	<b>332</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:		Easting:	<b>611255.13</b>
		Area:		Northing:	<b>7065358.59</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>683.7</b>

### Report Contents:

**Survey**

**Lithology**

**Mineralization**

**Analyses\_01-05**



# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: *SURC1701*

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## Survey

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SURC1701	55.00	Compass		251	55	

# Taku Gold

Sulphur Project

## Drilling SU 2017 Drill Hole Repo

Hole: **SURC1701**

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SURC1701	0.00	222.00	Gneiss	Quartz	Augen		RustyOran
SURC1701	222.00	242.00	Quartzite	QuartzVein	Muscovite		Grey
SURC1701	242.00	267.00	Orthogneiss	QuartzVein			RustyOran
SURC1701	247.00	252.00	VeinQuartz				
SURC1701	267.00	332.00	Quartzite	QuartzVein	Muscovite		Blue
SURC1701	297.00	312.00	VeinQuartz				

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: **SURC1701**

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## Mineralization

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Mineralization:</i>	<i>Intensity:</i>	<i>Style:</i>	<i>VeinType:</i>	<i>VeinInt:</i>
SURC1701	297.00	332.00	PY	Trace	Disseminated		

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1701**

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1701	0.00	3.00	204500	3.00	45	1	633	63
SURC1701	3.00	8.00	204501	5.00	105	1	522	50
SURC1701	8.00	13.00	204502	5.00	74	1	642	31
SURC1701	13.00	18.00	204503	5.00	113	1	818	27
SURC1701	18.00	23.00	204504	5.00	206	0	1251	13
SURC1701	23.00	27.00	204505	4.00	41	1	898	23
SURC1701	27.00	32.00	204506	5.00	16	0	466	24
SURC1701	32.00	37.00	204507	5.00	0	0	25	20
SURC1701	37.00	42.00	204508	5.00	0	0	22	21
SURC1701	42.00	47.00	204509	5.00	0	0	20	20
SURC1701	47.00	52.00	204510	5.00	2	0	127	20
SURC1701	52.00	57.00	204511	5.00	11	0	152	20
SURC1701	57.00	62.00	204512	5.00	0	0	41	21
SURC1701	62.00	67.00	204513	5.00	0	0	8	20
SURC1701	67.00	72.00	204514	5.00	1	0	25	20
SURC1701	72.00	77.00	204515	5.00	1	0	74	21
SURC1701	77.00	82.00	204516	5.00	3	0	76	25
SURC1701	82.00	87.00	204517	5.00	0	0	11	22
SURC1701	87.00	92.00	204518	5.00	0	0	14	43
SURC1701	92.00	97.00	204519	5.00	0	0	8	30
SURC1701	97.00	102.00	204520	5.00	1	0	72	33
SURC1701	102.00	107.00	204521	5.00	22	0	328	22
SURC1701	107.00	112.00	204522	5.00	1	0	24	29
SURC1701	112.00	117.00	204523	5.00	0	0	6	28
SURC1701	117.00	122.00	204524	5.00	0	0	10	32
SURC1701	122.00	127.00	204525	5.00	0	0	6	30
SURC1701	127.00	132.00	204526	5.00	0	0	4	31
SURC1701	132.00	137.00	204527	5.00	0	0	8	33
SURC1701	137.00	142.00	204528	5.00	0	0	37	31
SURC1701	142.00	147.00	204529	5.00	0	0	17	26
SURC1701	147.00	152.00	204530	5.00	0	0	33	28
SURC1701	152.00	157.00	204531	5.00	0	0	23	29
SURC1701	157.00	162.00	204532	5.00	0	1	21	43
SURC1701	162.00	167.00	204533	5.00	2	0	20	49
SURC1701	167.00	172.00	204534	5.00	1	0	16	50
SURC1701	172.00	177.00	204535	5.00	0	0	23	28
SURC1701	177.00	182.00	204536	5.00	1	0	26	28
SURC1701	182.00	187.00	204537	5.00	2	0	8	20
SURC1701	187.00	192.00	204538	5.00	0	0	9	17
SURC1701	192.00	197.00	204539	5.00	0	0	6	20
SURC1701	197.00	202.00	204540	5.00	6	0	32	18
SURC1701	202.00	207.00	204541	5.00	4	1	20	21
SURC1701	207.00	212.00	204542	5.00	1	1	28	21

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1701**

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1701	212.00	217.00	204543	5.00	0	0	11	26
SURC1701	217.00	222.00	204544	5.00	0	0	10	17
SURC1701	222.00	227.00	204545	5.00	0	0	3	10
SURC1701	227.00	232.00	204546	5.00	0	0	1	3
SURC1701	232.00	237.00	204547	5.00	0	0	1	3
SURC1701	237.00	242.00	204548	5.00	2	0	8	8
SURC1701	242.00	247.00	204549	5.00	1	0	6	15
SURC1701	247.00	252.00	204550	5.00	0	0	9	15
SURC1701	252.00	257.00	204551	5.00	1	0	7	12
SURC1701	257.00	262.00	204552	5.00	0	0	6	14
SURC1701	262.00	267.00	204553	5.00	6	0	27	15
SURC1701	267.00	272.00	204554	5.00	3	0	6	8
SURC1701	272.00	277.00	204555	5.00	1	0	6	7
SURC1701	277.00	282.00	204556	5.00	2	0	3	4
SURC1701	282.00	287.00	204557	5.00	8	0	6	5
SURC1701	287.00	292.00	204558	5.00	7	0	7	5
SURC1701	292.00	297.00	204559	5.00	3	0	29	16
SURC1701	297.00	302.00	204561	5.00	25	0	19	9
SURC1701	302.00	307.00	204562	5.00	11	0	12	12
SURC1701	307.00	312.00	204563	5.00	3	0	9	18
SURC1701	312.00	317.00	204564	5.00	8	0	11	10
SURC1701	317.00	321.00	204565	4.00	15	0	15	5
SURC1701	321.00	327.00	204566	6.00	8	0	10	7
SURC1701	327.00	332.00	204567	5.00	5	0	8	5

# Taku Gold

## Drilling SU 2017 Drill Hole Repo

### Sulphur Project

**Hole: SURC1702**

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Hole ID:	<b>SURC1702</b>	Country:	<b>Canada</b>	Latitude:	<b>63.699175</b>
Hole Type:	<b>Drillhole</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.750772</b>
Hole Depth:	<b>332</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:	<b>SulphurEast</b>	Easting:	<b>611178.50</b>
		Area:		Northing:	<b>7065449.79</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>698.2</b>

### Report Contents:

**Survey**

**Lithology**

**Mineralization**

**Analyses\_01-05**

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: SURC1702

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## Survey

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SURC1702	0.00	Compass	#####	270	55	

# Taku Gold

Sulphur Project

## Drilling SU 2017 Drill Hole Repo

Hole: SURC1702

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SURC1702	0.00	27.00	Gneiss				RustyOran
SURC1702	27.00	52.00	Phyllite				Grey
SURC1702	52.00	187.00	Gneiss	Quartz			RustyOran
SURC1702	72.00	77.00	VeinQuartz				White
SURC1702	187.00	282.00	Schist	Chloritic	Quartz		Grey
SURC1702	222.00	232.00	VeinQuartz				White
SURC1702	282.00	332.00	Phyllite	Quartz			Black



# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: *SURC1702*

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Mineralization

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1702**

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1702	0.00	3.00	204568	3.00	1	0	6	34
SURC1702	3.00	8.00	204569	5.00	2	0	51	29
SURC1702	8.00	13.00	204571	5.00	8	0	76	23
SURC1702	13.00	18.00	204572	5.00	0	0	30	29
SURC1702	18.00	22.00	204573	4.00	0	0	4	24
SURC1702	22.00	27.00	204574	5.00	0	0	7	18
SURC1702	27.00	32.00	204575	5.00	5	0	7	16
SURC1702	32.00	37.00	204576	5.00	9	0	59	18
SURC1702	37.00	42.00	204577	5.00	3	0	15	22
SURC1702	42.00	47.00	204578	5.00	2	0	6	23
SURC1702	47.00	52.00	204579	5.00	0	0	12	21
SURC1702	52.00	57.00	204581	5.00	7	1	47	56
SURC1702	57.00	62.00	204582	5.00	0	0	5	54
SURC1702	62.00	67.00	204583	5.00	2	1	135	107
SURC1702	67.00	72.00	204584	5.00	5	0	121	23
SURC1702	72.00	77.00	204585	5.00	13	0	159	24
SURC1702	77.00	82.00	204586	5.00	12	1	171	28
SURC1702	82.00	87.00	204587	5.00	40	1	539	31
SURC1702	87.00	92.00	204588	5.00	37	0	289	27
SURC1702	92.00	97.00	204589	5.00	8	0	76	26
SURC1702	97.00	102.00	204590	5.00	17	0	149	22
SURC1702	102.00	107.00	204591	5.00	4	0	55	13
SURC1702	107.00	112.00	204592	5.00	0	0	12	10
SURC1702	112.00	117.00	204593	5.00	1	0	8	18
SURC1702	117.00	122.00	204594	5.00	0	0	26	15
SURC1702	122.00	127.00	204595	5.00	0	0	9	16
SURC1702	127.00	132.00	204596	5.00	0	0	4	16
SURC1702	132.00	137.00	204597	5.00	0	0	6	15
SURC1702	137.00	142.00	204598	5.00	0	0	2	21
SURC1702	142.00	147.00	204599	5.00	3	0	4	23
SURC1702	147.00	152.00	204601	5.00	2	0	9	22
SURC1702	152.00	157.00	204602	5.00	1	0	3	23
SURC1702	157.00	162.00	204603	5.00	9	0	40	15
SURC1702	162.00	167.00	204604	5.00	2	0	41	15
SURC1702	167.00	172.00	204605	5.00	26	0	366	21
SURC1702	172.00	177.00	204606	5.00	17	0	226	15
SURC1702	177.00	182.00	204607	5.00	8	0	165	19
SURC1702	182.00	187.00	204608	5.00	4	0	29	19
SURC1702	187.00	192.00	204609	5.00	4	0	40	22
SURC1702	192.00	197.00	204611	5.00	9	0	71	15
SURC1702	197.00	202.00	204612	5.00	1	0	8	23
SURC1702	202.00	207.00	204613	5.00	2	0	16	22
SURC1702	207.00	212.00	204614	5.00	2	0	6	19

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1702**

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1702	212.00	217.00	204615	5.00	2	0	22	18
SURC1702	217.00	222.00	204616	5.00	2	0	4	21
SURC1702	222.00	227.00	204617	5.00	2	0	7	21
SURC1702	227.00	232.00	204618	5.00	1	0	5	21
SURC1702	232.00	237.00	204619	5.00	2	0	3	25
SURC1702	237.00	242.00	204621	5.00	1	0	7	18
SURC1702	242.00	247.00	204622	5.00	1	0	5	24
SURC1702	247.00	252.00	204623	5.00	1	0	10	28
SURC1702	252.00	257.00	204624	5.00	1	0	4	21
SURC1702	257.00	262.00	204625	5.00	2	0	5	25
SURC1702	262.00	267.00	204626	5.00	2	1	6	31
SURC1702	267.00	272.00	204627	5.00	1	0	3	27
SURC1702	272.00	277.00	204628	5.00	1	0	2	26
SURC1702	277.00	282.00	204629	5.00	1	0	5	28
SURC1702	282.00	287.00	204630	5.00	2	0	4	26
SURC1702	287.00	292.00	204631	5.00	0	0	8	23
SURC1702	292.00	297.00	204632	5.00	2	0	9	21
SURC1702	297.00	302.00	204633	5.00	1	0	15	24
SURC1702	302.00	307.00	204634	5.00	1	1	3	38
SURC1702	307.00	312.00	204635	5.00	0	0	5	34
SURC1702	312.00	317.00	204636	5.00	0	0	3	34
SURC1702	317.00	322.00	204637	5.00	0	0	2	32
SURC1702	322.00	327.00	204638	5.00	0	0	2	30
SURC1702	327.00	332.00	204639	5.00	0	0	2	33

# Taku Gold

## Drilling SU 2017 Drill Hole Repo

### Sulphur Project

**Hole: SURC1703**

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Hole ID:	<b>SURC1703</b>	Country:	<b>Canada</b>	Latitude:	<b>63.700077</b>
Hole Type:	<b>Drillhole</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.750668</b>
Hole Depth:	<b>332</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:		Easting:	<b>611180.10</b>
		Area:		Northing:	<b>7065550.43</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>734.4</b>

### Report Contents:

**Survey**

**Lithology**

**Mineralization**

**Analyses\_01-05**

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: **SURC1703**

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## Survey

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SURC1703	0.00	Compass		272	55	

# Taku Gold

Sulphur Project

## Drilling SU 2017 Drill Hole Repo

Hole: **SURC1703**

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SURC1703	0.00	167.00	Gneiss	Quartz			RustyOran
SURC1703	167.00	237.00	SchistMuscovite	Quartz			
SURC1703	237.00	272.00	Phyllite				
SURC1703	272.00	327.00	Gneiss	Quartz	Biotitic	Muscovite	RustyOran
SURC1703	327.00	332.00	Phyllite				Blue

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: *SURC1703*

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Mineralization

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1703**

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1703 0.00	3.00		204641	3.00	2	0	85	35
SURC1703 3.00	8.00		204642	5.00	2	0	80	36
SURC1703 8.00	13.00		204643	5.00	0	0	13	39
SURC1703 13.00	18.00		204644	5.00	2	0	62	38
SURC1703 18.00	22.00		204645	4.00	89	1	489	24
SURC1703 22.00	27.00		204646	5.00	4	0	75	27
SURC1703 27.00	32.00		204647	5.00	3	0	55	27
SURC1703 32.00	37.00		204648	5.00	0	0	37	30
SURC1703 37.00	42.00		204649	5.00	14	1	85	40
SURC1703 42.00	47.00		204651	5.00	8	0	143	39
SURC1703 47.00	52.00		204652	5.00	31	1	553	27
SURC1703 52.00	57.00		204653	5.00	15	0	320	22
SURC1703 57.00	62.00		204654	5.00	14	0	257	28
SURC1703 62.00	67.00		204655	5.00	13	0	305	28
SURC1703 67.00	72.00		204656	5.00	1	0	57	26
SURC1703 72.00	77.00		204657	5.00	22	0	291	26
SURC1703 77.00	82.00		204658	5.00	56	1	974	27
SURC1703 82.00	87.00		204659	5.00	6	0	166	25
SURC1703 87.00	92.00		204661	5.00	18	0	343	24
SURC1703 92.00	97.00		204662	5.00	5	0	94	22
SURC1703 97.00	102.00		204663	5.00	1	0	9	23
SURC1703 102.00	107.00		204664	5.00	0	0	27	24
SURC1703 107.00	112.00		204665	5.00	0	0	16	23
SURC1703 112.00	117.00		204666	5.00	0	0	11	22
SURC1703 117.00	122.00		204667	5.00	6	1	121	21
SURC1703 122.00	127.00		204668	5.00	13	0	286	23
SURC1703 127.00	132.00		204669	5.00	3	0	27	21
SURC1703 132.00	137.00		204670	5.00	1	0	20	23
SURC1703 137.00	142.00		204671	5.00	1	0	6	23
SURC1703 142.00	147.00		204672	5.00	9	0	155	27
SURC1703 147.00	152.00		204673	5.00	12	0	118	23
SURC1703 152.00	157.00		204674	5.00	13	0	127	22
SURC1703 157.00	162.00		204675	5.00	24	1	335	21
SURC1703 162.00	167.00		204676	5.00	22	1	342	21
SURC1703 167.00	172.00		204677	5.00	2	0	37	21
SURC1703 172.00	177.00		204678	5.00	5	0	110	26
SURC1703 177.00	182.00		204679	5.00	3	1	20	107
SURC1703 182.00	187.00		204681	5.00	1	1	19	62
SURC1703 187.00	192.00		204682	5.00	1	0	16	30
SURC1703 192.00	197.00		204683	5.00	1	0	4	20
SURC1703 197.00	202.00		204684	5.00	1	0	3	21
SURC1703 202.00	207.00		204685	5.00	0	0	3	24
SURC1703 207.00	212.00		204686	5.00	0	0	18	37



# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1703**

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1703	212.00	217.00	204687	5.00	0	0	39	43
SURC1703	217.00	222.00	204688	5.00	1	1	18	49
SURC1703	222.00	227.00	204689	5.00	0	0	6	32
SURC1703	227.00	232.00	204691	5.00	3	0	76	26
SURC1703	232.00	237.00	204692	5.00	0	0	15	14
SURC1703	237.00	242.00	204693	5.00	0	0	3	18
SURC1703	242.00	247.00	204694	5.00	0	0	2	20
SURC1703	247.00	252.00	204695	5.00	1	0	1	19
SURC1703	252.00	257.00	204696	5.00	0	0	2	17
SURC1703	257.00	262.00	204697	5.00	0	0	1	17
SURC1703	262.00	267.00	204698	5.00	0	0	2	29
SURC1703	267.00	272.00	204699	5.00	0	0	1	36
SURC1703	272.00	277.00	204700	5.00	0	1	3	38
SURC1703	277.00	282.00	204701	5.00	1	1	8	66
SURC1703	282.00	287.00	204702	5.00	1	1	16	51
SURC1703	287.00	292.00	204703	5.00	5	2	46	43
SURC1703	292.00	297.00	204704	5.00	8	0	124	34
SURC1703	297.00	302.00	204705	5.00	2	0	18	28
SURC1703	302.00	307.00	204706	5.00	1	1	12	64
SURC1703	307.00	312.00	204707	5.00	1	1	8	57
SURC1703	312.00	317.00	204708	5.00	16	0	180	38
SURC1703	317.00	322.00	204709	5.00	1	1	12	31
SURC1703	322.00	327.00	204710	5.00	6	1	54	45
SURC1703	327.00	332.00	204711	5.00	17	0	131	27

# Taku Gold

## Drilling SU 2017 Drill Hole Repo

### Sulphur Project

**Hole: SURC1704**

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Hole ID:	<b>SURC1704</b>	Country:	<b>Canada</b>	Latitude:	<b>63.70104</b>
Hole Type:	<b>Drillhole</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.751117</b>
Hole Depth:	<b>332</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:	<b>SulphurEast</b>	Easting:	<b>611154.13</b>
		Area:		Northing:	<b>7065656.90</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>712.2</b>

### Report Contents:

**Survey**

**Lithology**

**Mineralization**

**Analyses\_01-05**

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: **SURC1704**

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## Survey

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SURC1704	0.00	Compass	#####	270	55	

# Taku Gold

## Sulphur Project

## Drilling SU 2017 Drill Hole Repo

Hole: **SURC1704**

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SURC1704	0.00	18.00	Gneiss	Quartz			RustyOran
SURC1704	18.00	42.00	SchistChlorite	Quartz			Grey
SURC1704	42.00	137.00	Gneiss	Quartz			RustyOran
SURC1704	47.00	57.00	VeinQuartz				White
SURC1704	137.00	152.00	SchistChlorite				
SURC1704	152.00	202.00	Gneiss	Quartz			RustyOran
SURC1704	202.00	232.00	Phyllite				Black
SURC1704	232.00	247.00	Gneiss	Quartz			RustyOran
SURC1704	247.00	332.00	Quartzite	Muscovite	Quartz	Biotitic	

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: *SURC1704*

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Mineralization

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1704**

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1704	0.00	3.00	204712	3.00	2	0	47	32
SURC1704	3.00	8.00	204713	5.00	69	1	625	27
SURC1704	8.00	13.00	204714	5.00	2	0	86	25
SURC1704	13.00	18.00	204715	5.00	19	1	139	24
SURC1704	18.00	22.00	204716	4.00	4	1	36	37
SURC1704	22.00	27.00	204717	5.00	1	0	7	34
SURC1704	27.00	32.00	204718	5.00	0	0	3	32
SURC1704	32.00	37.00	204719	5.00	0	0	5	23
SURC1704	37.00	42.00	204721	5.00	0	0	7	24
SURC1704	42.00	47.00	204722	5.00	0	0	4	21
SURC1704	47.00	52.00	204723	5.00	1	0	51	23
SURC1704	52.00	57.00	204724	5.00	1	0	43	16
SURC1704	57.00	62.00	204725	5.00	6	0	93	17
SURC1704	62.00	67.00	204726	5.00	1	0	40	23
SURC1704	67.00	72.00	204727	5.00	0	0	15	25
SURC1704	72.00	77.00	204728	5.00	1	0	7	23
SURC1704	77.00	82.00	204729	5.00	2	0	128	24
SURC1704	82.00	87.00	204731	5.00	179	1	989	23
SURC1704	87.00	92.00	204732	5.00	29	1	604	31
SURC1704	92.00	97.00	204733	5.00	4	0	43	73
SURC1704	97.00	102.00	204734	5.00	2	1	45	59
SURC1704	102.00	107.00	204735	5.00	2	0	45	27
SURC1704	107.00	112.00	204736	5.00	1	0	9	23
SURC1704	112.00	117.00	204737	5.00	2	0	6	21
SURC1704	117.00	122.00	204738	5.00	4	0	5	27
SURC1704	122.00	127.00	204739	5.00	3	1	6	64
SURC1704	127.00	132.00	204741	5.00	58	1	507	32
SURC1704	132.00	137.00	204742	5.00	8	1	139	97
SURC1704	137.00	142.00	204743	5.00	4	0	14	35
SURC1704	142.00	147.00	204744	5.00	4	2	22	136
SURC1704	147.00	152.00	204745	5.00	2	0	4	25
SURC1704	152.00	157.00	204746	5.00	2	0	38	27
SURC1704	157.00	162.00	204747	5.00	1	0	5	30
SURC1704	162.00	167.00	204748	5.00	4	0	44	27
SURC1704	167.00	172.00	204749	5.00	3	0	50	25
SURC1704	172.00	177.00	204750	5.00	1	0	25	29
SURC1704	177.00	182.00	204751	5.00	11	0	323	27
SURC1704	182.00	187.00	204752	5.00	5	1	172	80
SURC1704	187.00	192.00	204753	5.00	1	0	21	29
SURC1704	192.00	197.00	204754	5.00	0	0	5	22
SURC1704	197.00	202.00	204755	5.00	0	0	4	13
SURC1704	202.00	207.00	204756	5.00	2	0	3	24
SURC1704	207.00	212.00	204757	5.00	2	0	2	20

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1704**

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1704	212.00	217.00	204758	5.00	1	0	48	18
SURC1704	217.00	222.00	204759	5.00	1	0	19	18
SURC1704	222.00	227.00	204761	5.00	3	0	97	18
SURC1704	227.00	232.00	204762	5.00	25	0	340	22
SURC1704	232.00	237.00	204763	5.00	185	14	2552	103
SURC1704	237.00	242.00	204764	5.00	70	3	714	78
SURC1704	242.00	247.00	204765	5.00	80	2	456	66
SURC1704	247.00	252.00	204766	5.00	9	0	49	10
SURC1704	252.00	257.00	204767	5.00	20	0	34	4
SURC1704	257.00	262.00	204768	5.00	13	0	21	4
SURC1704	262.00	267.00	204769	5.00	72	0	46	3
SURC1704	267.00	272.00	204771	5.00	18	0	12	2
SURC1704	272.00	277.00	204772	5.00	13	0	14	4
SURC1704	277.00	282.00	204773	5.00	4	0	8	4
SURC1704	282.00	287.00	204774	5.00	2	0	4	3
SURC1704	287.00	292.00	204775	5.00	3	0	6	4
SURC1704	292.00	297.00	204776	5.00	1	0	4	3
SURC1704	297.00	302.00	204777	5.00	11	1	9	17
SURC1704	302.00	307.00	204778	5.00	5	0	5	7
SURC1704	307.00	312.00	204779	5.00	0	0	2	5
SURC1704	312.00	317.00	204781	5.00	1	0	1	3
SURC1704	317.00	323.00	204782	6.00	1	0	2	3
SURC1704	323.00	327.00	204783	4.00	7	0	6	5
SURC1704	327.00	332.00	204784	5.00	13	0	9	4

# Taku Gold

## Drilling SU 2017 Drill Hole Repo

### Sulphur Project

**Hole: SURC1705**

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Hole ID:	<b>SURC1705</b>	Country:	<b>Canada</b>	Latitude:	<b>63.70187</b>
Hole Type:	<b>Drillhole</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.75076</b>
Hole Depth:	<b>332</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:	<b>SulphurEast</b>	Easting:	<b>611168.52</b>
		Area:		Northing:	<b>7065749.97</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>716.7</b>

### Report Contents:

**Survey**

**Lithology**

**Mineralization**

**Analyses\_01-05**



# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: **SURC1705**

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## Survey

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SURC1705	0.00	Compass		268	55	

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: **SURC1705**

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## Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SURC1705	0.00	52.00	Quartzite				Grey
SURC1705	52.00	187.00	Gneiss	Quartz			RustyOran
SURC1705	187.00	332.00	Quartzite	Quartz			Grey

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

*Hole: SURC1705*

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Mineralization

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1705**

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1705	0.00	3.00	204785	3.00	8	0	24	3
SURC1705	3.00	8.00	204786	5.00	25	0	27	3
SURC1705	8.00	13.00	204787	5.00	18	0	25	3
SURC1705	13.00	18.00	204788	5.00	2	0	4	3
SURC1705	18.00	22.00	204789	4.00	7	0	5	3
SURC1705	22.00	27.00	204790	5.00	13	0	12	2
SURC1705	27.00	32.00	204791	5.00	33	0	33	3
SURC1705	32.00	37.00	204792	5.00	11	0	12	3
SURC1705	37.00	42.00	204793	5.00	29	0	32	3
SURC1705	42.00	47.00	204794	5.00	18	0	23	3
SURC1705	47.00	52.00	204795	5.00	23	0	24	4
SURC1705	52.00	57.00	204796	5.00	64	0	66	3
SURC1705	57.00	62.00	204797	5.00	62	0	112	4
SURC1705	62.00	67.00	204798	5.00	7	0	15	4
SURC1705	67.00	72.00	204799	5.00	6	0	7	5
SURC1705	72.00	77.00	204801	5.00	6	0	7	2
SURC1705	77.00	82.00	204802	5.00	34	0	43	2
SURC1705	82.00	87.00	204803	5.00	87	0	96	3
SURC1705	87.00	92.00	204804	5.00	73	0	89	4
SURC1705	92.00	97.00	204805	5.00	56	0	34	3
SURC1705	97.00	102.00	204806	5.00	18	0	15	2
SURC1705	102.00	107.00	204807	5.00	78	0	99	3
SURC1705	107.00	112.00	204808	5.00	16	0	23	2
SURC1705	112.00	117.00	204809	5.00	23	0	16	1
SURC1705	117.00	122.00	204811	5.00	91	0	126	2
SURC1705	122.00	127.00	204812	5.00	42	0	33	2
SURC1705	127.00	132.00	204813	5.00	6	0	5	2
SURC1705	132.00	137.00	204814	5.00	11	0	13	5
SURC1705	137.00	142.00	204815	5.00	6	0	9	3
SURC1705	142.00	147.00	204816	5.00	56	0	31	4
SURC1705	147.00	152.00	204817	5.00	20	0	15	7
SURC1705	152.00	157.00	204818	5.00	42	1	28	15
SURC1705	157.00	162.00	204819	5.00	40	0	38	5
SURC1705	162.00	167.00	204821	5.00	23	0	26	2
SURC1705	167.00	172.00	204822	5.00	42	0	32	2
SURC1705	172.00	177.00	204823	5.00	49	0	44	3
SURC1705	177.00	182.00	204824	5.00	19	0	13	3
SURC1705	182.00	187.00	204825	5.00	50	0	39	2
SURC1705	187.00	192.00	204826	5.00	102	0	106	4
SURC1705	192.00	197.00	204827	5.00	17	0	13	3
SURC1705	197.00	202.00	204828	5.00	38	0	30	2
SURC1705	202.00	207.00	204829	5.00	14	0	13	2
SURC1705	207.00	212.00	204830	5.00	16	0	14	1

# Taku Gold

## Sulphur Project

## Drilling SU 2017 Drill Hole Repo

Hole: **SURC1705**

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1705 212.00	217.00	204831	5.00	24	0	14	2	
SURC1705 217.00	222.00	204832	5.00	128	0	113	3	
SURC1705 222.00	227.00	204833	5.00	76	0	118	2	
SURC1705 227.00	232.00	204834	5.00	41	0	30	3	
SURC1705 232.00	237.00	204835	5.00	70	0	36	3	
SURC1705 237.00	242.00	204836	5.00	223	0	119	3	
SURC1705 242.00	247.00	204837	5.00	99	0	104	2	
SURC1705 247.00	252.00	204838	5.00	47	0	48	3	
SURC1705 252.00	257.00	204839	5.00	101	0	145	2	
SURC1705 257.00	262.00	204841	5.00	95	0	142	4	
SURC1705 262.00	267.00	204842	5.00	9	0	15	3	
SURC1705 267.00	272.00	204843	5.00	3	0	38	3	
SURC1705 272.00	277.00	204844	5.00	84	0	277	5	
SURC1705 277.00	282.00	204845	5.00	76	0	194	3	
SURC1705 282.00	287.00	204846	5.00	2	0	14	16	
SURC1705 287.00	292.00	204847	5.00	14	0	18	8	
SURC1705 292.00	297.00	204848	5.00	18	0	20	3	
SURC1705 297.00	302.00	204849	5.00	14	0	34	3	
SURC1705 302.00	307.00	204851	5.00	21	0	32	4	
SURC1705 307.00	312.00	204852	5.00	39	0	40	2	
SURC1705 312.00	317.00	204853	5.00	104	0	117	3	
SURC1705 317.00	322.00	204854	5.00	121	1	172	5	
SURC1705 322.00	327.00	204855	5.00	12	0	29	5	
SURC1705 327.00	332.00	204856	5.00	2	0	14	4	

# Taku Gold

## Drilling SU 2017 Drill Hole Repo

### Sulphur Project

**Hole: SURC1706**

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Hole ID:	<b>SURC1706</b>	Country:	<b>Canada</b>	Latitude:	<b>63.702778</b>
Hole Type:	<b>Drillhole</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.750163</b>
Hole Depth:	<b>332</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:	<b>SulphurEast</b>	Easting:	<b>611194.45</b>
		Area:		Northing:	<b>7065852.14</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>736.8</b>

### Report Contents:

**Survey**

**Lithology**

**Mineralization**

**Analyses\_01-05**

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: SURC1706

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## Survey

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SURC1706	0.00	Compass	#####	260	55	

# Taku Gold

## Sulphur Project

## Drilling SU 2017 Drill Hole Repo

Hole: **SURC1706**

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SURC1706	0.00	13.00	Quartzite	Biotitic			
SURC1706	13.00	72.00	Schist	Quartz	Veined	Chloritic	RustyOran
SURC1706	22.00	37.00	VeinQuartz				
SURC1706	52.00	57.00	Quartzite	Muscovite			Grey
SURC1706	72.00	112.00	Quartzite	Muscovite	Biotitic		
SURC1706	112.00	147.00	Gneiss	Quartz			RustyOran
SURC1706	147.00	162.00	Gouge	Quartz			
SURC1706	162.00	317.00	Quartzite	Muscovite			
SURC1706	317.00	332.00	Phyllite				Black



# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: *SURC1706*

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Mineralization

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1706**

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1706	0.00	3.00	204857	3.00	16	0	14	5
SURC1706	3.00	8.00	204858	5.00	19	0	10	8
SURC1706	8.00	13.00	204859	5.00	24	0	16	8
SURC1706	13.00	18.00	204861	5.00	35	0	27	12
SURC1706	18.00	22.00	204862	4.00	7	0	7	8
SURC1706	22.00	27.00	204863	5.00	8	0	12	9
SURC1706	27.00	32.00	204864	5.00	9	0	21	17
SURC1706	32.00	37.00	204865	5.00	5	1	15	32
SURC1706	37.00	42.00	204866	5.00	13	1	18	63
SURC1706	42.00	47.00	204867	5.00	7	1	4	57
SURC1706	47.00	52.00	204868	5.00	65	2	74	71
SURC1706	52.00	57.00	204869	5.00	19	0	13	3
SURC1706	57.00	62.00	204871	5.00	39	4	57	42
SURC1706	62.00	67.00	204872	5.00	23	1	28	29
SURC1706	67.00	72.00	204873	5.00	9	1	12	55
SURC1706	72.00	77.00	204874	5.00	33	0	29	11
SURC1706	77.00	82.00	204875	5.00	41	1	37	11
SURC1706	82.00	87.00	204876	5.00	22	0	20	8
SURC1706	87.00	92.00	204877	5.00	90	1	53	10
SURC1706	92.00	97.00	204878	5.00	49	1	34	8
SURC1706	97.00	102.00	204879	5.00	36	1	26	10
SURC1706	102.00	107.00	204881	5.00	4	0	4	9
SURC1706	107.00	112.00	204882	5.00	3	0	3	5
SURC1706	112.00	117.00	204883	5.00	5	0	2	20
SURC1706	117.00	122.00	204884	5.00	4	0	2	31
SURC1706	122.00	127.00	204885	5.00	7	0	3	37
SURC1706	127.00	132.00	204886	5.00	3	0	3	15
SURC1706	132.00	137.00	204887	5.00	13	0	9	19
SURC1706	137.00	142.00	204888	5.00	8	0	5	20
SURC1706	142.00	147.00	204889	5.00	17	0	11	91
SURC1706	147.00	152.00	204890	5.00	47	0	25	33
SURC1706	152.00	157.00	204891	5.00	91	0	55	11
SURC1706	157.00	162.00	204892	5.00	73	0	38	3
SURC1706	162.00	167.00	204893	5.00	13	0	7	5
SURC1706	167.00	172.00	204894	5.00	41	0	47	4
SURC1706	172.00	177.00	204895	5.00	24	0	59	4
SURC1706	177.00	182.00	204896	5.00	65	0	92	3
SURC1706	182.00	187.00	204897	5.00	37	0	49	4
SURC1706	187.00	192.00	204898	5.00	34	0	24	5
SURC1706	192.00	197.00	204899	5.00	74	0	106	5
SURC1706	197.00	202.00	204901	5.00	146	0	212	3
SURC1706	202.00	207.00	204902	5.00	67	0	106	3
SURC1706	207.00	212.00	204903	5.00	207	0	426	3

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1706**

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1706	212.00	217.00	204904	5.00	228	0	430	2
SURC1706	217.00	222.00	204905	5.00	114	0	275	3
SURC1706	222.00	227.00	204906	5.00	60	0	101	4
SURC1706	227.00	232.00	204907	5.00	112	0	271	6
SURC1706	232.00	237.00	204908	5.00	147	0	408	4
SURC1706	237.00	242.00	204909	5.00	68	0	167	3
SURC1706	242.00	247.00	204911	5.00	137	0	295	3
SURC1706	247.00	252.00	204913	5.00	78	0	188	4
SURC1706	252.00	257.00	204914	5.00	21	0	41	4
SURC1706	257.00	262.00	204915	5.00	39	0	91	5
SURC1706	262.00	267.00	204916	5.00	66	0	159	3
SURC1706	267.00	272.00	204917	5.00	102	0	193	3
SURC1706	272.00	277.00	204918	5.00	90	0	199	2
SURC1706	277.00	282.00	204919	5.00	84	0	180	3
SURC1706	282.00	287.00	204920	5.00	228	1	511	3
SURC1706	287.00	292.00	204921	5.00	45	0	73	3
SURC1706	292.00	297.00	204922	5.00	63	0	98	3
SURC1706	297.00	302.00	204923	5.00	100	0	98	2
SURC1706	302.00	307.00	204924	5.00	61	0	63	3
SURC1706	307.00	312.00	204925	5.00	45	0	49	3
SURC1706	312.00	317.00	204926	5.00	53	1	49	8
SURC1706	317.00	322.00	204927	5.00	39	0	35	10
SURC1706	322.00	327.00	204928	5.00	24	0	16	12
SURC1706	327.00	332.00	204929	5.00	4	0	3	21

# Taku Gold

## Drilling SU 2017 Drill Hole Repo

### Sulphur Project

**Hole: SURC1707**

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Hole ID:	<b>SURC1707</b>	Country:	<b>Canada</b>	Latitude:	<b>63.703723</b>
Hole Type:	<b>Drillhole</b>	State/Prov:	<b>Yukon</b>	Longitude:	<b>-138.749753</b>
Hole Depth:	<b>332</b>	Project:	<b>Sulphur</b>	LatLong Datum:	<b>LL_WGS84</b>
Logged By:	<b>MartyHuber</b>	Prospect:	<b>SulphurEast</b>	Easting:	<b>611211.00</b>
		Area:		Northing:	<b>7065958.10</b>
				Projection	<b>UTMZ7N_WGS84</b>
				Elevation:	<b>742.6</b>

### Report Contents:

**Survey**

**Lithology**

**Mineralization**

**Analyses\_01-05**

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: *SURC1707*

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## Survey

<i>HoleID</i>	<i>Depth</i>	<i>Method</i>	<i>Date</i>	<i>AzimTN</i>	<i>Dip</i>	<i>Comments</i>
SURC1707	0.00	Compass		271	55	

# Taku Gold

## Sulphur Project

## Drilling SU 2017 Drill Hole Repo

Hole: **SURC1707**

### Lithology

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Lithology:</i>	<i>Mod1:</i>	<i>Mod2:</i>	<i>Mod3:</i>	<i>Color:</i>
SURC1707	0.00	62.00	SchistChlorite	Quartz	Muscovite		
SURC1707	62.00	107.00	Gneiss	Quartz			
SURC1707	107.00	152.00	Phyllite	Quartz			Black
SURC1707	152.00	167.00	Quartzite	Quartz			
SURC1707	167.00	192.00	Phyllite	Quartz			Black
SURC1707	192.00	217.00	Quartzite	Quartz			
SURC1707	217.00	252.00	Phyllite	Quartz			Black
SURC1707	252.00	327.00	Quartzite	Quartz	Siliceous	Porphyritic	Green
SURC1707	327.00	332.00	Phyllite	Quartz			Black

# Taku Gold

Sulphur Project

Drilling SU 2017 Drill Hole Repo

Hole: **SURC1707**

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## Mineralization

<i>HoleID:</i>	<i>From:</i>	<i>To:</i>	<i>Mineralization:</i>	<i>Intensity:</i>	<i>Style:</i>	<i>VeinType:</i>	<i>VeinInt:</i>
SURC1707	242.00	252.00	PY	Moderate	Disseminated		
SURC1707	327.00	332.00	PY	Trace	Disseminated		

# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1707**

### Analyses\_01-05

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1707 0.00	3.00		204930	3.00	11	1	6	127
SURC1707 3.00	8.00		204931	5.00	3	0	5	62
SURC1707 8.00	13.00		204932	5.00	4	0	4	7
SURC1707 13.00	18.00		204933	5.00	4	0	6	3
SURC1707 18.00	22.00		204934	4.00	4	0	5	11
SURC1707 22.00	27.00		204935	5.00	2	0	3	3
SURC1707 27.00	32.00		204936	5.00	4	0	4	5
SURC1707 32.00	37.00		204938	5.00	2	0	1	10
SURC1707 37.00	42.00		204939	5.00	0	0	1	8
SURC1707 42.00	47.00		204940	5.00	7	0	7	4
SURC1707 47.00	52.00		204941	5.00	0	0	0	2
SURC1707 52.00	57.00		204942	5.00	1	0	2	21
SURC1707 57.00	62.00		204943	5.00	2	0	3	4
SURC1707 62.00	67.00		204944	5.00	41	0	18	10
SURC1707 67.00	72.00		204946	5.00	10	0	8	13
SURC1707 72.00	77.00		204947	5.00	3	0	4	11
SURC1707 77.00	82.00		204948	5.00	1	0	2	10
SURC1707 82.00	87.00		204949	5.00	0	0	1	5
SURC1707 87.00	92.00		204951	5.00	0	0	1	2
SURC1707 92.00	97.00		204952	5.00	1	0	0	6
SURC1707 97.00	102.00		204953	5.00	3	0	2	21
SURC1707 102.00	107.00		204954	5.00	23	0	12	15
SURC1707 107.00	112.00		204955	5.00	0	0	0	5
SURC1707 112.00	117.00		204956	5.00	1	0	0	18
SURC1707 117.00	122.00		204957	5.00	0	0	1	19
SURC1707 122.00	127.00		204958	5.00	2	0	3	27
SURC1707 127.00	132.00		204959	5.00	15	0	8	51
SURC1707 132.00	137.00		204960	5.00	39	0	14	15
SURC1707 137.00	142.00		204961	5.00	9	0	3	72
SURC1707 142.00	147.00		204962	5.00	6	0	1	33
SURC1707 147.00	152.00		204963	5.00	3	0	3	27
SURC1707 152.00	157.00		204964	5.00	12	0	9	13
SURC1707 157.00	162.00		204965	5.00	20	0	13	9
SURC1707 162.00	167.00		204966	5.00	56	0	52	4
SURC1707 167.00	172.00		204967	5.00	21	0	49	23
SURC1707 172.00	177.00		204968	5.00	11	0	14	20
SURC1707 177.00	182.00		204969	5.00	2	0	8	16
SURC1707 182.00	187.00		204970	5.00	9	0	6	20
SURC1707 187.00	192.00		204972	5.00	55	1	89	15
SURC1707 192.00	197.00		204973	5.00	20	1	92	24
SURC1707 197.00	202.00		204974	5.00	49	0	55	6
SURC1707 202.00	207.00		204975	5.00	18	0	16	39
SURC1707 207.00	212.00		204977	5.00	38	0	24	21



# Taku Gold

## Sulphur Project

# Drilling SU 2017 Drill Hole Repo

Hole: **SURC1707**

HoleID:	From:	To:	SampleNo:	Int	Au_ppb_ICPM S_GEO15AR01	Ag_ppm_ICPM S_GEO15AR01	As_ppm_ICPM S_GEO15AR01	Cu_ppm_ICPM S_GEO15AR01
<i>Highlight Values &gt;=</i>								
SURC1707	212.00	217.00	204978	5.00	126	2	65	22
SURC1707	217.00	222.00	204979	5.00	28	0	17	34
SURC1707	222.00	227.00	204980	5.00	40	0	30	18
SURC1707	227.00	232.00	204981	5.00	27	0	12	20
SURC1707	232.00	237.00	204982	5.00	16	0	9	23
SURC1707	237.00	242.00	204983	5.00	19	0	11	31
SURC1707	242.00	247.00	204985	5.00	17	1	11	42
SURC1707	247.00	252.00	204986	5.00	17	0	7	51
SURC1707	252.00	257.00	204987	5.00	13	0	11	32
SURC1707	257.00	262.00	204988	5.00	15	0	19	19
SURC1707	262.00	267.00	204989	5.00	14	0	32	12
SURC1707	267.00	272.00	204990	5.00	4	0	153	9
SURC1707	272.00	277.00	204991	5.00	0	0	62	87
SURC1707	277.00	282.00	204992	5.00	0	0	9	116
SURC1707	282.00	287.00	204993	5.00	2	0	5	87
SURC1707	287.00	292.00	204994	5.00	12	0	12	71
SURC1707	292.00	297.00	204995	5.00	8	0	6	87
SURC1707	297.00	302.00	204996	5.00	4	0	8	125
SURC1707	302.00	307.00	204997	5.00	0	0	3	112
SURC1707	307.00	312.00	204998	5.00	8	0	5	73
SURC1707	312.00	317.00	204999	5.00	7	0	28	25
SURC1707	317.00	322.00	205000	5.00	9	0	10	22
SURC1707	322.00	327.00	203449	5.00	4	0	11	35
SURC1707	327.00	332.00	203450	5.00	4	0	9	25

## **Appendix D - Analytical Certificates**



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Taku Gold Corp**  
680 3rd Ave, Suite 203  
Val D'Or Québec J9P 1S5 Canada

Submitted By: Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: October 18, 2017  
Report Date: November 29, 2017  
Page: 1 of 4

# CERTIFICATE OF ANALYSIS

WHI17001074.1

## CLIENT JOB INFORMATION

Project: SULPHUR  
Shipment ID:  
P.O. Number  
Number of Samples: 77

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Taku Gold Corp.  
Suite 608 - 409 Granville St.  
Vancouver British Columbia V6C 1T2  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	77	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ201	77	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	77	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** Taku Gold Corp  
680 3rd Ave, Suite 203  
Val D'Or Québec J9P 1S5 Canada

**Project:** SULPHUR  
**Report Date:** November 29, 2017

**Page:** 2 of 4

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI17001074.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
201557	Rock	0.86	1.4	30.9	38.7	101	0.2	20.3	6.3	473	1.92	26.8	1.9	10.4	6	0.7	0.9	<0.1	16	0.15	0.049
201558	Rock	1.42	1.7	22.2	42.3	85	0.2	11.0	4.1	712	2.39	45.7	2.6	7.6	199	0.5	0.8	<0.1	8	6.25	0.034
201559	Rock	1.13	1.6	35.1	33.3	98	0.3	25.0	8.1	449	2.09	55.6	3.9	8.7	25	0.5	0.9	0.2	19	1.44	0.051
201560	Rock	1.08	2.3	43.0	114.6	143	0.4	26.5	7.9	381	2.00	30.0	2.1	9.0	12	1.0	1.2	0.2	15	0.70	0.048
201561	Rock	0.99	1.3	52.4	54.0	164	0.6	27.9	8.4	479	2.13	435.3	11.0	8.4	9	1.5	2.7	0.2	8	0.59	0.040
201562	Rock	0.98	1.3	75.8	89.4	541	0.4	28.2	12.4	776	2.79	16.8	0.9	7.4	24	6.0	0.7	0.1	23	0.65	0.081
201563	Rock	1.15	0.9	66.3	685.6	183	1.8	16.6	6.8	493	2.21	6.4	2.4	4.3	43	0.9	0.7	1.4	29	1.39	0.049
201564	Rock	1.16	1.3	32.6	13.4	96	0.4	25.7	10.6	651	3.06	105.3	7.2	6.4	34	0.4	0.5	<0.1	42	1.21	0.081
201565	Rock	1.00	1.0	33.5	11.3	89	0.2	27.3	10.8	532	3.12	3.2	0.7	6.1	50	0.3	0.3	<0.1	51	1.45	0.073
201566	Rock	1.43	2.3	160.7	495.3	465	1.8	16.0	7.9	994	3.31	1359.7	148.3	4.6	72	2.9	2.0	1.2	22	7.90	0.052
201567	Rock	0.99	2.6	108.9	299.2	313	1.7	18.2	7.6	516	2.53	142.1	42.9	4.9	25	2.0	1.2	0.7	19	1.74	0.054
201568	Rock	1.17	0.9	31.9	8.2	101	0.3	26.9	11.5	546	3.13	269.4	3.3	6.1	24	0.4	0.3	<0.1	45	0.99	0.075
201569	Rock	1.53	1.3	34.3	20.7	99	0.4	27.3	12.2	749	3.05	78.5	2.9	6.3	55	0.4	0.5	0.2	49	1.72	0.073
201570	Rock	1.38	0.3	10.6	6.1	20	<0.1	4.4	2.1	329	0.72	44.4	2.3	0.6	75	0.2	0.2	<0.1	6	2.39	0.023
201571	Rock	1.22	0.8	30.2	6.6	79	0.2	24.8	9.9	552	2.99	62.3	7.5	5.6	14	0.2	0.3	<0.1	49	0.37	0.067
201572	Rock	1.23	2.0	33.6	8.1	85	0.3	26.3	13.1	694	3.80	35.9	7.6	6.6	15	0.3	0.8	<0.1	52	0.35	0.082
201573	Rock	1.04	0.8	36.1	6.8	90	0.6	24.9	11.2	611	3.07	275.1	5.3	6.4	59	0.3	0.5	<0.1	41	1.98	0.086
201574	Rock	1.19	0.5	33.4	6.5	80	0.3	25.1	11.1	635	2.83	65.8	2.7	5.7	49	0.3	0.6	<0.1	45	1.80	0.077
201575	Rock	1.31	0.2	7.0	1.8	8	<0.1	1.7	0.7	799	0.43	9.8	<0.5	0.3	99	<0.1	<0.1	<0.1	<2	3.35	0.003
201576	Rock	1.00	0.6	31.2	5.6	74	0.3	22.0	9.8	482	2.51	9.7	<0.5	5.6	35	0.1	0.1	<0.1	40	1.10	0.080
201577	Rock	1.23	0.7	29.9	6.0	87	0.2	24.1	10.4	419	2.89	11.3	3.6	5.2	45	0.3	0.2	<0.1	49	1.42	0.077
201578	Rock	1.04	0.6	28.8	8.0	90	0.1	25.7	10.0	628	2.82	11.0	3.3	5.6	42	0.3	0.2	<0.1	52	1.45	0.078
201579	Rock	1.09	0.2	10.2	17.2	22	<0.1	1.1	0.7	141	0.61	27.0	1.8	14.1	4	<0.1	0.1	0.2	<2	0.03	0.005
201580	Rock	1.27	0.1	6.7	12.2	25	<0.1	1.3	0.5	113	0.61	13.9	4.6	11.1	13	<0.1	0.1	<0.1	<2	0.06	0.005
201581	Rock	1.28	0.2	10.7	12.8	12	0.2	1.2	0.6	123	0.54	9.4	7.5	11.5	3	<0.1	0.1	<0.1	<2	0.02	0.004
201582	Rock	1.20	0.2	8.5	15.0	25	<0.1	1.0	0.4	140	0.65	14.4	8.5	13.8	10	<0.1	0.2	<0.1	<2	0.05	0.005
201583	Rock	1.24	0.2	7.1	15.1	19	<0.1	1.0	0.4	111	0.54	28.2	20.9	14.5	4	<0.1	0.1	<0.1	<2	0.02	0.005
201584	Rock	1.15	0.1	6.0	17.2	13	<0.1	0.8	0.7	136	0.48	14.8	0.6	13.5	4	<0.1	0.1	<0.1	<2	0.02	0.005
201585	Rock	1.46	0.2	6.3	13.8	12	<0.1	1.0	0.8	103	0.49	12.9	<0.5	11.6	4	<0.1	0.2	0.1	<2	0.03	0.005
201586	Rock	1.20	0.2	7.0	12.2	13	<0.1	0.9	0.7	93	0.48	6.7	<0.5	13.8	3	<0.1	0.2	<0.1	<2	0.02	0.005



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

WHI17001074.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
201557	Rock	25	18	0.17	400	0.002	<1	0.86	0.010	0.18	<0.1	0.03	6.4	<0.1	<0.05	3	<0.5	<0.2
201558	Rock	30	9	2.27	258	0.001	<1	0.53	0.003	0.14	<0.1	0.03	4.4	<0.1	<0.05	1	0.5	<0.2
201559	Rock	32	18	0.16	339	0.002	<1	0.91	0.003	0.16	<0.1	0.05	8.3	<0.1	<0.05	3	0.7	<0.2
201560	Rock	27	16	0.20	360	0.004	<1	0.84	0.008	0.21	<0.1	0.03	6.7	0.1	<0.05	3	0.6	<0.2
201561	Rock	27	9	0.13	285	0.003	<1	0.63	0.015	0.20	<0.1	0.04	5.0	0.1	<0.05	2	1.0	<0.2
201562	Rock	22	32	0.24	358	0.007	2	0.81	0.005	0.32	<0.1	0.05	9.0	0.2	<0.05	2	0.7	<0.2
201563	Rock	14	44	0.62	264	0.039	1	0.95	0.010	0.32	<0.1	0.03	6.0	0.2	<0.05	3	1.6	<0.2
201564	Rock	21	60	0.86	288	0.025	<1	1.37	0.012	0.25	<0.1	0.02	11.1	0.1	<0.05	5	<0.5	<0.2
201565	Rock	21	68	1.03	294	0.045	<1	1.52	0.011	0.21	<0.1	0.02	11.0	<0.1	<0.05	5	<0.5	<0.2
201566	Rock	16	33	0.51	884	0.013	<1	0.80	0.009	0.19	0.1	0.04	7.6	<0.1	<0.05	2	0.7	<0.2
201567	Rock	16	30	0.35	324	0.007	<1	0.87	0.012	0.24	<0.1	0.03	5.9	0.1	<0.05	2	0.6	<0.2
201568	Rock	21	65	1.09	259	0.046	<1	1.47	0.013	0.27	<0.1	0.01	11.3	0.1	<0.05	4	<0.5	<0.2
201569	Rock	23	74	1.03	279	0.053	<1	1.38	0.021	0.25	<0.1	0.01	10.9	0.1	<0.05	5	1.1	<0.2
201570	Rock	2	10	0.17	62	0.002	<1	0.21	0.004	0.04	<0.1	<0.01	1.4	<0.1	<0.05	<1	<0.5	<0.2
201571	Rock	18	75	1.09	226	0.056	<1	1.43	0.017	0.24	<0.1	<0.01	9.7	0.1	<0.05	5	<0.5	<0.2
201572	Rock	20	77	1.24	257	0.069	<1	1.52	0.018	0.28	<0.1	0.01	9.3	0.2	<0.05	5	2.0	<0.2
201573	Rock	18	63	0.92	289	0.035	<1	1.40	0.016	0.25	0.1	0.01	12.3	<0.1	<0.05	4	<0.5	<0.2
201574	Rock	17	65	1.09	253	0.062	<1	1.41	0.015	0.21	<0.1	0.02	11.7	0.1	<0.05	4	<0.5	<0.2
201575	Rock	4	5	0.07	34	0.002	<1	0.09	0.001	0.02	<0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	<0.2
201576	Rock	14	59	1.04	228	0.078	<1	1.26	0.019	0.24	<0.1	0.01	10.6	0.2	<0.05	4	<0.5	<0.2
201577	Rock	14	69	1.10	231	0.077	<1	1.37	0.016	0.19	<0.1	<0.01	11.5	<0.1	<0.05	5	<0.5	<0.2
201578	Rock	20	73	1.09	244	0.042	<1	1.49	0.014	0.20	<0.1	<0.01	10.9	0.1	<0.05	5	0.6	<0.2
201579	Rock	33	2	0.04	235	0.001	3	0.38	0.036	0.23	0.1	<0.01	1.7	0.1	<0.05	1	<0.5	<0.2
201580	Rock	25	2	0.04	206	0.003	2	0.35	0.034	0.20	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
201581	Rock	31	2	0.03	245	0.001	1	0.30	0.038	0.20	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
201582	Rock	31	2	0.05	218	0.003	1	0.41	0.031	0.22	<0.1	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
201583	Rock	36	2	0.03	206	0.001	3	0.36	0.039	0.21	<0.1	<0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
201584	Rock	24	2	0.03	210	0.001	2	0.38	0.033	0.21	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
201585	Rock	22	2	0.03	219	0.001	<1	0.37	0.030	0.21	<0.1	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
201586	Rock	22	2	0.03	236	0.002	1	0.36	0.034	0.21	<0.1	<0.01	1.9	<0.1	<0.05	1	<0.5	<0.2

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



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001074.1

Method	Analyte	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
201587	Rock	1.16	0.2	6.4	7.6	9	<0.1	0.9	0.4	88	0.38	2.9	1.5	13.4	3	<0.1	0.3	0.1	<2	0.02	0.006
201588	Rock	1.11	<0.1	5.4	6.3	10	<0.1	0.9	0.3	106	0.39	5.3	3.0	13.5	3	<0.1	<0.1	<0.1	<2	0.04	0.005
201589	Rock	1.35	0.4	9.3	14.2	34	0.2	5.0	1.7	703	1.43	68.0	13.1	3.2	308	0.3	0.5	<0.1	5	9.42	0.009
201590	Rock	0.95	0.6	27.9	15.3	77	0.5	17.8	8.6	662	2.62	382.5	26.9	6.3	111	0.2	0.8	0.1	22	2.84	0.064
201591	Rock	0.95	1.0	38.2	55.6	149	0.3	23.9	6.9	403	1.80	198.3	8.6	7.2	7	1.1	1.2	0.2	12	0.12	0.041
201592	Rock	1.27	0.8	42.7	44.2	106	1.6	27.1	7.7	329	1.93	479.6	28.4	9.2	7	0.7	1.4	0.2	11	0.15	0.043
201593	Rock	1.23	0.7	37.5	27.8	119	0.2	17.6	8.6	616	2.48	37.2	2.7	5.0	20	1.9	0.7	0.1	26	0.84	0.053
201594	Rock	1.00	0.7	99.1	135.3	570	0.6	25.7	11.4	487	3.06	15.7	3.8	4.7	20	1.9	0.6	0.6	44	0.48	0.074
201595	Rock	1.08	0.6	33.6	8.4	94	0.1	26.8	11.1	499	3.04	6.3	0.9	4.0	23	0.4	0.3	<0.1	48	0.56	0.079
201596	Rock	1.15	0.7	30.7	10.5	88	0.2	22.6	10.3	566	2.95	61.2	3.6	5.2	27	0.2	0.3	<0.1	40	0.63	0.071
201597	Rock	1.02	0.9	38.2	16.0	108	0.3	24.6	11.1	835	2.99	110.0	4.7	6.4	37	0.4	0.3	<0.1	41	0.90	0.070
201598	Rock	1.16	0.9	12.0	5.1	26	0.1	6.8	3.3	1096	2.54	9.9	3.9	1.2	60	0.2	0.7	<0.1	12	7.58	0.018
201599	Rock	1.29	1.0	25.2	18.6	59	0.4	14.6	6.7	708	2.55	269.5	25.9	3.3	105	0.3	1.0	<0.1	24	4.46	0.042
201600	Rock	1.02	0.9	24.0	9.8	47	0.3	14.6	7.5	843	2.71	120.6	22.6	3.2	129	0.5	0.8	<0.1	27	4.83	0.046
201601	Rock	1.21	0.7	18.5	9.6	53	0.2	16.1	7.3	1053	3.49	28.8	6.9	3.5	188	0.4	0.5	<0.1	31	7.52	0.049
201602	Rock	1.07	0.9	35.0	9.2	87	0.2	22.7	9.7	633	3.06	8.7	3.3	5.8	27	0.3	0.5	<0.1	43	1.26	0.074
201603	Rock	1.22	0.9	34.1	9.4	92	0.2	24.2	9.3	516	3.13	3.8	<0.5	5.9	44	0.2	0.4	<0.1	51	1.77	0.071
201604	Rock	1.28	0.7	25.2	7.0	57	0.2	15.8	6.6	452	2.26	11.9	0.5	3.8	31	0.3	1.0	<0.1	25	1.21	0.046
201605	Rock	1.32	0.6	22.9	12.2	82	0.1	22.0	9.0	471	2.81	4.3	<0.5	5.1	27	0.3	0.3	<0.1	41	0.66	0.088
201606	Rock	1.11	0.3	13.9	8.3	38	<0.1	6.5	2.8	264	1.18	1.9	<0.5	4.9	6	0.2	0.2	<0.1	10	0.12	0.023
201607	Rock	1.18	0.3	13.4	14.0	48	<0.1	4.7	3.4	157	1.50	2.4	<0.5	14.7	7	<0.1	0.3	0.1	11	0.15	0.042
201608	Rock	1.41	0.7	11.4	20.2	25	0.3	4.1	2.4	113	1.00	3.6	<0.5	11.2	5	0.1	0.5	0.8	4	0.06	0.019
201609	Rock	1.08	1.0	21.3	7.1	36	<0.1	4.8	2.5	135	1.26	2.5	0.8	9.0	5	<0.1	0.7	0.1	6	0.08	0.029
201610	Rock	1.18	1.0	27.1	7.4	57	0.1	16.5	5.1	352	2.13	2.0	<0.5	8.7	8	<0.1	0.5	<0.1	18	0.16	0.043
201611	Rock	1.29	0.5	11.0	7.4	15	<0.1	3.1	1.8	124	1.27	2.8	0.7	15.6	3	<0.1	0.5	<0.1	3	0.06	0.012
201612	Rock	1.14	1.4	26.3	25.0	79	0.3	18.1	7.5	454	2.23	2.1	<0.5	11.6	8	0.3	0.4	0.3	18	0.17	0.057
201613	Rock	1.35	0.8	17.0	10.3	53	0.2	6.2	3.1	308	1.58	29.8	1.5	9.2	17	0.1	0.5	0.2	9	1.14	0.035
201614	Rock	1.27	0.9	22.4	5.7	45	0.2	8.9	4.7	555	1.44	174.4	6.8	3.1	70	0.5	1.2	<0.1	7	4.76	0.019
201615	Rock	1.35	0.8	28.1	14.0	62	0.2	17.3	7.4	316	1.99	30.3	7.4	7.8	17	0.3	0.6	0.2	17	0.22	0.046
201616	Rock	1.37	0.8	29.6	10.4	49	<0.1	19.0	7.5	360	1.78	6.3	1.6	6.2	18	0.2	0.2	0.2	18	0.28	0.053



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
201587	Rock	10	1	0.03	195	0.001	1	0.28	0.025	0.21	<0.1	0.02	1.7	<0.1	<0.05	1	<0.5	<0.2
201588	Rock	23	1	0.04	243	<0.001	1	0.34	0.026	0.23	<0.1	0.03	1.0	<0.1	<0.05	1	<0.5	<0.2
201589	Rock	13	6	0.11	202	<0.001	<1	0.36	0.002	0.10	<0.1	0.04	2.9	<0.1	<0.05	<1	<0.5	<0.2
201590	Rock	22	27	0.13	285	0.002	2	0.63	0.013	0.20	<0.1	0.01	8.5	0.2	<0.05	2	<0.5	<0.2
201591	Rock	16	13	0.07	307	0.002	2	0.55	0.014	0.17	0.1	0.03	6.4	0.1	<0.05	2	0.5	<0.2
201592	Rock	24	12	0.10	325	0.002	2	0.65	0.014	0.18	0.1	0.05	6.2	0.2	<0.05	2	0.7	<0.2
201593	Rock	21	36	0.31	262	0.004	2	0.89	0.009	0.17	<0.1	0.03	8.3	0.1	<0.05	3	0.6	<0.2
201594	Rock	14	72	1.09	260	0.066	<1	1.56	0.014	0.15	<0.1	0.05	9.2	<0.1	<0.05	4	0.6	<0.2
201595	Rock	11	84	1.41	169	0.085	1	1.73	0.020	0.12	<0.1	<0.01	9.3	<0.1	<0.05	5	<0.5	<0.2
201596	Rock	16	71	1.24	206	0.068	<1	1.55	0.025	0.16	<0.1	<0.01	7.8	<0.1	<0.05	5	<0.5	<0.2
201597	Rock	24	62	1.13	366	0.047	1	1.43	0.013	0.31	<0.1	0.02	9.4	0.2	<0.05	4	<0.5	<0.2
201598	Rock	8	15	0.34	118	0.002	<1	0.22	0.002	0.05	<0.1	0.01	4.2	<0.1	<0.05	<1	<0.5	<0.2
201599	Rock	9	36	0.97	161	0.002	2	0.47	0.006	0.13	0.1	0.02	7.9	0.1	<0.05	1	<0.5	<0.2
201600	Rock	10	34	1.19	147	0.002	2	0.43	0.005	0.11	<0.1	0.02	8.4	0.1	<0.05	1	0.6	<0.2
201601	Rock	14	37	1.51	1321	0.002	2	0.43	0.005	0.10	<0.1	0.01	9.6	<0.1	<0.05	1	1.1	<0.2
201602	Rock	16	55	0.36	277	0.003	<1	1.03	0.007	0.15	<0.1	0.02	12.2	<0.1	<0.05	4	1.1	<0.2
201603	Rock	19	69	0.90	359	0.014	<1	1.61	0.015	0.20	<0.1	0.01	11.3	<0.1	<0.05	5	0.6	<0.2
201604	Rock	17	35	0.41	240	0.006	<1	0.85	0.013	0.16	<0.1	0.01	6.4	<0.1	<0.05	3	<0.5	<0.2
201605	Rock	14	64	0.79	254	0.081	<1	1.33	0.018	0.33	<0.1	0.02	8.2	0.2	<0.05	4	<0.5	<0.2
201606	Rock	16	13	0.27	233	0.030	<1	0.56	0.015	0.25	<0.1	0.01	2.5	0.1	<0.05	2	<0.5	<0.2
201607	Rock	38	9	0.17	331	0.008	<1	0.82	0.026	0.25	<0.1	0.03	5.4	<0.1	<0.05	4	0.5	<0.2
201608	Rock	16	3	0.08	204	0.007	<1	0.48	0.037	0.20	<0.1	<0.01	3.3	0.1	<0.05	2	<0.5	<0.2
201609	Rock	19	5	0.17	333	0.009	<1	0.63	0.028	0.26	<0.1	<0.01	4.1	0.5	<0.05	2	0.5	<0.2
201610	Rock	29	17	0.31	354	0.007	<1	0.97	0.024	0.18	<0.1	0.03	6.3	0.1	<0.05	4	0.9	<0.2
201611	Rock	20	3	0.11	191	0.002	<1	0.62	0.033	0.12	<0.1	0.02	2.2	0.1	<0.05	2	<0.5	<0.2
201612	Rock	33	16	0.08	250	0.003	<1	0.71	0.014	0.21	<0.1	0.03	8.4	<0.1	<0.05	2	0.6	<0.2
201613	Rock	28	8	0.09	271	0.002	<1	0.55	0.011	0.17	<0.1	0.06	6.0	<0.1	<0.05	2	<0.5	<0.2
201614	Rock	9	10	0.12	318	<0.001	<1	0.45	0.002	0.09	<0.1	0.03	4.0	0.1	<0.05	2	<0.5	<0.2
201615	Rock	18	14	0.16	322	0.011	<1	0.88	0.005	0.22	<0.1	0.01	6.1	0.2	<0.05	3	<0.5	<0.2
201616	Rock	12	17	0.32	349	0.047	<1	0.91	0.020	0.35	<0.1	0.01	4.9	0.2	<0.05	4	<0.5	<0.2



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

WHI17001074.1

Method	Analyte	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	Unit
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
201620	Rock	1.19	0.3	98.6	7.8	54	0.2	22.4	20.9	578	3.18	3.0	1.5	2.3	56	<0.1	0.3	0.1	57	2.72	0.033	
201621	Rock	1.48	0.1	14.7	6.6	19	<0.1	3.6	2.8	174	1.02	5.1	10.1	12.7	9	<0.1	0.2	<0.1	6	0.47	0.016	
201622	Rock	1.18	0.2	35.4	7.0	49	0.1	32.4	11.2	398	2.36	3.5	4.2	8.2	10	<0.1	0.2	0.1	38	0.46	0.029	
201623	Rock	1.24	0.5	17.8	10.5	41	<0.1	6.7	4.6	323	1.48	9.5	5.5	6.0	10	0.1	0.4	<0.1	12	0.10	0.023	
201624	Rock	1.35	0.2	12.0	8.4	15	<0.1	2.0	1.6	164	0.58	3.5	1.7	7.6	4	<0.1	0.1	<0.1	3	0.03	0.013	
201625	Rock	1.35	0.2	7.0	12.2	10	<0.1	0.9	0.7	109	0.43	3.1	1.7	13.7	4	<0.1	<0.1	0.1	<2	0.01	0.005	
201626	Rock	1.24	0.2	8.3	15.3	12	<0.1	0.8	0.3	101	0.42	2.8	2.8	14.0	3	<0.1	0.1	0.1	<2	0.01	0.004	
201627	Rock	1.25	0.2	9.7	14.1	15	<0.1	1.3	0.5	114	0.58	11.9	9.8	12.8	5	<0.1	0.2	<0.1	<2	0.03	0.004	
201628	Rock	1.24	0.2	5.7	15.2	16	<0.1	1.2	0.6	80	0.62	5.8	6.7	14.1	4	<0.1	0.2	<0.1	<2	0.02	0.003	
201629	Rock	1.51	0.2	2.8	12.5	19	<0.1	1.5	0.6	101	0.76	3.6	5.6	14.9	4	<0.1	0.2	0.1	<2	0.03	0.005	
201630	Rock	1.29	0.3	3.7	12.6	8	<0.1	1.1	0.3	83	0.47	4.8	10.8	14.9	4	<0.1	0.1	0.1	<2	0.02	0.004	
201631	Rock	1.24	0.2	2.9	12.5	9	<0.1	1.2	0.4	102	0.48	6.5	4.8	12.2	3	<0.1	0.2	<0.1	<2	0.02	0.005	
201632	Rock	1.00	0.2	4.3	12.4	11	<0.1	1.4	0.7	127	0.55	18.1	6.0	14.3	5	<0.1	0.2	0.1	<2	0.04	0.004	
201633	Rock	1.50	0.3	3.3	17.7	63	<0.1	2.0	0.7	183	0.99	64.0	64.9	13.3	4	0.2	0.2	<0.1	<2	0.02	0.004	
201634	Rock	1.50	0.1	1.7	10.3	10	<0.1	1.2	0.4	92	0.53	18.6	9.4	13.2	3	<0.1	0.1	<0.1	<2	0.02	0.004	
201635	Rock	1.40	0.2	1.6	15.3	14	<0.1	1.0	0.7	116	0.60	15.7	3.4	12.2	4	<0.1	0.1	<0.1	<2	0.01	0.005	
201636	Rock	1.53	0.1	3.0	19.9	18	<0.1	1.3	0.8	90	0.65	36.3	14.9	13.5	4	<0.1	0.2	0.1	<2	0.02	0.004	





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# CERTIFICATE OF ANALYSIS

WHI17001074.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
201620	Rock	7	48	1.15	321	0.080	<1	1.59	0.030	0.28	<0.1	<0.01	9.1	0.1	<0.05	4	<0.5	<0.2
201621	Rock	30	6	0.09	382	0.005	<1	0.48	0.041	0.25	<0.1	<0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
201622	Rock	20	107	1.36	315	0.044	<1	1.47	0.021	0.36	<0.1	<0.01	8.3	0.2	<0.05	5	<0.5	<0.2
201623	Rock	15	8	0.19	283	0.006	2	0.60	0.023	0.18	0.1	<0.01	4.2	<0.1	<0.05	2	<0.5	<0.2
201624	Rock	15	3	0.05	230	0.004	<1	0.35	0.019	0.22	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
201625	Rock	31	1	0.03	244	0.002	<1	0.36	0.041	0.26	<0.1	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
201626	Rock	23	1	0.04	278	0.002	<1	0.37	0.030	0.25	<0.1	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
201627	Rock	28	2	0.05	237	0.002	1	0.42	0.026	0.22	<0.1	0.01	1.9	<0.1	<0.05	1	<0.5	<0.2
201628	Rock	13	2	0.06	209	0.002	1	0.38	0.022	0.23	<0.1	<0.01	2.4	<0.1	<0.05	1	<0.5	<0.2
201629	Rock	22	3	0.08	227	0.003	2	0.41	0.025	0.24	<0.1	<0.01	2.4	0.1	<0.05	2	<0.5	<0.2
201630	Rock	24	2	0.03	269	0.001	2	0.31	0.031	0.22	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
201631	Rock	35	2	0.02	188	0.001	1	0.25	0.021	0.19	<0.1	<0.01	1.2	<0.1	<0.05	<1	<0.5	<0.2
201632	Rock	38	2	0.04	268	0.001	1	0.33	0.023	0.19	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
201633	Rock	36	2	0.03	202	0.001	3	0.27	0.050	0.12	<0.1	0.04	3.7	<0.1	<0.05	<1	<0.5	<0.2
201634	Rock	30	2	0.03	235	0.001	2	0.30	0.043	0.21	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
201635	Rock	25	3	0.03	216	0.001	2	0.31	0.039	0.20	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
201636	Rock	35	2	0.04	200	0.002	3	0.35	0.032	0.19	<0.1	0.01	2.0	<0.1	<0.05	1	<0.5	<0.2



# QUALITY CONTROL REPORT

WHI17001074.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
201579	Rock	1.09	0.2	10.2	17.2	22	<0.1	1.1	0.7	141	0.61	27.0	1.8	14.1	4	<0.1	0.1	0.2	<2	0.03	0.005
REP 201579	QC		0.2	10.4	18.0	24	<0.1	1.1	0.8	143	0.61	28.7	1.9	15.5	4	<0.1	0.2	0.1	<2	0.02	0.006
201613	Rock	1.35	0.8	17.0	10.3	53	0.2	6.2	3.1	308	1.58	29.8	1.5	9.2	17	0.1	0.5	0.2	9	1.14	0.035
REP 201613	QC		0.7	16.3	10.3	55	0.1	6.0	3.0	316	1.57	28.3	0.8	8.9	17	0.1	0.5	0.2	8	1.12	0.034
Core Reject Duplicates																					
201589	Rock	1.35	0.4	9.3	14.2	34	0.2	5.0	1.7	703	1.43	68.0	13.1	3.2	308	0.3	0.5	<0.1	5	9.42	0.009
DUP 201589	QC		0.3	8.0	11.0	30	0.1	5.0	1.5	735	1.56	42.7	9.7	2.3	308	0.3	0.4	<0.1	5	11.32	0.008
201626	Rock	1.24	0.2	8.3	15.3	12	<0.1	0.8	0.3	101	0.42	2.8	2.8	14.0	3	<0.1	0.1	0.1	<2	0.01	0.004
DUP 201626	QC		0.2	8.1	14.7	11	<0.1	0.9	0.4	105	0.45	2.7	1.7	13.4	3	<0.1	0.1	0.2	<2	0.02	0.004
Reference Materials																					
STD DS11	Standard		13.9	151.7	136.8	337	1.7	75.9	13.5	1048	3.15	41.1	83.5	8.0	65	2.3	7.9	11.9	48	1.05	0.067
STD DS11	Standard		14.2	152.4	136.1	346	1.7	78.5	13.6	1044	3.18	42.7	79.8	8.3	68	2.4	8.2	11.4	48	1.07	0.070
STD DS11	Standard		14.6	161.0	138.2	351	1.7	84.5	15.1	1065	3.25	43.4	72.5	8.2	67	2.2	7.9	12.2	48	1.08	0.068
STD DS11	Standard		13.5	147.3	120.3	331	1.6	77.2	13.1	1029	3.13	42.1	127.4	6.8	67	2.3	7.4	10.5	52	1.08	0.071
STD OXC129	Standard		1.3	28.0	6.1	41	<0.1	78.7	20.0	408	3.02	0.7	196.2	1.8	191	<0.1	<0.1	<0.1	52	0.76	0.102
STD OXC129	Standard		1.2	27.3	6.0	41	<0.1	79.8	20.5	418	3.08	0.6	175.3	1.8	184	<0.1	<0.1	<0.1	52	0.75	0.099
STD OXC129	Standard		1.2	27.5	6.0	40	<0.1	82.2	21.0	423	3.07	<0.5	173.5	1.7	172	<0.1	<0.1	<0.1	49	0.66	0.095
STD OXC129	Standard		1.2	30.6	5.9	41	<0.1	77.9	20.2	439	3.10	0.7	197.4	1.7	202	<0.1	<0.1	<0.1	55	0.79	0.105
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.9	11.4	1.2	37	<0.1	1.5	4.3	591	1.97	1.2	1.3	2.1	32	<0.1	<0.1	<0.1	24	0.75	0.040
ROCK-WHI	Prep Blank		0.7	8.7	0.9	33	<0.1	1.3	4.3	575	1.87	1.3	<0.5	1.9	32	<0.1	<0.1	<0.1	25	0.91	0.043



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# QUALITY CONTROL REPORT

WHI17001074.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
Pulp Duplicates																		
201579	Rock	33	2	0.04	235	0.001	3	0.38	0.036	0.23	0.1	<0.01	1.7	0.1	<0.05	1	<0.5	<0.2
REP 201579	QC	36	2	0.04	255	0.001	2	0.37	0.036	0.23	0.1	<0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
201613	Rock	28	8	0.09	271	0.002	<1	0.55	0.011	0.17	<0.1	0.06	6.0	<0.1	<0.05	2	<0.5	<0.2
REP 201613	QC	27	8	0.09	261	0.002	1	0.55	0.009	0.17	<0.1	0.06	5.9	<0.1	<0.05	2	<0.5	<0.2
Core Reject Duplicates																		
201589	Rock	13	6	0.11	202	<0.001	<1	0.36	0.002	0.10	<0.1	0.04	2.9	<0.1	<0.05	<1	<0.5	<0.2
DUP 201589	QC	12	5	0.11	203	<0.001	<1	0.28	0.001	0.08	<0.1	0.03	2.5	<0.1	<0.05	<1	<0.5	<0.2
201626	Rock	23	1	0.04	278	0.002	<1	0.37	0.030	0.25	<0.1	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
DUP 201626	QC	22	2	0.04	268	0.002	<1	0.39	0.032	0.26	<0.1	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	19	59	0.84	388	0.093	7	1.18	0.072	0.40	3.0	0.26	3.3	4.8	0.27	5	2.4	4.6
STD DS11	Standard	19	61	0.85	377	0.096	7	1.20	0.074	0.41	3.0	0.26	3.4	4.7	0.27	5	2.1	4.5
STD DS11	Standard	18	63	0.87	362	0.096	8	1.18	0.074	0.41	2.9	0.28	3.1	5.1	0.29	5	2.4	4.7
STD DS11	Standard	17	59	0.85	332	0.095	9	1.20	0.076	0.41	2.4	0.24	3.3	4.3	0.28	5	2.5	4.2
STD OXC129	Standard	12	53	1.53	50	0.410	<1	1.62	0.597	0.36	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	53	1.55	49	0.407	1	1.65	0.592	0.37	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	50	1.57	49	0.388	2	1.54	0.594	0.37	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	53	1.60	48	0.411	2	1.69	0.608	0.36	<0.1	<0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	4	0.55	72	0.085	1	1.15	0.132	0.12	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	6	3	0.53	61	0.080	2	1.11	0.106	0.10	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Taku Gold Corp**  
680 3rd Ave, Suite 203  
Val D'Or Québec J9P 1S5 Canada

Submitted By: Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: October 18, 2017  
Report Date: November 29, 2017  
Page: 1 of 6

# CERTIFICATE OF ANALYSIS

WHI17001075.1

## CLIENT JOB INFORMATION

Project: SULPHUR  
Shipment ID:  
P.O. Number  
Number of Samples: 138

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Taku Gold Corp.  
Suite 608 - 409 Granville St.  
Vancouver British Columbia V6C 1T2  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	134	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
AQ201	138	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

**Page:** 2 of 6

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

# WHI17001075.1

Method Analyte	Unit	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
204500	Rock	0.57	3.5	62.6	258.5	337	1.1	30.1	10.4	807	2.87	633.4	45.3	6.8	30	3.0	1.2	0.2	23	2.89	0.065
204501	Rock	1.35	2.8	49.5	205.6	222	1.1	30.1	9.4	403	2.02	522.3	104.7	8.1	20	1.8	1.6	0.1	14	1.43	0.043
204502	Rock	2.19	2.4	30.6	26.4	85	0.8	27.9	9.9	508	2.18	642.2	73.7	7.8	30	0.4	1.5	<0.1	15	1.89	0.047
204503	Rock	2.66	2.1	26.6	79.7	70	1.2	12.6	5.3	357	1.54	818.1	112.8	11.2	30	0.6	0.9	0.2	6	1.26	0.036
204504	Rock	2.68	1.5	13.1	21.1	48	0.3	6.3	3.3	327	1.35	1250.8	206.2	11.6	36	0.2	0.8	<0.1	2	1.42	0.028
204505	Rock	0.87	2.1	22.8	35.1	62	0.5	12.8	6.6	558	1.73	897.5	40.9	8.5	48	0.5	0.8	0.2	4	2.38	0.046
204506	Rock	1.82	1.5	23.8	13.5	90	0.2	23.2	10.2	682	2.50	465.6	15.5	7.3	82	0.6	0.7	0.1	27	2.12	0.060
204507	Rock	1.62	1.1	19.9	6.6	84	0.2	21.7	10.3	577	2.84	24.8	<0.5	3.6	114	0.3	0.3	<0.1	52	2.08	0.082
204508	Rock	1.10	1.4	21.2	7.5	88	0.2	23.1	11.3	603	2.98	22.1	<0.5	4.5	109	0.2	0.4	<0.1	52	1.94	0.087
204509	Rock	1.43	1.4	20.2	8.5	86	0.2	21.2	11.3	616	3.02	19.8	<0.5	5.6	128	0.3	0.4	<0.1	54	2.17	0.081
204510	Rock	1.06	1.2	20.1	9.7	88	0.2	23.1	10.2	691	3.16	126.7	2.3	5.3	117	0.2	0.6	<0.1	49	2.47	0.073
204511	Rock	1.34	1.1	20.0	9.4	80	0.2	20.9	10.0	838	3.11	152.4	11.3	5.1	153	0.3	0.6	<0.1	48	3.73	0.076
204512	Rock	1.13	1.1	20.9	12.3	85	0.2	21.5	11.7	662	2.91	41.3	<0.5	4.9	137	0.4	0.6	<0.1	50	2.62	0.084
204513	Rock	1.24	1.2	20.0	11.4	78	0.2	21.2	10.9	697	2.95	7.7	<0.5	4.5	163	0.3	0.3	<0.1	49	2.92	0.076
204514	Rock	0.95	1.3	20.2	10.9	79	0.1	22.3	11.2	837	3.46	24.8	0.8	5.2	146	0.2	0.6	<0.1	50	3.31	0.083
204515	Rock	1.77	2.4	20.5	15.5	89	0.2	23.1	11.7	722	3.19	74.2	1.2	4.7	124	0.3	0.7	<0.1	43	2.65	0.080
204516	Rock	1.00	2.1	24.8	12.6	81	0.2	23.9	10.5	628	2.82	76.1	2.7	7.2	88	0.4	0.6	0.1	32	2.13	0.073
204517	Rock	0.93	1.5	21.9	20.1	30	0.2	9.5	4.2	243	1.44	11.1	<0.5	9.4	49	0.2	0.6	<0.1	6	0.84	0.031
204518	Rock	1.29	1.6	42.5	22.3	62	0.3	23.3	8.3	412	2.01	13.6	<0.5	8.2	52	0.2	0.6	0.2	15	1.12	0.049
204519	Rock	1.16	2.1	29.9	13.2	52	0.2	25.2	8.2	341	1.98	8.2	<0.5	7.5	42	0.2	1.4	0.1	17	1.02	0.043
204520	Rock	0.72	2.0	32.8	7.4	50	0.2	28.2	9.6	413	2.05	72.3	1.1	6.9	45	0.2	1.3	<0.1	13	1.18	0.041
204521	Rock	0.98	2.1	22.3	10.4	49	0.4	26.5	8.8	521	2.09	327.6	22.1	6.7	89	<0.1	0.8	<0.1	12	2.84	0.041
204522	Rock	0.99	2.1	28.6	9.1	54	0.3	31.5	9.7	205	1.87	23.6	0.7	8.0	35	0.1	0.7	<0.1	14	0.65	0.042
204523	Rock	0.70	1.8	28.3	11.5	55	0.2	30.7	10.0	232	2.19	5.8	<0.5	7.9	30	<0.1	0.5	<0.1	13	0.49	0.048
204524	Rock	0.74	1.8	32.2	15.9	57	0.3	28.4	9.0	331	2.04	10.4	<0.5	7.5	41	0.1	0.5	0.1	13	0.85	0.046
204525	Rock	0.44	2.2	29.8	19.3	61	0.2	29.2	9.5	594	2.09	6.0	<0.5	7.2	95	0.2	0.6	0.1	15	2.17	0.041
204526	Rock	1.36	1.7	30.7	22.9	64	0.2	28.9	9.4	332	1.76	3.7	<0.5	7.6	45	0.2	0.5	0.1	14	1.05	0.047
204527	Rock	1.10	2.3	32.7	28.1	109	0.3	32.7	11.0	353	2.11	8.1	<0.5	8.0	43	0.6	0.4	0.2	14	0.80	0.045
204528	Rock	1.01	2.3	30.6	17.8	57	0.3	25.0	8.3	422	1.81	37.2	<0.5	6.4	52	0.3	0.6	<0.1	15	1.84	0.041
204529	Rock	0.96	2.5	26.4	13.2	56	0.2	24.2	7.7	400	2.08	16.7	<0.5	6.3	92	0.4	0.6	<0.1	14	1.93	0.034



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI17001075.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
204500	Rock	27	36	0.37	648	0.006	1	1.13	0.007	0.30	0.6	0.04	7.9	0.1	<0.05	3	0.6	<0.2
204501	Rock	24	20	0.34	446	0.010	1	0.87	0.018	0.27	0.4	0.03	6.1	0.2	<0.05	3	<0.5	<0.2
204502	Rock	26	20	0.32	1190	0.008	<1	0.80	0.019	0.26	0.5	0.01	6.2	0.1	<0.05	3	<0.5	<0.2
204503	Rock	31	12	0.15	457	0.003	2	0.55	0.025	0.24	0.6	0.02	3.7	<0.1	<0.05	2	<0.5	<0.2
204504	Rock	36	7	0.10	1506	0.002	1	0.43	0.024	0.24	0.5	0.02	2.3	<0.1	<0.05	1	<0.5	<0.2
204505	Rock	31	10	0.18	292	0.002	2	0.50	0.006	0.22	0.8	<0.01	3.1	0.1	<0.05	1	<0.5	<0.2
204506	Rock	26	34	0.59	296	0.004	2	1.22	0.009	0.23	0.5	0.02	7.6	0.1	<0.05	4	0.6	<0.2
204507	Rock	14	71	1.39	243	0.084	<1	1.56	0.017	0.20	0.4	<0.01	9.5	<0.1	<0.05	5	0.8	<0.2
204508	Rock	16	73	1.43	285	0.076	<1	1.66	0.016	0.24	0.3	<0.01	10.7	<0.1	<0.05	5	<0.5	<0.2
204509	Rock	19	71	1.36	290	0.018	1	1.75	0.016	0.26	0.2	0.04	11.4	<0.1	<0.05	6	<0.5	<0.2
204510	Rock	21	63	1.34	340	0.006	<1	1.92	0.018	0.32	0.2	0.04	10.5	<0.1	<0.05	6	<0.5	<0.2
204511	Rock	21	62	1.24	228	0.004	1	1.56	0.015	0.22	0.3	0.05	10.2	<0.1	<0.05	5	<0.5	<0.2
204512	Rock	21	68	1.03	214	0.004	2	1.56	0.010	0.20	0.2	0.03	11.6	<0.1	<0.05	5	<0.5	<0.2
204513	Rock	23	65	0.98	235	0.003	1	1.59	0.011	0.21	0.1	0.03	10.3	<0.1	<0.05	6	<0.5	<0.2
204514	Rock	21	63	1.18	190	0.002	<1	1.70	0.010	0.19	0.2	0.05	11.0	<0.1	<0.05	5	<0.5	<0.2
204515	Rock	20	62	0.98	246	0.005	<1	1.43	0.010	0.26	0.4	0.05	10.5	0.1	<0.05	5	<0.5	<0.2
204516	Rock	22	47	0.91	280	0.021	<1	1.30	0.012	0.40	0.3	0.01	8.8	0.2	<0.05	4	<0.5	<0.2
204517	Rock	32	14	0.25	283	0.004	<1	0.77	0.012	0.28	0.5	0.02	2.1	0.1	<0.05	2	<0.5	<0.2
204518	Rock	25	22	0.41	242	0.003	<1	0.99	0.006	0.21	0.5	0.04	5.6	0.1	<0.05	3	<0.5	<0.2
204519	Rock	23	27	0.50	312	0.012	<1	0.94	0.017	0.32	0.4	0.04	5.6	0.2	<0.05	3	0.7	<0.2
204520	Rock	24	18	0.43	274	0.004	1	0.82	0.010	0.23	0.4	0.04	6.4	0.2	<0.05	3	1.1	<0.2
204521	Rock	25	18	0.54	330	0.006	<1	0.70	0.016	0.24	0.4	0.02	6.2	0.2	<0.05	3	1.0	<0.2
204522	Rock	22	20	0.31	386	0.005	<1	0.75	0.017	0.23	0.4	0.05	6.3	0.2	<0.05	3	1.9	<0.2
204523	Rock	23	19	0.31	347	0.002	<1	0.96	0.004	0.21	0.4	0.28	7.4	0.1	<0.05	3	0.6	<0.2
204524	Rock	26	17	0.36	279	0.002	<1	0.84	0.009	0.18	0.3	0.09	6.1	0.1	<0.05	2	0.6	<0.2
204525	Rock	25	20	0.36	326	0.003	<1	0.92	0.016	0.23	0.4	0.03	6.3	0.1	<0.05	3	0.9	<0.2
204526	Rock	24	20	0.30	263	0.003	<1	0.78	0.014	0.20	0.3	0.03	7.0	0.1	<0.05	2	0.8	<0.2
204527	Rock	28	20	0.37	248	0.002	<1	1.01	0.009	0.20	0.3	0.04	6.4	<0.1	<0.05	3	0.7	<0.2
204528	Rock	16	20	0.35	179	0.001	<1	0.93	0.003	0.17	0.3	0.03	6.3	<0.1	<0.05	3	0.5	<0.2
204529	Rock	14	22	0.37	198	0.001	<1	0.93	0.002	0.16	0.3	0.02	5.8	0.1	<0.05	3	<0.5	<0.2

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



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

# WHI17001075.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204530	Rock	1.01	2.0	28.1	19.0	84	0.3	25.4	9.9	434	2.10	33.2	<0.5	6.6	59	0.8	0.6	0.1	15	1.91	0.039
204531	Rock	1.20	2.6	28.6	18.7	130	0.3	26.6	11.2	432	2.01	22.8	<0.5	7.7	55	1.0	0.6	0.1	18	1.79	0.044
204532	Rock	1.36	2.7	43.3	341.4	386	1.2	26.5	11.1	459	1.81	20.6	<0.5	7.0	107	4.5	1.3	0.7	17	2.01	0.047
201617	Rock	1.23	1.3	20.2	11.6	80	0.2	20.0	11.1	650	2.84	8.9	2.6	4.8	159	0.4	0.4	<0.1	47	2.82	0.077
201618	Rock Pulp	0.10	14.2	32.7	15.2	18	0.4	11.3	6.6	45	2.89	473.2	271.0	0.7	25	0.4	21.0	0.2	10	1.02	0.007
201619	Rock	0.71	<0.1	1.6	0.8	<1	<0.1	0.4	0.7	68	0.10	1.4	<0.5	<0.1	55	<0.1	<0.1	<0.1	<2	26.95	0.006
204533	Rock	1.50	1.8	48.8	97.5	349	0.4	25.6	8.9	573	2.22	20.3	1.6	5.9	131	2.2	0.6	0.2	19	2.45	0.061
204534	Rock	1.26	1.8	50.3	41.3	241	0.4	27.1	9.9	316	1.98	16.1	0.8	6.3	87	1.7	0.7	0.1	16	1.39	0.050
204535	Rock	1.28	1.5	27.5	14.6	68	0.2	27.7	9.4	412	2.06	22.8	<0.5	7.0	107	0.7	0.8	<0.1	17	1.82	0.045
204536	Rock	1.28	1.4	28.0	17.8	82	0.2	22.9	7.4	367	1.87	26.4	1.4	6.7	67	0.5	0.6	0.1	17	1.32	0.030
204537	Rock	1.56	1.3	20.2	7.5	79	0.2	20.1	8.2	641	2.64	8.3	1.9	5.6	123	0.6	0.3	<0.1	35	3.11	0.056
204538	Rock	1.45	1.1	17.1	12.0	81	0.2	18.3	8.5	754	2.51	8.9	<0.5	4.6	160	0.6	0.5	<0.1	36	3.93	0.061
204539	Rock	1.69	1.3	19.5	8.6	70	0.2	18.7	8.6	529	2.60	5.9	<0.5	5.6	95	0.3	0.4	<0.1	42	2.22	0.063
204540	Rock	2.15	2.6	18.3	91.1	108	0.4	11.3	6.3	438	1.82	31.8	5.5	6.1	78	1.4	0.3	0.3	23	1.75	0.043
204541	Rock	1.31	1.8	21.1	73.2	168	0.9	7.4	3.4	312	1.46	20.3	3.7	5.1	73	2.2	0.3	0.8	11	1.63	0.026
204542	Rock	1.24	2.4	21.0	37.2	192	0.7	19.0	9.8	657	2.60	27.7	0.8	5.1	126	2.4	0.8	0.4	29	3.65	0.068
204543	Rock	1.73	2.5	25.8	27.7	157	0.3	24.4	13.0	785	3.00	11.4	<0.5	6.0	116	1.1	0.4	0.2	45	3.31	0.091
204544	Rock	2.13	1.2	17.4	10.5	82	0.2	19.0	10.7	905	2.83	9.6	<0.5	4.4	176	0.4	0.2	<0.1	48	4.55	0.076
204545	Rock	1.20	0.8	9.5	8.9	52	0.1	7.1	5.2	685	2.01	3.4	<0.5	6.4	150	0.5	0.1	<0.1	26	3.84	0.041
204546	Rock	1.25	0.4	3.4	7.9	18	0.1	1.9	1.1	358	0.59	1.0	<0.5	8.0	93	0.2	<0.1	<0.1	3	2.37	0.011
204547	Rock	1.70	0.5	3.4	6.4	12	0.2	2.5	1.0	363	0.58	1.0	<0.5	8.5	157	0.1	<0.1	<0.1	<2	2.83	0.008
204548	Rock	1.39	0.9	7.7	9.0	32	0.2	6.4	3.9	622	1.05	8.0	1.6	5.2	194	0.4	0.3	<0.1	13	4.15	0.024
204549	Rock	1.27	1.1	14.8	8.2	65	0.2	16.5	8.7	665	2.50	6.1	0.5	5.0	145	0.4	0.4	<0.1	35	3.75	0.066
204550	Rock	1.68	1.3	14.9	7.0	51	0.2	16.4	7.6	644	2.47	8.8	<0.5	3.6	180	0.4	0.5	<0.1	32	4.19	0.054
204551	Rock	1.69	0.9	12.4	5.5	37	0.1	7.0	4.8	826	2.02	6.8	0.8	2.6	247	0.3	0.6	<0.1	23	5.89	0.034
204552	Rock	1.35	0.6	14.1	7.9	63	0.2	6.9	5.4	592	2.04	5.5	<0.5	5.3	120	0.5	0.4	<0.1	27	3.30	0.053
204553	Rock	1.53	0.9	14.8	8.1	52	0.2	8.0	5.8	967	2.25	26.9	6.2	3.9	212	0.3	0.4	<0.1	26	4.83	0.053
204554	Rock	1.51	1.5	7.6	8.4	27	0.2	5.2	2.7	443	1.00	5.9	3.0	7.9	89	0.4	0.3	<0.1	9	2.42	0.020
204555	Rock	1.75	1.9	6.5	10.8	27	0.2	4.7	2.2	398	0.86	6.4	0.9	7.8	83	0.3	0.2	<0.1	7	2.25	0.017
204556	Rock	1.44	0.9	4.3	9.0	16	0.1	3.3	1.2	212	0.62	3.4	2.1	8.9	37	0.2	0.2	<0.1	2	1.01	0.011



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001075.1

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.1	0.05	1	0.5	0.2	
204530	Rock	15	23	0.46	187	0.001	<1	1.06	0.002	0.15	0.3	0.03	5.5	<0.1	<0.05	3	<0.5	<0.2
204531	Rock	13	32	0.40	195	<0.001	<1	1.02	0.003	0.18	0.4	0.04	6.7	0.1	<0.05	3	<0.5	<0.2
204532	Rock	21	28	0.42	184	<0.001	1	1.42	0.004	0.32	0.2	0.07	6.0	0.2	<0.05	4	0.8	<0.2
201617	Rock	23	63	0.91	220	0.003	<1	1.44	0.011	0.18	0.2	0.03	10.2	<0.1	<0.05	5	0.7	<0.2
201618	Rock Pulp	2	17	0.03	929	0.009	3	0.17	0.009	0.07	28.3	2.77	0.9	13.4	0.13	<1	1.9	<0.2
201619	Rock	<1	1	1.00	11	0.002	<1	0.02	0.004	<0.01	<0.1	<0.01	0.5	<0.1	0.11	<1	<0.5	<0.2
204533	Rock	22	35	0.47	196	0.002	2	1.27	0.004	0.30	0.2	0.03	6.9	0.3	<0.05	4	<0.5	<0.2
204534	Rock	23	26	0.48	412	0.002	<1	1.36	0.005	0.29	0.2	0.05	5.2	0.2	<0.05	4	<0.5	<0.2
204535	Rock	29	27	0.50	1229	0.005	<1	1.28	0.007	0.27	0.2	0.05	5.4	0.2	<0.05	4	0.7	<0.2
204536	Rock	22	26	0.48	290	0.013	<1	1.00	0.017	0.30	0.3	0.05	5.2	0.2	<0.05	3	0.6	<0.2
204537	Rock	31	43	0.81	226	0.011	1	1.33	0.010	0.27	0.2	0.05	7.8	0.1	<0.05	4	0.6	<0.2
204538	Rock	30	46	0.78	244	0.007	<1	1.29	0.010	0.26	0.1	0.04	8.9	0.1	<0.05	4	0.6	<0.2
204539	Rock	24	50	0.77	209	0.010	<1	1.30	0.016	0.24	0.1	0.04	9.3	0.1	<0.05	4	<0.5	<0.2
204540	Rock	24	33	0.46	218	0.005	<1	0.96	0.013	0.22	0.2	0.05	5.5	0.1	<0.05	3	0.7	<0.2
204541	Rock	20	17	0.23	182	0.002	<1	0.67	0.005	0.17	0.1	0.05	3.2	<0.1	<0.05	2	<0.5	<0.2
204542	Rock	21	42	0.36	204	0.002	<1	1.00	0.005	0.19	0.1	0.10	10.1	0.1	<0.05	3	1.0	<0.2
204543	Rock	20	67	0.58	263	0.003	<1	1.46	0.006	0.23	0.2	0.06	12.8	0.1	<0.05	4	<0.5	<0.2
204544	Rock	28	62	0.79	310	0.002	<1	1.60	0.008	0.21	0.2	0.05	11.3	<0.1	<0.05	5	<0.5	<0.2
204545	Rock	26	38	0.56	729	0.009	<1	1.06	0.008	0.24	0.1	0.05	6.9	0.1	<0.05	4	<0.5	<0.2
204546	Rock	29	8	0.11	190	0.002	<1	0.43	0.015	0.21	<0.1	0.02	2.7	<0.1	<0.05	1	<0.5	<0.2
204547	Rock	32	7	0.09	2437	0.001	<1	0.38	0.012	0.17	0.1	0.02	2.2	<0.1	0.07	1	<0.5	<0.2
204548	Rock	22	21	0.25	2507	<0.001	<1	0.79	0.005	0.19	<0.1	0.03	5.3	<0.1	0.07	2	<0.5	<0.2
204549	Rock	24	48	0.58	635	0.003	<1	1.25	0.011	0.22	0.1	0.06	11.0	<0.1	<0.05	4	<0.5	<0.2
204550	Rock	19	41	0.59	177	0.001	<1	1.10	0.005	0.15	0.1	0.04	8.7	<0.1	<0.05	3	<0.5	<0.2
204551	Rock	17	31	0.50	120	0.002	<1	0.80	0.003	0.08	0.3	0.03	7.0	<0.1	<0.05	2	<0.5	<0.2
204552	Rock	23	34	0.54	238	0.003	<1	0.97	0.006	0.17	0.1	0.03	8.6	0.1	<0.05	3	<0.5	<0.2
204553	Rock	23	34	0.82	236	0.003	<1	0.90	0.006	0.17	0.1	0.04	7.8	<0.1	0.07	3	<0.5	<0.2
204554	Rock	26	16	0.30	199	0.002	<1	0.61	0.011	0.17	0.1	0.03	4.0	<0.1	0.06	2	<0.5	<0.2
204555	Rock	26	13	0.17	357	0.002	<1	0.51	0.013	0.18	0.2	0.03	3.5	<0.1	0.06	1	<0.5	<0.2
204556	Rock	28	8	0.10	221	0.001	<1	0.43	0.018	0.21	0.2	0.03	2.1	<0.1	0.06	1	<0.5	<0.2





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# CERTIFICATE OF ANALYSIS

# WHI17001075.1

Method Analyte Unit MDL	WGHT	AQ201 Mo	AQ201 Cu	AQ201 Pb	AQ201 Zn	AQ201 Ag	AQ201 Ni	AQ201 Co	AQ201 Mn	AQ201 Fe	AQ201 As	AQ201 Au	AQ201 Th	AQ201 Sr	AQ201 Cd	AQ201 Sb	AQ201 Bi	AQ201 V	AQ201 Ca	AQ201 P	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204557	Rock	1.71	0.9	5.2	12.0	14	0.2	2.5	1.1	199	0.59	6.4	8.0	10.9	35	0.3	0.1	<0.1	<2	0.96	0.008
204558	Rock	1.74	0.9	4.8	12.1	15	0.2	4.0	1.4	237	0.78	6.9	6.6	10.4	43	0.2	0.2	0.1	<2	1.22	0.007
204559	Rock	2.11	1.3	16.2	9.6	47	0.3	13.9	5.4	605	1.65	28.5	3.4	7.3	110	0.3	0.5	<0.1	15	2.89	0.030
204560	Rock	1.39	0.9	16.1	9.4	43	0.3	11.8	4.7	587	1.42	24.0	6.1	6.4	111	0.4	0.5	<0.1	12	2.90	0.027
204561	Rock	1.88	0.8	9.3	11.9	27	0.2	6.0	2.2	456	0.95	18.6	25.4	9.0	98	0.3	0.2	<0.1	3	2.65	0.013
204562	Rock	1.58	0.6	11.9	11.2	44	0.2	5.5	4.3	575	1.49	12.0	10.8	8.1	118	0.3	0.4	<0.1	15	2.96	0.033
204563	Rock	1.57	0.8	17.7	9.6	79	0.2	9.5	8.3	793	2.89	9.0	2.5	5.3	115	0.2	0.2	<0.1	38	3.11	0.064
204564	Rock	1.89	0.5	10.4	9.8	43	0.2	4.8	4.1	452	1.37	10.6	8.4	7.0	75	0.3	0.2	<0.1	15	1.99	0.034
204565	Rock	1.45	1.1	5.4	11.9	21	0.2	3.5	1.8	296	0.83	15.1	14.7	10.4	84	0.2	0.3	0.2	<2	1.76	0.013
204566	Rock	1.45	2.0	7.1	7.6	25	0.1	3.3	2.0	348	0.89	9.5	8.4	8.5	72	0.2	0.4	<0.1	3	1.87	0.016
203445	Rock Pulp	0.09	1.6	32.4	13.0	50	<0.1	24.9	3.6	41	2.89	794.0	784.4	8.2	18	<0.1	39.7	0.4	17	<0.01	0.022
203446	Rock	0.84	<0.1	0.5	0.4	<1	<0.1	0.3	0.3	65	0.06	1.1	<0.5	<0.1	64	<0.1	<0.1	<0.1	<2	31.13	0.005
204568	Rock	1.54	1.2	33.7	9.3	119	0.2	27.8	12.2	810	3.20	5.8	1.3	6.5	13	0.6	0.7	<0.1	44	0.37	0.073
204569	Rock	1.39	1.7	29.1	8.1	89	0.2	29.2	12.0	780	2.99	51.2	1.5	5.0	37	0.6	1.3	<0.1	37	2.77	0.069
204570	Rock Pulp	0.09	1.5	33.6	13.5	53	<0.1	24.5	3.6	42	2.88	791.3	826.9	8.8	20	<0.1	35.5	0.3	17	<0.01	0.024
204571	Rock	1.78	1.3	23.3	7.4	72	0.2	23.5	10.6	734	2.95	76.0	8.0	4.4	79	0.2	0.8	<0.1	35	5.17	0.063
204572	Rock	2.68	1.2	28.5	10.6	98	0.2	26.8	12.3	765	3.31	29.7	<0.5	5.6	95	0.3	1.3	<0.1	35	2.48	0.076
204573	Rock	1.42	1.1	23.5	5.6	73	0.2	20.3	9.2	757	2.61	4.2	<0.5	4.4	111	0.2	0.3	<0.1	32	3.68	0.065
204574	Rock	1.00	1.2	18.2	6.4	67	0.3	20.4	9.0	635	2.66	7.1	<0.5	5.2	72	0.2	0.8	<0.1	34	2.09	0.063
204575	Rock	1.04	1.4	16.2	6.8	62	0.3	21.7	8.6	665	2.67	7.1	4.6	4.2	97	0.3	0.3	<0.1	38	2.62	0.059
204576	Rock	1.32	1.4	17.9	5.8	62	0.2	20.5	8.3	724	2.51	58.6	8.9	4.4	91	0.2	0.1	<0.1	35	2.54	0.064
204577	Rock	1.12	1.5	22.3	17.6	74	0.2	22.3	8.8	892	2.76	15.0	2.9	5.1	131	0.3	1.0	<0.1	41	3.86	0.064
204578	Rock	1.11	1.4	23.0	9.0	81	0.2	24.4	9.3	710	2.90	6.0	1.9	4.9	81	0.4	0.4	<0.1	45	2.41	0.072
204579	Rock	0.75	1.6	21.2	7.2	73	0.1	24.0	9.3	669	2.91	11.5	<0.5	5.1	94	0.3	0.3	<0.1	50	2.26	0.065
204580	Rock	0.88	<0.1	0.2	0.3	<1	<0.1	0.2	0.5	61	0.05	<0.5	<0.5	<0.1	57	<0.1	<0.1	<0.1	<2	27.01	0.005
204581	Rock	1.48	2.3	56.4	100.6	320	0.5	23.0	9.9	644	2.67	47.2	6.5	5.5	40	2.9	0.3	0.3	31	1.25	0.066
204582	Rock	1.63	1.4	53.5	79.8	229	0.4	24.7	11.1	672	2.87	4.7	<0.5	5.8	59	1.3	0.3	0.2	44	1.56	0.076
204583	Rock	1.09	2.2	107.0	252.0	797	1.3	22.4	9.7	714	2.89	135.2	1.6	4.9	62	8.7	1.4	1.3	40	2.00	0.068
204584	Rock	1.47	1.4	22.7	14.1	188	0.2	25.4	10.4	618	2.93	121.1	5.3	5.5	78	0.6	0.7	<0.1	41	2.04	0.071
204585	Rock	1.46	1.6	23.7	42.8	119	0.3	17.3	5.1	407	1.70	159.0	12.8	3.6	54	1.2	1.3	<0.1	14	1.77	0.038



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Method Analyte Unit MDL	AQ201 La	AQ201 Cr	AQ201 Mg	AQ201 Ba	AQ201 Ti	AQ201 B	AQ201 Al	AQ201 Na	AQ201 K	AQ201 W	AQ201 Hg	AQ201 Sc	AQ201 TI	AQ201 S	AQ201 Ga	AQ201 Se	AQ201 Te																	
																		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm			
																		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
204557	Rock	34	7	0.08	230	0.001	<1	0.44	0.021	0.24	0.2	0.03	1.9	<0.1	0.08	2	<0.5	<0.2																
204558	Rock	31	10	0.11	205	0.001	<1	0.50	0.012	0.23	0.2	0.03	2.4	<0.1	0.08	2	<0.5	<0.2																
204559	Rock	23	24	0.57	175	0.002	<1	0.91	0.012	0.20	0.3	0.04	5.7	<0.1	0.17	2	<0.5	<0.2																
204560	Rock	24	21	0.49	174	0.002	<1	0.77	0.013	0.19	0.1	0.04	4.7	<0.1	0.16	2	<0.5	<0.2																
204561	Rock	26	13	0.18	223	0.001	<1	0.48	0.025	0.21	0.2	0.01	2.7	<0.1	0.15	2	<0.5	<0.2																
204562	Rock	24	25	0.60	300	0.012	<1	0.83	0.014	0.36	0.2	0.03	4.9	0.1	0.14	2	<0.5	<0.2																
204563	Rock	20	55	1.20	476	0.051	<1	1.49	0.016	0.80	0.2	0.04	7.9	0.3	0.11	5	<0.5	<0.2																
204564	Rock	26	25	0.54	332	0.012	<1	0.82	0.017	0.38	0.2	0.02	4.4	0.1	0.12	3	<0.5	<0.2																
204565	Rock	30	8	0.18	196	<0.001	2	0.57	0.013	0.26	0.4	0.03	1.9	<0.1	0.14	2	<0.5	<0.2																
204566	Rock	23	9	0.22	164	0.002	<1	0.50	0.014	0.19	0.3	0.03	2.8	<0.1	0.22	1	<0.5	<0.2																
203445	Rock Pulp	22	48	0.03	76	0.002	3	0.65	0.021	0.22	0.7	0.03	4.8	<0.1	<0.05	3	<0.5	<0.2																
203446	Rock	1	<1	0.36	11	0.001	5	0.02	0.003	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2																
204568	Rock	24	69	0.96	474	0.039	<1	1.70	0.011	0.42	0.1	0.05	10.7	0.3	<0.05	5	<0.5	<0.2																
204569	Rock	16	53	0.41	382	0.007	<1	1.06	0.006	0.21	0.2	0.04	11.7	0.1	<0.05	3	<0.5	<0.2																
204570	Rock Pulp	22	51	0.03	76	0.002	4	0.67	0.021	0.22	0.5	0.03	5.3	0.1	<0.05	3	<0.5	<0.2																
204571	Rock	11	48	0.50	267	0.003	2	0.94	0.005	0.17	0.2	0.03	9.7	<0.1	<0.05	2	<0.5	<0.2																
204572	Rock	23	53	0.83	297	0.011	1	1.34	0.009	0.29	0.2	0.02	9.7	0.4	<0.05	3	<0.5	<0.2																
204573	Rock	21	50	0.87	302	0.018	<1	1.17	0.014	0.34	0.2	0.02	8.5	0.2	<0.05	3	0.7	<0.2																
204574	Rock	20	51	0.95	283	0.016	1	1.26	0.011	0.33	0.2	0.02	8.5	0.2	<0.05	3	<0.5	<0.2																
204575	Rock	18	55	0.96	350	0.025	<1	1.28	0.020	0.38	0.2	<0.01	8.3	0.2	<0.05	4	<0.5	<0.2																
204576	Rock	19	50	1.00	309	0.039	<1	1.25	0.013	0.32	0.2	<0.01	8.7	0.1	<0.05	3	<0.5	<0.2																
204577	Rock	17	68	1.22	254	0.021	<1	1.55	0.017	0.35	0.1	0.02	7.9	0.3	<0.05	5	<0.5	<0.2																
204578	Rock	17	71	1.44	218	0.030	<1	1.67	0.010	0.19	0.3	<0.01	9.0	0.1	<0.05	6	<0.5	<0.2																
204579	Rock	18	71	1.34	276	0.024	<1	1.59	0.015	0.25	0.2	<0.01	10.1	0.2	<0.05	5	<0.5	<0.2																
204580	Rock	<1	<1	0.31	9	0.001	2	0.02	0.004	<0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2																
204581	Rock	15	50	0.97	318	0.026	<1	1.20	0.015	0.44	0.2	0.05	6.0	0.2	<0.05	4	0.9	<0.2																
204582	Rock	20	65	1.25	286	0.038	<1	1.39	0.013	0.50	0.2	0.03	8.8	0.3	<0.05	4	<0.5	<0.2																
204583	Rock	16	62	1.03	324	0.010	<1	1.34	0.016	0.28	0.2	0.16	9.0	0.2	<0.05	4	0.8	<0.2																
204584	Rock	20	56	0.90	250	0.004	1	1.34	0.009	0.23	0.2	0.03	11.1	0.1	<0.05	5	<0.5	<0.2																
204585	Rock	16	25	0.38	274	0.005	<1	0.73	0.016	0.22	0.3	0.02	3.7	0.1	<0.05	2	<0.5	<0.2																



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001075.1

Method Analyte	Unit	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
204586	Rock	1.57	2.0	27.8	43.4	75	0.5	19.4	6.0	316	1.65	171.2	12.0	5.1	26	0.7	1.1	<0.1	7	1.09	0.036
204587	Rock	1.57	3.0	31.2	95.4	144	0.7	25.8	8.3	465	2.22	539.0	40.0	6.7	42	1.4	1.4	0.1	8	1.55	0.038
204588	Rock	2.22	2.4	27.4	49.7	99	0.4	25.7	7.6	433	2.04	288.8	36.7	5.9	78	0.5	1.2	0.1	11	1.53	0.036
204589	Rock	1.65	2.2	25.7	44.7	94	0.3	23.1	7.6	410	2.06	75.6	8.3	5.1	70	0.6	0.9	0.1	14	1.75	0.033
204590	Rock	1.71	2.0	21.9	39.3	88	0.4	17.4	5.3	501	1.83	148.8	16.5	3.0	107	0.7	1.0	<0.1	13	2.20	0.025
204591	Rock	1.46	1.4	12.5	14.6	52	0.3	14.2	5.8	836	2.71	54.7	3.7	4.2	266	0.2	0.7	<0.1	19	5.51	0.029
204592	Rock	1.86	0.7	10.4	10.3	47	0.1	15.5	7.2	679	2.36	11.9	<0.5	5.2	258	<0.1	0.3	<0.1	16	4.15	0.041
204593	Rock	1.98	1.0	17.7	13.2	55	0.2	20.6	9.0	524	2.28	8.2	0.9	5.2	218	<0.1	0.2	0.1	17	2.94	0.042
204594	Rock	1.88	0.8	15.1	9.2	40	0.2	16.2	6.6	638	2.17	26.4	<0.5	4.9	296	<0.1	0.2	0.1	13	4.09	0.040
204595	Rock	1.47	0.9	15.9	10.0	48	0.2	18.2	7.6	469	2.07	8.5	<0.5	6.1	171	0.2	0.2	0.1	15	2.39	0.044
204596	Rock	1.20	1.0	16.0	8.4	40	0.2	13.5	5.8	404	1.72	4.3	<0.5	4.9	116	0.3	0.1	0.1	14	2.11	0.041
204597	Rock	2.01	0.7	14.7	7.9	36	0.1	9.1	4.2	367	1.59	6.4	<0.5	5.6	93	0.4	0.2	<0.1	10	1.60	0.038
204598	Rock	1.80	1.0	20.8	10.9	58	<0.1	11.0	6.4	459	2.41	2.3	<0.5	6.6	85	0.2	<0.1	0.1	22	1.59	0.050
204599	Rock	0.90	1.6	23.2	14.2	68	0.2	20.9	9.9	543	2.48	3.9	3.4	7.7	95	0.5	0.4	0.2	25	1.99	0.069
204600	Rock	0.98	1.7	23.8	14.2	68	0.2	21.8	10.2	553	2.59	2.5	2.1	7.9	94	0.5	0.3	0.2	26	1.90	0.067
204601	Rock	1.57	1.3	21.5	10.7	61	0.2	19.8	9.1	417	2.05	8.5	1.9	6.9	117	0.4	0.6	0.1	18	1.73	0.053
204602	Rock	2.00	1.2	22.8	13.6	64	0.2	16.9	8.6	480	2.47	2.9	1.2	7.1	211	0.3	0.4	0.2	19	2.43	0.058
204603	Rock	1.54	0.6	15.0	7.1	41	0.2	7.0	3.9	481	2.03	40.1	9.1	6.8	164	<0.1	0.7	<0.1	15	2.77	0.033
204605	Rock	1.21	0.8	21.2	8.7	48	0.3	13.7	6.6	557	2.24	365.8	26.2	6.5	192	0.2	1.3	<0.1	10	2.51	0.049
204606	Rock	1.64	0.7	14.8	12.4	45	0.2	14.3	6.4	541	1.93	225.6	16.6	9.0	172	0.1	0.9	0.2	10	2.47	0.038
204607	Rock	2.09	1.0	18.7	9.7	52	0.2	17.8	8.5	621	2.36	165.0	8.3	7.3	167	0.1	1.0	0.1	17	2.57	0.052
204608	Rock	2.06	0.9	18.6	12.1	54	0.2	17.5	7.7	563	2.02	29.1	3.5	6.3	114	0.2	0.5	<0.1	17	2.48	0.050
204609	Rock	1.54	1.3	21.8	10.6	70	0.2	23.8	9.2	543	2.58	39.9	4.4	6.1	90	<0.1	0.5	<0.1	30	1.79	0.063
204610	Rock Pulp	0.12	14.0	35.0	15.7	19	0.5	11.6	6.6	47	3.03	461.3	248.8	0.7	29	0.5	22.4	0.2	10	1.03	0.005
204611	Rock	1.54	0.9	14.6	14.6	54	0.2	13.2	6.8	476	2.07	70.7	8.8	9.4	90	0.3	0.7	0.1	19	1.91	0.051
204612	Rock	1.35	1.7	22.8	16.7	92	0.3	23.4	9.8	766	2.82	7.6	1.1	4.9	131	0.3	0.3	0.2	42	2.65	0.064
204613	Rock	1.87	1.0	21.5	8.6	73	0.3	21.7	9.3	786	2.55	16.1	1.6	4.7	129	0.4	0.2	<0.1	41	2.62	0.069
204614	Rock	1.92	1.1	18.7	6.0	59	0.2	20.7	8.4	459	2.42	5.5	2.1	3.8	85	0.2	0.2	<0.1	35	1.60	0.073
204615	Rock	2.62	0.9	18.4	5.2	59	0.2	20.1	7.9	435	2.17	21.5	1.8	3.2	74	0.2	0.3	<0.1	36	1.52	0.073
204616	Rock	1.41	1.1	21.0	6.3	67	0.2	22.1	9.0	594	2.64	4.0	2.0	5.1	85	0.2	<0.1	<0.1	41	1.90	0.069



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
204586	Rock	17	14	0.26	269	0.004	<1	0.59	0.010	0.23	0.2	0.01	2.9	0.1	<0.05	2	<0.5	<0.2
204587	Rock	20	19	0.30	893	0.002	1	0.76	0.010	0.21	0.6	0.03	5.0	0.1	<0.05	2	0.6	<0.2
204588	Rock	17	19	0.40	460	0.002	<1	0.66	0.003	0.15	0.5	0.03	5.3	0.2	<0.05	2	<0.5	<0.2
204589	Rock	13	20	0.29	347	0.002	<1	0.60	0.003	0.18	0.3	0.05	5.4	0.2	<0.05	2	<0.5	<0.2
204590	Rock	6	20	0.70	406	0.001	<1	0.48	0.004	0.14	0.3	0.02	5.4	<0.1	<0.05	2	<0.5	<0.2
204591	Rock	15	22	1.67	519	<0.001	<1	0.59	0.006	0.18	0.2	0.02	7.6	0.1	<0.05	2	<0.5	<0.2
204592	Rock	18	15	1.15	376	0.001	<1	0.43	0.006	0.16	0.1	0.02	7.8	<0.1	<0.05	1	<0.5	<0.2
204593	Rock	17	20	0.62	335	0.002	<1	0.50	0.005	0.24	0.2	0.02	7.4	0.1	<0.05	1	<0.5	<0.2
204594	Rock	16	15	0.97	294	0.001	<1	0.34	0.004	0.20	0.2	0.01	6.4	0.1	<0.05	<1	<0.5	<0.2
204595	Rock	19	17	0.45	261	0.003	<1	0.50	0.014	0.24	0.2	0.02	6.6	0.1	<0.05	2	<0.5	<0.2
204596	Rock	18	16	0.35	270	0.007	<1	0.55	0.017	0.30	0.2	0.01	5.0	0.2	<0.05	2	0.6	<0.2
204597	Rock	18	14	0.31	212	0.007	<1	0.45	0.017	0.27	0.2	0.02	4.0	0.1	<0.05	2	<0.5	<0.2
204598	Rock	29	27	0.62	446	0.040	<1	1.16	0.019	0.66	0.4	<0.01	6.3	0.4	<0.05	4	<0.5	<0.2
204599	Rock	27	32	0.60	415	0.034	<1	1.06	0.014	0.58	0.4	0.01	8.3	0.4	<0.05	4	<0.5	<0.2
204600	Rock	28	34	0.61	459	0.039	1	1.12	0.017	0.63	0.4	0.01	8.3	0.4	<0.05	4	0.6	<0.2
204601	Rock	23	21	0.44	397	0.011	<1	0.60	0.013	0.33	0.2	0.02	7.4	0.3	<0.05	2	<0.5	<0.2
204602	Rock	24	19	0.43	288	0.002	<1	0.54	0.014	0.25	0.2	0.02	8.3	<0.1	<0.05	2	0.5	<0.2
204603	Rock	20	15	0.83	266	<0.001	<1	0.38	0.012	0.16	0.2	0.01	6.1	<0.1	<0.05	2	0.6	<0.2
204605	Rock	21	14	0.81	283	0.002	2	0.43	0.013	0.27	0.4	0.01	6.5	<0.1	<0.05	1	<0.5	<0.2
204606	Rock	21	13	0.75	207	0.001	<1	0.34	0.013	0.20	0.3	0.01	5.4	<0.1	<0.05	1	<0.5	<0.2
204607	Rock	22	17	0.72	269	0.002	<1	0.50	0.016	0.25	0.2	0.01	6.9	0.1	<0.05	2	0.6	<0.2
204608	Rock	22	19	0.48	285	0.008	<1	0.61	0.016	0.32	0.1	<0.01	6.1	0.2	<0.05	2	<0.5	<0.2
204609	Rock	20	34	0.81	379	0.032	<1	1.15	0.021	0.57	0.1	0.01	7.4	0.3	<0.05	4	0.5	<0.2
204610	Rock Pulp	2	17	0.03	1026	0.009	2	0.17	0.009	0.07	27.7	2.82	0.7	13.6	0.14	<1	2.1	<0.2
204611	Rock	30	29	0.65	323	0.026	<1	0.91	0.021	0.46	0.2	<0.01	5.1	0.3	<0.05	4	0.6	<0.2
204612	Rock	18	67	1.02	272	0.041	<1	1.23	0.017	0.33	0.4	<0.01	9.4	0.2	<0.05	5	0.5	<0.2
204613	Rock	17	60	1.08	328	0.045	<1	1.26	0.017	0.31	0.1	<0.01	9.1	0.2	<0.05	4	<0.5	<0.2
204614	Rock	11	50	1.21	217	0.090	<1	1.18	0.027	0.24	0.2	<0.01	7.2	<0.1	<0.05	3	<0.5	<0.2
204615	Rock	9	53	1.08	185	0.089	<1	1.13	0.028	0.23	0.1	<0.01	7.3	<0.1	<0.05	4	<0.5	<0.2
204616	Rock	16	65	1.17	315	0.132	<1	1.34	0.027	0.56	0.2	<0.01	8.1	0.3	<0.05	4	<0.5	<0.2



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	Method Analyte Unit MDL	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
204617	Rock	2.02	1.2	20.6	16.7	92	0.4	21.5	9.0	787	2.65	7.4	1.7	4.9	134	0.4	0.3	0.1	39	2.50	0.068	
204618	Rock	1.85	1.3	20.5	13.3	73	0.3	20.5	8.9	735	2.45	4.6	1.3	4.9	121	0.3	0.1	<0.1	38	2.71	0.064	
204619	Rock	1.93	1.7	24.9	21.5	95	0.4	24.4	11.2	500	2.79	3.1	1.7	4.5	89	0.4	<0.1	0.2	44	1.66	0.079	
204620	Rock	1.08	<0.1	0.6	0.5	1	<0.1	0.2	0.1	96	0.08	<0.5	1.5	<0.1	84	<0.1	<0.1	<0.1	<2	34.12	0.006	
204621	Rock	1.72	1.4	18.0	9.4	67	0.2	19.4	8.0	640	2.40	7.2	0.7	4.5	128	0.3	0.2	<0.1	41	2.49	0.070	
204622	Rock	1.88	2.8	23.8	15.5	92	0.3	21.3	8.6	668	2.52	4.9	1.2	5.0	116	0.6	0.1	0.2	37	2.29	0.063	
204623	Rock	2.36	2.1	27.7	12.1	97	0.3	25.9	10.6	750	3.21	10.1	1.2	5.8	146	0.6	0.4	<0.1	53	2.58	0.079	
204624	Rock	2.13	2.0	21.0	9.9	74	0.2	21.4	9.0	687	2.67	4.3	0.9	4.7	143	0.3	0.3	<0.1	41	2.82	0.068	
204625	Rock	1.60	1.8	24.5	12.1	89	0.3	22.4	9.3	615	2.44	4.6	2.0	4.8	136	0.5	0.2	0.2	36	2.45	0.065	
204626	Rock	1.21	2.5	31.2	37.4	102	0.6	22.5	10.0	737	2.64	6.0	1.7	5.0	134	0.8	0.3	0.5	37	2.83	0.068	
204627	Rock	2.12	2.0	26.6	15.8	60	0.3	24.7	8.7	405	2.10	2.5	1.2	6.3	71	0.4	0.3	0.2	21	1.48	0.044	
204628	Rock	1.74	1.5	26.2	9.6	59	0.3	23.0	7.5	361	1.88	2.0	0.9	6.7	70	0.3	0.3	0.1	18	1.60	0.042	
204629	Rock	1.59	2.4	27.6	11.9	53	0.3	25.6	8.9	439	2.20	5.3	0.7	6.2	89	0.3	0.5	0.1	16	2.18	0.039	
204630	Rock	1.49	1.7	26.0	11.5	80	0.2	23.9	10.5	707	2.63	3.7	1.5	4.4	146	0.4	0.3	<0.1	44	2.94	0.064	
204631	Rock	1.87	1.6	23.1	11.5	87	0.2	21.1	9.3	838	2.92	8.3	<0.5	3.9	131	0.4	0.3	<0.1	54	2.74	0.065	
204632	Rock	1.71	1.8	20.5	11.6	73	0.3	20.1	9.3	1061	2.62	9.2	1.8	4.4	182	0.3	0.2	<0.1	40	4.03	0.064	
204633	Rock	2.02	1.9	24.1	10.4	74	0.3	22.7	11.3	596	2.65	14.9	1.3	4.5	102	0.3	0.3	<0.1	46	2.17	0.072	
204634	Rock	1.73	2.2	37.8	317.2	363	0.9	21.2	10.0	749	2.70	3.1	1.2	4.9	96	4.5	0.3	0.3	40	2.39	0.069	



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
204617	Rock	19	56	1.12	398	0.073	<1	1.35	0.009	0.54	0.2	<0.01	8.6	0.3	<0.05	4	0.6	<0.2
204618	Rock	19	58	0.98	308	0.102	<1	1.21	0.015	0.50	0.2	<0.01	7.8	0.3	<0.05	4	<0.5	<0.2
204619	Rock	14	67	1.27	287	0.093	<1	1.38	0.021	0.36	0.3	<0.01	9.1	0.2	<0.05	4	1.0	<0.2
204620	Rock	1	1	0.61	17	0.002	<1	<0.01	0.004	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
204621	Rock	15	55	1.08	363	0.087	<1	1.18	0.018	0.26	0.1	<0.01	9.1	0.1	<0.05	4	<0.5	<0.2
204622	Rock	18	50	1.04	327	0.045	<1	1.21	0.013	0.33	0.2	<0.01	9.3	0.2	<0.05	3	0.8	<0.2
204623	Rock	21	71	1.10	870	0.050	<1	1.45	0.021	0.36	0.1	<0.01	11.0	0.2	0.12	5	0.8	<0.2
204624	Rock	19	54	0.83	1346	0.051	<1	1.16	0.013	0.26	<0.1	<0.01	9.7	0.2	0.14	4	0.5	<0.2
204625	Rock	20	49	0.70	438	0.010	<1	1.14	0.011	0.31	0.1	0.06	10.1	0.2	0.05	4	0.9	<0.2
204626	Rock	21	48	0.79	364	0.011	<1	1.09	0.010	0.30	0.1	0.04	9.8	0.2	0.07	3	0.8	<0.2
204627	Rock	23	27	0.47	338	0.009	<1	0.91	0.021	0.27	0.1	0.02	6.9	0.2	0.07	3	1.1	<0.2
204628	Rock	24	24	0.34	351	0.011	<1	0.84	0.018	0.26	0.1	0.02	6.1	0.2	0.09	3	1.2	<0.2
204629	Rock	22	23	0.32	482	0.005	<1	0.90	0.023	0.22	0.2	0.02	5.9	0.1	0.08	4	1.0	<0.2
204630	Rock	17	60	0.88	498	0.064	<1	1.24	0.017	0.17	0.2	<0.01	8.6	0.1	0.16	5	1.1	<0.2
204631	Rock	15	77	1.45	304	0.079	<1	1.56	0.018	0.13	0.2	<0.01	9.0	<0.1	0.12	6	0.7	<0.2
204632	Rock	18	56	1.33	265	0.065	<1	1.34	0.014	0.18	0.4	<0.01	8.6	0.1	0.12	4	0.7	<0.2
204633	Rock	14	64	1.56	236	0.084	<1	1.39	0.016	0.23	0.3	<0.01	9.8	0.1	0.26	4	1.3	<0.2
204634	Rock	15	57	1.34	319	0.098	<1	1.36	0.014	0.41	0.2	0.02	8.1	0.3	0.30	4	2.1	<0.2



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Client: **Taku Gold Corp**  
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Project: SULPHUR  
Report Date: November 29, 2017

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# QUALITY CONTROL REPORT

## WHI17001075.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
204502	Rock	2.19	2.4	30.6	26.4	85	0.8	27.9	9.9	508	2.18	642.2	73.7	7.8	30	0.4	1.5	<0.1	15	1.89	0.047
REP 204502	QC		2.3	29.9	26.4	86	0.8	27.8	9.9	504	2.18	643.3	68.7	7.5	30	0.2	1.2	<0.1	15	1.90	0.048
201619	Rock	0.71	<0.1	1.6	0.8	<1	<0.1	0.4	0.7	68	0.10	1.4	<0.5	<0.1	55	<0.1	<0.1	<0.1	<2	26.95	0.006
REP 201619	QC		0.1	1.8	0.8	<1	<0.1	0.6	0.8	72	0.10	0.9	0.8	<0.1	55	<0.1	<0.1	<0.1	<2	27.78	0.007
203445	Rock Pulp	0.09	1.6	32.4	13.0	50	<0.1	24.9	3.6	41	2.89	794.0	784.4	8.2	18	<0.1	39.7	0.4	17	<0.01	0.022
REP 203445	QC		1.9	33.1	12.7	52	<0.1	26.1	3.4	42	2.86	814.5	822.1	8.8	18	<0.1	36.7	0.3	17	<0.01	0.023
204601	Rock	1.57	1.3	21.5	10.7	61	0.2	19.8	9.1	417	2.05	8.5	1.9	6.9	117	0.4	0.6	0.1	18	1.73	0.053
REP 204601	QC		1.4	21.2	11.0	58	0.2	20.2	8.9	409	2.04	8.3	1.8	7.0	118	0.4	0.7	0.1	18	1.67	0.058
Core Reject Duplicates																					
204530	Rock	1.01	2.0	28.1	19.0	84	0.3	25.4	9.9	434	2.10	33.2	<0.5	6.6	59	0.8	0.6	0.1	15	1.91	0.039
DUP 204530	QC		2.1	29.2	18.4	86	0.2	27.0	9.7	444	2.21	32.6	<0.5	7.1	59	0.8	0.5	<0.1	16	1.92	0.035
204561	Rock	1.88	0.8	9.3	11.9	27	0.2	6.0	2.2	456	0.95	18.6	25.4	9.0	98	0.3	0.2	<0.1	3	2.65	0.013
DUP 204561	QC		0.5	8.8	11.6	28	0.2	5.5	1.9	447	0.88	18.4	29.8	9.0	97	0.4	0.2	<0.1	3	2.66	0.012
204594	Rock	1.88	0.8	15.1	9.2	40	0.2	16.2	6.6	638	2.17	26.4	<0.5	4.9	296	<0.1	0.2	0.1	13	4.09	0.040
DUP 204594	QC		0.8	15.8	9.5	40	0.3	15.9	6.4	628	2.16	25.5	<0.5	5.6	298	<0.1	0.2	0.1	13	3.97	0.041
204629	Rock	1.59	2.4	27.6	11.9	53	0.3	25.6	8.9	439	2.20	5.3	0.7	6.2	89	0.3	0.5	0.1	16	2.18	0.039
DUP 204629	QC		2.3	26.4	11.3	51	0.3	24.4	8.4	399	2.10	5.3	1.0	6.1	87	0.3	0.4	0.1	16	2.09	0.036
Reference Materials																					
STD DS11	Standard		13.8	146.7	129.4	322	1.6	80.5	13.0	1028	3.05	41.5	71.8	7.4	64	2.2	8.4	11.5	49	1.05	0.068
STD DS11	Standard		13.6	149.1	140.8	341	1.8	80.2	13.6	1045	3.09	42.5	84.5	7.4	66	2.3	8.7	12.2	48	1.08	0.071
STD DS11	Standard		13.6	143.6	129.8	323	1.7	75.2	13.1	1009	3.05	39.7	67.6	7.5	65	2.1	7.6	11.2	48	1.06	0.068
STD DS11	Standard		14.3	147.6	133.3	336	1.7	77.2	13.1	1027	3.16	44.4	66.4	7.6	70	2.5	8.0	11.5	51	1.09	0.071
STD OXC129	Standard		1.4	27.5	5.8	39	<0.1	82.6	20.8	422	3.06	0.9	179.1	1.7	189	<0.1	<0.1	<0.1	51	0.69	0.102
STD OXC129	Standard		1.5	27.7	6.2	41	<0.1	80.9	20.2	428	3.03	0.6	201.2	1.9	189	<0.1	<0.1	<0.1	52	0.73	0.099
STD OXC129	Standard		1.3	26.0	5.4	37	<0.1	76.2	20.5	411	2.98	0.8	169.0	1.6	176	<0.1	<0.1	<0.1	50	0.66	0.102
STD OXC129	Standard		1.2	27.6	6.1	40	<0.1	81.0	20.3	417	3.00	0.7	203.3	1.7	196	<0.1	<0.1	<0.1	52	0.68	0.099
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701



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Project: SULPHUR  
Report Date: November 29, 2017

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# QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
204502	Rock	26	20	0.32	1190	0.008	<1	0.80	0.019	0.26	0.5	0.01	6.2	0.1	<0.05	3	<0.5	<0.2
REP 204502	QC	27	21	0.32	1186	0.009	<1	0.80	0.019	0.26	0.6	0.01	6.8	0.2	<0.05	3	<0.5	<0.2
201619	Rock	<1	1	1.00	11	0.002	<1	0.02	0.004	<0.01	<0.1	<0.01	0.5	<0.1	0.11	<1	<0.5	<0.2
REP 201619	QC	<1	1	1.03	10	0.002	1	0.02	0.005	<0.01	<0.1	<0.01	0.5	<0.1	0.15	<1	<0.5	<0.2
203445	Rock Pulp	22	48	0.03	76	0.002	3	0.65	0.021	0.22	0.7	0.03	4.8	<0.1	<0.05	3	<0.5	<0.2
REP 203445	QC	23	49	0.03	75	0.002	3	0.65	0.022	0.23	0.6	0.03	5.1	<0.1	<0.05	2	<0.5	<0.2
204601	Rock	23	21	0.44	397	0.011	<1	0.60	0.013	0.33	0.2	0.02	7.4	0.3	<0.05	2	<0.5	<0.2
REP 204601	QC	23	21	0.44	402	0.011	<1	0.59	0.013	0.33	0.2	0.02	7.1	0.3	<0.05	2	0.5	<0.2
Core Reject Duplicates																		
204530	Rock	15	23	0.46	187	0.001	<1	1.06	0.002	0.15	0.3	0.03	5.5	<0.1	<0.05	3	<0.5	<0.2
DUP 204530	QC	15	24	0.46	201	0.001	<1	1.10	0.002	0.16	0.3	0.02	6.2	<0.1	<0.05	3	<0.5	<0.2
204561	Rock	26	13	0.18	223	0.001	<1	0.48	0.025	0.21	0.2	0.01	2.7	<0.1	0.15	2	<0.5	<0.2
DUP 204561	QC	30	12	0.18	217	0.001	<1	0.46	0.021	0.20	0.2	0.03	2.8	<0.1	0.15	1	<0.5	<0.2
204594	Rock	16	15	0.97	294	0.001	<1	0.34	0.004	0.20	0.2	0.01	6.4	0.1	<0.05	<1	<0.5	<0.2
DUP 204594	QC	16	15	0.95	267	0.001	<1	0.35	0.004	0.21	0.3	0.01	5.9	<0.1	<0.05	1	<0.5	<0.2
204629	Rock	22	23	0.32	482	0.005	<1	0.90	0.023	0.22	0.2	0.02	5.9	0.1	0.08	4	1.0	<0.2
DUP 204629	QC	22	21	0.30	454	0.005	<1	0.85	0.022	0.20	0.2	0.01	5.4	0.1	0.07	3	0.9	<0.2
Reference Materials																		
STD DS11	Standard	16	59	0.86	371	0.092	8	1.15	0.072	0.40	3.0	0.23	3.1	4.4	0.27	5	2.0	4.6
STD DS11	Standard	17	59	0.88	384	0.095	8	1.17	0.074	0.42	3.4	0.26	3.6	4.9	0.27	5	2.4	4.4
STD DS11	Standard	18	58	0.84	381	0.092	6	1.16	0.072	0.41	2.9	0.21	3.0	4.5	0.27	5	2.0	4.6
STD DS11	Standard	19	60	0.84	379	0.095	6	1.17	0.072	0.41	2.9	0.27	3.3	4.8	0.28	5	2.5	4.4
STD OXC129	Standard	12	53	1.60	49	0.425	<1	1.61	0.606	0.37	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	52	1.59	52	0.416	<1	1.62	0.600	0.38	0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	51	1.53	45	0.405	1	1.54	0.578	0.37	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	53	1.53	52	0.397	<1	1.52	0.571	0.35	<0.1	<0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56





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**Client:** Taku Gold Corp  
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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# QUALITY CONTROL REPORT

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		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.8	7.3	1.0	38	<0.1	1.9	5.2	612	1.88	3.4	<0.5	1.8	32	<0.1	0.1	<0.1	24	0.92	0.043
ROCK-WHI	Prep Blank		0.8	7.7	1.0	40	<0.1	2.3	5.4	663	1.98	3.9	<0.5	1.6	35	<0.1	0.2	<0.1	29	0.98	0.041



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# QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	2	0.58	71	0.080	1	1.25	0.106	0.13	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	6	4	0.65	68	0.085	2	1.41	0.100	0.11	<0.1	<0.01	3.9	<0.1	0.05	4	<0.5	<0.2



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**Client:** **Taku Gold Corp**  
680 3rd Ave, Suite 203  
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Submitted By: Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: October 18, 2017  
Report Date: November 29, 2017  
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# CERTIFICATE OF ANALYSIS

WHI17001076.1

## CLIENT JOB INFORMATION

Project: SULPHUR  
Shipment ID:  
P.O. Number  
Number of Samples: 138

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Taku Gold Corp.  
Suite 608 - 409 Granville St.  
Vancouver British Columbia V6C 1T2  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	134	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
AQ201	138	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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# CERTIFICATE OF ANALYSIS

# WHI17001076.1

Method Analyte	Unit	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	%	%
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001			
204635	Rock	1.42	1.5	33.9	80.4	145	0.3	24.3	11.4	647	2.96	4.5	<0.5	5.2	85	1.1	0.2	0.1	41	2.08	0.067		
204636	Rock	1.46	1.0	33.6	21.8	96	0.2	24.2	12.5	581	3.12	2.9	<0.5	3.7	87	0.4	0.2	<0.1	42	1.75	0.076		
204637	Rock	1.50	1.0	32.0	7.8	86	0.2	24.8	12.1	399	2.89	1.7	<0.5	2.8	66	0.3	<0.1	<0.1	45	1.14	0.076		
204638	Rock	1.59	1.2	29.6	12.3	80	0.2	21.6	10.8	500	2.68	2.1	<0.5	3.0	78	0.3	0.1	<0.1	41	1.51	0.069		
204639	Rock	1.66	1.6	32.6	40.5	128	0.3	25.3	11.9	1043	3.14	1.6	<0.5	5.1	196	0.8	0.3	0.1	48	3.74	0.065		
204640	Rock	1.98	1.4	33.3	46.1	140	0.3	24.1	11.6	1040	3.19	2.9	<0.5	5.0	172	0.7	0.2	0.1	47	3.46	0.068		
204641	Rock	0.64	2.1	34.8	18.5	99	0.2	28.8	11.9	757	3.09	85.1	1.6	5.5	131	0.5	1.0	0.1	38	5.48	0.053		
204642	Rock	1.48	1.7	35.8	15.9	89	0.2	27.6	13.7	861	3.15	80.4	2.4	7.1	106	0.5	1.0	<0.1	40	4.52	0.073		
204643	Rock	2.81	1.6	39.4	15.6	100	0.2	30.6	14.8	795	3.44	12.9	<0.5	7.6	92	0.4	1.2	0.1	46	3.52	0.073		
204644	Rock	3.40	1.7	38.2	15.0	93	0.2	28.9	14.0	695	3.23	62.2	2.0	7.6	118	0.4	1.2	0.1	37	3.09	0.071		
204645	Rock	0.87	2.1	24.2	30.7	99	1.3	24.2	11.3	783	3.23	488.9	89.3	5.2	169	0.5	1.5	<0.1	12	4.75	0.063		
204646	Rock	2.03	1.6	27.2	13.1	97	0.3	26.2	12.7	738	3.14	75.0	3.6	6.3	132	0.5	1.9	0.1	31	3.27	0.073		
204647	Rock	1.78	1.1	27.4	11.8	86	0.2	26.8	12.7	603	3.17	54.9	3.1	6.4	117	0.3	1.4	<0.1	51	2.68	0.071		
204648	Rock	1.33	1.4	29.8	12.2	72	0.2	28.8	11.5	492	2.53	37.0	<0.5	7.5	65	0.3	1.9	<0.1	30	1.68	0.054		
204649	Rock	1.33	2.0	39.8	20.6	144	0.5	32.3	10.6	389	2.42	84.6	13.9	8.9	50	1.1	1.9	0.4	16	1.24	0.043		
204650	Rock Pulp	0.09	1.9	37.6	14.2	58	<0.1	26.4	3.7	44	3.00	818.2	793.4	9.6	21	<0.1	35.7	0.4	17	<0.01	0.022		
204651	Rock	1.01	2.1	39.4	47.7	193	0.4	34.9	12.2	390	2.21	142.7	8.3	9.1	129	1.7	2.2	0.3	14	1.32	0.044		
204652	Rock	1.10	1.7	27.1	22.1	77	0.7	26.9	10.5	600	2.70	552.7	30.6	7.3	184	0.3	2.4	0.1	14	3.00	0.048		
204653	Rock	1.42	1.7	21.5	18.9	75	0.4	30.3	10.1	397	2.01	319.9	15.2	7.9	135	0.3	2.2	0.1	12	1.70	0.040		
204654	Rock	0.93	1.8	28.3	43.2	107	0.3	30.6	10.3	535	2.29	256.9	14.4	7.8	88	0.5	1.7	0.1	12	2.00	0.039		
204655	Rock	1.10	1.7	28.3	25.0	100	0.4	26.3	12.7	747	2.83	304.6	13.1	4.6	122	0.5	1.4	0.1	29	3.31	0.052		
204656	Rock	0.97	1.6	26.2	10.5	87	0.3	26.5	12.0	724	3.12	56.8	1.2	5.6	147	0.3	1.6	<0.1	36	3.29	0.070		
204657	Rock	1.17	2.2	26.0	10.9	82	0.3	24.6	11.9	714	3.04	290.9	22.0	5.7	192	0.4	1.1	<0.1	30	3.25	0.068		
204658	Rock	1.16	1.9	26.5	13.4	101	0.5	26.7	13.1	793	3.18	974.1	55.8	5.5	176	0.4	1.6	<0.1	22	3.09	0.064		
204659	Rock	1.18	1.6	24.5	11.3	93	0.3	24.7	11.8	779	3.03	166.3	6.4	5.7	139	0.3	0.8	<0.1	31	3.41	0.067		
204660	Rock	1.36	<0.1	0.9	0.6	1	<0.1	<0.1	0.5	85	0.07	2.1	0.5	0.1	83	<0.1	<0.1	<0.1	<2	32.85	0.006		
204661	Rock	1.59	3.0	24.2	11.9	90	0.3	23.6	10.4	735	2.97	343.2	18.4	5.4	142	0.3	1.2	<0.1	27	2.97	0.066		
204662	Rock	2.26	1.2	21.7	12.7	78	0.3	22.5	9.6	713	2.89	93.6	5.0	5.1	144	0.4	0.6	<0.1	24	3.09	0.056		
204663	Rock	1.45	1.2	22.9	8.8	64	0.2	16.5	7.0	674	2.67	8.5	0.7	5.3	145	0.3	0.3	<0.1	28	2.93	0.062		
204664	Rock	1.96	1.3	23.5	10.6	100	0.3	22.3	11.1	912	3.31	27.1	<0.5	5.1	156	0.3	1.0	<0.1	29	4.17	0.064		



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
204635	Rock	16	65	1.59	265	0.099	<1	1.41	0.013	0.35	0.2	<0.01	8.6	0.2	0.12	4	1.6	<0.2
204636	Rock	12	68	2.08	162	0.073	1	1.39	0.011	0.18	0.3	<0.01	8.8	0.1	0.16	4	1.4	<0.2
204637	Rock	7	69	1.96	147	0.080	<1	1.36	0.016	0.16	0.3	<0.01	8.2	<0.1	0.11	4	0.9	<0.2
204638	Rock	9	64	1.75	149	0.082	<1	1.25	0.016	0.16	0.1	<0.01	7.8	<0.1	0.15	4	0.5	<0.2
204639	Rock	21	71	1.57	243	0.049	<1	1.42	0.013	0.30	0.2	<0.01	9.4	0.2	0.24	5	1.4	<0.2
204640	Rock	21	69	1.65	230	0.067	<1	1.44	0.012	0.27	0.2	0.01	9.4	0.2	0.23	5	0.8	<0.2
204641	Rock	18	52	0.31	322	0.004	<1	0.98	0.006	0.13	0.3	0.08	11.1	<0.1	<0.05	3	<0.5	<0.2
204642	Rock	25	48	0.74	421	0.002	1	0.81	0.007	0.13	0.3	0.06	11.9	<0.1	<0.05	3	<0.5	<0.2
204643	Rock	24	54	0.52	354	0.003	1	1.16	0.007	0.18	0.2	0.09	13.6	<0.1	<0.05	4	<0.5	<0.2
204644	Rock	22	45	0.66	283	0.002	1	0.99	0.009	0.19	0.2	0.07	12.2	<0.1	<0.05	3	0.7	<0.2
204645	Rock	15	22	0.78	247	0.001	3	0.58	0.005	0.21	0.6	0.04	8.0	<0.1	<0.05	1	0.5	<0.2
204646	Rock	20	49	1.05	263	0.002	2	1.14	0.008	0.19	0.3	0.05	9.9	<0.1	<0.05	4	<0.5	<0.2
204647	Rock	24	73	1.04	290	0.027	<1	1.49	0.017	0.23	0.2	0.03	10.0	0.1	<0.05	5	0.6	<0.2
204648	Rock	25	44	0.78	252	0.023	<1	1.26	0.011	0.33	0.3	0.04	7.6	0.2	<0.05	5	<0.5	<0.2
204649	Rock	29	23	0.35	283	0.005	<1	0.86	0.005	0.17	0.4	0.06	7.0	0.3	<0.05	3	<0.5	<0.2
204650	Rock Pulp	26	52	0.03	79	0.002	4	0.68	0.023	0.22	0.5	0.03	5.6	<0.1	<0.05	3	<0.5	<0.2
204651	Rock	25	22	0.26	232	0.001	<1	0.57	0.002	0.14	0.4	0.06	7.2	0.2	<0.05	2	0.6	<0.2
204652	Rock	18	25	0.88	294	0.001	2	0.47	0.005	0.17	0.4	0.05	7.0	0.1	<0.05	1	1.2	<0.2
204653	Rock	20	19	0.39	165	0.001	<1	0.37	0.002	0.11	0.5	0.06	6.3	0.2	<0.05	1	0.5	<0.2
204654	Rock	18	20	0.35	262	0.001	<1	0.44	0.002	0.16	0.4	0.04	6.6	0.2	<0.05	1	<0.5	<0.2
204655	Rock	11	48	0.91	185	<0.001	<1	0.38	0.004	0.12	0.4	0.05	9.6	0.2	<0.05	1	1.0	<0.2
204656	Rock	16	57	1.01	247	0.002	<1	0.50	0.007	0.16	0.3	0.05	9.2	0.2	<0.05	2	<0.5	<0.2
204657	Rock	15	45	1.16	204	0.001	<1	0.37	0.005	0.13	0.4	0.02	9.1	0.1	<0.05	1	<0.5	<0.2
204658	Rock	17	36	1.12	255	0.002	<1	0.49	0.005	0.18	0.4	0.01	9.5	0.2	<0.05	1	<0.5	<0.2
204659	Rock	15	47	1.26	206	0.002	<1	0.37	0.005	0.12	0.3	0.02	9.2	0.1	<0.05	1	0.6	<0.2
204660	Rock	1	<1	0.50	15	0.001	3	0.03	0.004	0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
204661	Rock	14	49	1.09	196	0.002	1	0.40	0.005	0.13	0.3	0.02	8.7	0.1	<0.05	1	0.5	<0.2
204662	Rock	15	35	1.14	225	0.002	<1	0.35	0.005	0.13	0.2	0.05	7.9	<0.1	<0.05	1	0.8	<0.2
204663	Rock	14	40	1.07	181	0.001	<1	0.32	0.004	0.11	0.2	0.02	7.1	<0.1	<0.05	1	<0.5	<0.2
204664	Rock	14	41	1.48	190	0.001	<1	0.36	0.005	0.12	0.3	0.03	8.9	<0.1	<0.05	1	0.7	<0.2



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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
204665	Rock	1.73	2.0	22.5	18.0	96	0.3	19.1	9.2	1076	2.78	16.0	<0.5	4.9	200	0.3	0.4	<0.1	27	5.18	0.055
204666	Rock	1.64	1.3	21.9	8.3	87	0.3	24.0	11.2	712	3.13	11.3	<0.5	5.1	98	0.3	0.6	<0.1	31	3.02	0.070
204667	Rock	1.93	1.1	21.2	10.5	87	0.5	21.6	9.7	716	2.91	121.1	5.6	4.9	95	0.4	0.6	0.1	25	3.12	0.063
204668	Rock	1.60	1.2	23.2	5.7	71	0.4	22.6	10.3	698	2.79	286.0	13.2	5.0	121	0.2	0.9	0.1	24	2.87	0.061
204669	Rock	1.24	1.0	21.2	5.2	73	0.3	21.1	9.7	673	2.78	26.8	2.7	5.3	65	0.3	0.4	<0.1	28	2.42	0.069
204670	Rock	1.54	1.0	23.2	7.2	73	0.3	21.7	9.5	594	2.52	19.7	1.0	5.1	75	0.3	1.3	0.1	34	2.23	0.067
204671	Rock	1.54	0.9	22.5	6.9	75	0.3	19.9	9.5	704	2.50	6.1	1.1	5.1	119	0.3	0.8	<0.1	33	2.75	0.064
204672	Rock	2.12	2.2	26.5	9.0	104	0.4	25.6	12.4	799	3.05	154.9	8.6	7.0	124	0.3	1.2	<0.1	35	2.97	0.080
204673	Rock	2.02	1.2	23.1	17.7	86	0.3	18.2	8.6	685	2.54	118.0	11.9	4.8	98	0.4	0.8	0.1	22	3.06	0.063
204674	Rock	1.58	1.4	21.8	11.5	84	0.3	21.3	10.1	635	2.71	126.9	13.4	5.5	86	0.3	0.9	0.1	30	2.49	0.068
204675	Rock	2.18	1.3	20.9	21.2	80	0.5	18.7	9.1	756	2.85	335.4	23.6	4.5	138	0.5	1.3	<0.1	23	3.89	0.055
204676	Rock	1.90	1.4	21.4	20.3	83	0.5	19.9	9.0	740	2.82	342.0	21.9	4.2	141	0.5	1.4	<0.1	23	3.88	0.055
204677	Rock	1.26	1.3	21.0	9.3	85	0.3	20.6	9.5	528	2.63	36.6	1.6	4.9	69	0.3	0.9	<0.1	35	1.80	0.064
204678	Rock	1.41	1.6	25.6	11.0	98	0.3	23.8	11.3	618	2.74	109.9	5.1	5.7	67	0.4	1.1	<0.1	37	1.71	0.073
204679	Rock	1.19	2.0	106.5	217.8	498	1.0	18.7	8.4	615	2.54	19.5	2.6	4.7	47	5.9	0.7	0.6	24	1.15	0.062
204680	Rock Pulp	0.10	14.6	35.9	15.9	20	0.4	11.7	6.8	48	3.06	476.0	255.0	0.7	29	0.5	23.5	0.2	11	1.02	0.006
204681	Rock	1.24	2.6	62.0	114.8	262	0.6	18.7	8.8	642	2.34	18.6	0.6	4.9	63	2.8	0.5	0.3	22	1.51	0.061
204682	Rock	1.53	1.2	29.8	21.4	137	0.3	19.9	8.2	560	2.32	16.3	1.3	5.1	55	0.9	0.6	<0.1	33	1.62	0.068
204683	Rock	1.41	1.1	19.6	8.7	71	0.2	16.6	7.6	460	1.88	4.4	0.9	4.1	73	0.4	0.3	<0.1	27	1.50	0.056
204684	Rock	1.54	1.8	20.8	9.9	72	0.1	21.9	9.1	619	2.58	3.1	0.6	4.8	112	0.4	0.6	<0.1	38	2.24	0.063
204685	Rock	1.87	1.3	24.0	12.1	70	0.2	20.4	7.9	617	2.34	2.7	<0.5	5.7	94	0.3	0.4	<0.1	25	2.14	0.049
204686	Rock	1.58	1.5	36.5	22.0	74	0.4	21.5	6.6	218	1.76	17.8	<0.5	6.3	26	0.6	0.8	0.1	7	0.53	0.030
204687	Rock	1.79	1.9	42.6	127.0	228	0.4	19.0	5.8	262	1.57	39.2	<0.5	6.0	35	1.6	1.0	0.2	7	0.70	0.033
204688	Rock	1.56	1.6	48.9	111.8	217	0.5	23.7	7.4	266	1.84	17.8	0.8	6.7	30	1.6	0.8	0.2	14	0.59	0.035
204689	Rock	1.90	2.5	31.8	32.6	85	0.2	25.0	8.8	378	1.87	6.4	<0.5	7.4	55	0.4	0.6	0.1	14	1.13	0.038
204690	Rock	1.14	<0.1	0.6	0.8	1	<0.1	<0.1	0.2	93	0.06	<0.5	<0.5	<0.1	78	<0.1	<0.1	<0.1	<2	32.58	0.005
204691	Rock	1.74	1.4	26.3	23.3	74	0.3	20.7	7.9	380	1.84	76.3	3.2	6.4	75	0.2	0.8	0.1	13	1.27	0.042
204692	Rock	1.05	1.7	13.6	11.8	53	0.1	11.8	6.2	374	1.91	15.1	<0.5	7.8	70	0.2	0.4	<0.1	22	1.58	0.044
204693	Rock	1.28	2.0	17.7	8.6	72	0.1	16.5	8.3	443	2.58	2.5	<0.5	6.1	83	0.3	0.3	<0.1	39	1.67	0.062
204694	Rock	1.37	1.3	19.5	7.0	82	0.1	17.5	9.1	380	2.50	2.2	<0.5	3.2	55	0.2	<0.1	<0.1	41	1.09	0.073



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
204665	Rock	14	37	1.99	160	0.001	<1	0.35	0.006	0.13	0.2	0.02	9.8	<0.1	<0.05	1	0.6	<0.2
204666	Rock	17	43	1.14	155	0.002	<1	0.39	0.006	0.13	0.2	0.04	11.9	<0.1	<0.05	1	0.8	<0.2
204667	Rock	15	34	1.10	157	0.001	<1	0.39	0.007	0.12	0.2	0.03	10.9	0.1	<0.05	1	1.2	<0.2
204668	Rock	15	34	1.00	202	0.001	2	0.39	0.006	0.15	0.3	0.03	9.9	0.1	<0.05	1	<0.5	<0.2
204669	Rock	19	35	0.75	235	0.002	2	0.56	0.010	0.17	0.2	0.02	9.6	0.2	<0.05	2	0.6	<0.2
204670	Rock	18	44	0.80	594	0.003	1	1.08	0.009	0.20	0.2	0.02	10.0	0.1	<0.05	4	0.7	<0.2
204671	Rock	19	50	1.02	198	0.009	<1	0.81	0.015	0.22	0.1	<0.01	9.7	0.2	<0.05	2	<0.5	<0.2
204672	Rock	22	59	0.93	250	0.007	1	0.74	0.019	0.22	0.3	0.01	9.3	0.3	<0.05	3	0.6	<0.2
204673	Rock	17	30	1.01	188	0.002	2	0.49	0.008	0.14	0.2	0.02	8.2	0.1	<0.05	2	<0.5	<0.2
204674	Rock	17	39	0.71	192	0.002	1	0.58	0.007	0.14	0.2	0.04	10.4	0.1	<0.05	2	0.6	<0.2
204675	Rock	13	31	1.22	165	0.001	2	0.44	0.005	0.14	0.3	0.02	9.3	<0.1	<0.05	1	0.5	<0.2
204676	Rock	13	32	1.20	168	0.001	1	0.47	0.006	0.15	0.3	0.02	9.3	<0.1	<0.05	1	0.6	<0.2
204677	Rock	16	45	0.74	165	0.002	1	0.84	0.008	0.14	0.2	0.04	10.6	<0.1	<0.05	3	<0.5	<0.2
204678	Rock	21	53	0.77	327	0.006	<1	1.10	0.009	0.21	0.3	0.03	10.2	0.2	<0.05	4	<0.5	<0.2
204679	Rock	17	36	0.57	262	0.016	<1	0.89	0.013	0.29	0.2	0.05	6.4	0.2	<0.05	3	1.2	<0.2
204680	Rock Pulp	2	17	0.03	1051	0.010	5	0.19	0.012	0.07	29.1	2.77	0.7	13.8	0.14	<1	1.1	<0.2
204681	Rock	17	31	0.55	236	0.007	<1	0.68	0.012	0.24	0.1	0.02	6.8	0.1	<0.05	2	0.7	<0.2
204682	Rock	18	49	0.70	232	0.023	<1	0.96	0.012	0.32	0.2	0.02	8.1	0.2	<0.05	4	0.6	<0.2
204683	Rock	16	41	0.69	291	0.023	<1	0.82	0.014	0.34	0.3	<0.01	6.4	0.2	<0.05	3	<0.5	<0.2
204684	Rock	19	47	0.78	231	0.005	<1	1.04	0.008	0.22	0.1	0.03	9.2	0.1	<0.05	4	<0.5	<0.2
204685	Rock	19	27	0.73	212	0.002	<1	0.84	0.005	0.17	0.2	0.03	9.0	<0.1	<0.05	3	0.6	<0.2
204686	Rock	20	10	0.25	178	0.002	<1	0.59	0.002	0.15	0.2	0.06	3.8	0.1	<0.05	1	1.4	<0.2
204687	Rock	19	10	0.26	231	0.002	<1	0.56	0.003	0.20	0.3	0.06	3.3	0.2	<0.05	2	0.7	<0.2
204688	Rock	23	17	0.35	265	0.019	<1	0.79	0.010	0.34	0.2	0.02	5.7	0.3	<0.05	3	1.0	<0.2
204689	Rock	26	18	0.42	303	0.012	<1	0.69	0.017	0.30	0.3	0.02	6.1	0.2	<0.05	3	0.8	<0.2
204690	Rock	1	<1	0.46	14	0.002	<1	0.01	0.003	<0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
204691	Rock	22	15	0.43	259	0.004	<1	0.52	0.016	0.22	0.2	0.02	6.5	0.1	<0.05	2	0.6	<0.2
204692	Rock	26	30	0.52	295	0.026	<1	0.92	0.020	0.41	0.1	0.01	6.4	0.2	<0.05	4	<0.5	<0.2
204693	Rock	20	50	1.01	257	0.038	<1	1.32	0.014	0.23	0.2	0.02	8.5	0.1	<0.05	5	1.0	<0.2
204694	Rock	10	58	1.61	188	0.086	<1	1.34	0.017	0.17	0.2	<0.01	8.4	0.2	0.06	4	<0.5	<0.2



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**Project:** SULPHUR  
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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		
204695	Rock	1.51	1.2	19.2	4.5	78	0.1	18.3	9.6	428	2.91	1.1	0.8	2.8	53	0.2	<0.1	<0.1	47	1.01	0.076		
204696	Rock	1.49	1.2	17.1	3.6	73	0.1	15.3	8.8	369	2.50	1.5	<0.5	2.2	45	0.1	0.1	<0.1	39	0.84	0.076		
204697	Rock	1.67	1.2	17.3	36.5	85	0.2	16.0	8.8	546	2.44	0.9	<0.5	2.9	73	0.6	0.1	<0.1	39	1.63	0.081		
204698	Rock	1.88	2.7	29.4	151.5	255	0.4	16.4	9.2	943	2.81	1.6	<0.5	5.0	143	2.5	0.4	0.1	35	3.18	0.073		
204699	Rock	1.84	1.0	36.0	82.5	230	0.3	17.0	9.4	1037	3.16	1.3	<0.5	4.9	150	1.6	0.3	0.2	40	2.92	0.071		
204700	Rock	1.57	1.9	37.5	89.3	267	0.5	17.1	9.5	964	3.08	2.7	<0.5	3.9	198	2.1	0.3	0.4	35	3.04	0.062		
204701	Rock	1.64	2.7	66.0	192.0	183	0.7	9.0	4.8	423	2.01	7.5	0.8	6.6	81	1.1	1.3	0.2	17	1.14	0.036		
204702	Rock	1.86	2.5	50.5	174.0	344	0.9	10.9	5.3	565	2.27	16.1	1.1	6.0	78	3.8	2.0	0.6	16	1.57	0.045		
204703	Rock	1.69	1.9	43.4	134.0	360	1.7	8.3	4.6	371	1.80	45.5	5.1	6.4	34	3.3	2.1	2.6	9	0.60	0.038		
204704	Rock	1.58	2.2	33.7	51.3	240	0.4	6.8	4.1	358	1.79	123.9	8.1	6.1	81	2.3	2.3	0.2	10	1.15	0.030		
204705	Rock	1.70	1.9	28.1	52.9	200	0.3	17.8	10.1	966	2.81	17.8	2.3	4.3	236	1.3	0.6	0.2	34	3.08	0.068		
204706	Rock	1.65	2.7	63.8	413.8	472	0.9	20.0	10.6	1153	2.96	12.1	0.8	4.3	219	5.9	1.1	0.3	32	3.53	0.072		
204707	Rock	2.04	3.8	57.2	188.1	352	0.5	13.8	7.8	556	2.37	7.7	0.6	7.5	71	3.4	1.2	<0.1	17	1.44	0.058		
204708	Rock	1.18	2.2	37.6	175.4	279	0.4	13.3	7.4	745	2.56	179.6	15.7	5.8	124	2.4	1.1	0.1	23	1.76	0.052		
204709	Rock	2.08	1.9	31.1	555.8	356	1.1	6.7	4.3	346	1.66	12.3	1.0	10.6	36	4.9	0.9	1.0	7	0.65	0.039		
204710	Rock	1.86	2.2	45.2	328.9	366	0.7	13.0	7.5	624	2.71	53.9	6.2	7.2	86	4.4	1.5	0.4	24	1.32	0.054		
204711	Rock	1.59	1.7	27.2	30.6	123	0.2	24.8	13.6	989	3.73	131.4	16.5	3.8	176	0.7	0.9	<0.1	59	3.27	0.089		
203448	Rock	1.69	1.7	30.1	44.0	148	0.3	25.9	14.6	1084	3.84	167.7	20.2	3.9	183	0.9	1.1	<0.1	54	3.35	0.090		
204712	Rock	1.22	2.3	31.7	13.4	101	0.2	29.7	12.2	709	3.05	46.8	2.1	6.2	29	0.4	0.4	<0.1	39	0.55	0.072		
204713	Rock	2.43	1.5	26.5	27.8	105	0.5	26.5	11.8	864	3.09	625.1	69.0	5.9	164	0.3	1.7	<0.1	23	2.91	0.072		
204714	Rock	3.22	1.7	24.8	36.7	106	0.3	25.0	11.4	850	2.65	85.5	2.4	6.0	89	0.7	1.5	<0.1	25	3.05	0.068		
204715	Rock	1.00	1.4	23.7	61.5	68	0.7	16.1	7.7	866	2.31	139.0	18.5	3.5	108	0.6	1.3	0.3	14	3.83	0.046		
204716	Rock	1.29	1.2	37.2	192.9	354	0.7	19.1	8.3	689	2.43	35.7	3.9	4.5	91	4.2	0.8	0.5	28	2.52	0.058		
204717	Rock	1.88	2.5	33.6	12.7	165	0.1	25.1	11.3	883	3.46	7.4	0.6	5.8	128	0.7	0.4	<0.1	48	2.75	0.071		
204718	Rock	1.10	1.1	32.4	11.4	86	0.2	21.9	9.1	615	2.61	2.8	<0.5	4.5	108	0.4	0.3	<0.1	43	2.82	0.064		
204719	Rock	1.40	1.3	22.8	8.1	79	0.1	23.1	10.2	558	2.67	4.8	<0.5	4.8	106	0.3	0.4	<0.1	45	2.27	0.061		
204720	Rock	1.33	1.3	23.8	8.7	81	0.1	24.0	10.5	549	2.69	4.9	<0.5	5.0	108	0.4	0.3	<0.1	47	2.25	0.065		
204721	Rock	1.37	0.9	24.0	6.4	78	0.1	23.1	10.2	664	2.69	7.0	<0.5	5.3	124	0.4	0.4	<0.1	37	2.43	0.065		
204722	Rock	1.43	1.0	21.2	9.9	78	0.1	22.0	9.3	450	2.41	4.4	<0.5	5.2	98	0.4	0.3	<0.1	43	1.86	0.067		
204723	Rock	1.35	1.1	23.1	11.6	79	0.2	22.9	10.0	713	2.95	51.0	0.9	4.7	160	0.3	0.8	<0.1	39	3.81	0.064		





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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
204695	Rock	9	66	1.99	153	0.076	<1	1.44	0.014	0.13	0.2	<0.01	9.1	0.1	0.24	4	1.0	<0.2
204696	Rock	6	61	1.62	154	0.087	<1	1.33	0.018	0.14	0.2	<0.01	6.6	<0.1	0.11	3	0.8	<0.2
204697	Rock	10	59	1.28	628	0.098	<1	1.20	0.023	0.25	0.2	<0.01	8.0	0.1	0.10	4	0.6	<0.2
204698	Rock	19	53	1.24	445	0.044	<1	1.10	0.015	0.63	0.5	0.02	9.0	0.3	0.26	4	0.7	<0.2
204699	Rock	16	71	1.40	357	0.038	<1	0.91	0.024	0.52	0.2	0.03	10.6	0.3	0.19	4	0.7	<0.2
204700	Rock	8	53	1.20	257	0.008	<1	0.66	0.019	0.23	0.2	0.02	8.1	0.1	0.18	3	0.8	<0.2
204701	Rock	17	28	0.46	223	0.008	<1	0.47	0.024	0.18	0.2	0.05	4.9	0.4	0.14	2	1.0	<0.2
204702	Rock	16	27	0.56	220	0.008	<1	0.45	0.020	0.16	0.2	0.09	4.6	0.2	0.15	2	1.1	<0.2
204703	Rock	19	14	0.22	247	0.003	1	0.40	0.018	0.17	0.2	0.10	2.3	0.3	0.10	1	1.5	<0.2
204704	Rock	19	14	0.40	485	0.004	2	0.39	0.019	0.12	0.2	0.07	3.0	0.2	0.14	1	0.7	<0.2
204705	Rock	20	48	1.40	409	0.019	1	0.72	0.016	0.32	0.2	0.04	9.6	0.3	0.12	3	1.3	<0.2
204706	Rock	18	42	1.27	343	0.006	1	0.56	0.013	0.23	0.2	0.07	10.1	0.2	0.14	2	1.8	<0.2
204707	Rock	24	27	0.54	333	0.004	1	0.53	0.017	0.21	0.4	0.06	5.8	0.3	0.17	2	1.8	<0.2
204708	Rock	21	33	0.85	275	0.016	1	0.68	0.017	0.31	0.3	0.04	6.3	0.3	0.15	2	1.4	<0.2
204709	Rock	33	9	0.21	245	0.004	2	0.46	0.026	0.23	0.3	0.06	2.9	0.3	0.20	2	1.7	<0.2
204710	Rock	25	35	0.79	255	0.014	<1	0.73	0.019	0.28	0.3	0.06	6.9	0.3	0.26	3	2.7	<0.2
204711	Rock	16	85	1.79	272	0.014	2	1.20	0.015	0.24	0.2	0.02	14.3	0.1	0.20	4	0.9	<0.2
203448	Rock	17	79	1.78	286	0.010	1	1.07	0.012	0.23	0.3	0.02	13.6	0.1	0.22	3	1.2	<0.2
204712	Rock	21	59	0.77	349	0.023	<1	1.27	0.012	0.28	0.2	0.02	9.2	0.2	<0.05	4	1.2	<0.2
204713	Rock	18	38	0.84	295	0.004	2	0.76	0.009	0.18	0.4	0.02	8.7	0.1	<0.05	2	0.5	<0.2
204714	Rock	20	40	1.02	675	0.003	1	0.83	0.006	0.20	0.2	0.02	8.8	0.1	<0.05	2	<0.5	<0.2
204715	Rock	18	21	0.96	430	0.003	<1	0.48	0.005	0.16	0.3	0.01	6.3	<0.1	<0.05	1	1.2	<0.2
204716	Rock	19	38	1.00	335	0.006	<1	0.94	0.009	0.21	0.2	0.05	8.0	0.1	<0.05	3	0.9	<0.2
204717	Rock	26	70	1.37	732	0.005	<1	1.65	0.012	0.23	0.2	0.02	9.9	0.1	<0.05	5	<0.5	<0.2
204718	Rock	20	57	1.11	264	0.024	1	1.36	0.016	0.20	0.1	<0.01	8.5	0.1	<0.05	4	0.6	<0.2
204719	Rock	20	59	1.05	276	0.022	<1	1.26	0.015	0.17	0.1	<0.01	9.4	<0.1	<0.05	5	<0.5	<0.2
204720	Rock	20	61	1.05	306	0.024	1	1.33	0.017	0.20	0.2	0.01	9.9	<0.1	<0.05	5	<0.5	<0.2
204721	Rock	19	48	0.77	786	0.007	<1	1.05	0.014	0.20	0.2	0.02	9.9	0.1	<0.05	4	0.6	<0.2
204722	Rock	19	55	0.69	179	0.003	<1	1.10	0.017	0.16	0.1	0.07	10.6	<0.1	<0.05	4	<0.5	<0.2
204723	Rock	15	46	1.31	224	0.002	<1	0.78	0.007	0.14	0.1	0.09	11.4	<0.1	<0.05	2	<0.5	<0.2



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Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204724	Rock	1.39	1.0	15.6	14.9	66	0.1	17.1	7.7	832	2.38	43.2	0.8	3.4	115	0.4	0.6	<0.1	19	4.17	0.048
204725	Rock	1.31	1.1	17.1	13.7	66	0.2	17.5	7.6	614	2.28	93.2	5.5	3.5	113	0.5	0.9	0.1	31	3.55	0.049
204726	Rock	1.13	1.5	23.1	7.1	74	0.2	22.5	10.2	800	2.63	39.5	0.7	5.5	168	0.5	0.9	<0.1	29	3.29	0.066
204727	Rock	1.21	1.1	25.0	13.1	74	0.2	20.9	9.5	875	2.80	14.6	<0.5	4.9	201	0.4	0.6	0.1	31	4.29	0.061
204728	Rock	1.53	1.3	22.5	10.5	76	0.2	21.1	9.7	723	2.59	6.8	0.6	4.9	108	0.4	0.4	<0.1	27	3.37	0.061
204729	Rock	1.48	1.9	23.6	13.1	81	0.2	21.2	9.6	750	2.78	128.2	1.5	4.8	124	0.3	1.0	0.1	20	3.25	0.059
204730	Rock Pulp	0.10	1.9	33.4	13.7	55	<0.1	26.7	3.8	44	2.98	799.4	852.7	9.3	21	<0.1	37.4	0.4	18	<0.01	0.022
204731	Rock	1.48	1.5	22.5	12.7	72	0.6	20.1	9.3	684	2.63	988.9	179.0	4.3	182	0.3	1.3	0.1	16	3.76	0.054
204732	Rock	1.82	1.5	31.3	22.0	109	0.5	23.9	8.0	372	1.92	603.8	28.5	5.3	43	0.6	1.9	0.1	6	1.19	0.030
204733	Rock	2.02	1.5	73.2	96.6	503	0.4	20.9	6.5	233	1.45	42.6	3.7	4.5	18	4.6	1.4	0.2	5	0.36	0.031
204734	Rock	1.58	2.7	58.6	170.9	353	0.8	18.3	5.6	338	1.70	44.7	1.6	4.8	44	5.3	1.8	0.4	8	1.18	0.027
204735	Rock	1.68	1.8	27.4	33.5	96	0.3	20.5	7.9	514	2.24	44.7	1.5	4.9	82	0.9	1.0	0.1	16	2.17	0.034
204736	Rock	1.46	2.3	23.2	28.7	78	0.3	15.8	7.8	839	2.98	8.9	0.9	3.5	167	0.6	0.6	0.1	30	4.11	0.050
204737	Rock	1.42	2.0	21.2	17.7	75	0.2	18.9	8.8	1022	3.00	6.0	1.7	4.0	321	0.6	0.5	0.2	30	4.66	0.048
204738	Rock	1.36	1.9	27.2	19.6	91	0.2	23.1	10.1	735	2.53	5.2	4.0	6.0	281	0.4	0.3	0.1	32	3.01	0.068
204739	Rock	1.32	2.2	64.4	86.5	563	0.8	21.8	10.1	617	2.49	5.9	2.7	5.8	111	5.0	0.6	0.8	30	2.00	0.069
204740	Rock	1.03	<0.1	0.6	0.4	1	<0.1	0.2	0.1	98	0.08	<0.5	1.6	<0.1	75	<0.1	<0.1	<0.1	<2	33.31	0.005
204741	Rock	1.20	2.2	32.3	102.6	255	0.7	18.9	8.4	677	2.53	507.0	58.4	5.1	130	2.8	1.4	0.5	28	2.56	0.065
204742	Rock	1.43	1.9	96.5	98.5	469	0.9	21.9	9.6	680	2.74	138.9	8.4	5.1	106	5.2	0.7	0.9	34	2.26	0.064
204743	Rock	1.29	2.3	34.6	27.6	146	0.2	24.2	10.1	594	2.77	14.4	3.9	5.3	119	1.1	0.2	0.2	47	2.14	0.073
204744	Rock	1.67	2.2	135.8	238.8	732	1.9	21.1	9.2	596	2.72	22.4	3.6	5.4	94	6.0	0.3	2.6	37	1.89	0.064
204745	Rock	1.88	2.6	24.5	28.3	111	0.3	21.5	9.5	774	2.74	3.6	1.6	5.8	89	0.8	0.1	0.2	33	2.01	0.066
204746	Rock	1.39	2.3	26.8	26.0	116	0.3	22.2	10.1	848	2.70	38.1	2.3	6.1	156	0.7	0.4	0.1	27	2.68	0.069
204747	Rock	1.52	2.9	30.0	19.8	134	0.4	22.9	10.5	636	2.87	4.5	1.2	5.7	106	1.2	0.2	0.2	34	2.34	0.071
204748	Rock	1.40	1.6	27.1	12.1	99	0.2	21.4	9.8	559	2.77	44.4	3.9	5.8	102	0.6	0.4	<0.1	39	2.06	0.067
204749	Rock	1.87	1.5	25.1	11.6	73	0.3	25.2	9.1	456	2.24	49.5	3.1	7.0	72	0.3	0.6	<0.1	20	1.54	0.049
204750	Rock	1.89	1.4	29.0	9.3	61	0.2	23.4	8.5	383	2.06	24.9	0.8	6.8	56	0.2	0.5	<0.1	17	1.29	0.041
204751	Rock	1.88	1.2	27.1	7.9	45	0.2	22.5	7.1	475	1.89	322.8	11.2	7.2	64	0.1	1.1	<0.1	10	1.61	0.036
204752	Rock	1.34	1.7	79.8	189.1	221	0.8	22.1	6.9	317	1.56	171.9	5.1	7.7	53	2.6	1.2	0.2	6	1.05	0.037
204753	Rock	1.35	1.5	29.1	29.5	84	0.3	23.4	7.8	355	1.85	21.2	1.1	6.8	56	0.6	0.6	0.1	14	1.19	0.039



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001076.1

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
204724	Rock	10	25	1.46	199	<0.001	2	0.57	0.004	0.16	0.3	0.03	7.5	0.1	<0.05	2	<0.5	<0.2
204725	Rock	10	36	1.17	121	0.001	1	0.59	0.004	0.10	0.2	0.03	10.0	<0.1	<0.05	2	<0.5	<0.2
204726	Rock	19	38	0.92	228	0.002	<1	0.51	0.007	0.19	0.2	0.04	10.7	0.2	<0.05	2	<0.5	<0.2
204727	Rock	19	39	1.24	205	0.002	<1	0.52	0.008	0.17	0.1	0.03	10.7	0.1	<0.05	2	0.7	<0.2
204728	Rock	17	32	1.00	185	0.001	2	0.52	0.008	0.19	0.1	0.03	11.2	<0.1	<0.05	2	<0.5	<0.2
204729	Rock	14	25	0.95	184	0.001	2	0.42	0.004	0.18	0.2	0.03	10.2	<0.1	<0.05	1	0.5	<0.2
204730	Rock Pulp	27	54	0.03	85	0.002	4	0.70	0.022	0.23	0.6	0.02	5.1	<0.1	<0.05	3	0.6	<0.2
204731	Rock	14	24	1.08	210	<0.001	2	0.41	0.004	0.18	0.3	0.01	9.7	<0.1	<0.05	<1	0.6	<0.2
204732	Rock	16	10	0.28	179	0.001	2	0.37	0.002	0.14	0.4	0.08	5.2	0.1	<0.05	<1	<0.5	<0.2
204733	Rock	13	10	0.14	197	0.001	<1	0.43	0.002	0.18	0.3	0.17	2.4	0.3	<0.05	<1	0.9	<0.2
204734	Rock	11	12	0.32	380	0.001	<1	0.35	0.002	0.13	0.4	0.07	4.2	0.3	<0.05	<1	0.9	<0.2
204735	Rock	12	23	0.52	183	0.001	<1	0.50	0.003	0.15	0.3	0.05	7.8	0.2	<0.05	1	0.6	<0.2
204736	Rock	11	39	1.28	157	0.001	<1	0.41	0.005	0.12	0.4	0.04	9.2	<0.1	<0.05	1	<0.5	<0.2
204737	Rock	15	42	1.34	155	0.001	2	0.47	0.007	0.11	0.2	0.02	9.2	<0.1	<0.05	2	<0.5	<0.2
204738	Rock	21	39	0.76	184	0.002	2	0.45	0.011	0.16	0.2	0.02	10.3	<0.1	<0.05	2	0.7	<0.2
204739	Rock	22	43	0.69	234	0.021	1	1.00	0.010	0.36	0.2	0.03	8.8	0.3	<0.05	3	1.6	<0.2
204740	Rock	1	<1	0.45	13	0.001	<1	0.01	0.003	<0.01	<0.1	<0.01	0.2	<0.1	0.08	<1	<0.5	<0.2
204741	Rock	19	41	0.88	216	0.014	2	0.94	0.010	0.32	0.3	0.04	7.9	0.2	<0.05	3	1.3	<0.2
204742	Rock	20	50	0.96	230	0.023	<1	1.19	0.009	0.36	0.2	0.03	8.5	0.2	<0.05	4	0.9	<0.2
204743	Rock	22	66	1.11	303	0.034	<1	1.43	0.012	0.42	0.2	0.01	10.5	0.2	<0.05	6	0.9	<0.2
204744	Rock	19	53	0.88	315	0.038	<1	1.14	0.011	0.44	0.2	0.04	7.5	0.2	<0.05	4	2.2	<0.2
204745	Rock	20	49	0.99	274	0.038	1	1.09	0.011	0.49	0.2	<0.01	7.9	0.2	<0.05	3	0.7	<0.2
204746	Rock	22	39	0.90	227	0.006	<1	0.80	0.009	0.23	0.2	0.03	8.7	0.1	<0.05	3	<0.5	<0.2
204747	Rock	22	51	0.76	287	0.021	<1	1.11	0.010	0.34	0.2	0.03	8.3	0.2	<0.05	4	0.9	<0.2
204748	Rock	21	56	0.81	271	0.017	1	1.23	0.011	0.36	0.1	0.02	10.2	0.2	<0.05	4	0.6	<0.2
204749	Rock	25	26	0.47	273	0.014	<1	0.71	0.014	0.31	0.2	0.02	7.0	0.2	<0.05	3	1.1	<0.2
204750	Rock	25	22	0.31	249	0.012	2	0.63	0.016	0.29	0.2	0.02	6.3	0.2	<0.05	3	0.8	<0.2
204751	Rock	24	13	0.37	243	0.003	<1	0.45	0.016	0.19	0.3	0.01	6.0	<0.1	<0.05	1	<0.5	<0.2
204752	Rock	24	10	0.32	243	0.002	1	0.48	0.008	0.25	0.3	0.05	3.6	0.1	<0.05	1	1.1	<0.2
204753	Rock	25	17	0.41	239	0.014	<1	0.65	0.018	0.29	0.2	0.01	5.2	0.1	<0.05	3	1.1	<0.2



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001076.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P			
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%			
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001			
204754	Rock	1.89	1.6	21.7	12.7	74	0.2	20.9	9.7	547	2.73	5.1	<0.5	4.6	108	0.3	0.3	<0.1	39	2.17	0.067		
204755	Rock	1.82	0.7	13.2	12.0	44	0.1	9.9	5.7	480	1.93	3.7	<0.5	7.0	127	0.2	0.2	<0.1	18	2.20	0.040		
204756	Rock	2.25	2.0	23.6	10.6	87	0.2	19.8	10.5	601	2.78	3.3	1.8	4.4	115	0.4	0.2	<0.1	43	2.35	0.082		
204757	Rock	1.53	1.5	19.7	6.0	66	0.2	17.1	8.2	360	2.31	1.5	2.1	2.3	56	0.3	0.1	<0.1	36	1.28	0.083		
204758	Rock	1.59	1.2	17.7	3.8	78	0.2	18.3	9.4	680	2.81	48.4	1.4	2.7	104	0.3	0.3	<0.1	44	2.02	0.083		
204759	Rock	1.71	1.3	18.2	2.8	76	0.1	18.6	9.9	453	2.60	19.2	1.0	1.7	51	0.2	0.2	<0.1	44	1.03	0.086		
204760	Rock	1.94	1.2	18.2	3.0	73	0.1	18.1	9.9	458	2.57	22.9	1.3	1.9	58	0.2	0.2	<0.1	43	1.13	0.084		
204761	Rock	2.03	1.2	17.9	3.5	70	0.2	17.7	9.6	470	2.54	97.3	2.7	2.1	56	0.2	0.3	<0.1	42	1.27	0.085		
204762	Rock	1.43	1.4	22.2	17.8	162	0.4	18.0	9.0	941	2.84	339.6	24.9	3.7	146	1.4	0.7	<0.1	41	3.42	0.068		
204763	Rock	1.32	2.4	102.6	501.4	270	14.4	13.2	6.5	1019	2.75	2551.6	185.4	3.9	261	7.0	3.6	0.2	21	4.25	0.057		
204764	Rock	2.87	2.7	78.0	211.1	305	2.5	17.6	8.4	843	2.62	713.6	69.7	5.8	183	3.6	3.1	0.8	21	2.63	0.060		
204765	Rock	1.71	3.3	65.8	333.0	701	2.4	5.2	4.0	504	1.82	455.9	79.8	7.1	94	9.5	2.5	0.6	8	1.32	0.041		
204766	Rock	1.88	1.8	9.8	33.1	74	0.2	3.4	2.0	244	1.03	49.2	9.4	12.7	92	0.7	0.7	0.2	4	1.34	0.021		
204767	Rock	1.53	0.6	4.3	18.9	25	0.2	1.1	0.8	309	0.73	34.4	20.3	12.2	75	0.4	0.3	0.1	<2	1.59	0.009		
204768	Rock	2.53	0.7	3.7	17.4	19	0.1	1.2	0.6	141	0.64	21.0	12.6	14.4	36	0.3	0.2	0.1	<2	0.68	0.007		
204769	Rock	1.75	0.8	2.7	14.3	24	0.2	0.8	0.5	198	0.60	46.0	72.4	13.5	83	0.4	0.2	0.1	<2	1.25	0.005		
204770	Rock Pulp	0.08	14.1	35.4	16.8	19	0.4	11.8	7.0	50	2.99	487.4	239.7	0.8	28	0.5	23.0	0.2	10	1.02	0.006		
204771	Rock	1.47	0.4	2.0	10.1	13	0.1	0.6	0.3	188	0.44	12.4	17.6	12.6	44	0.2	<0.1	<0.1	<2	1.14	0.003		



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
204754	Rock	20	50	0.66	275	0.007	1	1.23	0.013	0.27	0.1	0.02	9.3	0.2	<0.05	4	0.6	<0.2
204755	Rock	25	22	0.63	285	0.005	<1	0.67	0.015	0.20	0.2	0.01	5.7	0.1	<0.05	2	0.5	<0.2
204756	Rock	16	61	1.09	237	0.075	<1	1.25	0.019	0.22	0.3	<0.01	9.4	<0.1	0.05	4	0.9	<0.2
204757	Rock	7	54	1.09	156	0.089	<1	1.00	0.027	0.16	0.2	<0.01	6.8	<0.1	<0.05	3	0.8	<0.2
204758	Rock	9	66	1.65	177	0.068	<1	1.37	0.017	0.15	0.3	<0.01	9.2	<0.1	0.05	4	<0.5	<0.2
204759	Rock	5	73	1.60	138	0.072	1	1.28	0.019	0.12	0.2	<0.01	7.2	<0.1	<0.05	3	0.7	<0.2
204760	Rock	6	72	1.55	159	0.083	<1	1.30	0.021	0.13	0.2	<0.01	7.1	<0.1	0.05	3	0.5	<0.2
204761	Rock	6	64	1.41	142	0.072	1	1.23	0.020	0.12	0.2	<0.01	7.3	<0.1	0.06	3	0.6	<0.2
204762	Rock	16	55	1.15	194	0.014	<1	1.27	0.012	0.21	0.2	0.02	9.2	0.1	0.06	4	<0.5	<0.2
204763	Rock	16	30	1.08	160	0.005	2	0.72	0.009	0.15	0.4	0.09	8.1	0.1	0.25	2	1.1	<0.2
204764	Rock	18	30	0.93	253	0.004	2	0.58	0.014	0.20	0.3	0.06	8.2	0.1	0.24	2	<0.5	<0.2
204765	Rock	21	14	0.45	189	0.002	2	0.43	0.015	0.19	0.8	0.07	5.2	<0.1	0.35	1	0.9	<0.2
204766	Rock	42	13	0.18	223	0.002	1	0.47	0.017	0.22	0.6	0.05	3.9	<0.1	0.07	2	<0.5	<0.2
204767	Rock	36	5	0.14	181	<0.001	2	0.30	0.015	0.21	0.5	0.02	2.8	<0.1	0.12	<1	<0.5	<0.2
204768	Rock	40	6	0.07	166	<0.001	1	0.37	0.013	0.22	0.5	0.03	2.0	<0.1	0.09	1	0.6	<0.2
204769	Rock	37	5	0.05	187	<0.001	2	0.29	0.017	0.19	0.6	0.02	2.0	<0.1	0.12	<1	<0.5	<0.2
204770	Rock Pulp	2	19	0.03	1022	0.010	5	0.18	0.009	0.07	27.4	2.94	0.8	14.4	0.13	<1	1.6	<0.2
204771	Rock	40	4	0.05	184	<0.001	<1	0.29	0.019	0.18	0.4	0.02	1.6	<0.1	0.06	<1	<0.5	<0.2



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# QUALITY CONTROL REPORT

# WHI17001076.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
204662	Rock	2.26	1.2	21.7	12.7	78	0.3	22.5	9.6	713	2.89	93.6	5.0	5.1	144	0.4	0.6	<0.1	24	3.09	0.056
REP 204662	QC		1.4	21.2	12.4	75	0.3	21.3	9.6	726	2.87	91.9	5.0	4.9	139	0.3	0.6	<0.1	24	3.10	0.060
204697	Rock	1.67	1.2	17.3	36.5	85	0.2	16.0	8.8	546	2.44	0.9	<0.5	2.9	73	0.6	0.1	<0.1	39	1.63	0.081
REP 204697	QC		1.1	17.0	36.4	87	0.2	15.4	8.3	552	2.42	1.0	<0.5	2.8	72	0.6	0.1	<0.1	39	1.62	0.071
204731	Rock	1.48	1.5	22.5	12.7	72	0.6	20.1	9.3	684	2.63	988.9	179.0	4.3	182	0.3	1.3	0.1	16	3.76	0.054
REP 204731	QC		1.6	22.4	13.3	72	0.6	19.7	8.8	666	2.61	979.4	193.2	4.6	190	0.4	1.3	0.1	16	3.75	0.054
REP 204766	QC		1.8	9.6	33.2	74	0.2	3.3	2.0	245	1.02	47.5	7.9	12.7	87	0.8	0.7	0.2	4	1.33	0.020
Core Reject Duplicates																					
204665	Rock	1.73	2.0	22.5	18.0	96	0.3	19.1	9.2	1076	2.78	16.0	<0.5	4.9	200	0.3	0.4	<0.1	27	5.18	0.055
DUP 204665	QC		2.1	24.1	20.9	100	0.4	20.4	9.9	1038	2.82	17.1	<0.5	4.9	198	0.3	0.4	0.1	28	5.10	0.053
204699	Rock	1.84	1.0	36.0	82.5	230	0.3	17.0	9.4	1037	3.16	1.3	<0.5	4.9	150	1.6	0.3	0.2	40	2.92	0.071
DUP 204699	QC		0.8	33.1	92.2	224	0.3	16.0	9.1	1039	3.12	1.0	<0.5	4.5	147	1.4	0.3	0.2	40	2.94	0.066
204732	Rock	1.82	1.5	31.3	22.0	109	0.5	23.9	8.0	372	1.92	603.8	28.5	5.3	43	0.6	1.9	0.1	6	1.19	0.030
DUP 204732	QC		1.5	29.7	22.7	106	0.5	22.4	7.4	348	1.86	612.3	31.5	5.4	46	0.8	2.1	0.1	6	1.20	0.033
204766	Rock	1.88	1.8	9.8	33.1	74	0.2	3.4	2.0	244	1.03	49.2	9.4	12.7	92	0.7	0.7	0.2	4	1.34	0.021
DUP 204766	QC		1.8	9.4	31.3	67	0.2	3.5	2.1	243	1.02	43.6	9.0	12.8	83	0.7	0.7	0.2	4	1.29	0.019
Reference Materials																					
STD DS11	Standard		15.2	147.6	140.6	332	1.6	75.2	13.7	1038	3.15	41.7	76.3	8.2	71	2.2	8.5	12.2	50	1.09	0.071
STD DS11	Standard		14.7	154.1	142.6	348	1.8	81.1	14.1	1063	3.14	43.6	82.0	7.6	69	2.5	8.2	11.6	49	1.06	0.069
STD DS11	Standard		14.4	156.8	140.2	357	1.8	80.9	14.5	1063	3.14	44.3	76.7	8.4	72	2.4	8.3	12.2	49	1.08	0.067
STD DS11	Standard		14.1	151.3	133.9	340	1.7	75.4	13.5	993	3.11	42.3	168.1	7.8	66	2.3	8.4	11.8	48	1.07	0.074
STD OXC129	Standard		1.3	28.0	6.3	39	<0.1	78.4	20.1	423	3.01	0.5	208.0	1.9	194	<0.1	<0.1	<0.1	52	0.75	0.099
STD OXC129	Standard		1.3	27.6	6.3	40	<0.1	81.2	20.7	420	3.02	0.6	200.2	1.7	202	<0.1	<0.1	<0.1	52	0.74	0.097
STD OXC129	Standard		1.3	28.4	6.5	42	<0.1	81.0	22.1	415	3.11	0.6	190.4	1.9	201	<0.1	<0.1	<0.1	52	0.70	0.104
STD OXC129	Standard		1.3	27.8	6.3	41	<0.1	77.5	19.9	416	3.07	0.7	182.6	1.8	186	<0.1	<0.1	<0.1	52	0.71	0.102
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



# QUALITY CONTROL REPORT

WHI17001076.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
204662	Rock	15	35	1.14	225	0.002	<1	0.35	0.005	0.13	0.2	0.05	7.9	<0.1	<0.05	1	0.8	<0.2
REP 204662	QC	15	35	1.16	220	0.002	<1	0.35	0.005	0.13	0.3	0.06	7.9	<0.1	<0.05	1	0.7	<0.2
204697	Rock	10	59	1.28	628	0.098	<1	1.20	0.023	0.25	0.2	<0.01	8.0	0.1	0.10	4	0.6	<0.2
REP 204697	QC	9	58	1.28	619	0.094	<1	1.16	0.022	0.25	0.2	<0.01	8.0	0.1	0.10	4	0.6	<0.2
204731	Rock	14	24	1.08	210	<0.001	2	0.41	0.004	0.18	0.3	0.01	9.7	<0.1	<0.05	<1	0.6	<0.2
REP 204731	QC	13	24	1.10	199	<0.001	3	0.42	0.004	0.18	0.3	0.02	9.9	<0.1	<0.05	1	<0.5	<0.2
REP 204766	QC	39	13	0.18	216	0.002	<1	0.45	0.017	0.22	0.6	0.04	4.1	<0.1	0.07	2	<0.5	<0.2
Core Reject Duplicates																		
204665	Rock	14	37	1.99	160	0.001	<1	0.35	0.006	0.13	0.2	0.02	9.8	<0.1	<0.05	1	0.6	<0.2
DUP 204665	QC	14	40	1.97	187	0.001	<1	0.41	0.007	0.16	0.2	0.02	10.2	<0.1	<0.05	1	0.6	<0.2
204699	Rock	16	71	1.40	357	0.038	<1	0.91	0.024	0.52	0.2	0.03	10.6	0.3	0.19	4	0.7	<0.2
DUP 204699	QC	16	69	1.39	328	0.035	<1	0.90	0.024	0.51	0.2	0.04	10.2	0.3	0.19	3	0.5	<0.2
204732	Rock	16	10	0.28	179	0.001	2	0.37	0.002	0.14	0.4	0.08	5.2	0.1	<0.05	<1	<0.5	<0.2
DUP 204732	QC	15	9	0.27	165	0.001	<1	0.34	0.002	0.14	0.4	0.08	5.3	0.1	<0.05	<1	0.9	<0.2
204766	Rock	42	13	0.18	223	0.002	1	0.47	0.017	0.22	0.6	0.05	3.9	<0.1	0.07	2	<0.5	<0.2
DUP 204766	QC	39	13	0.16	215	0.002	2	0.44	0.018	0.22	0.5	0.05	3.9	<0.1	0.07	2	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	20	61	0.85	385	0.100	7	1.22	0.075	0.41	3.1	0.24	3.1	5.2	0.27	5	2.3	5.0
STD DS11	Standard	19	60	0.85	382	0.095	7	1.20	0.074	0.41	3.0	0.27	3.2	5.0	0.28	5	2.2	4.6
STD DS11	Standard	19	61	0.86	370	0.100	7	1.16	0.072	0.41	3.0	0.29	3.3	4.9	0.28	5	2.9	5.0
STD DS11	Standard	20	60	0.84	369	0.097	8	1.16	0.072	0.41	2.9	0.36	3.1	4.7	0.27	5	2.2	4.3
STD OXC129	Standard	13	53	1.54	52	0.399	<1	1.64	0.594	0.36	0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	53	1.52	50	0.403	1	1.67	0.615	0.37	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	56	1.57	51	0.416	1	1.61	0.607	0.36	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	55	1.54	50	0.411	1	1.60	0.582	0.36	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Client:** Taku Gold Corp  
680 3rd Ave, Suite 203  
Val D'Or Québec J9P 1S5 Canada

**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# QUALITY CONTROL REPORT

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		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
Prep Wash																						
ROCK-WHI	Prep Blank		0.9	15.1	1.4	44	<0.1	2.7	5.4	680	2.19	2.3	<0.5	2.0	34	<0.1	<0.1	<0.1	27	0.97	0.041	
ROCK-WHI	Prep Blank		0.7	15.1	1.4	43	<0.1	2.4	5.9	621	2.13	1.9	<0.5	1.9	36	<0.1	<0.1	<0.1	28	0.80	0.043	





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# QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	5	0.66	60	0.081	1	1.37	0.099	0.10	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
ROCK-WHI	Prep Blank	6	4	0.65	65	0.084	1	1.21	0.089	0.08	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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Bureau Veritas Commodities Canada Ltd.  
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**Client:** **Taku Gold Corp**  
680 3rd Ave, Suite 203  
Val D'Or Québec J9P 1S5 Canada

Submitted By: Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: October 18, 2017  
Report Date: November 29, 2017  
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## CERTIFICATE OF ANALYSIS

WHI17001077.2

### CLIENT JOB INFORMATION

Project: SULPHUR  
Shipment ID:  
P.O. Number  
Number of Samples: 138

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Taku Gold Corp.  
Suite 608 - 409 Granville St.  
Vancouver British Columbia V6C 1T2  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	134	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
AQ201	138	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001077.2

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204772	Rock	2.09	0.8	3.9	12.0	14	0.2	1.0	0.4	174	0.57	13.7	12.8	12.3	64	0.3	0.2	0.1	<2	0.90	0.004
204773	Rock	2.19	0.9	4.3	12.5	21	0.1	1.0	0.4	129	0.66	8.1	3.9	13.1	32	0.4	0.2	0.1	<2	0.47	0.006
204774	Rock	1.35	0.8	3.0	14.3	24	0.1	0.7	0.4	133	0.72	4.3	2.4	13.5	25	0.5	0.3	0.2	<2	0.41	0.006
204775	Rock	1.46	1.1	4.3	17.1	24	0.2	0.8	0.6	150	0.75	5.6	3.2	13.2	42	0.6	0.2	0.2	<2	0.65	0.006
204776	Rock	1.49	0.8	3.4	19.1	35	0.1	0.9	0.5	141	0.85	4.0	1.1	13.6	26	0.4	0.2	0.1	<2	0.42	0.004
204777	Rock	1.83	1.3	17.2	49.1	30	0.6	1.3	0.5	176	0.83	8.9	10.6	13.0	39	0.7	0.2	0.3	<2	0.76	0.004
204778	Rock	1.95	0.9	6.8	18.8	22	0.2	1.2	0.5	150	0.80	5.2	4.7	12.7	34	0.5	0.2	0.1	<2	0.66	0.004
204779	Rock	2.25	0.5	5.4	18.7	47	0.1	1.2	0.7	132	0.83	1.6	<0.5	14.1	25	0.8	<0.1	0.2	<2	0.40	0.004
204780	Rock	1.10	<0.1	0.8	0.6	1	<0.1	<0.1	0.1	90	0.08	<0.5	<0.5	<0.1	84	<0.1	<0.1	<0.1	<2	35.16	0.006
204781	Rock	1.86	0.5	3.4	12.2	28	<0.1	1.1	0.4	97	0.63	1.3	0.6	12.2	17	0.2	<0.1	0.1	<2	0.31	0.003
204782	Rock	2.76	0.5	2.8	9.1	26	<0.1	0.8	0.3	92	0.54	1.5	1.3	12.7	17	0.2	0.1	<0.1	<2	0.35	0.004
204783	Rock	1.38	0.3	5.0	8.1	15	<0.1	0.8	0.4	101	0.54	6.1	6.5	13.9	21	0.1	0.1	<0.1	<2	0.37	0.005
204785	Rock	0.84	0.8	3.3	12.1	28	<0.1	4.2	0.6	189	0.71	24.3	7.8	17.2	5	0.1	0.2	0.1	<2	0.06	0.005
204786	Rock	1.92	0.6	3.1	11.2	23	<0.1	4.1	0.5	208	0.77	27.2	25.3	15.8	5	0.1	0.2	<0.1	<2	0.03	0.006
204787	Rock	2.27	0.9	3.1	25.4	29	0.1	4.7	0.5	208	0.72	25.3	17.5	13.9	5	0.2	0.2	0.1	<2	0.06	0.005
204788	Rock	3.25	0.6	2.5	8.6	8	<0.1	2.5	0.4	147	0.54	3.9	2.0	14.6	7	0.2	0.1	<0.1	<2	0.12	0.005
204789	Rock	1.09	0.6	2.6	5.8	11	<0.1	1.4	0.3	156	0.59	4.6	6.6	14.8	12	<0.1	0.2	<0.1	<2	0.24	0.006
204790	Rock	1.63	0.7	2.4	5.7	13	<0.1	1.5	0.4	155	0.74	11.8	12.7	13.5	6	<0.1	0.2	<0.1	<2	0.08	0.005
204791	Rock	1.81	0.6	2.6	15.7	16	0.2	1.7	0.5	135	0.77	32.5	33.3	15.1	8	<0.1	0.2	0.1	<2	0.12	0.006
204792	Rock	1.48	0.8	3.1	12.1	8	0.1	1.1	0.4	122	0.53	11.9	10.8	13.2	23	<0.1	0.2	0.1	<2	0.50	0.005
204793	Rock	1.52	0.8	3.2	20.9	12	0.2	1.6	0.5	101	0.67	32.3	28.5	14.5	17	0.1	0.2	<0.1	<2	0.32	0.005
204794	Rock	1.70	0.7	2.6	16.4	17	0.1	1.4	0.5	185	0.78	22.5	17.7	14.3	31	0.2	0.2	0.1	<2	0.74	0.006
204795	Rock	1.30	0.8	4.4	13.9	12	0.1	1.3	0.4	169	0.65	24.3	23.0	15.1	22	0.1	0.1	<0.1	<2	0.49	0.004
204796	Rock	1.19	0.9	3.3	22.2	24	0.2	2.0	0.6	203	0.91	65.9	64.4	14.5	39	0.1	0.3	<0.1	<2	1.07	0.005
204797	Rock	1.52	0.9	3.6	20.7	35	0.2	1.6	0.5	157	0.95	111.6	61.9	14.1	22	0.2	0.3	<0.1	<2	0.67	0.005
204798	Rock	1.60	0.9	3.8	15.3	35	0.1	1.4	0.5	130	0.93	14.6	6.5	14.5	14	0.2	0.2	0.1	<2	0.40	0.005
204799	Rock	1.37	0.7	4.9	13.6	27	0.1	1.6	0.5	145	0.81	6.5	5.9	14.3	19	0.1	0.1	0.1	<2	0.41	0.005
204800	Rock	1.50	0.7	4.9	13.9	29	0.1	1.6	0.5	141	0.82	7.8	6.7	14.9	17	<0.1	0.2	0.1	<2	0.36	0.004
204801	Rock	1.49	0.8	2.4	36.2	24	0.2	1.2	0.5	173	0.68	6.5	6.1	14.9	29	0.1	0.2	0.2	<2	0.65	0.004
204802	Rock	1.59	0.4	2.3	13.8	36	0.2	1.3	0.4	104	0.91	43.3	34.3	13.4	12	<0.1	0.2	<0.1	<2	0.27	0.005



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

WHI17001077.2

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
204772	Rock	38	5	0.04	211	<0.001	1	0.24	0.023	0.21	0.3	0.02	1.4	<0.1	0.09	<1	<0.5	<0.2
204773	Rock	42	5	0.06	203	0.002	<1	0.32	0.022	0.23	0.2	0.02	2.1	<0.1	<0.05	1	<0.5	<0.2
204774	Rock	44	4	0.06	169	0.003	<1	0.34	0.029	0.22	0.3	0.02	2.9	<0.1	<0.05	2	0.8	<0.2
204775	Rock	43	4	0.08	179	0.003	<1	0.38	0.022	0.25	0.4	0.02	2.8	<0.1	<0.05	2	<0.5	<0.2
204776	Rock	42	4	0.09	137	0.002	<1	0.40	0.021	0.21	0.3	0.04	2.8	<0.1	<0.05	2	<0.5	<0.2
204777	Rock	39	7	0.08	197	0.001	1	0.52	0.019	0.25	0.4	0.05	2.4	<0.1	<0.05	2	<0.5	<0.2
204778	Rock	36	6	0.07	322	0.001	<1	0.41	0.022	0.26	0.3	0.02	2.1	<0.1	<0.05	1	<0.5	<0.2
204779	Rock	40	5	0.07	514	0.002	<1	0.44	0.038	0.25	0.3	0.06	2.2	0.1	<0.05	2	<0.5	<0.2
204780	Rock	1	<1	0.45	16	0.002	<1	0.01	0.003	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
204781	Rock	36	6	0.04	234	0.001	<1	0.29	0.020	0.20	0.3	0.04	1.9	<0.1	<0.05	1	<0.5	<0.2
204782	Rock	37	4	0.05	169	<0.001	<1	0.28	0.013	0.19	0.4	0.03	1.7	<0.1	<0.05	1	<0.5	<0.2
204783	Rock	42	4	0.05	257	0.001	<1	0.30	0.023	0.21	0.2	0.02	1.7	<0.1	<0.05	<1	<0.5	<0.2
204785	Rock	53	5	0.05	218	0.001	<1	0.40	0.035	0.18	0.4	0.02	3.0	<0.1	<0.05	1	<0.5	<0.2
204786	Rock	64	6	0.05	272	0.001	<1	0.39	0.040	0.20	0.3	0.02	2.9	<0.1	<0.05	1	<0.5	<0.2
204787	Rock	64	7	0.05	198	<0.001	<1	0.32	0.023	0.17	0.4	0.03	2.0	<0.1	<0.05	1	<0.5	<0.2
204788	Rock	45	6	0.04	222	<0.001	<1	0.31	0.032	0.22	0.2	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
204789	Rock	44	8	0.03	216	0.001	<1	0.27	0.029	0.20	0.7	<0.01	1.7	<0.1	<0.05	<1	<0.5	<0.2
204790	Rock	40	7	0.04	227	<0.001	<1	0.31	0.033	0.21	0.5	0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
204791	Rock	44	8	0.06	226	<0.001	<1	0.38	0.032	0.23	0.4	0.02	1.9	<0.1	<0.05	1	<0.5	<0.2
204792	Rock	39	7	0.03	190	<0.001	<1	0.25	0.027	0.19	0.6	0.01	1.8	<0.1	<0.05	<1	<0.5	<0.2
204793	Rock	45	8	0.04	207	<0.001	2	0.33	0.026	0.24	0.6	<0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
204794	Rock	44	8	0.07	233	0.001	1	0.39	0.023	0.22	0.6	0.02	2.3	<0.1	<0.05	1	<0.5	<0.2
204795	Rock	42	7	0.03	274	0.001	<1	0.27	0.028	0.23	0.5	0.03	1.6	<0.1	<0.05	<1	<0.5	<0.2
204796	Rock	44	9	0.04	270	<0.001	<1	0.31	0.030	0.24	0.7	0.04	2.3	<0.1	<0.05	1	<0.5	<0.2
204797	Rock	45	9	0.05	223	<0.001	<1	0.34	0.032	0.22	0.6	0.02	2.4	<0.1	<0.05	1	<0.5	<0.2
204798	Rock	43	8	0.11	206	<0.001	<1	0.43	0.020	0.18	0.5	0.02	2.7	<0.1	<0.05	1	<0.5	<0.2
204799	Rock	43	8	0.09	249	<0.001	<1	0.42	0.021	0.22	0.5	0.01	2.1	<0.1	<0.05	1	<0.5	<0.2
204800	Rock	44	8	0.08	247	<0.001	<1	0.40	0.022	0.22	0.4	0.02	2.2	<0.1	<0.05	1	<0.5	<0.2
204801	Rock	46	7	0.07	247	<0.001	<1	0.36	0.015	0.21	0.5	0.02	1.8	<0.1	<0.05	1	<0.5	<0.2
204802	Rock	42	5	0.09	167	<0.001	1	0.37	0.024	0.20	0.4	0.02	1.9	<0.1	<0.05	1	<0.5	<0.2

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



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001077.2

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204803	Rock	0.98	0.2	2.9	22.2	23	0.3	0.9	0.3	85	0.66	95.6	87.3	13.7	34	0.1	0.4	<0.1	<2	0.34	0.004
204804	Rock	1.12	0.2	3.6	12.3	16	0.2	0.7	0.3	130	0.58	89.2	73.2	12.2	41	<0.1	0.1	<0.1	<2	0.75	0.003
204805	Rock	1.11	0.3	3.1	10.1	19	0.2	1.2	0.4	242	0.70	34.2	55.6	11.9	102	0.1	0.2	<0.1	<2	1.95	0.004
204806	Rock	1.53	0.3	2.4	10.5	15	<0.1	1.3	0.4	95	0.65	15.4	17.5	10.4	25	<0.1	0.2	<0.1	<2	0.64	0.004
204807	Rock	1.40	2.4	2.7	36.2	40	0.2	1.1	0.4	345	0.92	99.4	78.1	9.5	192	0.3	0.3	0.1	<2	4.11	0.003
204808	Rock	1.44	1.9	2.2	12.2	28	0.1	0.8	0.4	118	0.78	22.7	16.4	11.7	74	0.1	0.2	<0.1	<2	1.04	0.003
204809	Rock	1.65	0.2	1.3	8.1	16	0.1	0.9	0.4	222	1.00	15.5	23.2	10.6	75	<0.1	0.1	<0.1	<2	2.50	0.003
204810	Rock Pulp	0.11	2.1	35.9	12.7	54	<0.1	25.0	3.4	41	2.98	811.7	858.5	7.8	16	<0.1	34.6	0.3	16	0.01	0.021
204811	Rock	1.80	0.3	2.0	14.7	28	0.2	0.9	0.4	167	0.95	126.2	91.1	10.0	58	0.1	0.3	<0.1	<2	1.50	0.004
204812	Rock	1.55	0.2	2.1	18.0	23	0.3	0.6	0.3	101	0.66	32.9	42.2	9.6	25	0.1	0.2	0.1	<2	0.62	0.003
204813	Rock	1.72	0.2	2.4	15.3	21	0.2	1.0	0.3	85	0.61	5.0	6.2	11.7	22	<0.1	0.2	<0.1	<2	0.51	0.004
204814	Rock	1.90	0.5	5.4	6.8	24	0.2	1.8	0.6	172	0.84	12.7	11.0	8.0	43	0.2	0.2	<0.1	<2	1.26	0.010
204815	Rock	2.17	0.6	3.0	6.9	38	<0.1	2.3	1.3	203	1.04	8.6	5.5	7.2	61	0.1	0.2	<0.1	<2	1.27	0.018
204816	Rock	1.85	1.2	3.6	80.4	101	0.2	2.2	1.3	381	1.48	30.9	56.1	6.0	84	0.6	0.4	0.1	<2	3.37	0.015
204817	Rock	1.61	0.7	7.3	17.4	38	0.3	1.6	1.0	257	0.93	14.7	19.5	6.5	38	0.3	0.9	<0.1	<2	1.79	0.012
204818	Rock	1.90	2.6	15.4	91.9	69	0.7	2.4	1.2	347	1.22	27.8	42.1	6.0	81	0.6	0.9	0.1	<2	3.24	0.010
204819	Rock	1.83	1.0	4.5	9.6	42	0.1	1.8	1.0	302	1.14	38.3	39.6	9.0	47	0.3	0.6	<0.1	<2	2.06	0.010
204820	Rock	0.96	<0.1	0.3	0.4	<1	<0.1	<0.1	<0.1	70	0.08	0.6	<0.5	<0.1	60	<0.1	<0.1	<0.1	<2	29.82	0.005
204821	Rock	1.99	0.4	1.9	10.8	11	0.1	1.1	0.7	296	0.81	26.3	23.1	8.1	48	0.1	0.2	<0.1	<2	2.12	0.007
204822	Rock	1.63	0.4	2.3	10.9	11	0.1	0.8	0.5	148	0.77	32.0	42.1	9.9	32	0.1	0.1	0.1	<2	1.13	0.004
204823	Rock	1.65	0.6	3.4	15.8	9	0.2	0.9	0.4	147	0.73	43.6	49.1	10.6	43	0.2	0.2	0.1	<2	1.43	0.003
204824	Rock	1.91	0.7	3.3	13.3	13	0.1	0.8	0.4	81	0.59	13.0	18.7	12.7	17	0.3	0.3	0.1	<2	0.41	0.004
204825	Rock	2.19	1.2	1.8	6.9	8	<0.1	0.9	0.3	112	0.69	39.4	49.8	11.0	27	0.1	0.2	0.1	<2	0.82	0.004
204826	Rock	2.31	1.1	3.9	15.8	24	0.3	0.5	0.2	91	0.64	106.3	101.5	10.4	21	0.8	0.2	0.1	<2	0.66	0.004
204827	Rock	1.51	1.4	3.2	9.0	15	0.2	0.7	0.2	118	0.61	13.3	17.1	10.9	31	0.2	0.1	0.1	<2	0.88	0.005
204828	Rock	1.38	0.7	2.1	12.7	24	0.2	0.6	0.3	146	0.71	30.3	38.3	10.2	41	0.2	0.2	<0.1	<2	1.03	0.004
204829	Rock	1.39	0.4	1.5	6.3	14	<0.1	0.7	0.3	102	0.57	13.3	14.1	11.2	18	0.1	0.1	<0.1	<2	0.43	0.004
204830	Rock	2.09	0.4	1.3	10.7	12	<0.1	0.5	0.3	109	0.54	13.7	15.9	10.5	24	0.2	0.1	<0.1	<2	0.67	0.004
204831	Rock	1.90	0.6	2.4	8.6	10	<0.1	1.1	44.1	105	0.61	13.9	24.4	8.0	22	<0.1	0.1	<0.1	<2	0.65	0.003
204832	Rock	1.60	0.5	2.6	17.8	22	0.2	2.3	1.5	220	0.90	113.1	127.7	10.5	35	0.1	0.1	<0.1	<2	1.18	0.003



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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
204803	Rock	39	3	0.11	1061	<0.001	<1	0.42	0.014	0.24	0.3	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
204804	Rock	36	3	0.05	284	<0.001	<1	0.30	0.021	0.22	0.3	0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
204805	Rock	36	4	0.07	264	<0.001	<1	0.34	0.015	0.23	0.3	0.02	1.7	<0.1	<0.05	<1	<0.5	<0.2
204806	Rock	29	3	0.08	205	<0.001	3	0.30	0.015	0.23	0.2	0.03	1.4	<0.1	<0.05	<1	<0.5	<0.2
204807	Rock	26	3	0.14	165	<0.001	1	0.25	0.018	0.13	0.3	0.03	3.1	<0.1	<0.05	<1	<0.5	<0.2
204808	Rock	35	2	0.15	124	<0.001	3	0.29	0.010	0.15	0.3	0.06	2.4	<0.1	<0.05	<1	<0.5	<0.2
204809	Rock	33	3	0.86	157	<0.001	<1	0.28	0.015	0.18	0.2	0.04	2.3	<0.1	<0.05	<1	<0.5	<0.2
204810	Rock Pulp	23	47	0.03	74	0.002	2	0.61	0.022	0.21	0.6	0.02	5.4	<0.1	<0.05	2	<0.5	<0.2
204811	Rock	33	3	0.41	148	<0.001	1	0.27	0.023	0.17	0.4	0.04	2.5	<0.1	<0.05	<1	<0.5	<0.2
204812	Rock	30	2	0.11	122	<0.001	1	0.28	0.011	0.18	0.4	0.04	1.6	<0.1	<0.05	<1	<0.5	<0.2
204813	Rock	36	3	0.07	123	<0.001	<1	0.37	0.005	0.18	0.2	0.03	2.1	<0.1	<0.05	<1	<0.5	<0.2
204814	Rock	23	3	0.31	188	<0.001	1	0.32	0.005	0.19	0.3	0.04	1.9	<0.1	<0.05	<1	<0.5	<0.2
204815	Rock	21	3	0.24	119	0.001	<1	0.26	0.012	0.15	0.3	0.05	2.5	<0.1	<0.05	<1	<0.5	<0.2
204816	Rock	18	4	0.72	285	<0.001	3	0.24	0.012	0.12	0.3	0.09	3.5	<0.1	<0.05	<1	<0.5	<0.2
204817	Rock	20	3	0.38	132	<0.001	1	0.21	0.003	0.16	0.4	0.06	2.0	<0.1	<0.05	<1	<0.5	<0.2
204818	Rock	18	3	0.83	144	<0.001	<1	0.28	0.003	0.15	0.4	0.08	2.8	<0.1	<0.05	<1	<0.5	<0.2
204819	Rock	26	3	0.50	142	<0.001	<1	0.28	0.009	0.15	0.4	0.06	3.3	<0.1	<0.05	<1	<0.5	<0.2
204820	Rock	<1	<1	0.44	11	<0.001	<1	0.02	0.003	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
204821	Rock	27	3	0.41	193	<0.001	2	0.27	0.005	0.18	0.3	0.03	2.1	<0.1	<0.05	<1	<0.5	<0.2
204822	Rock	33	3	0.35	133	<0.001	<1	0.23	0.016	0.15	0.4	0.03	2.0	<0.1	<0.05	<1	<0.5	<0.2
204823	Rock	31	3	0.47	160	<0.001	<1	0.30	0.014	0.18	0.4	0.03	1.7	<0.1	<0.05	<1	<0.5	<0.2
204824	Rock	38	3	0.12	179	<0.001	1	0.28	0.021	0.19	0.4	0.08	2.0	<0.1	<0.05	<1	<0.5	<0.2
204825	Rock	37	4	0.22	168	<0.001	3	0.34	0.014	0.19	0.4	0.03	2.3	<0.1	<0.05	<1	<0.5	<0.2
204826	Rock	35	2	0.20	158	<0.001	1	0.26	0.018	0.18	0.4	0.07	2.1	<0.1	<0.05	<1	<0.5	<0.2
204827	Rock	36	3	0.34	538	<0.001	<1	0.39	0.014	0.23	0.3	0.04	1.2	<0.1	<0.05	<1	<0.5	<0.2
204828	Rock	35	2	0.26	170	<0.001	<1	0.27	0.021	0.14	0.2	0.05	2.1	<0.1	<0.05	<1	<0.5	<0.2
204829	Rock	35	3	0.12	230	<0.001	<1	0.30	0.033	0.20	0.3	0.04	1.9	<0.1	<0.05	<1	<0.5	<0.2
204830	Rock	32	2	0.16	172	<0.001	<1	0.27	0.009	0.16	0.3	0.05	1.9	<0.1	<0.05	<1	<0.5	<0.2
204831	Rock	26	4	0.13	224	<0.001	3	0.29	0.005	0.17	>100	0.04	1.5	<0.1	<0.05	<1	<0.5	<0.2
204832	Rock	36	4	0.36	209	<0.001	2	0.40	0.015	0.21	4.4	0.05	2.4	<0.1	<0.05	<1	<0.5	<0.2



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**Project:** SULPHUR  
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# CERTIFICATE OF ANALYSIS

# WHI17001077.2

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204833	Rock	1.62	0.7	2.3	15.1	24	0.2	1.9	1.2	194	0.83	117.6	76.1	9.6	44	0.2	0.1	<0.1	<2	1.20	0.003
204834	Rock	1.65	0.6	2.6	8.7	15	0.1	1.0	0.9	120	0.73	29.7	40.7	9.3	21	<0.1	0.1	<0.1	<2	0.64	0.003
204835	Rock	1.48	0.5	2.7	14.5	29	0.2	1.0	0.4	76	0.78	35.9	70.0	10.4	12	0.3	0.1	<0.1	<2	0.30	0.004
204836	Rock	2.22	0.4	2.8	17.6	30	0.2	0.7	0.4	91	0.82	118.6	223.0	10.1	16	0.2	0.2	<0.1	<2	0.42	0.004
204837	Rock	1.50	0.7	2.2	19.2	33	0.2	0.9	0.4	217	1.03	103.5	98.9	9.8	45	0.3	0.2	<0.1	<2	1.36	0.004
204838	Rock	1.79	0.4	2.8	12.7	24	0.2	0.9	0.4	182	0.69	47.7	46.7	9.7	42	0.1	0.1	<0.1	<2	1.39	0.004
204839	Rock	1.75	0.5	2.4	22.1	30	0.2	0.8	0.4	170	0.70	144.7	101.1	10.5	85	0.2	0.2	<0.1	<2	1.63	0.003
204840	Rock	1.80	0.6	2.7	22.3	33	0.2	0.7	0.4	183	0.73	150.3	103.3	10.9	100	0.3	0.2	<0.1	<2	1.83	0.004
204841	Rock	1.98	0.8	3.9	20.2	23	0.3	2.3	0.6	154	0.55	142.0	95.1	12.9	43	0.2	0.2	<0.1	<2	1.02	0.004
204842	Rock	2.11	0.6	3.2	3.7	9	<0.1	3.1	0.9	173	0.51	14.7	9.3	12.2	39	0.1	<0.1	<0.1	<2	1.03	0.005
204843	Rock	2.16	0.5	3.3	10.9	26	0.2	1.9	0.5	104	0.64	37.9	3.2	12.6	25	0.1	0.1	0.1	<2	0.43	0.004
204844	Rock	1.76	1.1	4.7	14.4	33	0.2	3.6	1.1	115	1.00	276.8	84.4	14.6	36	0.2	0.2	0.1	<2	0.54	0.005
204845	Rock	2.21	1.1	3.3	14.6	34	0.1	2.4	0.7	89	0.81	193.9	75.5	14.3	32	0.2	0.2	0.1	<2	0.46	0.005
204846	Rock	2.18	0.6	16.3	6.2	13	0.3	3.4	1.0	110	0.58	13.9	1.8	10.2	24	0.1	0.1	<0.1	<2	0.47	0.006
204847	Rock	2.28	0.7	8.4	6.7	10	0.2	2.6	0.9	112	0.52	17.7	13.7	13.5	34	0.1	0.2	<0.1	<2	0.55	0.004
204848	Rock	2.05	0.6	3.3	8.9	11	0.1	1.8	0.5	106	0.38	20.0	17.6	13.1	31	0.1	0.1	<0.1	<2	0.55	0.004
204849	Rock	2.41	0.7	3.3	11.2	13	0.1	1.8	0.7	123	0.56	34.1	13.7	13.3	31	0.1	0.2	<0.1	<2	0.63	0.004
204850	Rock Pulp	0.11	14.0	34.0	15.6	20	0.4	11.3	6.7	48	3.04	474.1	233.5	0.8	28	0.5	24.6	0.1	9	1.01	0.006
204851	Rock	1.88	0.9	3.5	9.1	11	<0.1	3.5	0.9	117	0.60	32.0	21.1	13.7	30	0.1	0.1	<0.1	<2	0.57	0.005
204852	Rock	1.87	0.8	2.1	10.1	13	<0.1	1.7	0.6	95	0.41	40.0	38.7	14.6	30	0.2	0.1	<0.1	<2	0.49	0.005
204853	Rock	1.07	0.7	3.0	16.2	22	0.2	2.4	0.7	80	0.53	116.9	103.7	13.1	23	0.3	0.1	<0.1	<2	0.38	0.005
204854	Rock	1.35	0.7	4.6	23.0	26	0.5	1.6	0.4	91	0.45	172.3	120.6	13.5	36	0.6	0.2	<0.1	<2	0.54	0.005
204855	Rock	1.48	0.7	4.7	11.7	23	0.1	2.9	0.8	128	0.60	28.6	12.4	12.4	23	0.2	0.2	0.1	<2	0.44	0.006
203447	Rock	0.80	<0.1	1.2	1.1	4	<0.1	<0.1	0.4	98	0.07	1.1	4.1	<0.1	86	<0.1	<0.1	<0.1	<2	32.75	0.007
204857	Rock	1.40	0.9	5.3	12.6	10	<0.1	5.3	1.3	320	0.61	14.0	15.8	15.4	7	0.1	0.2	<0.1	<2	0.09	0.009
204858	Rock	1.35	0.9	7.5	13.3	10	0.1	6.5	2.1	253	0.80	9.9	18.5	13.5	7	0.2	0.2	0.1	<2	0.12	0.018
204859	Rock	2.00	0.8	8.3	15.1	10	0.2	3.7	1.5	274	0.71	15.9	24.0	11.4	31	0.2	0.2	<0.1	<2	1.91	0.017
204860	Rock	1.36	<0.1	1.0	0.4	<1	<0.1	<0.1	0.3	77	0.06	0.7	0.9	<0.1	73	<0.1	<0.1	<0.1	<2	29.97	0.005
204861	Rock	2.74	1.1	12.4	11.1	74	0.2	12.1	6.9	450	2.03	26.7	35.1	8.1	18	0.2	0.4	<0.1	14	2.05	0.042
204862	Rock	0.88	1.0	7.9	4.7	24	0.1	6.9	5.5	168	1.11	6.8	6.5	8.1	8	0.1	0.2	<0.1	8	0.50	0.017



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
204833	Rock	31	4	0.38	188	<0.001	1	0.27	0.009	0.16	2.8	0.04	2.4	<0.1	<0.05	<1	<0.5	<0.2
204834	Rock	32	4	0.20	214	<0.001	2	0.38	0.012	0.20	5.1	0.03	1.8	<0.1	<0.05	<1	<0.5	<0.2
204835	Rock	35	3	0.07	160	<0.001	1	0.41	0.022	0.21	0.6	0.05	2.0	<0.1	<0.05	<1	<0.5	<0.2
204836	Rock	31	2	0.05	112	<0.001	<1	0.27	0.027	0.16	0.5	0.07	2.4	<0.1	0.11	<1	<0.5	<0.2
204837	Rock	34	3	0.10	144	<0.001	2	0.33	0.012	0.16	0.5	0.07	2.9	<0.1	<0.05	<1	<0.5	<0.2
204838	Rock	33	2	0.09	172	<0.001	<1	0.29	0.005	0.19	0.5	0.05	2.0	<0.1	<0.05	<1	<0.5	<0.2
204839	Rock	32	3	0.05	206	<0.001	<1	0.27	0.016	0.20	1.7	0.03	1.8	<0.1	<0.05	<1	<0.5	<0.2
204840	Rock	34	3	0.05	239	<0.001	1	0.28	0.017	0.21	2.8	0.04	2.1	<0.1	<0.05	<1	<0.5	<0.2
204841	Rock	42	7	0.07	296	<0.001	2	0.34	0.032	0.28	0.4	0.03	1.8	<0.1	<0.05	<1	<0.5	<0.2
204842	Rock	39	6	0.03	366	0.002	<1	0.36	0.044	0.35	0.5	0.02	1.4	<0.1	<0.05	1	<0.5	<0.2
204843	Rock	41	5	0.05	243	0.006	<1	0.41	0.030	0.31	0.4	0.04	3.0	0.1	<0.05	2	<0.5	<0.2
204844	Rock	44	9	0.06	262	0.003	4	0.49	0.037	0.31	0.9	0.03	3.1	0.1	<0.05	2	<0.5	<0.2
204845	Rock	45	8	0.06	222	0.002	3	0.44	0.035	0.28	0.7	0.03	2.9	<0.1	<0.05	2	<0.5	<0.2
204846	Rock	30	6	0.04	270	0.003	<1	0.37	0.041	0.29	0.8	0.02	1.3	<0.1	<0.05	1	<0.5	<0.2
204847	Rock	41	7	0.02	351	0.002	2	0.37	0.052	0.31	1.0	0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
204848	Rock	40	6	0.02	308	0.002	2	0.30	0.047	0.28	0.3	0.02	1.3	<0.1	<0.05	1	<0.5	<0.2
204849	Rock	41	7	0.02	250	0.002	1	0.28	0.048	0.24	0.2	0.02	1.3	<0.1	<0.05	1	<0.5	<0.2
204850	Rock Pulp	2	18	0.03	1020	0.010	4	0.18	0.009	0.07	28.7	2.72	0.8	13.6	0.13	<1	1.9	<0.2
204851	Rock	41	9	0.03	249	0.002	1	0.30	0.048	0.23	0.7	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
204852	Rock	46	7	0.04	212	<0.001	2	0.32	0.038	0.22	0.6	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
204853	Rock	42	6	0.08	154	<0.001	3	0.39	0.038	0.21	0.4	0.02	1.4	<0.1	<0.05	1	<0.5	<0.2
204854	Rock	44	5	0.08	174	<0.001	3	0.38	0.034	0.21	0.3	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
204855	Rock	35	5	0.05	292	0.005	<1	0.41	0.040	0.31	0.3	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
203447	Rock	1	<1	0.50	15	0.002	1	0.01	0.004	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
204857	Rock	43	9	0.06	250	0.001	1	0.47	0.019	0.22	0.4	0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
204858	Rock	42	10	0.06	298	0.002	2	0.47	0.030	0.28	0.3	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
204859	Rock	38	8	0.07	224	0.002	2	0.41	0.024	0.25	0.3	0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
204860	Rock	1	<1	0.38	12	0.001	3	0.02	0.003	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
204861	Rock	27	18	0.52	388	0.026	2	0.97	0.016	0.41	0.3	0.03	3.6	0.2	<0.05	3	<0.5	<0.2
204862	Rock	22	14	0.19	246	0.011	1	0.50	0.032	0.25	10.6	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2





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Method	Analyte	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
204863	Rock	1.73	0.6	9.2	5.1	36	0.1	6.8	4.0	220	1.35	11.5	8.4	8.1	9	0.1	0.2	<0.1	12	0.33	0.023
204864	Rock	1.68	0.6	17.2	7.7	55	0.3	13.2	7.8	336	2.18	20.7	8.9	5.5	18	0.2	0.4	<0.1	25	1.36	0.056
204865	Rock	1.69	0.6	32.0	15.1	47	0.7	15.0	10.4	597	2.30	14.8	4.7	2.8	61	0.3	1.0	<0.1	28	3.40	0.044
204866	Rock	1.77	0.8	62.8	17.5	53	0.5	60.0	21.0	625	3.04	18.4	12.5	5.3	74	0.2	0.6	<0.1	48	5.03	0.021
204867	Rock	1.19	1.0	57.1	7.7	61	0.5	70.7	25.7	1234	3.67	4.2	6.9	1.3	148	0.2	0.6	<0.1	69	9.34	0.020
204868	Rock	1.86	0.9	71.2	23.1	50	2.2	26.9	20.2	807	3.30	74.0	65.4	4.2	64	0.2	5.7	0.1	34	6.41	0.025
204869	Rock	1.50	0.5	3.1	13.9	10	0.1	2.3	1.3	172	0.51	13.0	18.5	10.4	42	0.1	0.2	<0.1	<2	0.89	0.010
204870	Rock	1.73	0.5	3.6	12.7	11	0.1	2.9	1.3	177	0.60	13.0	19.4	9.7	41	<0.1	0.1	<0.1	<2	0.86	0.010
204871	Rock	1.47	0.4	41.8	16.1	49	3.5	11.2	10.6	509	2.26	56.6	39.1	6.9	63	0.2	1.6	0.3	22	3.37	0.019
204872	Rock	1.48	0.5	28.5	11.5	47	0.8	21.9	12.9	570	2.54	28.2	22.5	5.2	98	0.2	0.5	0.1	36	4.42	0.019
204873	Rock	1.29	0.6	55.3	16.4	73	0.5	27.6	21.4	766	4.01	11.9	9.3	2.5	136	0.3	1.8	0.2	81	6.10	0.035
204874	Rock	1.33	2.5	10.6	20.6	26	0.3	6.3	4.1	268	1.17	29.0	33.4	8.7	65	0.3	0.4	0.1	8	2.53	0.015
204875	Rock	1.73	2.0	10.9	19.8	40	0.6	3.2	2.0	183	0.77	36.8	40.9	10.0	25	0.5	0.3	<0.1	2	0.82	0.021
204876	Rock	1.78	1.2	7.9	12.8	22	0.3	2.6	1.8	136	0.70	20.4	21.8	10.5	19	0.2	0.4	0.2	<2	0.39	0.017
204877	Rock	2.08	1.9	9.5	15.0	21	0.5	5.0	2.4	270	1.00	52.8	90.0	10.4	33	0.3	0.5	0.1	3	0.92	0.021
204878	Rock	1.71	1.4	7.5	14.3	9	0.5	2.0	1.5	177	0.58	33.6	48.5	10.2	33	<0.1	0.4	0.2	<2	0.69	0.014
204879	Rock	1.77	1.4	9.7	9.4	13	0.5	3.8	1.9	257	0.82	26.2	36.0	9.7	47	0.1	0.3	<0.1	<2	0.96	0.015
204880	Rock Pulp	0.10	1.8	35.4	13.9	57	<0.1	26.2	3.7	43	2.98	793.1	838.8	8.7	20	<0.1	36.5	0.3	18	<0.01	0.023
204881	Rock	1.93	0.9	8.6	6.5	7	<0.1	2.7	1.4	171	0.54	3.5	4.3	11.2	31	0.1	0.2	<0.1	<2	0.61	0.013
204882	Rock	1.55	0.9	4.6	5.5	6	<0.1	2.7	1.0	136	0.46	2.5	2.8	12.4	22	0.1	<0.1	<0.1	<2	0.54	0.006
204883	Rock	1.21	1.6	19.5	12.6	49	0.2	10.7	6.7	1305	1.77	2.4	5.2	7.9	157	0.7	0.3	<0.1	11	8.47	0.023
204884	Rock	1.55	1.2	31.1	15.5	102	0.2	33.6	17.2	1091	3.81	2.4	3.7	6.7	200	0.5	0.5	0.2	49	5.48	0.035
204885	Rock	1.60	0.6	36.8	14.9	29	0.2	13.6	7.9	363	1.70	2.5	6.7	7.9	73	0.3	0.5	0.2	20	1.69	0.018
204886	Rock	1.87	0.7	14.9	11.0	17	<0.1	5.4	3.2	176	1.16	3.3	2.9	10.0	41	0.2	0.4	0.3	7	0.61	0.017
204887	Rock	1.78	0.6	18.6	15.2	54	0.2	11.5	10.6	537	2.45	9.1	13.0	6.4	122	0.4	0.8	0.2	41	2.51	0.029
204888	Rock	1.56	1.0	20.2	12.2	37	0.1	10.3	8.3	430	2.00	4.5	7.5	7.5	89	0.4	0.4	0.2	28	1.68	0.025
204889	Rock	1.92	0.5	90.8	9.7	61	0.4	26.3	23.4	1244	4.07	10.7	16.8	3.4	367	0.6	2.2	0.2	60	6.37	0.025
204890	Rock	1.22	1.3	32.5	17.5	49	0.4	38.5	12.4	853	2.31	24.7	46.5	4.1	478	0.3	0.7	0.1	28	7.07	0.024
204891	Rock	1.02	1.1	10.6	19.8	36	0.2	31.4	6.2	538	1.83	55.1	90.9	8.3	303	0.3	0.6	0.1	10	5.33	0.010
204892	Rock	1.21	0.6	3.4	20.9	25	0.3	3.0	0.8	143	0.64	37.5	73.4	12.5	55	0.1	0.2	<0.1	<2	1.25	0.005



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001077.2

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
204863	Rock	26	15	0.31	322	0.019	2	0.61	0.041	0.26	0.4	<0.01	3.3	0.1	<0.05	2	<0.5	<0.2
204864	Rock	19	21	0.50	401	0.019	3	0.93	0.028	0.35	0.6	<0.01	5.8	0.1	<0.05	3	<0.5	<0.2
204865	Rock	11	30	0.86	836	0.020	2	1.04	0.012	0.32	0.3	<0.01	8.6	0.1	<0.05	3	<0.5	<0.2
204866	Rock	17	127	1.16	1112	0.008	2	1.30	0.017	0.25	0.3	0.01	16.5	<0.1	<0.05	3	<0.5	<0.2
204867	Rock	7	183	1.41	517	0.005	1	1.67	0.006	0.26	0.1	<0.01	23.5	<0.1	<0.05	4	<0.5	<0.2
204868	Rock	14	47	0.42	428	0.005	2	0.75	0.021	0.21	0.4	0.05	15.8	<0.1	<0.05	2	<0.5	<0.2
204869	Rock	34	7	0.05	224	0.002	2	0.32	0.038	0.19	0.3	<0.01	1.4	<0.1	<0.05	<1	<0.5	<0.2
204870	Rock	33	7	0.05	248	0.002	2	0.38	0.049	0.22	0.3	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
204871	Rock	24	29	0.25	302	0.008	1	0.68	0.019	0.24	0.3	0.02	7.7	0.1	<0.05	2	<0.5	<0.2
204872	Rock	19	37	0.55	327	0.006	1	1.09	0.011	0.28	0.2	<0.01	11.3	0.1	<0.05	3	<0.5	<0.2
204873	Rock	12	23	0.91	458	0.007	2	1.98	0.005	0.40	0.2	0.01	17.7	0.2	<0.05	5	<0.5	<0.2
204874	Rock	28	9	0.12	235	0.001	1	0.63	0.011	0.21	0.2	0.04	3.6	<0.1	<0.05	2	<0.5	<0.2
204875	Rock	33	6	0.06	198	0.001	2	0.42	0.027	0.25	0.4	0.02	2.1	<0.1	<0.05	1	<0.5	<0.2
204876	Rock	33	6	0.05	186	0.002	3	0.38	0.035	0.24	0.3	0.01	2.1	<0.1	<0.05	1	<0.5	<0.2
204877	Rock	31	9	0.04	303	0.002	3	0.37	0.030	0.24	0.6	0.02	2.5	<0.1	<0.05	1	<0.5	<0.2
204878	Rock	33	6	0.03	236	0.001	2	0.35	0.032	0.23	0.4	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
204879	Rock	32	8	0.04	336	0.002	1	0.38	0.038	0.23	0.4	0.01	1.6	0.1	<0.05	1	<0.5	<0.2
204880	Rock Pulp	24	49	0.03	73	0.002	5	0.65	0.022	0.22	0.6	0.03	5.6	0.1	<0.05	3	<0.5	<0.2
204881	Rock	35	9	0.04	337	0.001	<1	0.35	0.029	0.21	0.3	0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
204882	Rock	41	6	0.03	321	0.002	<1	0.37	0.053	0.22	0.2	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
204883	Rock	26	22	0.49	314	0.011	2	0.54	0.021	0.22	0.2	0.02	4.2	<0.1	<0.05	2	<0.5	<0.2
204884	Rock	20	78	1.71	366	0.035	3	1.31	0.028	0.62	0.2	<0.01	12.9	0.3	0.09	4	<0.5	<0.2
204885	Rock	23	34	0.53	263	0.013	<1	0.56	0.027	0.29	0.5	<0.01	7.6	0.1	0.15	2	<0.5	<0.2
204886	Rock	27	12	0.20	222	0.005	<1	0.44	0.046	0.19	0.8	<0.01	3.5	<0.1	0.07	2	<0.5	<0.2
204887	Rock	17	20	1.02	261	0.021	1	0.97	0.028	0.38	0.5	<0.01	9.5	0.1	0.20	4	<0.5	<0.2
204888	Rock	22	14	0.73	242	0.015	1	0.81	0.035	0.31	0.6	<0.01	7.1	<0.1	0.13	3	<0.5	<0.2
204889	Rock	10	63	2.40	299	0.008	2	0.80	0.019	0.26	0.3	0.02	20.4	<0.1	0.17	3	<0.5	<0.2
204890	Rock	11	72	1.61	276	<0.001	1	0.75	0.008	0.18	0.3	0.09	9.2	<0.1	0.16	2	<0.5	<0.2
204891	Rock	23	62	0.96	848	<0.001	<1	0.97	0.005	0.22	0.2	0.07	6.0	<0.1	0.10	3	<0.5	<0.2
204892	Rock	39	8	0.43	236	<0.001	1	0.41	0.024	0.26	0.3	0.02	2.2	<0.1	<0.05	1	<0.5	<0.2



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**Project:** SULPHUR  
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# CERTIFICATE OF ANALYSIS

WHI17001077.2

Method	Analyte	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
204893	Rock	1.20	0.5	4.5	10.5	16	0.1	4.1	1.0	138	0.56	7.4	12.9	14.1	45	0.1	0.1	<0.1	<2	0.83	0.004
204894	Rock	1.12	0.7	4.4	15.5	27	0.3	1.9	0.6	116	0.57	46.7	41.4	13.9	42	0.2	0.2	<0.1	<2	0.67	0.004
204895	Rock	1.57	0.5	4.0	11.2	18	0.1	2.4	0.7	163	0.54	59.3	23.7	15.1	40	0.1	0.1	<0.1	<2	0.80	0.003
204896	Rock	1.89	0.4	3.3	16.1	15	0.3	1.5	0.4	134	0.45	91.8	64.8	12.8	48	0.1	0.2	0.1	<2	0.92	0.004
204897	Rock	1.99	0.8	4.3	20.7	37	0.3	2.9	0.9	131	0.74	49.3	37.0	13.0	58	0.2	0.1	<0.1	<2	0.88	0.004
204898	Rock	1.77	0.9	4.6	15.3	28	0.3	1.2	0.6	119	0.64	24.3	33.5	14.4	32	0.2	0.2	<0.1	<2	0.61	0.004
204899	Rock	1.58	0.6	4.5	17.0	29	0.3	2.7	0.9	104	0.78	105.6	73.7	13.7	37	0.1	0.2	0.1	<2	0.59	0.004
204900	Rock	1.09	<0.1	1.2	0.5	<1	<0.1	<0.1	0.1	79	0.08	1.1	0.9	0.1	71	<0.1	<0.1	<0.1	<2	32.76	0.004
204901	Rock	1.89	0.7	3.4	15.7	25	0.2	3.0	0.9	121	0.75	212.4	145.7	12.2	54	0.1	0.2	<0.1	<2	0.88	0.004
204902	Rock	1.83	0.5	2.9	14.4	23	0.2	2.0	0.7	118	0.58	105.5	67.3	13.1	64	<0.1	0.1	<0.1	<2	0.81	0.004
204903	Rock	2.35	1.3	3.4	17.9	22	0.2	3.1	1.0	148	0.83	425.9	206.5	12.9	108	0.1	0.2	0.1	<2	1.31	0.004
204904	Rock	1.90	0.4	2.1	21.9	42	0.2	1.8	0.7	235	0.75	429.5	227.9	10.9	159	0.2	0.2	<0.1	<2	2.24	0.003
204905	Rock	1.51	0.5	2.9	17.9	27	0.2	2.8	1.0	118	0.85	274.6	114.3	12.4	42	<0.1	0.2	<0.1	<2	0.77	0.004
204906	Rock	1.74	1.0	4.3	18.1	34	0.2	2.6	1.2	217	0.94	100.6	59.8	11.4	38	<0.1	0.2	<0.1	<2	0.90	0.010
204907	Rock	1.76	1.1	5.5	19.7	47	0.4	2.5	0.9	151	0.82	271.1	112.2	11.5	37	0.2	0.2	<0.1	<2	0.87	0.004
204908	Rock	1.66	0.9	3.8	19.9	36	0.4	1.8	0.6	139	0.68	407.6	146.8	13.2	40	0.2	0.3	0.1	<2	0.77	0.004
204909	Rock	1.51	0.6	3.4	14.9	24	0.3	2.3	0.7	186	0.60	166.5	67.6	11.9	71	0.1	0.2	<0.1	<2	1.19	0.003
204910	Rock Pulp	0.10	13.4	34.4	15.0	20	0.4	11.5	6.7	46	3.01	469.0	245.7	0.7	25	0.5	21.7	0.1	11	1.01	0.006



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

WHI17001077.2

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2
204893	Rock	43	9	0.12	311	0.001	2	0.41	0.040	0.29	0.2	0.02	2.0	<0.1	<0.05	1	<0.5	<0.2
204894	Rock	42	6	0.08	277	<0.001	1	0.41	0.037	0.26	0.3	0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
204895	Rock	40	6	0.05	322	0.001	1	0.42	0.040	0.28	0.3	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
204896	Rock	41	5	0.04	287	<0.001	1	0.34	0.037	0.25	0.3	0.03	1.7	<0.1	<0.05	1	<0.5	<0.2
204897	Rock	36	7	0.07	227	<0.001	4	0.42	0.045	0.27	0.3	0.03	2.2	<0.1	0.11	1	<0.5	<0.2
204898	Rock	40	5	0.07	268	<0.001	2	0.44	0.040	0.26	0.3	0.03	2.4	<0.1	0.07	1	<0.5	<0.2
204899	Rock	43	6	0.06	236	<0.001	2	0.44	0.045	0.26	0.4	0.03	2.6	<0.1	0.12	2	<0.5	<0.2
204900	Rock	1	1	0.48	12	0.001	<1	0.02	0.004	0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
204901	Rock	37	7	0.05	218	<0.001	3	0.40	0.043	0.27	0.8	0.02	2.5	<0.1	0.16	1	<0.5	<0.2
204902	Rock	39	7	0.04	214	<0.001	3	0.35	0.036	0.26	0.3	0.02	2.2	<0.1	0.12	1	<0.5	<0.2
204903	Rock	33	8	0.06	199	<0.001	3	0.34	0.049	0.25	0.9	0.02	3.0	<0.1	0.25	1	<0.5	<0.2
204904	Rock	28	7	0.07	177	<0.001	2	0.26	0.038	0.22	0.8	0.03	2.8	<0.1	0.29	<1	<0.5	<0.2
204905	Rock	36	8	0.05	174	<0.001	4	0.38	0.039	0.24	0.6	0.02	2.2	<0.1	0.20	1	<0.5	<0.2
204906	Rock	32	7	0.09	140	<0.001	2	0.39	0.031	0.19	0.4	0.02	2.8	<0.1	0.07	1	<0.5	<0.2
204907	Rock	33	6	0.05	210	<0.001	3	0.36	0.040	0.25	0.5	0.03	2.3	<0.1	0.10	1	<0.5	<0.2
204908	Rock	36	7	0.03	232	<0.001	3	0.30	0.038	0.25	0.6	0.03	2.2	<0.1	0.09	<1	<0.5	<0.2
204909	Rock	33	6	0.03	358	<0.001	3	0.33	0.040	0.33	0.4	0.03	2.0	0.1	0.08	<1	<0.5	<0.2
204910	Rock Pulp	2	17	0.03	1054	0.009	2	0.17	0.009	0.07	29.5	2.74	0.7	14.0	0.13	<1	1.8	<0.2



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Project: SULPHUR  
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# QUALITY CONTROL REPORT

WHI17001077.2

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
204778	Rock	1.95	0.9	6.8	18.8	22	0.2	1.2	0.5	150	0.80	5.2	4.7	12.7	34	0.5	0.2	0.1	<2	0.66	0.004
REP 204778	QC		1.0	6.5	17.8	21	0.2	1.2	0.4	155	0.81	4.7	4.9	11.9	33	0.6	0.1	0.1	<2	0.63	0.004
204812	Rock	1.55	0.2	2.1	18.0	23	0.3	0.6	0.3	101	0.66	32.9	42.2	9.6	25	0.1	0.2	0.1	<2	0.62	0.003
REP 204812	QC		0.2	2.2	18.9	24	0.3	0.7	0.3	101	0.67	34.9	41.4	9.9	26	<0.1	0.2	0.1	<2	0.62	0.004
204847	Rock	2.28	0.7	8.4	6.7	10	0.2	2.6	0.9	112	0.52	17.7	13.7	13.5	34	0.1	0.2	<0.1	<2	0.55	0.004
REP 204847	QC		0.7	8.8	7.0	10	0.2	2.7	0.9	114	0.52	19.0	10.5	14.5	35	0.1	0.2	<0.1	<2	0.55	0.005
204882	Rock	1.55	0.9	4.6	5.5	6	<0.1	2.7	1.0	136	0.46	2.5	2.8	12.4	22	0.1	<0.1	<0.1	<2	0.54	0.006
REP 204882	QC		1.1	4.9	5.8	6	<0.1	2.8	1.0	135	0.46	2.6	3.2	13.1	23	0.1	0.1	<0.1	<2	0.54	0.007
Core Reject Duplicates																					
204786	Rock	1.92	0.6	3.1	11.2	23	<0.1	4.1	0.5	208	0.77	27.2	25.3	15.8	5	0.1	0.2	<0.1	<2	0.03	0.006
DUP 204786	QC		0.6	2.7	11.0	22	0.1	4.3	0.5	207	0.79	27.0	26.9	15.4	5	0.1	0.1	<0.1	<2	0.03	0.006
204820	Rock	0.96	<0.1	0.3	0.4	<1	<0.1	<0.1	<0.1	70	0.08	0.6	<0.5	<0.1	60	<0.1	<0.1	<0.1	<2	29.82	0.005
DUP 204820	QC		<0.1	0.5	0.4	<1	<0.1	<0.1	<0.1	71	0.06	<0.5	<0.5	<0.1	58	<0.1	<0.1	<0.1	<2	29.84	0.005
204854	Rock	1.35	0.7	4.6	23.0	26	0.5	1.6	0.4	91	0.45	172.3	120.6	13.5	36	0.6	0.2	<0.1	<2	0.54	0.005
DUP 204854	QC		0.7	5.0	23.4	29	0.4	1.5	0.4	96	0.45	179.4	133.0	13.6	39	0.7	0.2	<0.1	<2	0.58	0.005
204888	Rock	1.56	1.0	20.2	12.2	37	0.1	10.3	8.3	430	2.00	4.5	7.5	7.5	89	0.4	0.4	0.2	28	1.68	0.025
DUP 204888	QC		1.0	20.6	12.8	39	0.1	10.9	8.5	435	2.12	4.9	8.0	7.4	88	0.5	0.4	0.2	29	1.65	0.025
Reference Materials																					
STD DS11	Standard		13.3	149.6	129.7	339	1.7	80.2	13.9	1030	3.10	41.3	79.4	7.1	62	2.3	7.6	10.5	49	1.04	0.070
STD DS11	Standard		13.4	151.0	129.8	343	1.7	76.8	14.0	972	3.06	42.5	71.6	7.4	68	2.3	8.7	11.4	49	1.04	0.067
STD DS11	Standard		13.9	147.3	139.5	346	1.7	78.5	13.2	984	3.06	43.3	76.7	7.1	60	2.2	7.8	11.3	47	1.04	0.068
STD DS11	Standard		13.7	147.0	130.5	333	1.7	75.1	13.2	1026	3.08	42.0	61.9	7.7	66	2.2	8.4	11.5	47	1.04	0.070
STD OXC129	Standard		1.1	25.5	5.4	37	<0.1	77.6	20.8	410	3.02	0.6	192.2	1.7	172	<0.1	<0.1	<0.1	51	0.66	0.104
STD OXC129	Standard		1.0	27.3	5.8	39	<0.1	75.2	19.8	412	2.95	0.7	195.1	1.7	183	<0.1	<0.1	<0.1	52	0.62	0.093
STD OXC129	Standard		1.1	29.7	6.4	42	<0.1	84.2	21.7	401	3.00	0.6	214.8	1.7	182	<0.1	<0.1	<0.1	49	0.65	0.096
STD OXC129	Standard		1.2	27.5	5.9	41	<0.1	78.3	20.3	423	3.02	0.7	186.3	1.7	183	<0.1	<0.1	<0.1	51	0.70	0.093
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701



Bureau Veritas Commodities Canada Ltd.  
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Project: SULPHUR  
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# QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
Pulp Duplicates																		
204778	Rock	36	6	0.07	322	0.001	<1	0.41	0.022	0.26	0.3	0.02	2.1	<0.1	<0.05	1	<0.5	<0.2
REP 204778	QC	34	6	0.06	300	0.002	<1	0.40	0.022	0.26	0.3	0.02	2.0	<0.1	<0.05	1	<0.5	<0.2
204812	Rock	30	2	0.11	122	<0.001	1	0.28	0.011	0.18	0.4	0.04	1.6	<0.1	<0.05	<1	<0.5	<0.2
REP 204812	QC	32	2	0.12	120	<0.001	3	0.28	0.010	0.18	0.3	0.03	1.6	<0.1	<0.05	<1	<0.5	<0.2
204847	Rock	41	7	0.02	351	0.002	2	0.37	0.052	0.31	1.0	0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
REP 204847	QC	43	7	0.03	366	0.002	2	0.38	0.052	0.31	1.0	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
204882	Rock	41	6	0.03	321	0.002	<1	0.37	0.053	0.22	0.2	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
REP 204882	QC	40	6	0.03	315	0.002	<1	0.37	0.052	0.22	0.3	0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
Core Reject Duplicates																		
204786	Rock	64	6	0.05	272	0.001	<1	0.39	0.040	0.20	0.3	0.02	2.9	<0.1	<0.05	1	<0.5	<0.2
DUP 204786	QC	60	6	0.05	260	0.001	<1	0.40	0.042	0.21	0.3	0.03	2.7	<0.1	<0.05	1	<0.5	<0.2
204820	Rock	<1	<1	0.44	11	<0.001	<1	0.02	0.003	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
DUP 204820	QC	<1	<1	0.45	12	<0.001	<1	0.02	0.004	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
204854	Rock	44	5	0.08	174	<0.001	3	0.38	0.034	0.21	0.3	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
DUP 204854	QC	44	5	0.08	173	<0.001	3	0.39	0.033	0.21	0.4	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
204888	Rock	22	14	0.73	242	0.015	1	0.81	0.035	0.31	0.6	<0.01	7.1	<0.1	0.13	3	<0.5	<0.2
DUP 204888	QC	22	15	0.75	242	0.016	<1	0.86	0.036	0.32	0.5	<0.01	7.5	0.1	0.13	3	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	17	58	0.83	372	0.092	8	1.15	0.072	0.40	2.8	0.27	3.3	4.9	0.28	5	2.4	4.2
STD DS11	Standard	18	57	0.83	362	0.093	6	1.12	0.069	0.40	2.9	0.25	3.0	4.6	0.27	5	2.4	4.6
STD DS11	Standard	17	57	0.83	370	0.088	6	1.11	0.069	0.39	3.0	0.26	3.0	4.8	0.27	4	1.3	4.9
STD DS11	Standard	19	59	0.84	362	0.095	7	1.14	0.072	0.40	2.8	0.25	3.1	4.5	0.26	5	2.4	4.7
STD OXC129	Standard	12	53	1.47	52	0.401	<1	1.56	0.577	0.38	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	49	1.51	47	0.405	2	1.47	0.565	0.36	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	50	1.54	50	0.392	<1	1.48	0.578	0.36	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	55	1.55	49	0.415	2	1.58	0.592	0.37	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56



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**Client:** Taku Gold Corp  
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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# QUALITY CONTROL REPORT

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		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.02	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.7	6.5	0.8	35	<0.1	1.9	4.6	607	1.95	1.0	2.0	1.8	27	<0.1	<0.1	<0.1	25	0.64	0.039
ROCK-WHI	Prep Blank		0.6	4.6	1.0	35	<0.1	1.1	3.9	570	1.88	1.3	1.1	1.9	25	<0.1	<0.1	<0.1	22	0.65	0.039



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# QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	4	0.57	55	0.071	2	1.07	0.097	0.10	0.2	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	6	4	0.51	58	0.073	1	1.02	0.109	0.11	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2





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**Client:** **Taku Gold Corp**  
680 3rd Ave, Suite 203  
Val D'Or Québec J9P 1S5 Canada

Submitted By: Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: October 18, 2017  
Report Date: November 29, 2017  
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# CERTIFICATE OF ANALYSIS

WHI17001078.1

## CLIENT JOB INFORMATION

Project: SULPHUR  
Shipment ID:  
P.O. Number  
Number of Samples: 96

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Taku Gold Corp.  
Suite 608 - 409 Granville St.  
Vancouver British Columbia V6C 1T2  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	94	Crush, split and pulverize 250 g rock to 200 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
AQ201	96	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	96	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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**Project:** SULPHUR  
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# CERTIFICATE OF ANALYSIS

# WHI17001078.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204911	Rock	1.74	0.4	3.1	18.8	37	0.3	0.6	0.5	163	0.87	294.9	137.0	11.7	60	0.2	0.3	0.1	<2	0.92	0.005
204912	Rock	1.82	0.5	3.8	55.2	40	0.4	0.6	0.6	160	0.90	292.5	121.1	11.0	60	0.3	0.4	0.1	<2	0.86	0.004
204913	Rock	1.24	0.6	4.3	42.8	33	0.4	0.6	0.5	190	0.72	187.8	77.6	12.3	48	0.2	0.3	0.1	<2	1.07	0.006
204914	Rock	1.61	0.4	3.6	10.4	17	0.2	0.5	0.5	164	0.56	40.9	21.2	13.2	42	0.1	0.1	<0.1	<2	0.85	0.005
204915	Rock	1.68	0.7	4.7	28.3	28	0.2	0.6	0.6	126	0.66	90.6	39.1	12.6	41	0.3	0.2	0.1	<2	0.71	0.005
204916	Rock	1.65	0.8	2.6	18.9	29	0.2	0.6	0.5	153	0.78	158.7	65.5	11.9	71	0.2	0.2	<0.1	<2	0.81	0.005
204917	Rock	1.57	0.4	3.1	29.9	33	0.3	0.6	0.6	139	0.83	192.6	101.9	10.2	52	0.2	0.2	<0.1	<2	0.84	0.004
204918	Rock	1.20	0.4	2.1	20.2	26	0.3	0.5	0.6	193	0.77	198.5	90.0	10.6	126	0.2	0.3	<0.1	<2	1.42	0.004
204919	Rock	1.71	0.4	2.7	29.2	24	0.4	0.5	0.4	134	0.62	180.0	84.0	11.5	43	0.2	0.3	0.1	<2	0.76	0.004
204920	Rock	1.84	0.7	3.4	27.6	25	0.5	0.9	0.6	128	0.75	511.3	227.5	10.6	31	0.2	0.4	0.1	<2	0.54	0.005
204921	Rock	1.73	0.3	2.7	22.4	26	0.4	0.6	0.4	108	0.70	73.1	44.6	11.4	21	0.3	0.2	0.1	<2	0.48	0.004
204922	Rock	2.43	0.2	2.9	18.7	41	0.4	0.5	0.6	135	0.79	97.8	63.3	11.1	27	0.4	0.2	0.1	<2	0.67	0.004
204923	Rock	1.84	0.3	2.2	18.6	21	0.4	0.6	0.6	126	0.65	98.4	99.8	11.0	20	0.2	0.2	0.1	<2	0.53	0.006
204924	Rock	1.74	0.3	3.2	22.6	13	0.4	0.6	0.5	201	0.61	62.7	60.7	10.5	40	0.3	0.3	0.1	<2	1.02	0.004
204925	Rock	1.29	0.6	3.2	18.2	9	0.4	0.6	0.5	115	0.62	48.7	44.9	11.7	20	0.3	0.2	0.1	<2	0.58	0.004
204926	Rock	1.66	0.5	7.7	17.1	15	0.5	0.9	1.0	118	0.79	49.3	53.3	10.5	17	0.2	0.6	0.1	<2	0.43	0.009
204927	Rock	1.73	1.7	10.4	11.3	16	0.3	2.9	2.3	218	0.99	34.8	39.3	8.4	52	0.2	0.5	<0.1	3	0.96	0.021
204928	Rock	2.16	0.8	12.1	14.0	22	0.3	4.2	3.9	327	1.11	15.8	24.3	8.2	47	0.3	0.4	0.1	7	1.19	0.026
204930	Rock	0.97	0.9	127.2	13.0	61	0.5	37.5	31.2	968	3.88	5.8	10.5	1.7	76	0.2	0.4	<0.1	104	4.90	0.031
204931	Rock	1.38	1.1	61.6	10.2	63	0.2	23.6	18.0	641	3.11	5.3	3.4	4.0	54	0.2	0.4	0.1	58	3.85	0.045
204932	Rock	2.96	1.0	7.1	9.7	14	<0.1	4.9	2.3	248	0.84	4.0	3.9	12.0	45	<0.1	0.1	<0.1	4	1.28	0.018
204933	Rock	1.60	0.5	3.1	16.3	18	<0.1	1.6	1.4	216	0.87	6.4	3.8	11.4	34	<0.1	<0.1	<0.1	2	1.30	0.015
204934	Rock	1.52	0.5	10.8	7.5	18	<0.1	3.8	2.8	238	1.00	5.0	4.0	7.4	38	<0.1	0.2	<0.1	10	2.20	0.010
204935	Rock	1.49	0.3	3.2	11.4	11	0.1	1.7	1.2	132	0.64	2.6	2.2	12.0	22	<0.1	0.1	0.2	<2	0.51	0.014
204936	Rock	1.88	0.5	5.0	30.8	40	0.2	2.5	1.3	205	0.89	3.6	3.8	10.9	33	0.4	0.2	0.3	<2	0.65	0.015
204937	Rock	1.04	<0.1	5.1	0.6	1	<0.1	<0.1	1.0	81	0.12	0.5	1.3	<0.1	75	<0.1	<0.1	<0.1	<2	33.43	0.006
204938	Rock	1.23	0.4	10.3	9.4	26	<0.1	3.3	4.8	392	1.29	1.1	2.4	7.7	49	0.2	0.3	<0.1	17	1.53	0.017
204939	Rock	1.98	0.5	8.3	11.2	19	<0.1	9.6	4.0	276	1.20	1.4	<0.5	11.6	42	<0.1	0.2	0.1	11	1.36	0.013
204940	Rock	1.93	0.5	4.0	19.2	8	0.2	1.2	1.2	169	0.63	6.7	6.7	10.5	62	0.2	0.2	0.5	<2	0.96	0.018
204941	Rock	1.52	0.4	2.3	8.2	6	<0.1	1.2	0.9	152	0.50	<0.5	<0.5	9.6	45	<0.1	<0.1	<0.1	<2	0.71	0.012



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001078.1

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
204911	Rock	33	2	0.05	158	<0.001	4	0.27	0.037	0.23	0.5	0.03	2.5	<0.1	0.17	1	<0.5	<0.2
204912	Rock	31	3	0.04	154	<0.001	4	0.26	0.033	0.22	0.6	0.05	2.2	<0.1	0.17	<1	<0.5	<0.2
204913	Rock	36	3	0.04	347	<0.001	4	0.29	0.031	0.25	0.6	0.04	2.1	<0.1	0.13	1	<0.5	<0.2
204914	Rock	39	2	0.03	339	0.001	2	0.30	0.037	0.29	0.4	0.04	1.8	<0.1	0.11	1	<0.5	<0.2
204915	Rock	37	3	0.04	329	0.001	2	0.30	0.030	0.26	0.4	0.03	1.7	<0.1	0.14	1	<0.5	<0.2
204916	Rock	34	3	0.04	179	<0.001	3	0.29	0.033	0.26	0.6	0.02	1.9	<0.1	0.17	1	<0.5	<0.2
204917	Rock	29	3	0.08	134	<0.001	5	0.27	0.028	0.20	0.6	0.03	2.2	<0.1	0.26	<1	<0.5	<0.2
204918	Rock	29	3	0.12	132	<0.001	4	0.26	0.030	0.21	0.6	0.02	2.8	<0.1	0.27	1	<0.5	<0.2
204919	Rock	32	3	0.05	167	<0.001	3	0.26	0.027	0.20	0.6	0.04	1.7	<0.1	0.18	<1	<0.5	<0.2
204920	Rock	28	5	0.08	132	<0.001	4	0.25	0.029	0.18	0.7	0.04	2.5	<0.1	0.27	<1	<0.5	<0.2
204921	Rock	33	3	0.15	138	<0.001	5	0.31	0.027	0.20	0.5	0.04	1.9	<0.1	0.16	1	<0.5	<0.2
204922	Rock	34	3	0.22	175	<0.001	5	0.40	0.036	0.23	0.4	0.04	2.4	<0.1	0.17	1	<0.5	<0.2
204923	Rock	32	3	0.06	167	<0.001	5	0.30	0.031	0.23	0.5	0.03	1.4	<0.1	0.24	1	<0.5	<0.2
204924	Rock	29	3	0.04	180	<0.001	4	0.23	0.025	0.19	0.5	0.03	1.4	<0.1	0.22	<1	<0.5	<0.2
204925	Rock	36	4	0.03	183	<0.001	5	0.29	0.031	0.22	0.4	0.04	1.6	<0.1	0.15	1	<0.5	<0.2
204926	Rock	30	3	0.06	162	<0.001	4	0.29	0.033	0.16	0.4	0.04	2.0	<0.1	0.18	1	<0.5	<0.2
204927	Rock	26	7	0.09	196	0.003	2	0.42	0.027	0.25	0.5	0.03	2.9	<0.1	0.24	2	<0.5	<0.2
204928	Rock	26	8	0.30	384	0.010	1	0.47	0.022	0.33	0.6	0.01	3.2	0.1	0.27	2	<0.5	<0.2
204930	Rock	7	110	1.69	703	0.098	1	2.11	0.013	0.54	0.1	0.01	15.5	0.3	<0.05	6	<0.5	<0.2
204931	Rock	14	54	0.91	398	0.047	2	1.41	0.009	0.51	0.3	<0.01	11.9	0.3	<0.05	4	<0.5	<0.2
204932	Rock	36	10	0.08	408	0.005	1	0.42	0.029	0.27	0.5	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
204933	Rock	37	5	0.06	237	0.003	<1	0.31	0.025	0.21	0.5	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
204934	Rock	21	12	0.09	519	0.001	2	0.48	0.018	0.21	0.2	<0.01	3.3	<0.1	<0.05	2	<0.5	<0.2
204935	Rock	37	4	0.06	224	0.003	1	0.35	0.026	0.25	0.3	<0.01	2.0	<0.1	<0.05	1	<0.5	<0.2
204936	Rock	33	6	0.06	211	0.003	2	0.34	0.030	0.24	0.3	0.02	1.8	<0.1	<0.05	1	<0.5	<0.2
204937	Rock	1	<1	0.54	14	0.005	2	0.02	0.003	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
204938	Rock	22	6	0.34	245	0.030	1	0.66	0.022	0.38	0.2	<0.01	3.9	0.2	<0.05	2	<0.5	<0.2
204939	Rock	34	8	0.26	277	0.016	2	0.57	0.034	0.34	0.3	<0.01	3.5	0.1	<0.05	2	<0.5	<0.2
204940	Rock	34	3	0.03	239	0.002	2	0.33	0.027	0.24	0.3	<0.01	2.0	<0.1	<0.05	1	<0.5	<0.2
204941	Rock	29	3	0.02	287	0.003	2	0.32	0.033	0.28	0.2	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2



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**Project:** SULPHUR  
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# CERTIFICATE OF ANALYSIS

# WHI17001078.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204942	Rock	1.33	0.7	20.5	14.0	42	0.2	16.9	13.0	582	1.93	1.5	0.5	7.5	123	0.3	0.2	0.1	28	3.79	0.021
204943	Rock	2.09	0.8	3.7	19.5	39	0.2	1.7	1.3	329	0.87	2.5	2.4	10.8	117	0.4	<0.1	0.2	2	4.03	0.016
204944	Rock	2.10	1.0	10.2	12.4	26	0.2	1.5	1.0	233	0.79	17.5	41.0	11.5	37	0.4	0.3	0.1	<2	1.14	0.013
204945	Rock Pulp	0.10	1.9	30.9	12.2	54	<0.1	24.6	3.5	41	2.82	789.7	792.3	7.8	17	0.1	29.9	0.3	16	<0.01	0.021
204946	Rock	2.20	1.1	12.5	20.2	27	0.4	2.5	1.6	349	1.04	8.2	10.3	10.6	44	0.3	0.3	0.2	<2	1.97	0.014
204947	Rock	1.49	1.5	11.4	20.6	72	0.2	2.3	1.4	369	0.96	4.0	3.4	8.5	49	0.6	0.2	0.2	2	2.00	0.012
204948	Rock	1.28	1.0	9.8	35.7	68	0.1	2.4	1.3	197	0.93	2.0	1.1	9.0	22	0.5	0.1	0.2	<2	0.59	0.012
204949	Rock	1.79	0.4	4.6	12.7	49	<0.1	1.1	0.8	131	0.57	0.9	<0.5	11.5	19	0.1	<0.1	<0.1	<2	0.52	0.010
204950	Rock	1.62	0.5	6.1	16.6	60	<0.1	1.1	0.7	142	0.67	1.3	<0.5	10.9	19	0.4	0.1	<0.1	<2	0.49	0.011
204951	Rock	1.75	0.8	1.9	8.5	11	<0.1	1.5	1.0	157	0.71	0.8	<0.5	9.7	34	0.1	<0.1	<0.1	<2	0.74	0.015
204952	Rock	1.46	0.5	5.5	6.8	5	<0.1	0.9	0.9	162	0.56	<0.5	0.8	11.7	35	<0.1	<0.1	<0.1	<2	0.89	0.013
204953	Rock	1.64	1.2	20.6	9.1	41	0.2	6.8	4.4	325	1.71	2.4	3.0	8.6	30	0.1	0.2	<0.1	19	1.05	0.030
204954	Rock	1.76	1.2	14.8	9.0	31	0.2	3.6	3.5	394	1.59	11.9	22.8	7.9	49	0.2	0.3	<0.1	9	1.47	0.029
204955	Rock	1.60	0.4	5.1	3.5	5	<0.1	1.3	0.8	266	0.50	<0.5	<0.5	7.3	62	<0.1	0.1	<0.1	<2	1.22	0.011
204956	Rock	1.80	1.0	18.0	4.1	49	<0.1	11.2	10.0	594	2.63	<0.5	0.8	5.4	47	0.1	0.2	<0.1	36	1.59	0.026
204957	Rock	1.64	0.4	18.7	8.9	47	0.1	6.1	9.0	951	3.17	1.3	<0.5	3.0	104	<0.1	0.2	0.1	26	2.70	0.054
204958	Rock	2.46	0.5	26.8	5.6	67	0.1	6.9	13.3	698	3.75	2.8	1.9	2.4	45	0.1	0.3	0.1	36	1.27	0.070
204959	Rock	1.63	1.2	50.8	7.9	61	0.4	9.2	17.7	690	3.89	8.0	14.9	4.3	74	<0.1	0.3	0.2	46	2.79	0.048
204960	Rock	1.71	0.3	15.1	6.5	21	0.1	7.8	6.6	526	1.72	14.1	38.7	9.1	136	0.1	0.3	<0.1	16	2.35	0.023
204961	Rock	1.74	0.2	71.5	8.6	86	0.3	17.9	19.9	1059	4.64	2.6	9.0	3.0	145	0.2	0.4	0.2	113	3.13	0.063
204962	Rock	1.76	0.4	33.4	7.8	68	0.1	17.4	13.2	640	3.15	1.2	6.2	4.3	89	<0.1	0.3	0.2	58	1.95	0.047
204963	Rock	1.69	0.7	26.9	8.9	55	0.1	47.9	23.3	1464	3.42	3.4	2.6	2.5	359	0.2	0.2	<0.1	70	7.73	0.029
204964	Rock	1.89	0.6	12.8	9.2	27	0.1	9.2	5.5	408	1.52	9.3	12.4	9.7	81	<0.1	0.2	0.1	17	1.65	0.026
204965	Rock	1.71	1.2	8.5	10.7	23	0.2	5.5	3.7	357	1.45	13.2	20.3	6.6	52	0.2	0.1	<0.1	11	1.37	0.019
204966	Rock	1.45	0.8	3.7	11.8	11	0.2	2.3	2.1	391	1.07	52.0	56.0	7.4	132	0.2	0.3	<0.1	3	2.23	0.016
204967	Rock	2.15	1.2	23.3	14.0	64	0.2	11.9	17.0	953	4.09	48.7	21.3	3.9	176	0.1	0.4	<0.1	77	3.78	0.099
204968	Rock	1.89	1.4	19.8	83.7	69	0.2	15.2	20.8	779	3.99	14.0	10.8	3.7	98	0.3	1.5	<0.1	115	2.41	0.115
204969	Rock	1.94	0.9	15.5	87.8	50	0.2	10.6	12.4	599	2.61	7.7	2.2	6.1	86	0.3	1.4	<0.1	74	1.98	0.077
204970	Rock	1.76	0.4	19.5	55.8	56	0.1	5.2	8.5	539	2.58	6.2	8.5	5.9	64	0.2	1.0	<0.1	38	1.55	0.045
204971	Rock	0.81	<0.1	0.3	12.0	3	<0.1	1.3	0.5	72	0.08	<0.5	0.6	<0.1	72	<0.1	0.2	<0.1	<2	30.80	0.004



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
204942	Rock	24	56	0.66	386	0.038	<1	0.90	0.013	0.57	0.2	<0.01	8.1	0.4	<0.05	3	<0.5	<0.2
204943	Rock	34	4	0.09	232	0.002	<1	0.35	0.022	0.27	0.3	<0.01	2.0	<0.1	<0.05	1	<0.5	<0.2
204944	Rock	36	3	0.05	227	0.001	1	0.30	0.028	0.22	0.3	<0.01	2.1	<0.1	<0.05	<1	<0.5	<0.2
204945	Rock Pulp	21	48	0.03	72	0.002	4	0.63	0.022	0.22	0.6	0.02	4.9	<0.1	<0.05	3	<0.5	<0.2
204946	Rock	24	4	0.07	257	0.002	1	0.32	0.020	0.25	0.3	<0.01	1.7	<0.1	0.06	<1	<0.5	<0.2
204947	Rock	23	4	0.10	181	0.001	<1	0.45	0.011	0.21	0.2	0.02	2.5	<0.1	<0.05	1	<0.5	<0.2
204948	Rock	24	4	0.07	214	0.001	<1	0.46	0.022	0.21	0.4	0.02	2.8	<0.1	<0.05	1	<0.5	<0.2
204949	Rock	32	3	0.04	225	0.002	<1	0.36	0.036	0.25	0.2	0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
204950	Rock	33	3	0.05	227	0.002	<1	0.38	0.039	0.26	0.2	0.03	2.1	<0.1	<0.05	1	<0.5	<0.2
204951	Rock	28	4	0.05	202	0.005	<1	0.36	0.036	0.26	0.2	<0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
204952	Rock	35	2	0.03	217	0.002	<1	0.30	0.026	0.24	0.2	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
204953	Rock	24	13	0.34	254	0.010	<1	0.81	0.032	0.30	0.2	<0.01	5.3	<0.1	<0.05	3	<0.5	<0.2
204954	Rock	24	6	0.23	219	0.010	<1	0.62	0.029	0.30	0.2	<0.01	3.9	0.1	<0.05	2	<0.5	<0.2
204955	Rock	23	4	0.04	240	0.002	<1	0.32	0.024	0.30	0.2	<0.01	1.2	<0.1	<0.05	<1	<0.5	<0.2
204956	Rock	17	11	0.83	375	0.076	<1	1.24	0.016	0.99	0.3	<0.01	5.4	0.3	<0.05	4	<0.5	<0.2
204957	Rock	9	11	1.05	184	0.029	<1	1.34	0.034	0.35	0.1	<0.01	6.1	0.1	0.18	5	<0.5	<0.2
204958	Rock	6	12	1.12	193	0.097	<1	1.37	0.062	0.29	0.2	<0.01	6.4	0.1	0.55	7	<0.5	<0.2
204959	Rock	12	11	1.06	344	0.069	<1	1.50	0.041	0.72	0.2	<0.01	8.1	0.2	0.47	5	<0.5	<0.2
204960	Rock	21	25	0.69	203	0.008	1	0.64	0.028	0.28	0.5	<0.01	5.8	<0.1	0.22	2	<0.5	<0.2
204961	Rock	11	59	1.72	547	0.070	1	2.18	0.027	0.72	0.3	<0.01	14.9	0.2	0.10	8	<0.5	<0.2
204962	Rock	12	40	1.32	287	0.045	<1	1.68	0.032	0.53	0.3	<0.01	8.2	0.2	0.13	6	<0.5	<0.2
204963	Rock	8	219	2.37	255	0.016	<1	1.47	0.012	0.31	0.2	<0.01	25.0	0.1	0.09	4	<0.5	<0.2
204964	Rock	24	24	0.60	153	0.004	<1	0.61	0.029	0.18	0.3	<0.01	5.6	<0.1	0.16	2	<0.5	<0.2
204965	Rock	22	15	0.35	162	0.004	1	0.57	0.032	0.22	0.3	<0.01	4.1	<0.1	0.10	2	<0.5	<0.2
204966	Rock	24	9	0.17	224	0.002	<1	0.34	0.030	0.20	0.4	<0.01	2.6	<0.1	0.11	<1	<0.5	<0.2
204967	Rock	15	17	1.55	692	0.047	2	1.84	0.026	0.61	0.3	<0.01	11.7	0.2	0.24	6	<0.5	<0.2
204968	Rock	17	22	1.76	619	0.152	1	2.08	0.016	0.78	0.2	0.03	8.6	0.2	0.23	7	<0.5	<0.2
204969	Rock	23	15	1.17	490	0.125	<1	1.38	0.018	0.47	0.2	0.02	5.6	0.1	0.19	4	<0.5	<0.2
204970	Rock	17	10	0.82	273	0.036	<1	1.18	0.027	0.43	0.3	0.01	6.5	0.1	0.14	5	<0.5	<0.2
204971	Rock	<1	<1	0.41	12	0.001	<1	0.02	0.002	<0.01	<0.1	<0.01	<0.1	<0.1	0.09	<1	0.7	<0.2



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**Client:** Taku Gold Corp  
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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001078.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204972	Rock	1.67	0.6	14.8	29.0	34	0.8	8.4	5.8	457	1.78	89.4	55.1	7.3	85	0.2	2.2	<0.1	17	1.94	0.028
204973	Rock	2.02	1.6	23.9	18.5	39	1.2	98.8	16.6	731	2.42	92.1	20.2	7.2	215	0.1	3.6	<0.1	15	3.57	0.017
204974	Rock	2.17	0.7	5.7	26.7	26	0.2	8.1	2.4	266	1.16	55.4	48.5	9.6	56	0.1	0.7	<0.1	3	1.06	0.018
204975	Rock	2.13	0.6	38.6	20.5	30	0.2	124.6	18.3	697	2.41	16.2	18.4	5.2	166	0.2	0.7	<0.1	41	3.04	0.020
204976	Rock Pulp	0.10	14.5	34.3	15.3	19	0.4	12.4	7.2	47	3.02	480.2	272.5	0.7	27	0.6	20.1	0.1	10	1.05	0.006
204977	Rock	2.75	0.3	20.6	22.3	25	0.3	39.3	8.6	511	1.81	23.7	37.7	8.2	97	0.2	0.8	0.1	17	2.11	0.020
204978	Rock	2.36	0.8	22.4	174.2	60	1.9	8.4	4.4	519	1.91	65.3	126.2	7.4	92	0.3	1.2	0.5	8	2.12	0.023
204979	Rock	1.50	0.4	34.4	19.9	47	0.4	17.0	10.4	763	2.80	17.1	28.3	5.7	109	<0.1	0.4	0.3	25	3.65	0.033
204980	Rock	1.78	1.7	17.7	7.6	55	0.2	8.1	9.6	833	3.45	30.3	39.6	3.8	87	<0.1	0.3	0.2	19	2.42	0.058
204981	Rock	1.94	0.4	19.8	7.6	73	0.3	7.6	11.3	941	4.14	11.9	26.5	3.6	63	0.1	0.5	0.1	32	1.92	0.066
204982	Rock	2.49	0.7	23.4	6.8	63	0.2	10.6	12.0	783	3.74	9.0	16.1	4.5	64	<0.1	0.5	0.2	27	2.18	0.057
204983	Rock	1.73	1.1	30.5	11.2	31	0.4	6.9	6.2	526	2.06	11.1	18.7	5.8	83	0.1	0.5	0.2	31	1.90	0.025
204984	Rock	1.50	0.8	41.0	11.7	39	0.5	8.6	8.8	640	2.68	11.1	23.3	5.2	90	<0.1	0.5	0.2	43	2.24	0.035
204985	Rock	2.80	1.0	42.0	19.7	46	0.5	31.0	20.5	670	3.34	11.4	17.4	4.3	207	<0.1	1.7	0.2	60	3.77	0.029
204986	Rock	1.90	0.2	51.2	7.7	50	0.2	27.3	22.0	860	3.53	7.4	17.0	1.5	181	<0.1	1.3	<0.1	90	4.90	0.043
204987	Rock	2.15	0.4	31.8	9.3	40	0.2	27.5	14.3	1087	3.08	11.3	12.5	3.1	364	0.2	0.8	<0.1	59	8.64	0.029
204988	Rock	2.16	0.4	19.2	9.0	29	0.1	18.7	8.0	919	2.12	19.0	14.6	4.5	584	0.2	0.6	<0.1	23	13.28	0.017
204989	Rock	1.41	0.3	12.3	6.9	30	0.1	109.0	16.5	1132	2.81	31.9	14.4	3.7	551	<0.1	0.9	<0.1	43	10.96	0.013
204990	Rock	1.66	0.2	9.2	2.6	51	0.1	330.2	38.9	1475	4.51	153.0	4.3	0.7	584	0.1	4.4	<0.1	59	9.38	0.020
204991	Rock	1.47	0.2	86.6	5.4	50	0.2	179.7	33.4	1242	4.32	62.0	<0.5	0.7	582	<0.1	1.5	<0.1	99	8.47	0.023
204992	Rock	1.75	0.1	115.5	7.2	51	0.1	43.2	27.8	949	4.54	9.4	<0.5	0.5	394	0.1	0.9	<0.1	121	5.66	0.041
204993	Rock	1.56	0.2	87.2	4.9	63	<0.1	44.0	28.7	933	5.10	5.1	1.5	0.6	266	0.2	0.9	<0.1	128	3.66	0.049
204994	Rock	2.55	0.3	71.2	6.7	61	0.2	31.1	27.1	1054	4.77	11.9	12.4	0.8	263	0.2	0.7	<0.1	108	4.31	0.043
204995	Rock	1.87	0.3	86.5	5.9	59	0.1	27.8	25.2	809	4.57	6.3	8.2	0.6	203	0.1	0.7	<0.1	124	3.51	0.043
204996	Rock	2.73	0.3	124.8	6.1	51	0.4	24.7	29.6	717	4.27	7.6	4.1	0.5	205	<0.1	1.4	<0.1	102	3.60	0.042
204997	Rock	1.80	0.5	111.5	4.7	41	0.2	124.7	30.3	935	3.89	3.4	<0.5	0.5	412	<0.1	0.8	<0.1	97	5.60	0.029
204998	Rock	2.38	0.4	73.4	2.7	45	0.3	450.6	53.9	1563	4.76	4.8	7.6	0.5	580	<0.1	0.3	<0.1	115	10.05	0.027
204999	Rock	2.42	0.5	25.4	3.0	34	0.2	153.4	22.1	906	2.61	27.8	6.5	5.2	339	<0.1	0.5	<0.1	35	6.57	0.017
205000	Rock	1.53	0.3	22.2	7.9	28	0.2	46.5	8.6	518	1.61	10.1	8.9	7.8	131	0.2	0.3	<0.1	15	2.86	0.015
203449	Rock	2.71	0.4	35.2	19.4	42	0.2	34.1	11.5	732	2.17	10.6	3.8	5.9	190	0.3	0.2	0.2	55	4.95	0.015



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**Project:** SULPHUR  
**Report Date:** November 29, 2017

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# CERTIFICATE OF ANALYSIS

# WHI17001078.1

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
204972	Rock	20	10	0.66	231	0.008	<1	0.59	0.026	0.23	0.4	0.01	4.9	<0.1	0.16	2	<0.5	<0.2
204973	Rock	17	65	1.62	293	0.004	2	0.78	0.020	0.20	0.3	0.02	9.2	<0.1	0.10	2	<0.5	<0.2
204974	Rock	29	9	0.40	227	0.003	<1	0.40	0.028	0.22	0.4	0.01	2.6	<0.1	0.06	1	<0.5	<0.2
204975	Rock	17	236	2.44	233	0.037	<1	1.44	0.019	0.39	0.3	<0.01	7.5	0.1	0.07	3	<0.5	<0.2
204976	Rock Pulp	1	17	0.03	1150	0.009	2	0.18	0.010	0.07	25.7	2.62	0.8	13.1	0.13	<1	1.6	<0.2
204977	Rock	18	55	1.16	181	0.005	1	0.67	0.024	0.23	0.3	<0.01	6.6	<0.1	0.18	1	<0.5	<0.2
204978	Rock	16	12	0.69	126	0.002	1	0.50	0.036	0.17	0.4	0.04	3.5	0.1	0.29	1	<0.5	<0.2
204979	Rock	12	24	1.13	100	0.006	<1	1.10	0.024	0.17	0.3	0.01	5.8	<0.1	0.17	3	<0.5	<0.2
204980	Rock	12	13	1.17	69	0.005	2	1.36	0.038	0.14	0.3	<0.01	6.1	<0.1	0.44	4	<0.5	<0.2
204981	Rock	11	15	1.29	140	0.025	<1	1.62	0.041	0.21	0.4	0.01	8.8	<0.1	0.47	7	<0.5	<0.2
204982	Rock	14	14	1.25	72	0.006	1	1.39	0.035	0.13	0.3	0.01	7.8	<0.1	0.27	5	<0.5	<0.2
204983	Rock	18	8	0.69	189	0.012	2	0.78	0.023	0.30	0.4	<0.01	4.3	<0.1	0.20	2	<0.5	<0.2
204984	Rock	16	10	0.96	191	0.018	2	0.98	0.024	0.33	0.4	<0.01	6.1	<0.1	0.26	3	<0.5	<0.2
204985	Rock	15	50	1.72	165	0.005	2	1.96	0.012	0.27	1.3	0.03	8.8	<0.1	0.29	5	<0.5	<0.2
204986	Rock	6	88	2.13	107	0.010	1	2.40	0.021	0.17	0.6	<0.01	12.3	<0.1	0.27	6	<0.5	<0.2
204987	Rock	13	115	2.10	92	0.006	<1	1.84	0.011	0.17	1.1	0.04	12.9	<0.1	0.12	5	<0.5	<0.2
204988	Rock	14	35	1.69	270	0.002	<1	0.96	0.009	0.18	0.4	0.03	5.6	<0.1	0.12	2	<0.5	<0.2
204989	Rock	12	219	2.74	119	<0.001	<1	1.06	0.009	0.15	0.3	0.05	11.2	<0.1	0.05	2	<0.5	<0.2
204990	Rock	3	464	4.34	74	<0.001	2	1.32	0.008	0.13	0.1	0.03	22.1	<0.1	<0.05	3	<0.5	<0.2
204991	Rock	3	249	3.62	78	0.005	2	2.02	0.012	0.17	0.2	0.04	24.8	<0.1	<0.05	4	<0.5	<0.2
204992	Rock	5	48	3.27	62	0.016	<1	2.43	0.025	0.19	0.2	0.03	17.4	<0.1	0.43	7	<0.5	<0.2
204993	Rock	5	43	3.39	77	0.013	1	2.78	0.024	0.23	0.2	0.02	18.0	<0.1	0.61	8	0.5	<0.2
204994	Rock	5	28	3.05	101	0.008	4	2.30	0.024	0.32	0.2	0.06	18.8	0.1	0.65	7	1.3	<0.2
204995	Rock	4	25	2.72	155	0.014	3	2.62	0.026	0.28	0.2	0.05	15.3	0.1	0.71	7	<0.5	<0.2
204996	Rock	3	27	2.47	217	0.052	2	2.36	0.024	0.32	0.2	0.05	12.1	0.1	0.82	6	0.8	<0.2
204997	Rock	4	273	3.88	397	0.078	<1	2.32	0.021	0.10	0.2	0.03	14.7	<0.1	0.28	5	<0.5	<0.2
204998	Rock	4	1013	6.01	450	0.013	2	3.19	0.007	0.10	0.1	0.04	22.9	<0.1	0.08	7	<0.5	<0.2
204999	Rock	16	300	2.96	141	0.002	<1	1.06	0.016	0.12	0.1	0.05	11.2	<0.1	0.06	2	<0.5	<0.2
205000	Rock	22	83	1.20	151	0.002	2	0.60	0.021	0.17	0.2	0.03	5.4	<0.1	0.12	2	<0.5	<0.2
203449	Rock	23	64	1.41	143	0.003	1	0.63	0.024	0.15	0.2	0.06	12.9	<0.1	0.17	1	<0.5	<0.2

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



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# CERTIFICATE OF ANALYSIS

WHI17001078.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
204567	Rock	1.39	0.7	5.3	8.1	21	0.1	2.9	1.7	362	0.95	7.8	5.1	7.8	70	0.3	0.2	<0.1	4	1.76	0.014
204604	Rock	1.84	0.4	14.7	4.2	42	0.1	7.2	3.5	363	1.74	40.9	1.7	6.4	89	<0.1	0.5	<0.1	12	1.39	0.037
204784	Rock	1.70	0.5	4.2	10.3	15	0.1	0.8	0.3	135	0.60	9.1	13.2	13.5	24	0.1	0.1	<0.1	<2	0.59	0.003
204856	Rock	1.76	0.2	4.1	6.3	10	<0.1	0.8	0.3	98	0.50	14.1	1.6	12.6	16	<0.1	0.1	<0.1	<2	0.35	0.005
204929	Rock	1.50	1.6	20.6	4.7	77	0.3	15.8	11.6	820	2.88	3.2	4.3	5.0	66	0.2	0.4	<0.1	37	2.16	0.059
203450	Rock	1.92	1.0	25.3	14.6	64	0.1	34.4	23.9	841	4.17	9.3	3.8	4.0	178	0.2	0.9	0.1	127	4.19	0.125





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# CERTIFICATE OF ANALYSIS

WHI17001078.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
204567	Rock	29	9	0.20	185	0.002	2	0.50	0.018	0.24	0.2	0.02	2.5	<0.1	0.14	2	<0.5	<0.2
204604	Rock	23	11	0.39	212	0.002	3	0.43	0.025	0.19	0.2	0.01	4.9	<0.1	<0.05	1	<0.5	<0.2
204784	Rock	40	3	0.08	307	0.001	2	0.44	0.025	0.24	0.3	0.02	1.6	<0.1	<0.05	1	<0.5	<0.2
204856	Rock	38	3	0.03	267	0.002	<1	0.33	0.038	0.27	0.3	0.03	1.6	<0.1	<0.05	1	<0.5	<0.2
204929	Rock	20	26	1.56	423	0.050	<1	1.46	0.021	0.76	0.3	0.05	8.6	0.3	0.39	5	0.6	<0.2
203450	Rock	22	54	2.22	335	0.051	2	2.08	0.019	0.66	0.2	0.05	13.6	0.2	0.39	6	<0.5	<0.2



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Project: SULPHUR  
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# QUALITY CONTROL REPORT

WHI17001078.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
204935	Rock	1.49	0.3	3.2	11.4	11	0.1	1.7	1.2	132	0.64	2.6	2.2	12.0	22	<0.1	0.1	0.2	<2	0.51	0.014
REP 204935	QC		0.3	3.2	11.4	11	0.1	1.5	1.1	134	0.64	2.4	2.2	11.8	23	<0.1	0.1	0.2	<2	0.53	0.013
204969	Rock	1.94	0.9	15.5	87.8	50	0.2	10.6	12.4	599	2.61	7.7	2.2	6.1	86	0.3	1.4	<0.1	74	1.98	0.077
REP 204969	QC		1.3	15.9	86.2	49	0.2	11.2	13.3	623	2.70	7.8	3.4	5.7	85	0.4	1.4	<0.1	76	2.04	0.083
204999	Rock	2.42	0.5	25.4	3.0	34	0.2	153.4	22.1	906	2.61	27.8	6.5	5.2	339	<0.1	0.5	<0.1	35	6.57	0.017
REP 204999	QC		0.3	25.2	2.9	33	0.2	152.6	22.6	901	2.58	28.8	10.4	5.0	343	<0.1	0.6	<0.1	35	6.61	0.017
Core Reject Duplicates																					
204922	Rock	2.43	0.2	2.9	18.7	41	0.4	0.5	0.6	135	0.79	97.8	63.3	11.1	27	0.4	0.2	0.1	<2	0.67	0.004
DUP 204922	QC		0.2	2.7	18.1	30	0.4	0.6	0.5	131	0.77	91.9	56.0	11.6	26	0.3	0.2	0.1	<2	0.73	0.004
204957	Rock	1.64	0.4	18.7	8.9	47	0.1	6.1	9.0	951	3.17	1.3	<0.5	3.0	104	<0.1	0.2	0.1	26	2.70	0.054
DUP 204957	QC		0.4	18.4	8.8	52	0.1	6.1	9.6	970	3.23	0.8	0.6	3.0	109	<0.1	0.2	0.1	27	2.71	0.057
204991	Rock	1.47	0.2	86.6	5.4	50	0.2	179.7	33.4	1242	4.32	62.0	<0.5	0.7	582	<0.1	1.5	<0.1	99	8.47	0.023
DUP 204991	QC		0.3	63.3	4.7	49	0.2	184.8	34.3	1253	4.28	59.9	<0.5	0.7	562	0.1	1.6	<0.1	98	8.57	0.025
Reference Materials																					
STD DS11	Standard		14.9	146.0	139.1	330	1.7	76.8	13.3	1044	3.07	41.5	85.5	7.2	66	2.3	8.1	11.5	47	1.06	0.067
STD DS11	Standard		14.2	149.6	133.4	336	1.7	76.1	13.9	1030	3.14	43.8	90.3	7.2	67	2.7	8.2	11.3	51	1.00	0.072
STD DS11	Standard		14.1	138.8	128.9	333	1.7	73.2	14.0	1031	3.00	39.2	98.6	6.9	64	2.1	6.8	11.5	46	1.04	0.067
STD DS11	Standard		13.8	149.0	140.8	329	1.7	79.2	13.2	1001	3.08	41.5	68.5	8.0	64	2.4	8.6	11.7	47	1.02	0.074
STD OXC129	Standard		1.2	28.9	6.2	41	<0.1	82.0	20.9	439	3.08	0.9	198.2	1.9	196	<0.1	<0.1	<0.1	51	0.73	0.102
STD OXC129	Standard		1.3	27.1	6.0	40	<0.1	80.8	21.4	434	3.05	0.9	201.2	1.6	189	<0.1	<0.1	<0.1	53	0.66	0.099
STD OXC129	Standard		1.4	25.1	5.6	38	<0.1	75.4	19.9	422	2.93	<0.5	167.7	1.5	180	<0.1	<0.1	<0.1	50	0.67	0.095
STD OXC129	Standard		1.1	27.3	6.1	39	<0.1	80.4	20.0	418	2.98	0.6	193.9	1.8	174	<0.1	<0.1	<0.1	50	0.68	0.098
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	1.4	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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# QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
204935	Rock	37	4	0.06	224	0.003	1	0.35	0.026	0.25	0.3	<0.01	2.0	<0.1	<0.05	1	<0.5	<0.2
REP 204935	QC	36	4	0.06	220	0.003	1	0.35	0.026	0.24	0.2	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
204969	Rock	23	15	1.17	490	0.125	<1	1.38	0.018	0.47	0.2	0.02	5.6	0.1	0.19	4	<0.5	<0.2
REP 204969	QC	20	15	1.21	508	0.120	<1	1.45	0.018	0.48	0.2	0.03	5.8	0.1	0.19	4	<0.5	<0.2
204999	Rock	16	300	2.96	141	0.002	<1	1.06	0.016	0.12	0.1	0.05	11.2	<0.1	0.06	2	<0.5	<0.2
REP 204999	QC	17	297	2.93	142	0.002	1	1.07	0.016	0.12	0.1	0.04	11.4	<0.1	0.05	2	<0.5	<0.2
Core Reject Duplicates																		
204922	Rock	34	3	0.22	175	<0.001	5	0.40	0.036	0.23	0.4	0.04	2.4	<0.1	0.17	1	<0.5	<0.2
DUP 204922	QC	33	2	0.23	160	<0.001	4	0.39	0.033	0.22	0.4	0.03	2.4	<0.1	0.17	1	<0.5	<0.2
204957	Rock	9	11	1.05	184	0.029	<1	1.34	0.034	0.35	0.1	<0.01	6.1	0.1	0.18	5	<0.5	<0.2
DUP 204957	QC	9	11	1.08	201	0.033	<1	1.36	0.036	0.37	0.1	<0.01	6.7	0.1	0.19	5	<0.5	<0.2
204991	Rock	3	249	3.62	78	0.005	2	2.02	0.012	0.17	0.2	0.04	24.8	<0.1	<0.05	4	<0.5	<0.2
DUP 204991	QC	3	246	3.56	74	0.005	1	1.97	0.012	0.17	0.2	0.03	23.7	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	20	59	0.83	386	0.093	6	1.20	0.073	0.41	3.0	0.26	3.4	4.9	0.27	5	1.6	4.5
STD DS11	Standard	18	60	0.84	373	0.094	9	1.16	0.071	0.40	2.8	0.28	3.2	4.8	0.28	5	1.9	4.6
STD DS11	Standard	17	55	0.81	342	0.089	7	1.13	0.070	0.39	2.8	0.24	2.7	4.3	0.26	4	1.6	4.1
STD DS11	Standard	18	60	0.83	368	0.091	7	1.13	0.073	0.39	3.1	0.27	2.9	5.1	0.27	5	2.1	4.5
STD OXC129	Standard	12	55	1.58	51	0.433	2	1.64	0.594	0.37	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	53	1.55	50	0.390	2	1.53	0.575	0.36	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	11	49	1.51	46	0.402	<1	1.54	0.563	0.35	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	12	52	1.49	51	0.396	<1	1.58	0.592	0.38	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: SULPHUR  
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# QUALITY CONTROL REPORT

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		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.8	9.1	104.3	48	<0.1	2.5	5.1	633	2.09	2.7	0.8	1.6	30	0.2	0.5	<0.1	29	0.85	0.044
ROCK-WHI	Prep Blank		0.5	6.6	1.4	34	<0.1	1.3	4.5	588	1.94	1.5	0.7	1.5	24	<0.1	<0.1	<0.1	26	0.76	0.041



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# QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Prep Wash		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
ROCK-WHI	Prep Blank	5	6	0.63	59	0.076	2	1.23	0.114	0.10	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	5	4	0.57	59	0.067	1	1.07	0.110	0.11	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2

## **Appendix E - Sample Standards and QAQC**

# CDN Resource Laboratories Ltd.

#2, 20148 – 102<sup>nd</sup> Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-GS-P2A

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $0.229 \pm 0.030$  g/t (30g Fire Assay / instrumental finish)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** August 16, 2011

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-P2A was prepared using ore supplied by Barrick Gold Inc. from their Bald Mountain Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Battle Mountain-Eureka Trend in Northern Nevada, USA. The material is from breccias near the contact between the Mississippian Pilot Shale and the underlying Devonian Guilmette formation. Near the center of the system, micron-sized native Au occurs with base metal sulfides and sulfosalts. In peripheral deposits and in later stages of mineralization, Au is typically submicron in size and resides in pyrite or arsenopyrite.

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
SAMPLE	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-P2A-1	0.241	0.268	0.242	0.245	0.228	0.228	0.216	0.207	0.238	0.238	0.230	0.271	0.23	0.220	0.234
GS-P2A-2	0.262	0.247	0.232	0.235	0.226	0.231	0.218	0.217	0.230	0.230	0.232	0.232	0.24	0.217	0.215
GS-P2A-3	0.252	0.256	0.244	0.250	0.215	0.211	0.204	0.204	0.223	0.250	0.225	0.253	0.21	0.211	0.212
GS-P2A-4	0.262	0.252	0.241	0.245	0.225	0.222	0.217	0.206	0.226	0.227	0.229	0.247	0.26	0.235	0.214
GS-P2A-5	0.252	0.266	0.229	0.245	0.232	0.235	0.206	0.211	0.236	0.221	0.225	0.261	0.25	0.234	0.231
GS-P2A-6	0.254	0.269	0.248	0.235	0.21	0.220	0.217	0.215	0.217	0.233	0.209	0.230	0.22	0.238	0.211
GS-P2A-7	0.266	0.264	0.247	0.230	0.215	0.223	0.222	0.202	0.230	0.217	0.239	0.252	0.20	0.230	0.220
GS-P2A-8	0.253	0.269	0.226	0.225	0.228	0.212	0.207	0.204	0.218	0.220	0.241	0.246	0.26	0.235	0.202
GS-P2A-9	0.264	0.266	0.248	0.260	0.227	0.192	0.232	0.201	0.232	0.227	0.223	0.244	0.23	0.232	0.235
GS-P2A-10	0.270	0.260	0.244	0.220	0.237	0.233	0.204	0.206	0.213	0.225	0.220	0.236	0.22	0.239	0.229
Mean	0.258	0.262	0.240	0.239	0.224	0.221	0.214	0.207	0.226	0.229	0.227	0.247	0.232	0.229	0.220
Std. Dev'n	0.0087	0.0077	0.0084	0.0122	0.0084	0.0130	0.0091	0.0054	0.0084	0.0097	0.0093	0.0128	0.0204	0.0096	0.0113
%RSD	3.37	2.94	3.50	5.11	3.75	5.88	4.23	2.59	3.71	4.25	4.08	5.18	8.81	4.21	5.14

*Note: Results from Laboratory 2 were removed for failing the t test.*

### APPROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent			ppm
SiO <sub>2</sub>	87.7		Na <sub>2</sub> O	< 0.1		As	540
Al <sub>2</sub> O <sub>3</sub>	1.0		MgO	0.1		Sb	60
Fe <sub>2</sub> O <sub>3</sub>	4.5		K <sub>2</sub> O	0.2			
CaO	1.4		TiO <sub>2</sub>	0.5			
MnO	< 0.1		LOI	2.1			
Total S	0.6		Total C	0.3			

**REFERENCE MATERIAL: CDN-GS-P2A**

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

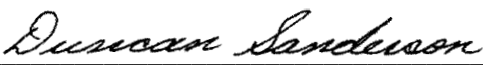
Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
AGAT Laboratories Ltd., Mississauga, Ontario, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
American Assay Laboratories, Nevada, USA  
Alex Stewart Argentina SA  
Alex Stewart, Kamloops, B.C., Canada  
Genalysis Lab Services, Australia  
Inspectorate, Richmond, B.C., Canada  
OMAC Laboratories Ltd., Ireland  
SGS, Lima, Peru  
Skyline, Tucson, USA  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace Laboratories Ltd., Australia


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
Dr. Barry Smee, Ph.D., P. Geo.





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**CERTIFICATE OF ANALYSIS FOR**  
**GOLD ORE REFERENCE MATERIAL**  
**OREAS 2Pd**

**SUMMARY STATISTICS**

<b>Constituent</b>	<b>Recommended Value</b>	<b>95% Confidence</b>		<b>Tolerance limits</b>	
		<b>Interval</b>		<b>1-<math>\alpha</math>=0.99, <math>\rho</math>=0.95</b>	
		<b>Low</b>	<b>High</b>	<b>Low</b>	<b>High</b>
Gold, Au (ppm)	0.885	0.871	0.898	0.869	0.900

*Prepared by:*  
*Ore Research & Exploration Pty Ltd*  
*December 2006*

## INTRODUCTION

OREAS reference materials (RM) are intended to provide a low cost method of evaluating and improving the quality of precious and base metal analysis of geological samples. To the analyst, they provide an effective means of calibrating analytical equipment, assessing new techniques and routinely monitoring in-house procedures. To the explorationist, they provide an important control in analytical data sets related to exploration from the grass roots level through to resource definition.

As a rule, only source materials exhibiting an exceptional level of homogeneity of the element(s) of interest are used in the preparation of these materials. This has enabled Ore Research & Exploration to produce a range of gold RM exhibiting homogeneity that matches or exceeds that of currently available international reference materials. In many instances RM produced from a single source are sufficiently homogeneous to produce a relatively coarse-grained form designed to simulate drill chip samples. These have a grain size of minus 3mm and are designated with a "C" suffix to the RM identification number. These standards are packaged in 1kg units following homogenisation and are intended for submission to analytical laboratories in subsample sizes of as little as 250g. They offer the added advantages of providing a check on both sample preparation and analytical procedures while acting as a blind standard to the assay laboratory. The more conventional pulped standards have a grain size of minus 75 microns and a higher degree of homogeneity. These standards are distinguished by a "P" suffix to the standard identification number. In line with ISO recommendations successive batch numbers are now designated by the lower case suffixes "a", "b", "c", "d", etc.

## SOURCE MATERIALS

OREAS 2Pd was prepared from a blend of oxidised ore and barren material taken from the flanks of a mineralised shear zone within Ordovician flysch sediments in the Blackwood area of central Victoria. The sedimentary succession hosting the shear zone consists predominantly of medium-grained greywackes together with subordinate interbedded siltstone and slate. Hydrothermal alteration in the vicinity of the mineralisation is indicated by the development of phyllite. The shear zone, in which gold grades attain a maximum, is manifested by foliated sericitic and chloritic fault gouge and goethitic quartz veins.

Although no ore mineragraphy or scanning electron microscopy has been undertaken to determine the nature of occurrence of the gold, the very homogeneous distribution on a mesoscopic scale and uniform concentration gradient away from the ore zone suggests the gold is extremely fine-grained and evenly disseminated. Limited percussion drilling indicates that sulphides are rare to absent at depth in the shear zone.

The approximate major and trace element composition of this oxidised, quartz-veined metagreywacke comprising gold ore standard OREAS 2Pd is given in Table 1. The constituents SiO<sub>2</sub> to Total are the means of duplicate XRF analyses determined using a borate fusion method, S and C are means of duplicate IR combustion furnace analyses, while the remaining constituents, Ag to Zr, are means of duplicate analyses determined by ICP-OES and ICP-MS.

Gold homogeneity has been evaluated and confirmed by INAA on twenty 0.5 gram sample portions and by a nested ANOVA program using conventional fire assay. The tolerance interval is determined from the INAA data while the recommended value and confidence

interval are based on a round robin program incorporating a total of 116 analyses at 17 laboratories.

## COMMINUTION AND HOMOGENISATION PROCEDURES

The gold-bearing basaltic material comprising OREAS 2Pd was prepared in the following manner:

- a) *jaw crushing to minus 3mm*
- b) *drying to constant mass at 105°C*
- c) *milling of the barren material to 98% minus 75 micron*
- d) *milling of the gold-bearing material to 100% minus 20 micron*
- e) *blending in appropriate proportions to achieve the desired grade*
- f) *bagging into 25kg sublots*

Table 1. Approximate major and trace element composition of gold-bearing reference material OREAS 2Pd; wt.% - weight percent; ppm - parts per million.

Constituent	wt.%	Constituent	ppm	Constituent	ppm	Constituent	ppm
SiO <sub>2</sub>	75.5	Ag	<0.05	Gd	5.0	Sb	62
TiO <sub>2</sub>	0.62	As	827	Hf	8.0	Sc	14.5
Al <sub>2</sub> O <sub>3</sub>	12.1	Ba	575	Ho	0.75	Sm	7.0
Fe <sub>2</sub> O <sub>3</sub>	4.84	Be	5.9	In	0.06	Sn	4.0
MnO	0.007	Bi	0.10	La	23	Sr	58
MgO	0.55	Cd	<0.5	Li	30	Ta	1.0
CaO	0.02	Ce	82	Lu	0.33	Tb	0.72
Na <sub>2</sub> O	0.12	Co	<5	Mo	2.0	Te	<0.2
K <sub>2</sub> O	2.83	Cs	6.9	Nb	15	Th	14.7
P <sub>2</sub> O <sub>5</sub>	0.08	Cu	36	Nd	34	U	3.4
LOI	2.88	Dy	4.0	Ni	31	W	10.0
Total	99.5	Er	2.0	Pb	20	Y	29
C	0.06	Eu	1.3	Pr	10.1	Yb	2.2
S	0.01	Ga	16	Rb	164	Zn	66
						Zr	240

## ANALYSIS OF OREAS 2Pd

Seventeen laboratories participated in the analytical program and are listed in the section headed Participating Laboratories. To maintain anonymity laboratories have been randomly designated the letter codes A through Q. With the exception of Laboratory Q, each laboratory received two scoop-split 120 gram subsamples from each of two 1kg test units taken at regular intervals during the bagging stage. They were instructed to carry out one 20-50 gram fire assay gold determination on each subsample. This two-stage nested design for the interlaboratory programme was amenable to analysis of variance (ANOVA) treatment and enabled a comparative assessment of within- and between-unit homogeneity.

For the determination of a statistical tolerance interval, a 10 gram scoop split was taken from each of the twenty test units and submitted to Laboratory Q for gold assay via instrumental neutron activation analysis on a reduced analytical subsample weight of 0.5 gram.

Individual assay results for the fire assay and INAA methods are presented in Tables 2 and 3 together with the mean, median, standard deviations (absolute and relative) and percent deviation of the lab mean from the corrected mean of means for each data set (PDM<sup>3</sup>). Interlaboratory agreement of the means is good with all labs lying within 5% relative of the corrected mean of means of 0.885 ppm Au.

## STATISTICAL EVALUATION OF ANALYTICAL DATA FOR OREAS 2Pd

### Recommended Value and Confidence Limits

The recommended value was determined from the mean of means of accepted replicate values of accepted laboratory data sets A to Q according to the formulae

$$\bar{x}_i = \frac{1}{n_i} \sum_{j=1}^{n_i} x_{ij}$$

$$\dot{x} = \frac{1}{p} \sum_{i=1}^p \bar{x}_i$$

where

$x_{ij}$  is the  $j$ th result reported by laboratory  $i$ ;

$p$  is the number of participating laboratories;

$n_i$  is the number of results reported by laboratory  $i$ ;

$\bar{x}_i$  is the mean for laboratory  $i$ ;

$\dot{x}$  is the mean of means.

The confidence limits were obtained by calculation of the variance of the consensus value (mean of means) and reference to Student's- $t$  distribution with degrees of freedom ( $p-1$ ):

$$\hat{V}(\ddot{x}) = \frac{1}{p(p-1)} \sum_{i=1}^p (\bar{x}_i - \dot{x})^2$$

$$\text{Confidence limits} = \dot{x} \pm t_{1-x/2}(p-1) \left( \hat{V}(\ddot{x}) \right)^{1/2}$$

where  $t_{1-x/2}(p-1)$  is the  $1-x/2$  fractile of the  $t$ -distribution with  $(p-1)$  degrees of freedom.

The distribution of the values is assumed to be symmetrical about the mean in the calculation of the confidence limits.

The test for rejection of individual outliers from each laboratory data set was based on  $z$  scores (rejected if  $|z_i| > 2.5$ ) computed from the robust estimators of location and scale,  $T$  and  $S$ , respectively, according to the formulae

$$S = 1.483 \frac{\text{median} / x_j - \text{median} (x_i)}{j=1 \dots n \quad i=1 \dots n}$$

$$z_i = \frac{x_i - T}{S}$$

where

*T* is the median value in a data set;

*S* is the median of all absolute deviations from the sample median multiplied by 1.483, a correction factor to make the estimator consistent with the usual parameter of a normal distribution.

Table 2. Analytical results for gold (ppm) in OREAS 2Pd by 50g fire assay/ flame AAS/OES/ES (Std. Dev. - one sigma standard deviation; RSD – one sigma relative standard deviation; PDM<sup>3</sup> – percent deviation of lab mean from corrected mean of means; outliers in bold).

Replicate	Lab A	Lab B	Lab C	Lab D	Lab E	Lab F	Lab G	Lab H	Lab I	Lab J
	FA*OES	FA*AAS	FA*AAS	FA*AAS	FA*AAS	FA*OES	FA*OES	FA*AAS	FA*AAS	FA*AAS
1	0.898	0.903	0.890	0.870	0.860	0.920	0.960	0.896	0.860	0.804
2	<b>0.811</b>	0.895	0.890	0.883	0.920	0.930	0.935	0.898	0.800	0.835
3	0.904	0.897	0.890	0.856	0.940	0.940	0.963	0.895	0.840	0.812
4	0.910	0.888	0.890	0.865	0.890	0.930	0.980	<b>0.874</b>	0.810	0.813
5	0.898	0.900	0.880	0.879	0.910	0.920	0.968	0.886	0.840	0.823
6	0.869	<b>0.873</b>	0.870	0.887	0.900	0.920	0.935	0.894	0.860	0.832
Mean	0.882	0.893	0.885	0.873	0.903	0.927	<b>0.957</b>	0.891	0.835	<b>0.820</b>
Median	0.898	0.896	0.890	0.875	0.905	0.925	0.962	0.895	0.840	0.818
Std.Dev.	0.037	0.011	0.008	0.012	0.027	0.008	0.018	0.009	0.025	0.012
Rel.Std.Dev.	4.24%	1.22%	0.95%	1.35%	3.02%	0.88%	1.91%	1.02%	3.01%	1.49%
PDM <sup>3</sup>	-0.34%	0.90%	0.03%	-1.29%	2.11%	4.74%	8.15%	0.66%	-5.62%	-7.33%

Table 2. Continued.

Replicate	Lab K	Lab L	Lab M	Lab N	Lab O	Lab P
	FA*AAS	FA*AAS	FA*AAS	FA*AAS	FA*OES	FA*AAS
1	0.883	0.888	<b>0.870</b>	<b>0.850</b>	0.836	<b>0.900</b>
2	0.893	0.893	0.900	0.890	0.851	0.870
3	0.828	0.886	0.900	0.880	0.840	0.880
4	0.905	<b>0.863</b>	0.900	0.880	0.819	0.880
5	0.908	0.883	0.910	<b>0.910</b>	0.813	0.890
6	0.833	0.892	0.910	0.880	0.858	0.880
Mean	0.875	0.884	0.898	0.882	0.836	0.883
Median	0.888	0.887	0.900	0.880	0.838	0.880
Std.Dev.	0.036	0.011	0.015	0.019	0.018	0.010
Rel.Std.Dev.	4.07%	1.25%	1.64%	2.20%	2.10%	1.17%
PDM <sup>3</sup>	-1.10%	-0.06%	1.54%	-0.34%	-5.49%	-0.16%

The same principles were applied in testing for outlying laboratory means. In certain instances statistician's prerogative has been employed in discriminating outliers. Individual and mean outliers are shown in bold type in Tables 2 and 3, and have been omitted in the determination of recommended values.

The magnitude of the confidence interval is inversely proportional to the number of participating laboratories and interlaboratory agreement. It is a measure of the reliability of the recommended value, i.e. the narrower the confidence interval the greater the certainty in the recommended value.

Table 3. Analytical results for gold (ppm) in OREAS 2Pd by instrumental neutron activation analysis on 0.5 gram analytical subsample weights (abbreviations as for Table 2).

Replicate Number	Lab Q INAA
1	0.949
2	0.837
3	0.847
4	0.818
5	0.946
6	0.983
7	0.903
8	0.959
9	0.841
10	0.851
11	0.888
12	0.860
13	0.978
14	0.916
15	0.890
16	0.900
17	0.881
18	0.884
19	0.920
20	0.849
Mean	0.895
Median	0.889
Std.Dev.	0.049
Rel.Std.Dev.	5.48%
PDM <sup>3</sup>	1.16%

Table 4. Recommended value and 95% confidence interval

Constituent	Recommended value	95% Confidence interval	
		Low	High
Gold, Au (ppm)	0.885	0.871	0.898

### Statement of Homogeneity

The variability of replicate assays from each laboratory is a result of both measurement and subsampling errors. In the determination of a statistical tolerance interval it is therefore necessary to eliminate, or at least substantially minimise, those errors attributable to measurement. One way of achieving this is by substantially reducing the analytical subsample weight to a point where most of the variability in replicate assays is due to inhomogeneity of the reference material and measurement error becomes negligible. This approach was adopted in the INAA data set (Table 3) where a 0.5 gram subsample weight was employed. The homogeneity was determined from tables of factors for two-sided tolerance limits for normal distributions (ISO Guide 3207) in which

$$\text{Lower limit is } \bar{x} - k'_2(n, p, 1 - \alpha)s$$

$$\text{Upper limit is } \bar{x} + k'_2(n, p, 1 - \alpha)s$$

where

$n$  is the number of results reported by laboratory  $Q$ ;

$1 - \alpha$  is the confidence level;

$p$  is the proportion of results expected within the tolerance limits;

$k_2'$  is the factor for two-sided tolerance limits ( $m, \sigma$  unknown);

and  $s$  is computed according to the formula

$$s = \left[ \frac{\sum_{j=1}^n (x_j - \bar{x})^2}{n - 1} \right]^{1/2}$$

**No individual outliers were removed from the results prior to the calculation of tolerance intervals.**

Table 5. Recommended value and tolerance interval.

Constituent	Recommended value	Tolerance interval $1-\alpha=0.99, p=0.95$	
		Low	High
Gold, Au (ppm)	0.885	0.869	0.900

From the INAA data set an estimated tolerance interval of  $\pm 0.01$  ppm at an analytical subsample weight of 50 gram was obtained (using the sampling constant relationship of Ingamells and Switzer, 1973) and is considered to reflect the actual homogeneity of the material under test. The meaning of this tolerance interval may be illustrated for gold (refer Table 5), where 99% of the time at least 95% of 50g-sized subsamples will have concentrations lying between 0.869 and 0.900 ppm. Put more precisely, this means that if the same number of subsamples were taken and analysed in the same manner repeatedly, 99% of the tolerance intervals so constructed would cover at least 95% of the total population, and 1% of the tolerance intervals would cover less than 95% of the total population (ISO Guide 35).

### Performance Gates

Performance gates provide an indication of a level of performance that might reasonably be expected from a routine laboratory being monitored by this standard in a QA/QC program. They incorporate errors attributable to bias, precision and inhomogeneity and are simply calculated from the standard deviation of the pooled individual analyses (fire assay data only) generated from the certification program. All individual and lab dataset (batch) outliers are removed prior to determination of the standard deviation. These outliers can only be removed after the absolute homogeneity of the CRM has been independently established, i.e. the outliers must be confidently deemed to be analytical rather than arising from inhomogeneity of the CRM.

Table 6. Proposed performance gates for 2Pd

Constituent	Recommended value	Performance Gates					
		1SD		2SD		3SD	
		Low	High	Low	High	Low	High
Gold, Au (ppm)	0.885	0.855	0.914	0.826	0.943	0.797	0.973

Performance gates have been calculated for one, two and three standard deviations of the accepted pool of certification data and are presented in Table 6. As a guide these intervals may be regarded as informational (1SD), warning or rejection for multiple outliers (2SD), or rejection for individual outliers (3SD) in QC monitoring although their precise application should be at the discretion of the QC manager concerned.

## PARTICIPATING LABORATORIES

Acme Analytical Laboratories Ltd, Vancouver, BC, Canada  
 Activation Laboratories, Ancaster, Ontario, Canada  
 Amdel Laboratories, Perth, WA, Australia  
 Amdel Laboratories Ltd, Thebarton, SA, Australia  
 ALS Chemex, Garbutt, QLD, Australia  
 ALS Chemex, La Serena, Chile, South America  
 ALS Chemex, Reno, Nevada, USA  
 ALS Chemex, Val-d'or, Quebec, Canada  
 ALS Chemex, Vancouver, BC, Canada  
 ANSTO, Lucas Heights, NSW, Australia  
 Genalysis Laboratory Services Pty Ltd, Maddington, WA, Australia  
 Intertek Testing Services, Jakarta, Indonesia  
 McPhar Laboratories, Legaspi Village, Makati City, Philippines  
 OMAC Laboratories Ltd, Loughrea, County Galway, Ireland  
 SGS Indonesia, Balikpapan, Kalimantan Timur, Indonesia  
 SGS, Townsville, Qld, Australia  
 SGS, Welshpool, WA, Australia  
 Ultra Trace, Canning Vale, WA, Australia

## PREPARER AND SUPPLIER OF THE REFERENCE MATERIAL

The gold ore reference material, OREAS 2Pd has been prepared and certified and is supplied by:

Ore Research & Exploration Pty Ltd  
 6-8 Gatwick Road  
 Bayswater North, VIC 3153  
 AUSTRALIA

Telephone (03) 9729 0333 International +613-9729 0333  
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It is available in unit sizes of 60g foil packets and 1kg jars.



## **INTENDED USE**

OREAS 2Pd is a reference material intended for the following:

- i) for the calibration of instruments used in the determination of the concentration of gold;
- ii) for the verification of analytical methods for gold;
- iii) for the preparation of secondary reference materials of similar composition;
- iv) as an arbitration sample for commercial transactions.

## **STABILITY AND STORAGE INSTRUCTIONS**

OREAS 2Pd has been prepared from a blend of gold-bearing and gold-free sedimentary materials obtained from the oxidised zone of a mineralised shear zone. The CRM is therefore considered to have long-term stability under normal storage conditions.

## **INSTRUCTIONS FOR THE CORRECT USE OF THE REFERENCE MATERIAL**

The recommended value for OREAS 2Pd refers to the concentration level of gold after removal of hygroscopic moisture by drying in air to constant mass at 105<sup>0</sup> C. If the reference material is not dried by the user prior to analysis, the recommended value should be corrected to the moisture-bearing basis.

## **LEGAL NOTICE**

Ore Research & Exploration Pty Ltd has prepared and statistically evaluated the property values of this reference material to the best of its ability. The Purchaser by receipt hereof releases and indemnifies Ore Research & Exploration Pty Ltd from and against all liability and costs arising from the use of this material and information.

**CERTIFYING OFFICER:** Dr Paul Hamlyn

## **REFERENCES**

Ingamells, C. O. and Switzer, P. (1973), *Talanta* 20, 547-568.

ISO Guide 35 (1985), Certification of reference materials - General and statistical principals.

ISO Guide 3207 (1975), Statistical interpretation of data - Determination of a statistical tolerance interval.

Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	HoleType	BatchFirst	Ag_ppm_ICPMS _GEO15AR01	Al_pct_ICPMS_ GEO15AR01	As_ppm_ICPM S_GEO15AR01	Au_ppb_ICPMS _GEO15AR01	B_ppm_ICPMS _GEO15AR01	Ba_ppm_ICPM S_GEO15AR01	Bi_ppm_ICPMS _GEO15AR01	Ca_pct_ICPMS _GEO15AR01
204560	RejectDuplicate	204559	SURC1701	Drillhole	WHI17001075	0.3	0.77	24	6.1	0.5	174	0.05	2.9
201617	RejectDuplicate	204513	SURC1701	Drillhole	WHI17001075	0.2	1.44	8.9	2.6	0.5	220	0.05	2.82
201618	Standard	NGSP2AGSP	SURC1701	Drillhole	WHI17001075	0.4	0.17	473.2	271	3	929	0.2	1.02
201619	Blank	Blank1	SURC1701	Drillhole	WHI17001075	0.05	0.02	1.4	0.1	0.5	11	0.05	26.95
203446	Blank	Blank1	SURC1701	Drillhole	WHI17001075	0.05	0.02	1.1	0.1	5	11	0.05	31.13
203445	Standard	2Pd	SURC1701	Drillhole	WHI17001075	0.05	0.65	794	784.4	3	76	0.4	0.005
204610	Standard	NGSP2AGSP	SURC1702	Drillhole	WHI17001075	0.5	0.17	461.3	248.8	2	1026	0.2	1.03
204620	Blank	Blank1	SURC1702	Drillhole	WHI17001075	0.05	0.005	0.25	1.5	0.5	17	0.05	34.12
204580	Blank	Blank1	SURC1702	Drillhole	WHI17001075	0.05	0.02	0.25	0.1	2	9	0.05	27.01
204570	Standard	2Pd	SURC1702	Drillhole	WHI17001075	0.05	0.67	791.3	826.9	4	76	0.3	0.005
204600	RejectDuplicate	204599	SURC1702	Drillhole	WHI17001075	0.2	1.12	2.5	2.1	1	459	0.2	1.9
204640	RejectDuplicate	204639	SURC1702	Drillhole	WHI17001076	0.3	1.44	2.9	0.1	0.5	230	0.1	3.46
204650	Standard	2Pd	SURC1703	Drillhole	WHI17001076	0.05	0.68	818.2	793.4	4	79	0.4	0.005
204660	Blank	Blank1	SURC1703	Drillhole	WHI17001076	0.05	0.03	2.1	0.5	3	15	0.05	32.85
204680	Standard	CDNGSP2A	SURC1703	Drillhole	WHI17001076	0.4	0.19	476	255	5	1051	0.2	1.02
204690	Blank	Blank1	SURC1703	Drillhole	WHI17001076	0.05	0.01	0.25	0.1	0.5	14	0.05	32.58
203448	RejectDuplicate	204711	SURC1703	Drillhole	WHI17001076	0.3	1.07	167.7	20.2	1	286	0.05	3.35
204760	RejectDuplicate	204759	SURC1704	Drillhole	WHI17001076	0.1	1.3	22.9	1.3	0.5	159	0.05	1.13
204740	Blank	Blank1	SURC1704	Drillhole	WHI17001076	0.05	0.01	0.25	1.6	0.5	13	0.05	33.31
204720	RejectDuplicate	204719	SURC1704	Drillhole	WHI17001076	0.1	1.33	4.9	0.1	1	306	0.05	2.25
204770	Standard	CDNGSP2A	SURC1704	Drillhole	WHI17001076	0.4	0.18	487.4	239.7	5	1022	0.2	1.02
204780	Blank	Blank1	SURC1704	Drillhole	WHI17001077	0.05	0.01	0.25	0.1	0.5	16	0.05	35.16
204730	Standard	2Pd	SURC1704	Drillhole	WHI17001076	0.05	0.7	799.4	852.7	4	85	0.4	0.005
204800	RejectDuplicate	204799	SURC1705	Drillhole	WHI17001077	0.1	0.4	7.8	6.7	0.5	247	0.1	0.36
204810	Standard	2pd	SURC1705	Drillhole	WHI17001077	0.05	0.61	811.7	858.5	2	74	0.3	0.01
204820	Blank	Blank1	SURC1705	Drillhole	WHI17001077	0.05	0.02	0.6	0.1	0.5	11	0.05	29.82
204840	RejectDuplicate	204839	SURC1705	Drillhole	WHI17001077	0.2	0.28	150.3	103.3	1	239	0.05	1.83
204850	Standard	CDNGSP2A	SURC1705	Drillhole	WHI17001077	0.4	0.18	474.1	233.5	4	1020	0.1	1.01
203447	Blank	Blank1	SURC1705	Drillhole	WHI17001077	0.05	0.01	1.1	4.1	1	15	0.05	32.75
204860	Blank	Blank1	SURC1706	Drillhole	WHI17001077	0.05	0.02	0.7	0.9	3	12	0.05	29.97
204912	RejectDuplicate	204911	SURC1706	Drillhole	WHI17001078	0.4	0.26	292.5	121.1	4	154	0.1	0.86
204910	Standard	CDNGSP2A	SURC1706	Drillhole	WHI17001077	0.4	0.17	469	245.7	2	1054	0.1	1.01
204900	Blank	Blank1	SURC1706	Drillhole	WHI17001077	0.05	0.02	1.1	0.9	0.5	12	0.05	32.76

Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	HoleType	BatchFirst	Ag_ppm_ICPMS _GEO15AR01	Al_pct_ICPMS_ GEO15AR01	As_ppm_ICPM S_GEO15AR01	Au_ppb_ICPMS _GEO15AR01	B_ppm_ICPMS _GEO15AR01	Ba_ppm_ICPM S_GEO15AR01	Bi_ppm_ICPMS _GEO15AR01	Ca_pct_ICPMS _GEO15AR01
204870	RejectDuplicate	204869	SURC1706	Drillhole	WHI17001077	0.1	0.38	13	19.4	2	248	0.05	0.86
204880	Standard	2pd	SURC1706	Drillhole	WHI17001077	0.05	0.65	793.1	838.8	5	73	0.3	0.005
204984	RejectDuplicate	204983	SURC1707	Drillhole	WHI17001078	0.5	0.98	11.1	23.3	2	191	0.2	2.24
204937	Blank	Blank1	SURC1707	Drillhole	WHI17001078	0.05	0.02	0.5	1.3	2	14	0.05	33.43
204945	Standard	2pd	SURC1707	Drillhole	WHI17001078	0.05	0.63	789.7	792.3	4	72	0.3	0.005
204950	RejectDuplicate	204949	SURC1707	Drillhole	WHI17001078	0.05	0.38	1.3	0.1	0.5	227	0.05	0.49
204971	Blank	Blank1	SURC1707	Drillhole	WHI17001078	0.05	0.02	0.25	0.6	0.5	12	0.05	30.8
204976	Standard	CDNGSP2A	SURC1707	Drillhole	WHI17001078	0.4	0.18	480.2	272.5	2	1150	0.1	1.05
130986	RejectDuplicate	130971	suth13-06	Trench	WHI13000389	0.1	0.55	2.1	3.7	0.5	170	0.05	0.03

Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	Cd_ppm_ICPM S_GEO15AR01	Co_ppm_ICPM S_GEO15AR01	Cr_ppm_ICPMS _GEO15AR01	Cu_ppm_ICPM S_GEO15AR01	Fe_pct_ICPMS_ GEO15AR01	Ga_ppm_ICPM S_GEO15AR01	Hg_ppm_ICPM S_GEO15AR01	K_pct_ICPMS_ GEO15AR01	La_ppm_ICPM S_GEO15AR01	Mg_pct_ICPMS _GEO15AR01
204560	RejectDuplicate	204559	SURC1701	0.4	4.7	21	16.1	1.42	2	0.04	0.19	24	0.49
201617	RejectDuplicate	204513	SURC1701	0.4	11.1	63	20.2	2.84	5	0.03	0.18	23	0.91
201618	Standard	NGSP2AGSP	SURC1701	0.4	6.6	17	32.7	2.89	0.5	2.77	0.07	2	0.03
201619	Blank	Blank1	SURC1701	0.005	0.7	1	1.6	0.1	0.5	0.005	0.005	0.25	1
203446	Blank	Blank1	SURC1701	0.005	0.3	0.5	0.5	0.06	0.5	0.005	0.005	1	0.36
203445	Standard	2Pd	SURC1701	0.005	3.6	48	32.4	2.89	3	0.03	0.22	22	0.03
204610	Standard	NGSP2AGSP	SURC1702	0.5	6.6	17	35	3.03	0.5	2.82	0.07	2	0.03
204620	Blank	Blank1	SURC1702	0.005	0.1	1	0.6	0.08	0.5	0.005	0.005	1	0.61
204580	Blank	Blank1	SURC1702	0.005	0.5	0.5	0.2	0.05	0.5	0.005	0.005	0.25	0.31
204570	Standard	2Pd	SURC1702	0.005	3.6	51	33.6	2.88	3	0.03	0.22	22	0.03
204600	RejectDuplicate	204599	SURC1702	0.5	10.2	34	23.8	2.59	4	0.01	0.63	28	0.61
204640	RejectDuplicate	204639	SURC1702	0.7	11.6	69	33.3	3.19	5	0.01	0.27	21	1.65
204650	Standard	2Pd	SURC1703	0.005	3.7	52	37.6	3	3	0.03	0.22	26	0.03
204660	Blank	Blank1	SURC1703	0.005	0.5	0.5	0.9	0.07	0.5	0.005	0.01	1	0.5
204680	Standard	CDNGSP2A	SURC1703	0.5	6.8	17	35.9	3.06	0.5	2.77	0.07	2	0.03
204690	Blank	Blank1	SURC1703	0.005	0.2	0.5	0.6	0.06	0.5	0.005	0.005	1	0.46
203448	RejectDuplicate	204711	SURC1703	0.9	14.6	79	30.1	3.84	3	0.02	0.23	17	1.78
204760	RejectDuplicate	204759	SURC1704	0.2	9.9	72	18.2	2.57	3	0.005	0.13	6	1.55
204740	Blank	Blank1	SURC1704	0.005	0.1	0.5	0.6	0.08	0.5	0.005	0.005	1	0.45
204720	RejectDuplicate	204719	SURC1704	0.4	10.5	61	23.8	2.69	5	0.01	0.2	20	1.05
204770	Standard	CDNGSP2A	SURC1704	0.5	7	19	35.4	2.99	0.5	2.94	0.07	2	0.03
204780	Blank	Blank1	SURC1704	0.005	0.1	0.5	0.8	0.08	0.5	0.005	0.005	1	0.45
204730	Standard	2Pd	SURC1704	0.005	3.8	54	33.4	2.98	3	0.02	0.23	27	0.03
204800	RejectDuplicate	204799	SURC1705	0.005	0.5	8	4.9	0.82	1	0.02	0.22	44	0.08
204810	Standard	2pd	SURC1705	0.005	3.4	47	35.9	2.98	2	0.02	0.21	23	0.03
204820	Blank	Blank1	SURC1705	0.005	0.05	0.5	0.3	0.08	0.5	0.005	0.005	0.25	0.44
204840	RejectDuplicate	204839	SURC1705	0.3	0.4	3	2.7	0.73	0.5	0.04	0.21	34	0.05
204850	Standard	CDNGSP2A	SURC1705	0.5	6.7	18	34	3.04	0.5	2.72	0.07	2	0.03
203447	Blank	Blank1	SURC1705	0.005	0.4	0.5	1.2	0.07	0.5	0.005	0.005	1	0.5
204860	Blank	Blank1	SURC1706	0.005	0.3	0.5	1	0.06	0.5	0.005	0.005	1	0.38
204912	RejectDuplicate	204911	SURC1706	0.3	0.6	3	3.8	0.9	0.5	0.05	0.22	31	0.04
204910	Standard	CDNGSP2A	SURC1706	0.5	6.7	17	34.4	3.01	0.5	2.74	0.07	2	0.03
204900	Blank	Blank1	SURC1706	0.005	0.1	1	1.2	0.08	0.5	0.005	0.01	1	0.48

Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	Cd_ppm_ICPM S_GEO15AR01	Co_ppm_ICPM S_GEO15AR01	Cr_ppm_ICPMS _GEO15AR01	Cu_ppm_ICPM S_GEO15AR01	Fe_pct_ICPMS_ GEO15AR01	Ga_ppm_ICPM S_GEO15AR01	Hg_ppm_ICPM S_GEO15AR01	K_pct_ICPMS_ GEO15AR01	La_ppm_ICPM S_GEO15AR01	Mg_pct_ICPMS _GEO15AR01
204870	RejectDuplicate	204869	SURC1706	0.005	1.3	7	3.6	0.6	1	0.005	0.22	33	0.05
204880	Standard	2pd	SURC1706	0.005	3.7	49	35.4	2.98	3	0.03	0.22	24	0.03
204984	RejectDuplicate	204983	SURC1707	0.005	8.8	10	41	2.68	3	0.005	0.33	16	0.96
204937	Blank	Blank1	SURC1707	0.005	1	0.5	5.1	0.12	0.5	0.005	0.005	1	0.54
204945	Standard	2pd	SURC1707	0.1	3.5	48	30.9	2.82	3	0.02	0.22	21	0.03
204950	RejectDuplicate	204949	SURC1707	0.4	0.7	3	6.1	0.67	1	0.03	0.26	33	0.05
204971	Blank	Blank1	SURC1707	0.005	0.5	0.5	0.3	0.08	0.5	0.005	0.005	0.25	0.41
204976	Standard	CDNGSP2A	SURC1707	0.6	7.2	17	34.3	3.02	0.5	2.62	0.07	1	0.03
130986	RejectDuplicate	130971	suth13-06	0.3	1.5	3	8.9	1.8	3	0.02	0.33	48	0.13

Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	Mn_ppm_ICP MS_GEO15AR0 1	Mo_ppm_ICP MS_GEO15AR0 1	Na_pct_ICPMS _GEO15AR01	Ni_ppm_ICPMS _GEO15AR01	P_pct_ICPMS_ GEO15AR01	Pb_ppm_ICPM S_GEO15AR01	S_pct_ICPMS_ GEO15AR01	Sb_ppm_ICPM S_GEO15AR01	Sc_ppm_ICPMS _GEO15AR01	Se_ppm_ICPM S_GEO15AR01
204560	RejectDuplicate	204559	SURC1701	587	0.9	0.013	11.8	0.027	9.4	0.16	0.5	4.7	0.05
201617	RejectDuplicate	204513	SURC1701	650	1.3	0.011	20	0.077	11.6	0.01	0.4	10.2	0.7
201618	Standard	NGSP2AGSP	SURC1701	45	14.2	0.009	11.3	0.007	15.2	0.13	21	0.9	1.9
201619	Blank	Blank1	SURC1701	68	0.05	0.004	0.4	0.006	0.8	0.11	0.05	0.5	0.05
203446	Blank	Blank1	SURC1701	65	0.05	0.003	0.3	0.005	0.4	0.01	0.05	0.2	0.05
203445	Standard	2Pd	SURC1701	41	1.6	0.021	24.9	0.022	13	0.01	39.7	4.8	0.05
204610	Standard	NGSP2AGSP	SURC1702	47	14	0.009	11.6	0.005	15.7	0.14	22.4	0.7	2.1
204620	Blank	Blank1	SURC1702	96	0.05	0.004	0.2	0.006	0.5	0.01	0.05	0.2	0.05
204580	Blank	Blank1	SURC1702	61	0.05	0.004	0.2	0.005	0.3	0.01	0.05	0.3	0.05
204570	Standard	2Pd	SURC1702	42	1.5	0.021	24.5	0.024	13.5	0.01	35.5	5.3	0.05
204600	RejectDuplicate	204599	SURC1702	553	1.7	0.017	21.8	0.067	14.2	0.01	0.3	8.3	0.6
204640	RejectDuplicate	204639	SURC1702	1040	1.4	0.012	24.1	0.068	46.1	0.23	0.2	9.4	0.8
204650	Standard	2Pd	SURC1703	44	1.9	0.023	26.4	0.022	14.2	0.01	35.7	5.6	0.05
204660	Blank	Blank1	SURC1703	85	0.05	0.004	0.05	0.006	0.6	0.01	0.05	0.3	0.05
204680	Standard	CDNGSP2A	SURC1703	48	14.6	0.012	11.7	0.006	15.9	0.14	23.5	0.7	1.1
204690	Blank	Blank1	SURC1703	93	0.05	0.003	0.05	0.005	0.8	0.01	0.05	0.3	0.05
203448	RejectDuplicate	204711	SURC1703	1084	1.7	0.012	25.9	0.09	44	0.22	1.1	13.6	1.2
204760	RejectDuplicate	204759	SURC1704	458	1.2	0.021	18.1	0.084	3	0.05	0.2	7.1	0.5
204740	Blank	Blank1	SURC1704	98	0.05	0.003	0.2	0.005	0.4	0.08	0.05	0.2	0.05
204720	RejectDuplicate	204719	SURC1704	549	1.3	0.017	24	0.065	8.7	0.01	0.3	9.9	0.05
204770	Standard	CDNGSP2A	SURC1704	50	14.1	0.009	11.8	0.006	16.8	0.13	23	0.8	1.6
204780	Blank	Blank1	SURC1704	90	0.05	0.003	0.05	0.006	0.6	0.01	0.05	0.2	0.05
204730	Standard	2Pd	SURC1704	44	1.9	0.022	26.7	0.022	13.7	0.01	37.4	5.1	0.6
204800	RejectDuplicate	204799	SURC1705	141	0.7	0.022	1.6	0.004	13.9	0.01	0.2	2.2	0.05
204810	Standard	2pd	SURC1705	41	2.1	0.022	25	0.021	12.7	0.01	34.6	5.4	0.05
204820	Blank	Blank1	SURC1705	70	0.05	0.003	0.05	0.005	0.4	0.01	0.05	0.2	0.05
204840	RejectDuplicate	204839	SURC1705	183	0.6	0.017	0.7	0.004	22.3	0.01	0.2	2.1	0.05
204850	Standard	CDNGSP2A	SURC1705	48	14	0.009	11.3	0.006	15.6	0.13	24.6	0.8	1.9
203447	Blank	Blank1	SURC1705	98	0.05	0.004	0.05	0.007	1.1	0.01	0.05	0.2	0.05
204860	Blank	Blank1	SURC1706	77	0.05	0.003	0.05	0.005	0.4	0.01	0.05	0.2	0.05
204912	RejectDuplicate	204911	SURC1706	160	0.5	0.033	0.6	0.004	55.2	0.17	0.4	2.2	0.05
204910	Standard	CDNGSP2A	SURC1706	46	13.4	0.009	11.5	0.006	15	0.13	21.7	0.7	1.8
204900	Blank	Blank1	SURC1706	79	0.05	0.004	0.05	0.004	0.5	0.01	0.05	0.2	0.05

Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	Mn_ppm_ICP MS_GEO15AR0 1	Mo_ppm_ICP MS_GEO15AR0 1	Na_pct_ICPMS _GEO15AR01	Ni_ppm_ICPMS _GEO15AR01	P_pct_ICPMS_ GEO15AR01	Pb_ppm_ICPM S_GEO15AR01	S_pct_ICPMS_ GEO15AR01	Sb_ppm_ICPM S_GEO15AR01	Sc_ppm_ICPMS _GEO15AR01	Se_ppm_ICPM S_GEO15AR01
204870	RejectDuplicate	204869	SURC1706	177	0.5	0.049	2.9	0.01	12.7	0.01	0.1	1.4	0.05
204880	Standard	2pd	SURC1706	43	1.8	0.022	26.2	0.023	13.9	0.01	36.5	5.6	0.05
204984	RejectDuplicate	204983	SURC1707	640	0.8	0.024	8.6	0.035	11.7	0.26	0.5	6.1	0.05
204937	Blank	Blank1	SURC1707	81	0.05	0.003	0.05	0.006	0.6	0.01	0.05	0.2	0.05
204945	Standard	2pd	SURC1707	41	1.9	0.022	24.6	0.021	12.2	0.01	29.9	4.9	0.05
204950	RejectDuplicate	204949	SURC1707	142	0.5	0.039	1.1	0.011	16.6	0.01	0.1	2.1	0.05
204971	Blank	Blank1	SURC1707	72	0.05	0.002	1.3	0.004	12	0.09	0.2	0.05	0.7
204976	Standard	CDNGSP2A	SURC1707	47	14.5	0.01	12.4	0.006	15.3	0.13	20.1	0.8	1.6
130986	RejectDuplicate	130971	suth13-06	216	0.6	0.034	2.6	0.021	31.1	0.01	0.2	3.9	0.05

Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	Sr_ppm_ICPMS _GEO15AR01	Te_ppm_ICPM S_GEO15AR01	Th_ppm_ICPM S_GEO15AR01	Ti_pct_ICPMS_ GEO15AR01	Tl_ppm_ICPMS _GEO15AR01	V_ppm_ICPMS _GEO15AR01	W_ppm_ICPMS _GEO15AR01	Wgt_kg_WT_N A	Zn_ppm_ICPM S_GEO15AR01
204560	RejectDuplicate	204559	SURC1701	111	0.01	6.4	0.002	0.01	12	0.1	1.39	43
201617	RejectDuplicate	204513	SURC1701	159	0.01	4.8	0.003	0.01	47	0.2	1.23	80
201618	Standard	NGSP2AGSP	SURC1701	25	0.01	0.7	0.009	13.4	10	28.3	0.1	18
201619	Blank	Blank1	SURC1701	55	0.01	0.05	0.002	0.01	1	0.05	0.71	0.5
203446	Blank	Blank1	SURC1701	64	0.01	0.05	0.001	0.01	1	0.05	0.84	0.5
203445	Standard	2Pd	SURC1701	18	0.01	8.2	0.002	0.01	17	0.7	0.09	50
204610	Standard	NGSP2AGSP	SURC1702	29	0.01	0.7	0.009	13.6	10	27.7	0.12	19
204620	Blank	Blank1	SURC1702	84	0.01	0.05	0.002	0.01	1	0.05	1.08	1
204580	Blank	Blank1	SURC1702	57	0.01	0.05	0.001	0.01	1	0.05	0.88	0.5
204570	Standard	2Pd	SURC1702	20	0.01	8.8	0.002	0.1	17	0.5	0.09	53
204600	RejectDuplicate	204599	SURC1702	94	0.01	7.9	0.039	0.4	26	0.4	0.98	68
204640	RejectDuplicate	204639	SURC1702	172	0.01	5	0.067	0.2	47	0.2	1.98	140
204650	Standard	2Pd	SURC1703	21	0.01	9.6	0.002	0.01	17	0.5	0.09	58
204660	Blank	Blank1	SURC1703	83	0.01	0.1	0.001	0.01	1	0.05	1.36	1
204680	Standard	CDNGSP2A	SURC1703	29	0.01	0.7	0.01	13.8	11	29.1	0.1	20
204690	Blank	Blank1	SURC1703	78	0.01	0.05	0.002	0.01	1	0.05	1.14	1
203448	RejectDuplicate	204711	SURC1703	183	0.01	3.9	0.01	0.1	54	0.3	1.69	148
204760	RejectDuplicate	204759	SURC1704	58	0.01	1.9	0.083	0.01	43	0.2	1.94	73
204740	Blank	Blank1	SURC1704	75	0.01	0.05	0.001	0.01	1	0.05	1.03	1
204720	RejectDuplicate	204719	SURC1704	108	0.01	5	0.024	0.01	47	0.2	1.33	81
204770	Standard	CDNGSP2A	SURC1704	28	0.01	0.8	0.01	14.4	10	27.4	0.08	19
204780	Blank	Blank1	SURC1704	84	0.01	0.05	0.002	0.01	1	0.05	1.1	1
204730	Standard	2Pd	SURC1704	21	0.01	9.3	0.002	0.01	18	0.6	0.1	55
204800	RejectDuplicate	204799	SURC1705	17	0.01	14.9	0.0005	0.01	1	0.4	1.5	29
204810	Standard	2pd	SURC1705	16	0.01	7.8	0.002	0.01	16	0.6	0.11	54
204820	Blank	Blank1	SURC1705	60	0.01	0.05	0.0005	0.01	1	0.05	0.96	0.5
204840	RejectDuplicate	204839	SURC1705	100	0.01	10.9	0.0005	0.01	1	2.8	1.8	33
204850	Standard	CDNGSP2A	SURC1705	28	0.01	0.8	0.01	13.6	9	28.7	0.11	20
203447	Blank	Blank1	SURC1705	86	0.01	0.05	0.002	0.01	1	0.05	0.8	4
204860	Blank	Blank1	SURC1706	73	0.01	0.05	0.001	0.01	1	0.05	1.36	0.5
204912	RejectDuplicate	204911	SURC1706	60	0.01	11	0.0005	0.01	1	0.6	1.82	40
204910	Standard	CDNGSP2A	SURC1706	25	0.01	0.7	0.009	14	11	29.5	0.1	20
204900	Blank	Blank1	SURC1706	71	0.01	0.1	0.001	0.01	1	0.05	1.09	0.5



Appendix E - Drill Sample QAQC

SampleNumber	QAQCType	QAQCID	HoleID	Sr_ppm_ICPMS _GEO15AR01	Te_ppm_ICPM S_GEO15AR01	Th_ppm_ICPM S_GEO15AR01	Ti_pct_ICPMS_ GEO15AR01	Tl_ppm_ICPMS _GEO15AR01	V_ppm_ICPMS _GEO15AR01	W_ppm_ICPMS _GEO15AR01	Wgt_kg_WT_N A	Zn_ppm_ICPM S_GEO15AR01
204870	RejectDuplicate	204869	SURC1706	41	0.01	9.7	0.002	0.01	1	0.3	1.73	11
204880	Standard	2pd	SURC1706	20	0.01	8.7	0.002	0.1	18	0.6	0.1	57
204984	RejectDuplicate	204983	SURC1707	90	0.01	5.2	0.018	0.01	43	0.4	1.5	39
204937	Blank	Blank1	SURC1707	75	0.01	0.05	0.005	0.01	1	0.05	1.04	1
204945	Standard	2pd	SURC1707	17	0.01	7.8	0.002	0.01	16	0.6	0.1	54
204950	RejectDuplicate	204949	SURC1707	19	0.01	10.9	0.002	0.01	1	0.2	1.62	60
204971	Blank	Blank1	SURC1707	72	0.01	0.05	0.001	0.01	1	0.05	0.81	3
204976	Standard	CDNGSP2A	SURC1707	27	0.01	0.7	0.009	13.1	10	25.7	0.1	19
130986	RejectDuplicate	130971	suth13-06	4	0.01	12.3	0.014	0.2	4	0.05	1.12	60