

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

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Prospecting and Rock Geochemistry

TOTAL COST: \$5,095.00

AUTHOR(S): Sean Kennedy **SIGNATURE(S):** _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ **YEAR OF WORK:** 2010

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 4839076

PROPERTY NAME: Big Smoke

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

COMMODITIES SOUGHT: _____

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

MINING DIVISION: Nelson **NTS/BCGS:** _____

LATITUDE: _____ ° _____ ' _____ " **LONGITUDE:** _____ ° _____ ' _____ " (at centre of work)

OWNER(S):

1) Craig Kennedy 2) _____

MAILING ADDRESS:

2290 DeWolfe Ave

Kimberley Bc

OPERATOR(S) [who paid for the work]:

1) Kootenay Gold Inc 2) _____

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Fragmental at Lower Middle Aldridge contact. Quartz veins, disseminations and strataform base metals. Sullivan type target.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: _____

| TYPE OF WORK IN THIS REPORT | EXTENT OF WORK (IN METRIC UNITS) | ON WHICH CLAIMS | PROJECT COSTS APPORTIONED (incl. support) |
|---|----------------------------------|-----------------|---|
| GEOLOGICAL (scale, area) | | | |
| Ground, mapping | _____ | _____ | _____ |
| Photo interpretation | _____ | _____ | _____ |
| GEOPHYSICAL (line-kilometres) | | | |
| Ground | | | |
| Magnetic | _____ | _____ | _____ |
| Electromagnetic | _____ | _____ | _____ |
| Induced Polarization | _____ | _____ | _____ |
| Radiometric | _____ | _____ | _____ |
| Seismic | _____ | _____ | _____ |
| Other | _____ | _____ | _____ |
| Airborne | | _____ | _____ |
| GEOCHEMICAL (number of samples analysed for...) | | | |
| Soil | _____ | _____ | _____ |
| Silt | _____ | _____ | _____ |
| Rock | 29 | All | \$845 |
| Other | _____ | _____ | _____ |
| DRILLING (total metres; number of holes, size) | | | |
| Core | _____ | _____ | _____ |
| Non-core | _____ | _____ | _____ |
| RELATED TECHNICAL | | | |
| Sampling/assaying | _____ | _____ | _____ |
| Petrographic | _____ | _____ | _____ |
| Mineralographic | _____ | _____ | _____ |
| Metallurgic | _____ | _____ | _____ |
| PROSPECTING (scale, area) | 1:20000 | All | \$3350 |
| PREPARATORY / PHYSICAL | | | |
| Line/grid (kilometres) | _____ | _____ | _____ |
| Topographic/Photogrammetric (scale, area) | _____ | _____ | _____ |
| Legal surveys (scale, area) | _____ | _____ | _____ |
| Road, local access (kilometres)/trail | _____ | _____ | _____ |
| Trench (metres) | _____ | _____ | _____ |
| Underground dev. (metres) | _____ | _____ | _____ |
| Other | Report and drafting/supplies | | 900 |
| | | TOTAL COST: | \$5095.00 |

PROSPECTING AND ROCK GEOCHEMISTRY REPORT

BIG SMOKE MINERAL CLAIMS

BC Geological Survey
Assessment Report
32219

NELSON MINING DIVISION

ALKI CREEK AREA

SOUTHEAST BC

595,000 E/5,450,000 N

WORK PERFORMED SUMMER 2010

OWNER: SEAN KENNEDY

OPERATOR: KOOTENAY GOLD INC.

VANCOUVER, BRITISH COLUMBIA

REPORT WRITTEN BY SEAN KENNEDY, PROSPECTOR

APRIL 2011

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INTRODUCTION

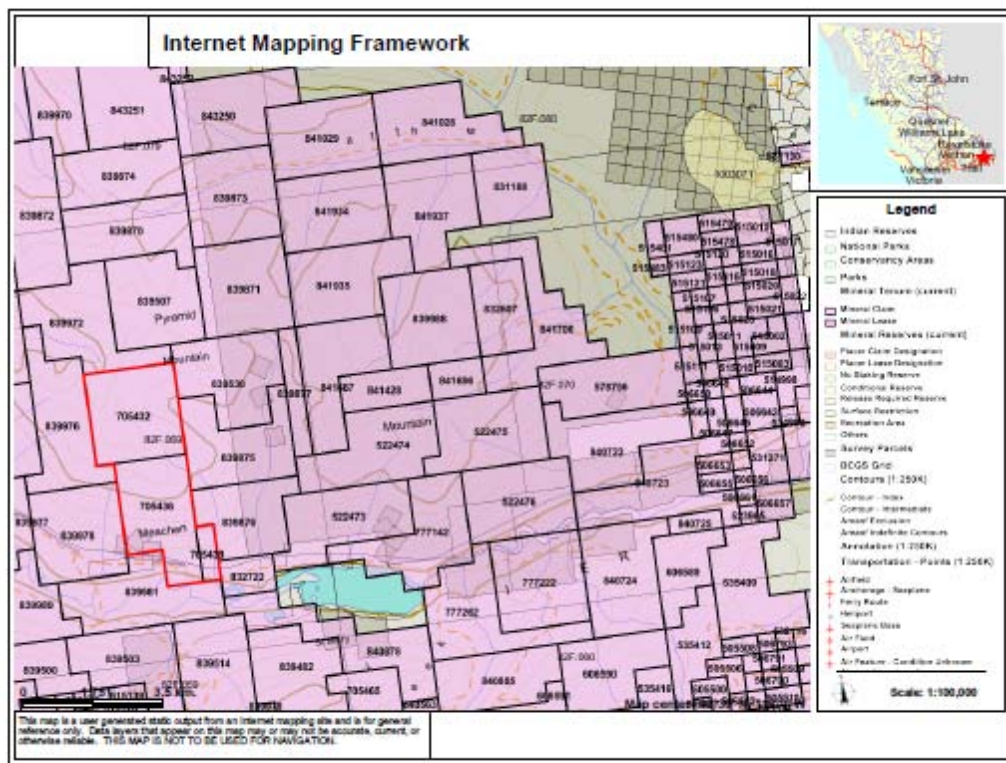
During the field season of 2010 a program consisting of prospecting and rock geochemistry was conducted on the Big Smoke mineral claims in southeast BC. The purpose of the work was to search for indications of a geological environment similar to the one that hosts the world-class Sullivan sedex deposit at Kimberley.

LOCATION AND ACCESS

The property is located 20 km west of the city of Kimberley in the St. Mary River valley. The property is accessed by the main St. Mary River FSR and additional logging spur roads.

PROPERTY

The property is wholly owned by Craig Kennedy of Kimberley, BC and consists of tenures 705432, 705436, and 705438. Currently the property is funded under a first right of refusal to Kootenay Gold Inc.



PHYSIOGRAPHY

The area is located north of the St. Mary River along steep and mountainous terrain in the Purcell Mountains. Forest cover is typified by a mix of fir and lodgepole pine with some larch. Brush is generally comprised of mountain alder, kinikinik, and dwarf huckleberry.

HISTORY

The area has been worked previously by a number of junior and major mining companies. The purpose has generally been to evaluate the area for sedex (Sullivan-type) mineralization. Some limited drilling by Cominco has occurred on the property, the purpose of which was to test for Sullivan Time (the stratigraphic horizon that hosts Sullivan). The drill hole intersected a fault above the target horizon and failed to test Sullivan Time. Two phases of geological mapping have been completed over the area as well as some limited soil and rock geochemistry. Historic workings over a massive sulphide Pb/Zn/Cu/Ag vein (Dominion Block) are crown-granted on the southeastern portion of the property.

PROPERTY GEOLOGY

The area is underlain by siliciclastic rocks of the Neoproterozoic Belt-Purcell Supergroup. The Belt-Purcell is a failed intracratonic rift. The basal members of the sequence which underlay the property can be divided into the Lower and Middle Aldridge formations. The Lower Aldridge is a rusty weathering schisty quartzitic unit that often contains disseminated pyrrhotite. It is generally massive with a strong cleavage. The Middle Aldridge conformably overlies the Lower Aldridge across the main basin and is characterized by blocky massive grey weathering wacke and siltstone as fining upward turbidites. These rocks have been intruded by a number of syngenetic gabbro/diorite dykes and sills. Pegmatitic dykes have also been found within the area and are likely related to the East Kootenay Orogeny (Hellroaring Creek Stock, Matthew Creek Pegmatites etc).

The property is situated along a north trending structural corridor host to a number of sheet conglomerate/fragmentals, a feature that underlies the Sullivan deposits at Kimberley. In addition to the conglomerate/fragmental (named the Claire Fragmental) the area also has a number of syngenetic gabbro/diorite bodies that locally can be both dyke and sill like, another feature at Sullivan. The area covers the contact between the Middle and Lower Aldridge stratigraphies, the host time for the mineralization at Sullivan. Other key indicators include albitization, chloritization, and local tourmaline enrichment in the sediments, all features at Sullivan. In addition to this a number of massive sulphide (Pb/Zn/Ag) veins are located within the structural block (Dominion etc.).

PROSPECTING AND ROCK GEOCHEMISTRY

Prospecting and mapping of contacts was completed on the southern portion of the property. Prospecting and sampling also occurred near the top of the main ridge between the St. Mary Valley and Murphy Creek. Rock sample locations and descriptions are on page 9, a map showing sample sites with values plotted for Pb in ppm are on page 10, prospecting maps showing routes traversed and prospecting data are on page 11 and 12.

Five distinct rock types are present in the area:

1-Rusty weathering schistose (sericite/biotite/chlorite) thin bedded quartzite and schist. Often pyrrhotite rich with a yellow/green oxide in more bleached rock. Lower Aldridge

1a-Claire Fragmental; rusty weathering, Po rich some AsPy, clasts (poly-lithic) are typically elongated (whitish) and less than 2 cm in length. This unit sits conformably near the top of unit 1

2-Massive grey weathering wacke/quartzite, greenschist facies, rusty concretions with biotite, pink garnet and Po are common. Beds from 25 cm to 1 metre wide. Middle Aldridge

3-Gabbro sills/dykes

4-Pegmatite veins/dykes; large muscovite/biotite books, crystalline quartz, feldspar

Bedding in the southern part of the claim block is typically flat to gently dipping to the southwest, bedding becomes steeply dipping near fault zones. From east to west the area is cut by a number of northerly trending faults, these faults juxtapose unit 1 against unit 2 in a number of localities. Unit 1 and 2 are in conformable contact in a number of locations. The Claire Fragmental, which appears to be a number of sheet-like conglomerate beds is located near the contact between the Lower and Middle Aldridge and is likely the filled portion of a Precambrian graben with local highs shedding material from the east and west. Below the Claire Fragmental a mineralized actinolite rich rock outcrops. The actinolite rich rock is likely a sheared and altered gabbro dyke. This unit hosts numerous quartz sulphide veins as well as disseminated base metals. Its position below the fragmental and Lower-Middle contact may indicate that it is located within and or part of a plumbing system for sedex type mineralization within the graben. Above the Lower Middle Aldridge contact Middle Aldridge sediments are highly altered and bleached with iron oxides and tourmaline needle veins and beds. Wacke beds above the Lower Middle contact are also abnormally thick and may indicate localized subsidence due to a massive sulphide deposit at depth.

Mineralization:

In the area of the Claire Fragmental As/Pb/Zn/Cu/W is found in veins, disseminations, and as strataform lenses. Veins are related to structure and are predominantly seen cutting the lower gabbro sill and actinolite rich unit. Gangue minerals include calcite, garnet, epidote/clinozosite, chlorite, and sericite. The actinolite rich unit also contains disseminated patchy PbS/ZnS/CuPy. Zones of albite/silica along the margins of the actinolite rich unit contain disseminated base metals. In one location (sample SK10-22) near the contact of the actinolite zone a 30 cm wide zone of albite/silica is developed in unit 1, this zone has strataform PbS/ZnS developed as narrow 0.5 cm bands that are folded in places. Tungsten mineralization, as scheelite crystals, are located in narrow pegmatitic dykes as well as in veins within the actinolite rich rock.

Alteration:

Alteration is typically located near gabbro sills and dykes and adjacent to northerly trending faults. Sediments become albite/chlorite altered, silicified, sericitized and contain, in places, tourmaline needles both as disseminations and as replacement/exhalite(?) beds.

Traverse five was executed on the upper slopes of the property in Middle Aldridge sediments. Here the sediments host numerous northwest trending crystalline quartz veins that contain blebs of galena. A large gabbro dyke was mapped cutting the sediments and locally altering them with albite, chlorite, and silica. A north-northwest structure cuts the gabbro dyke. The structure is delineated by numerous quartz-garnet-clinzoisite veins that host patchy massive galena with occasional chalcopyrite. The dyke is also seen being cut by a carbonatite dyke near the ridge top. Along the eastern margin of the dyke Middle Aldridge sediments host a number of cross-cutting fragmentals and locally become intensely biotite altered.

CONCLUSIONS AND RECOMMENDATIONS

During the field season of 2010 a prospecting and rock geochemistry program was conducted on the Big Smoke mineral claims in southern BC. The purpose of the program was to evaluate the area of the Claire Fragmental, a previously recognized feature consistent with a Sullivan style model. Prospecting highlighted the structural complexity of the area and also delineated a northerly trending mineralized corridor that is consistent with a plumbing system in the footwall of the Lower Middle Aldridge contact. Further prospecting well into the hangingwall of Sullivan Time (Lower Middle Aldridge contact) located a large gabbro dyke with a number of base metal bearing veins, cross-cutting fragmentals, and alteration consistent with the Sullivan model.

The Big Smoke is a strong candidate to host sedex mineralization at Sullivan Time it is highly recommended that diamond drilling occurs within the mineralized structural (graben) corridor that is delineated by the Claire Fragmental. Two holes could be drilled from one pad located 150-200 metres in the hangingwall of the fragmental, one vertical hole to test the mineralized showings and one hole at 45 degrees to test the down dip extension of Sullivan Time as well as the strike extension of the mineralization. Further drilling along the corridor would have to occur at higher elevations as the target stratigraphy is dipping to the south with the slope of the hill.

STATEMENT OF COSTS

| | | |
|-------------------------|----------------------------------|------------------------------|
| Event # | 4839076 | |
| Start - End Date: | April 16 - July 14, 2010 | |
| Tenure work done on: | 705432, 705436, 705438 | |
| Type of work done: | Prospecting & Geochemical | |
| Number of Samples: | 29 (includes freight) | \$ 845.00 |
| Sean Kennedy: | Apr 16, 19, 20, 21, Jul 14, 2010 | |
| | 5 Man days @ 350 | 1,750.00 |
| | 5 Truck days @ 150 | 750.00 |
| | 2 Report days @ 350 | 700.00 |
| | Maps & Misc. | 200.00 |
| Mike Kennedy: | Jul 14, 2010 | |
| | 1 Man days @ 350 | 350.00 |
| Craig Kennedy: | April 8, 2010 | |
| | 1 Man days @ 350 | 350.00 |
| | 5 Truck days @ 150 | <u>150.00</u> |
| | Total | <u>\$</u> <u>5,095.00</u> |

STATEMENT OF QUALIFICATIONS

I, Sean Kennedy, certify that:

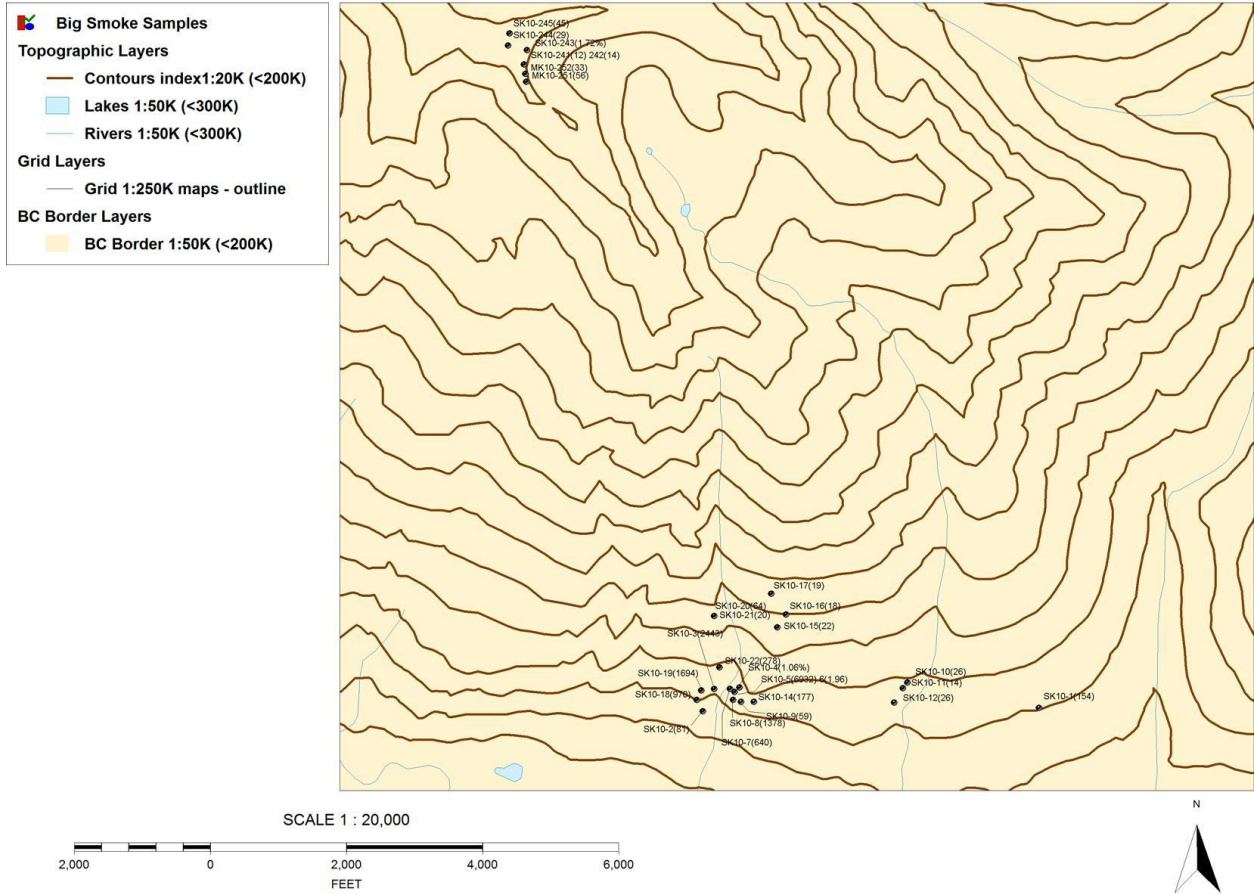
1. I am an independent prospector residing at 107 6h Ave, Kimberley, BC.
2. I have been actively prospecting in the throughout BC, Nevada, and Mexico for the past 15 years
3. I have been employed as a professional prospector by junior mineral exploration companies.
4. I own and maintain mineral claims in BC.

BIG SMOKE ROCK GEOCHEMISTRY AND PROSPECTING REPORT 2010

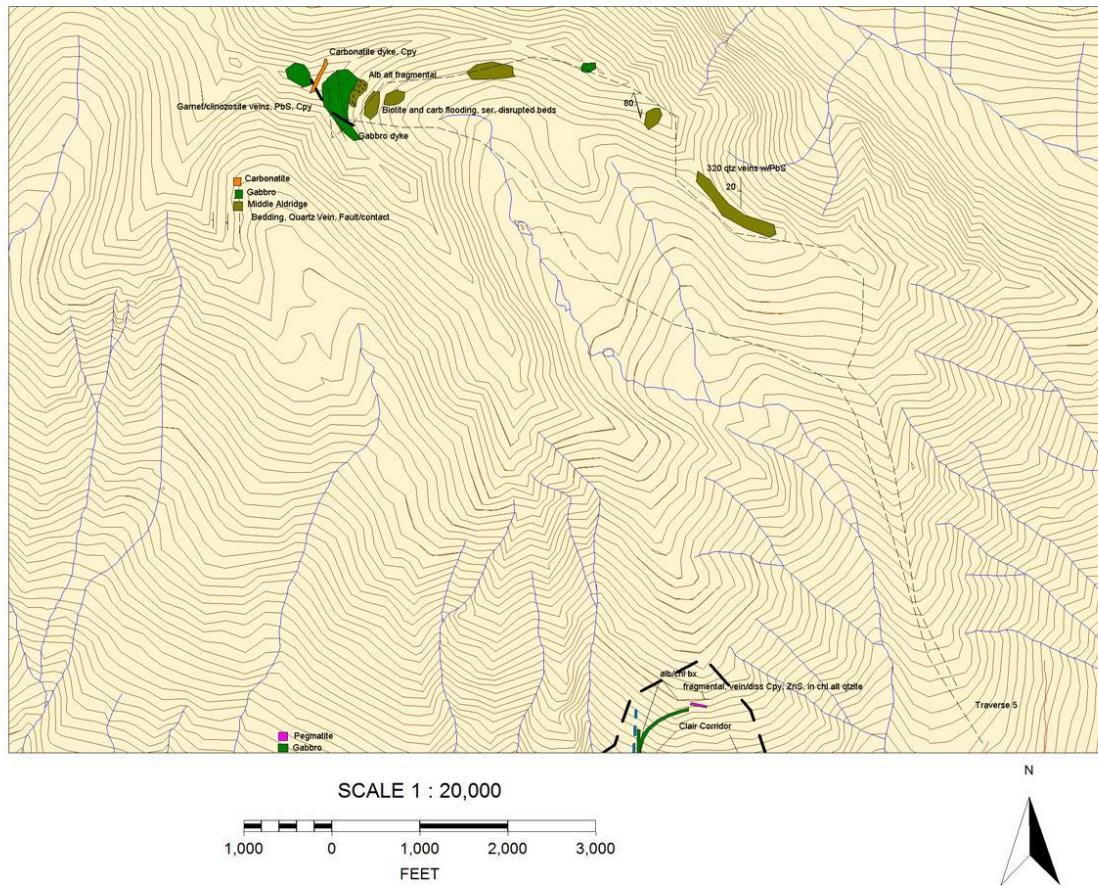
ROCK SAMPLE LOCATIONS AND DESCRIPTIONS

| Sample # | UTM E | UTM N | Description |
|----------|--------|---------|--|
| SK10-1 | 555582 | 5497213 | xstalline qtz veins w/Po in biotite schist/qtzite, some shearing, Mn, goe, Fe carb, PbS, hem colour, zone is 176/50, al zone is > 5 m wide |
| SK10-2 | 553998 | 5497158 | Float boulder of highly alt vein material, qtz feldspar, chlorite, pinky stuff |
| SK10-3 | 554048 | 5497236 | Large clay alt qtz boulders, Mn, goe, vuggy chlorite, yellow stain, actinolite |
| SK10-4 | 554135 | 5497269 | Massive actinolite, chlorite schist, could be a gabbro, very strong foliation, 180/70, PbS, ZnS in veins and as blebs, carb, pink spotting, Cpy, bornite |
| SK10-5 | 554126 | 5497265 | Same zone along strike, silicified, PbS, ZnS, contact w/more normal grey wacke is just downslope |
| SK10-6 | 554124 | 5497265 | Same as last, some pretty good disseminated ZnS in places |
| SK10-7 | 554106 | 5497271 | Same as last, looks to be bedding parallel |
| SK10-8 | 554132 | 5497239 | Same as last, the chlorite rich unit is trending 340-360, 3-4 m wide |
| SK10-9 | 554148 | 5497238 | Zone of silica bx, narrow qtz veins w/goe, trends same as last zone |
| SK10-10 | 554915 | 5497271 | Series of narrow 320 degree steeply SW dipping qtz veins, xstalline, ser, goe, lim alteration of host sed, which are flat, at top of massive thick qtzite bed is a narrow qtz/biotite lense, may be an exhalite |
| SK10-11 | 554897 | 5497264 | Bx qtzite w/Mn, ser, qtz, goe developed along a 120/55 structure, in massive thick qtzite |
| SK10-12 | 554866 | 5497243 | Same as last, strongly silicified some py |
| SK10-13 | 554218 | 5497215 | Gabbro, mylonitic qtz vein with sheared gabbro margins and lamporphyre? Balls, trending 30 degrees, AsPy, calcite gouge, 0.5-1 m wide, talc alteration along margins cutting gabbro |
| SK10-14 | 554218 | 5497215 | Same type of vein as last, shooting of structure in gabbro, AsPy, PbS, chlorite |
| SK10-15 | 554359 | 5497509 | Fragmental w/Py, Po, almost hornfelsed looking |
| SK10-16 | 554466 | 5497598 | Fault zone on strike, narrow chloritic qtz veins, Fe carb, Mn |
| SK10-17 | 554313 | 5497816 | Narrow bedding parallel actinolite and qtz layer, some goe in massive turbidites, bedding is pretty flat, maybe a narrow gabbro sill or exhalite |
| SK10-18 | 553973 | 5497204 | Qtz w/hem, goe bx float |
| SK10-19 | 553990 | 5497234 | Same vein as 18, in place, bedding parallel, up to 30 cm wide, vein 190/30 |
| SK10-20 | 554042 | 5497482 | Gabbro dyke, narrow mylonite w/Qtz, goe, albite zones, Mn |
| SK10-21 | 554035 | 5497495 | Qtz w/garnet, clinozomite, Mn, goe, along eastern gabbro dyke contact, tourmaline, albite, chlorite bx in sed |
| SK10-22 | 554110 | 5497357 | Same unit as SK10-4, albite/siliceous zone, 30 cm wide w/disseminated PbS, ZnS, Cpy |
| SK10-241 | 553217 | 5500093 | Wallrock of a qtz vein, Cpy, chlorite/Qtz flooding |
| SK10-242 | 553218 | 5500092 | Same zone as last, sample of vein |
| SK10-243 | 553224 | 5500109 | Vein system on strike more carb, lim, some PbS |
| SK10-244 | 553127 | 5500163 | 10 degree trending 5 m wide carbonatite dyke cutting gabbro, qtz w/lim, Mn, sample of margin, bx in sediment wedge between gabbro |
| SK10-245 | 553131 | 5500185 | Carbonatite structure, qtz w/Cpy, malachite in gabbro |
| MK10-251 | 553227 | 5500026 | Oc 20 degree trending 2 inch with galena. |
| MK10-252 | 553223 | 5500060 | Oc eradic qtz zone in alt gabro with CuPy. |

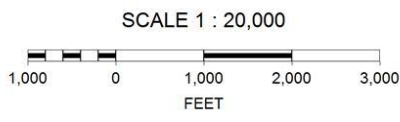
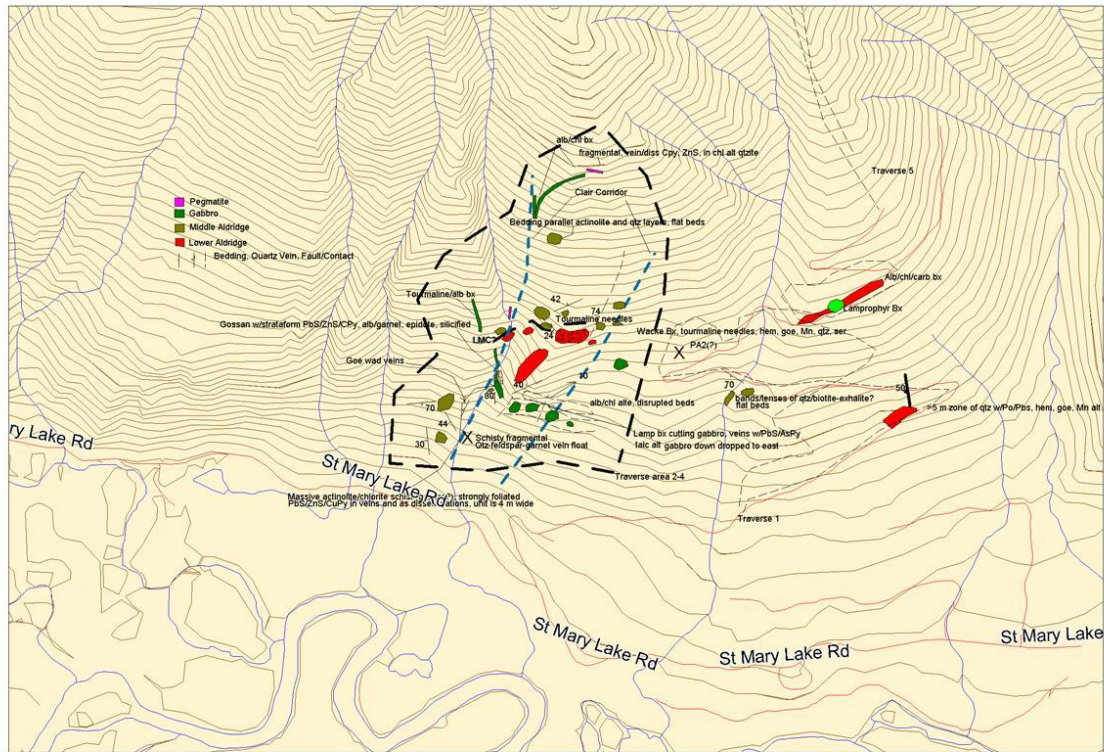
Big Smoke Sample Locations-Pb in ppm



Big Smoke Prospecting Map North



Big Smoke Prospecting Map South



APPENDIX



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Kootenay Gold Inc.**
Suite 920 - 1055 W. Hastings St.
Vancouver BC V6E 2E9 Canada

Submitted By: Email Distribution List
Receiving Lab: Canada-Vancouver
Received: April 23, 2010
Report Date: May 03, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN10001600.1

CLIENT JOB INFORMATION

Project: Big Smoke
Shipment ID:
P.O. Number
Number of Samples: 22

SAMPLE DISPOSAL

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

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

Invoice To: Kootenay Gold Inc.
Suite 920 - 1055 W. Hastings St.
Vancouver BC V6E 2E9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|---|--------------|---------------|-----|
| R200-250 | 22 | Crush, split and pulverize 250 g rock to 200 mesh | | | VAN |
| 1DX3 | 22 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 30 | Completed | VAN |
| 7AR | 2 | 1:1:1 Aqua Regia Digestion ICP-ES Finish | 0.4 | Completed | 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. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Kootenay Gold Inc.**
 Suite 920 - 1055 W. Hastings St.
 Vancouver BC V6E 2E9 Canada

Project: Big Smoke
 Report Date: May 03, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN10001600.1

| Method | Analyte | WGHT | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 |
|---------|---------|------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | MDL | 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 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| SK10-1 | Rock | 0.56 | 0.4 | 27.1 | 154.2 | 11 | 0.2 | 2.4 | 0.9 | 100 | 1.22 | 3.0 | 0.8 | <0.5 | 5.1 | 2 | 0.3 | <0.1 | 0.3 | 3 | 0.02 |
| SK10-2 | Rock | 0.60 | 1.0 | 31.9 | 81.0 | 20 | 0.1 | 1.6 | 0.9 | 1049 | 1.18 | 19.1 | 0.2 | <0.5 | <0.1 | 41 | 0.4 | 0.4 | 0.5 | 18 | 1.00 |
| SK10-3 | Rock | 0.87 | 0.5 | 178.3 | 2444 | 641 | 5.6 | 1.5 | 6.7 | 957 | 2.06 | 5.3 | 0.5 | 111.5 | 0.5 | 37 | 8.3 | 0.6 | 40.6 | 13 | 0.67 |
| SK10-4 | Rock | 0.67 | 0.5 | 317.2 | >10000 | 320 | 6.0 | 5.4 | 5.6 | 916 | 3.23 | 7.5 | 0.2 | <0.5 | 0.5 | 18 | 4.5 | 2.4 | 15.3 | 72 | 0.86 |
| SK10-5 | Rock | 0.84 | 0.4 | 222.1 | 6932 | 482 | 15.1 | 1.6 | 2.0 | 673 | 3.45 | 11.3 | 0.2 | 5.7 | 0.2 | 27 | 7.1 | 0.7 | 70.2 | 45 | 0.91 |
| SK10-6 | Rock | 0.62 | 0.6 | 475.6 | >10000 | 2387 | 36.3 | 10.8 | 29.7 | 353 | 3.74 | 7.6 | <0.1 | 5.3 | 0.2 | 13 | 27.1 | 1.7 | 162.9 | 42 | 0.62 |
| SK10-7 | Rock | 0.77 | 0.5 | 263.5 | 640.7 | 7960 | 1.0 | 2.1 | 10.7 | 469 | 2.68 | 12.8 | <0.1 | 1.9 | <0.1 | 21 | 52.0 | 0.5 | 3.6 | 20 | 0.45 |
| SK10-8 | Rock | 0.94 | 1.0 | 300.1 | 1379 | 634 | 3.5 | 4.3 | 25.1 | 321 | 1.76 | 132.7 | 0.1 | <0.5 | 0.3 | 29 | 8.0 | 0.7 | 19.5 | 32 | 1.26 |
| SK10-9 | Rock | 0.47 | 0.3 | 107.2 | 59.6 | 79 | 0.1 | 6.0 | 3.2 | 157 | 5.39 | 1.1 | 1.0 | <0.5 | 5.0 | 7 | 0.3 | <0.1 | 0.4 | 28 | 0.04 |
| SK10-10 | Rock | 0.54 | 2.5 | 47.4 | 26.5 | 57 | <0.1 | 8.9 | 9.8 | 396 | 4.58 | 9.2 | 0.5 | <0.5 | 4.9 | 5 | 0.1 | 0.3 | 0.4 | 29 | 0.03 |
| SK10-11 | Rock | 0.53 | 0.6 | 5.3 | 14.2 | 42 | <0.1 | 7.9 | 2.5 | 308 | 1.68 | 7.9 | 1.3 | <0.5 | 7.5 | 4 | 0.1 | 0.5 | <0.1 | 8 | 0.02 |
| SK10-12 | Rock | 0.56 | 0.5 | 12.7 | 26.1 | 34 | 0.1 | 2.8 | 2.3 | 167 | 2.49 | 70.4 | 0.4 | 14.2 | 3.5 | 4 | <0.1 | 2.1 | 0.3 | 9 | <0.01 |
| SK10-13 | Rock | 0.84 | 0.3 | 64.3 | 39.1 | 30 | 0.3 | 5.1 | 11.8 | 270 | 2.11 | 607.1 | 0.2 | 55.0 | 0.7 | 12 | <0.1 | 0.3 | 6.4 | 39 | 0.37 |
| SK10-14 | Rock | 0.70 | 0.4 | 471.9 | 177.1 | 17 | 1.0 | 23.9 | 34.9 | 161 | 2.15 | 2029 | 0.2 | 67.1 | <0.1 | 8 | 0.1 | 0.7 | 3.7 | 11 | 0.11 |
| SK10-15 | Rock | 0.79 | 1.3 | 23.9 | 22.7 | 72 | <0.1 | 15.9 | 6.9 | 364 | 2.62 | 5.2 | 2.0 | <0.5 | 11.5 | 9 | 0.1 | 0.2 | 0.4 | 14 | 0.12 |
| SK10-16 | Rock | 0.53 | 0.5 | 5.6 | 18.2 | 23 | <0.1 | 13.9 | 15.5 | 845 | 1.54 | 9.7 | 1.2 | <0.5 | 7.9 | 7 | <0.1 | <0.1 | 0.1 | 5 | 0.10 |
| SK10-17 | Rock | 0.63 | 5.0 | 26.7 | 19.7 | 77 | 0.1 | 10.9 | 7.6 | 534 | 2.64 | 1.4 | 1.5 | <0.5 | 5.2 | 32 | 0.1 | 0.2 | 0.6 | 15 | 0.76 |
| SK10-18 | Rock | 0.60 | 11.6 | 131.2 | 970.4 | 307 | 1.8 | 4.6 | 5.6 | 80 | 5.18 | 561.5 | 14.3 | 1.0 | 2.0 | 1 | 1.4 | 0.3 | 13.1 | 5 | <0.01 |
| SK10-19 | Rock | 1.11 | 14.6 | 105.5 | 1695 | 385 | 7.0 | 5.5 | 3.9 | 67 | 6.68 | 329.7 | 39.8 | <0.5 | 2.6 | 2 | 1.3 | 0.7 | 34.8 | 4 | 0.02 |
| SK10-20 | Rock | 0.65 | 5.7 | 1250 | 64.8 | 279 | 0.2 | 126.7 | 139.6 | 1145 | 16.11 | 548.2 | 14.5 | 7.1 | 1.6 | 13 | 2.0 | 0.4 | 1.9 | 185 | 0.24 |
| SK10-21 | Rock | 0.49 | 1.0 | 23.0 | 20.3 | 52 | 0.2 | 8.1 | 11.3 | 697 | 1.42 | 150.6 | 1.0 | 134.1 | 0.2 | 25 | 0.7 | 0.4 | 64.7 | 11 | 1.50 |
| SK10-22 | Rock | 0.96 | 0.5 | 243.9 | 278.2 | 5852 | 1.5 | 28.2 | 34.1 | 858 | 2.97 | 9.1 | 1.3 | 103.5 | 6.1 | 20 | 190.3 | 0.3 | 15.3 | 41 | 0.78 |



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 Suite 920 - 1055 W. Hastings St.
 Vancouver BC V6E 2E9 Canada

Project: Big Smoke
 Report Date: May 03, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN10001600.1

| Method | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 7AR |
|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Ti | S | Ga | Se | Te | Pb | |
| Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | % | |
| MDL | 0.001 | 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 | 0.01 | |
| SK10-1 | Rock | 0.009 | 12 | 10 | 0.02 | 67 | 0.005 | 2 | 0.23 | 0.042 | 0.17 | <0.1 | <0.01 | 0.5 | <0.1 | 0.07 | <1 | <0.5 | <0.2 | |
| SK10-2 | Rock | 0.010 | 2 | 10 | 0.12 | 45 | 0.029 | 3 | 0.97 | 0.009 | 0.22 | >100 | <0.01 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | <0.2 | |
| SK10-3 | Rock | 0.027 | 9 | 10 | 0.18 | 10 | 0.015 | 1 | 0.94 | 0.009 | 0.07 | >100 | <0.01 | 1.6 | 0.2 | 0.06 | 2 | 2.2 | 1.6 | |
| SK10-4 | Rock | 0.043 | 3 | 26 | 0.64 | 6 | 0.202 | 1 | 1.22 | 0.044 | 0.06 | 22.6 | <0.01 | 4.8 | <0.1 | 0.35 | 4 | 2.2 | 0.6 | 1.06 |
| SK10-5 | Rock | 0.029 | 2 | 19 | 0.22 | 3 | 0.138 | 1 | 1.01 | 0.036 | 0.03 | 6.0 | 0.06 | 2.7 | 0.2 | 0.35 | 4 | 5.7 | 4.6 | |
| SK10-6 | Rock | 0.041 | 2 | 20 | 0.39 | 7 | 0.136 | <1 | 0.81 | 0.031 | 0.06 | 25.5 | 0.09 | 3.4 | 0.2 | 1.04 | 3 | 14.4 | 20.7 | 1.96 |
| SK10-7 | Rock | 0.005 | <1 | 11 | 0.19 | 18 | 0.016 | 2 | 0.82 | 0.024 | 0.10 | >100 | 0.05 | 1.3 | <0.1 | 1.75 | 3 | 1.2 | <0.2 | |
| SK10-8 | Rock | 0.044 | 2 | 24 | 0.23 | 3 | 0.196 | 1 | 1.00 | 0.021 | 0.02 | 74.9 | <0.01 | 3.6 | <0.1 | 0.24 | 4 | 0.6 | 1.0 | |
| SK10-9 | Rock | 0.036 | 8 | 24 | 0.17 | 51 | 0.074 | 1 | 0.41 | 0.073 | 0.40 | 5.3 | <0.01 | 2.1 | 0.1 | 0.65 | 3 | <0.5 | <0.2 | |
| SK10-10 | Rock | 0.012 | 13 | 21 | 0.46 | 74 | 0.101 | <1 | 1.41 | 0.011 | 1.02 | 1.5 | <0.01 | 4.0 | 0.8 | 0.11 | 9 | <0.5 | <0.2 | |
| SK10-11 | Rock | 0.009 | 25 | 14 | 0.02 | 31 | 0.002 | <1 | 0.32 | 0.013 | 0.11 | 0.8 | 0.02 | 1.3 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| SK10-12 | Rock | 0.008 | 19 | 17 | 0.01 | 27 | 0.001 | <1 | 0.17 | 0.034 | 0.11 | 0.9 | <0.01 | 1.1 | 0.1 | 0.14 | <1 | <0.5 | <0.2 | |
| SK10-13 | Rock | 0.024 | 4 | 18 | 0.53 | 24 | 0.092 | 2 | 1.02 | 0.058 | 0.13 | 25.3 | <0.01 | 3.5 | <0.1 | <0.05 | 3 | 0.6 | <0.2 | |
| SK10-14 | Rock | 0.030 | 2 | 18 | 0.16 | 3 | 0.016 | <1 | 0.34 | 0.012 | 0.02 | 23.7 | <0.01 | 0.4 | <0.1 | 0.09 | 1 | 1.3 | 0.2 | |
| SK10-15 | Rock | 0.038 | 24 | 18 | 0.70 | 80 | 0.117 | 3 | 1.21 | 0.026 | 0.92 | 1.5 | <0.01 | 1.1 | 0.8 | 0.71 | 3 | <0.5 | <0.2 | |
| SK10-16 | Rock | 0.023 | 9 | 13 | 0.80 | 54 | 0.002 | 1 | 0.96 | 0.003 | 0.17 | 0.5 | <0.01 | 1.2 | <0.1 | <0.05 | 2 | <0.5 | <0.2 | |
| SK10-17 | Rock | 0.039 | 49 | 12 | 0.79 | 46 | 0.064 | 2 | 1.35 | 0.033 | 0.44 | 15.0 | <0.01 | 1.5 | 0.3 | <0.05 | 4 | <0.5 | <0.2 | |
| SK10-18 | Rock | 0.012 | 9 | 13 | <0.01 | 9 | <0.001 | 7 | 0.17 | 0.002 | 0.06 | 0.7 | <0.01 | 0.6 | <0.1 | <0.05 | <1 | <0.5 | 0.6 | |
| SK10-19 | Rock | 0.016 | 11 | 17 | 0.02 | 15 | 0.002 | 8 | 0.22 | 0.002 | 0.08 | 1.3 | 0.02 | 1.0 | <0.1 | <0.05 | 1 | <0.5 | 1.4 | |
| SK10-20 | Rock | 0.040 | 11 | 36 | 1.68 | 56 | 0.125 | <1 | 3.07 | 0.017 | 0.12 | 2.7 | <0.01 | 9.4 | <0.1 | <0.05 | 10 | 1.0 | 0.4 | |
| SK10-21 | Rock | 0.009 | 13 | 8 | 0.05 | 14 | 0.008 | <1 | 1.18 | <0.001 | 0.02 | >100 | <0.01 | 1.7 | <0.1 | <0.05 | 5 | <0.5 | 2.7 | |
| SK10-22 | Rock | 0.037 | 9 | 27 | 0.59 | 8 | 0.153 | <1 | 1.13 | 0.033 | 0.05 | >100 | <0.01 | 3.5 | <0.1 | 0.81 | 3 | 1.0 | 0.9 | |



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 Vancouver BC V6E 2E9 Canada

Project: Big Smoke
Report Date: May 03, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN10001600.1

| Method | WGHT | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 |
|---------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | |
| Unit | kg | ppm | 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 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 20.1 | 113.0 | 71.4 | 392 | 1.0 | 59.2 | 9.5 | 636 | 2.38 | 54.7 | 5.1 | 82.2 | 4.4 | 72 | 6.7 | 6.6 | 4.9 | 83 | 1.01 | |
| STD DS7 | Standard | 20.7 | 108.2 | 71.1 | 382 | 1.0 | 53.9 | 8.6 | 612 | 2.39 | 53.1 | 4.9 | 72.9 | 4.6 | 75 | 6.7 | 6.5 | 4.7 | 82 | 0.96 | |
| STD GC-7 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD R4A | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS7 Expected | | 20.5 | 109 | 70.6 | 411 | 0.9 | 56 | 9.7 | 627 | 2.39 | 48.2 | 4.9 | 70 | 4.4 | 69 | 6.4 | 4.6 | 4.5 | 84 | 0.93 | |
| STD GC-7 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD R4A Expected | | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| G1 | Prep Blank | <0.01 | 0.1 | 2.5 | 3.0 | 47 | <0.1 | 3.2 | 4.0 | 589 | 2.05 | <0.5 | 1.7 | <0.5 | 5.0 | 55 | <0.1 | <0.1 | <0.1 | 38 | 0.53 |
| G1 | Prep Blank | <0.01 | 0.2 | 2.9 | 3.0 | 45 | <0.1 | 3.1 | 4.3 | 579 | 2.06 | <0.5 | 1.8 | <0.5 | 5.6 | 58 | <0.1 | <0.1 | <0.1 | 38 | 0.53 |



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Project: Big Smoke
Report Date: May 03, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN10001600.1

| Method | | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 7AR | | |
|---------------------|------------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Pb | |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | % | |
| MDL | | 0.001 | 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 | 0.01 | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 0.078 | 13 | 195 | 1.07 | 404 | 0.120 | 41 | 1.06 | 0.093 | 0.45 | 4.0 | 0.23 | 2.4 | 4.4 | 0.20 | 5 | 3.4 | 1.4 | | |
| STD DS7 | Standard | 0.075 | 14 | 200 | 1.04 | 428 | 0.126 | 41 | 1.03 | 0.093 | 0.51 | 4.0 | 0.22 | 2.4 | 4.6 | 0.20 | 4 | 3.0 | 1.6 | | |
| STD GC-7 | Standard | | | | | | | | | | | | | | | | | | | | >10 |
| STD R4A | Standard | | | | | | | | | | | | | | | | | | | | 1.52 |
| STD DS7 Expected | | 0.08 | 12 | 179 | 1.05 | 370 | 0.124 | 39 | 0.959 | 0.089 | 0.44 | 3.4 | 0.2 | 2.5 | 4.2 | 0.19 | 5 | 3.5 | 1.08 | | |
| STD GC-7 Expected | | | | | | | | | | | | | | | | | | | | | 10.44 |
| STD R4A Expected | | | | | | | | | | | | | | | | | | | | | 1.503 |
| BLK | Blank | <0.001 | <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 | | | | | | | | | | | | | | | | | | | | <0.01 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| G1 | Prep Blank | 0.080 | 11 | 13 | 0.52 | 166 | 0.118 | 1 | 1.00 | 0.112 | 0.48 | <0.1 | <0.01 | 2.0 | 0.3 | <0.05 | 5 | <0.5 | <0.2 | | |
| G1 | Prep Blank | 0.087 | 11 | 13 | 0.53 | 180 | 0.119 | 2 | 0.99 | 0.104 | 0.53 | <0.1 | <0.01 | 2.0 | 0.3 | <0.05 | 5 | <0.5 | <0.2 | | |



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Vancouver BC V6E 2E9 Canada

Submitted By: Email Distribution List
Receiving Lab: Canada-Vancouver
Received: July 19, 2010
Report Date: July 28, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN10003345.1

CLIENT JOB INFORMATION

Project: Big Smoke
Shipment ID:
P.O. Number
Number of Samples: 7

SAMPLE DISPOSAL

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

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

Invoice To: Kootenay Gold Inc.
Suite 920 - 1055 W. Hastings St.
Vancouver BC V6E 2E9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|---|--------------|---------------|-----|
| R200-250 | 7 | Crush, split and pulverize 250 g rock to 200 mesh | | | VAN |
| 1DX3 | 7 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 30 | Completed | |
| 7AR | 1 | 1:1:1 Aqua Regia Digestion ICP-ES Finish | 0.4 | Completed | 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. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Vancouver BC V6E 2E9 Canada

Project: Big Smoke
 Report Date: July 28, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN10003345.1

| Method | WGHT | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 |
|----------|------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | |
| Unit | kg | ppm | 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 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| SK10-241 | Rock | 0.60 | 0.2 | 593.4 | 12.6 | 27 | 0.3 | 2.1 | 25.0 | 96 | 2.32 | 5.4 | 0.2 | 1.4 | 1.3 | 27 | 0.3 | 0.2 | 0.6 | <2 | 1.42 |
| SK10-242 | Rock | 0.78 | 0.4 | 11.7 | 14.0 | 13 | <0.1 | 1.4 | 3.1 | 799 | 0.94 | 1.9 | <0.1 | 23.0 | <0.1 | 33 | 0.2 | 0.2 | 2.2 | 7 | 2.22 |
| SK10-243 | Rock | 0.87 | <0.1 | 44.0 | >10000 | 67 | 85.9 | 1.6 | 11.1 | 1010 | 1.66 | 11.6 | 0.5 | 15.4 | 0.1 | 10 | 1.4 | 0.3 | 333.5 | 72 | 1.24 |
| SK10-244 | Rock | 0.46 | 0.3 | 4.1 | 29.3 | 15 | 0.2 | 25.8 | 18.0 | 812 | 3.10 | 53.8 | 0.6 | <0.5 | 10.3 | 7 | <0.1 | 0.1 | 0.6 | 8 | 1.27 |
| SK10-245 | Rock | 0.37 | 0.2 | 360.8 | 45.3 | 89 | 0.3 | 32.9 | 21.6 | 479 | 9.90 | 22.3 | 0.6 | 4.1 | 6.7 | 5 | 0.3 | 0.2 | 0.2 | 42 | 0.09 |
| MK10-251 | Rock | 0.70 | 0.3 | 29.6 | 56.5 | 3 | 0.3 | 1.5 | 1.0 | 31 | 0.78 | 64.0 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | 0.1 | 1.2 | <2 | 0.02 |
| MK10-252 | Rock | 0.46 | 18.1 | 372.7 | 33.3 | 48 | 0.2 | 1.4 | 23.0 | 336 | 3.09 | 2.7 | 0.2 | 6.9 | 2.0 | 10 | 0.2 | 0.2 | 1.0 | 5 | 1.10 |



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Project: Big Smoke
 Report Date: July 28, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN10003345.1

| Method | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 7AR |
|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Pb | |
| Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | % | |
| MDL | 0.001 | 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 | 0.01 | |
| SK10-241 | Rock | 0.201 | 5 | 11 | 0.03 | <1 | 0.192 | <1 | 0.55 | <0.001 | <0.01 | 0.8 | <0.01 | 1.9 | <0.1 | 1.16 | 2 | 1.1 | <0.2 | |
| SK10-242 | Rock | 0.004 | 1 | 10 | 0.03 | 6 | 0.010 | 1 | 1.15 | 0.003 | <0.01 | >100 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 0.2 | |
| SK10-243 | Rock | 0.027 | 4 | 6 | 0.03 | 10 | 0.041 | 1 | 0.68 | <0.001 | <0.01 | 3.8 | <0.01 | 1.8 | 0.8 | 0.22 | 2 | 18.1 | 23.0 | 1.72 |
| SK10-244 | Rock | 0.023 | 30 | 10 | 0.12 | 54 | <0.001 | 4 | 0.67 | 0.026 | 0.28 | 9.3 | <0.01 | 4.9 | 0.1 | <0.05 | 1 | <0.5 | <0.2 | |
| SK10-245 | Rock | 0.024 | 12 | 45 | 1.00 | 61 | 0.011 | 3 | 1.71 | 0.044 | 0.21 | 1.2 | <0.01 | 3.6 | <0.1 | <0.05 | 4 | <0.5 | <0.2 | |
| MK10-251 | Rock | 0.002 | <1 | 26 | 0.01 | 2 | 0.002 | <1 | 0.06 | 0.006 | <0.01 | 0.3 | <0.01 | 0.5 | <0.1 | <0.05 | <1 | <0.5 | <0.2 | |
| MK10-252 | Rock | 0.199 | 7 | 15 | 0.21 | 55 | 0.176 | <1 | 0.71 | 0.060 | 0.07 | 0.4 | <0.01 | 9.0 | <0.1 | 1.03 | 3 | 2.7 | <0.2 | |



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Project: Big Smoke
 Report Date: July 28, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN10003345.1

| Method | WGHT | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | |
|---------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte | Wgt | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | |
| Unit | kg | ppm | 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 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 21.2 | 98.7 | 57.7 | 398 | 1.0 | 56.1 | 9.3 | 647 | 2.38 | 48.3 | 4.1 | 79.9 | 4.3 | 68 | 5.5 | 5.1 | 4.1 | 83 | 0.97 | |
| STD DS7 | Standard | 22.7 | 101.4 | 58.8 | 394 | 1.0 | 57.0 | 9.4 | 655 | 2.41 | 50.6 | 4.5 | 88.3 | 4.3 | 77 | 6.0 | 5.9 | 4.2 | 85 | 1.01 | |
| STD GC-7 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD R4A | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS7 Expected | | 20.5 | 109 | 70.6 | 411 | 0.9 | 56 | 9.7 | 627 | 2.39 | 48.2 | 4.9 | 70 | 4.4 | 69 | 6.4 | 4.6 | 4.5 | 84 | 0.93 | |
| STD GC-7 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD R4A Expected | | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| G1 | Prep Blank | <0.01 | 0.2 | 3.0 | 4.9 | 51 | <0.1 | 5.1 | 4.6 | 623 | 2.11 | <0.5 | 1.7 | 2.0 | 7.3 | 61 | <0.1 | <0.1 | 0.2 | 40 | 0.55 |



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Project: Big Smoke
 Report Date: July 28, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN10003345.1

| Method | | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 1DX30 | 7AR | |
|---------------------|------------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te | Pb |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| MDL | | 0.001 | 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 | 0.01 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 0.077 | 12 | 192 | 1.06 | 407 | 0.118 | 36 | 1.03 | 0.091 | 0.43 | 3.5 | 0.21 | 2.4 | 3.9 | 0.20 | 5 | 3.0 | 0.3 | |
| STD DS7 | Standard | 0.082 | 13 | 208 | 1.08 | 442 | 0.125 | 42 | 1.07 | 0.093 | 0.51 | 3.8 | 0.25 | 2.5 | 4.5 | 0.20 | 5 | 3.8 | 1.2 | |
| STD GC-7 | Standard | | | | | | | | | | | | | | | | | | | >10 |
| STD R4A | Standard | | | | | | | | | | | | | | | | | | | 1.57 |
| STD DS7 Expected | | 0.08 | 12 | 179 | 1.05 | 410 | 0.124 | 39 | 0.959 | 0.089 | 0.44 | 3.4 | 0.2 | 2.5 | 4.2 | 0.19 | 5 | 3.5 | 1.08 | |
| STD GC-7 Expected | | | | | | | | | | | | | | | | | | | | 10.44 |
| STD R4A Expected | | | | | | | | | | | | | | | | | | | | 1.503 |
| BLK | Blank | <0.001 | <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 | | | | | | | | | | | | | | | | | | | <0.01 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | |
| G1 | Prep Blank | 0.074 | 21 | 10 | 0.56 | 186 | 0.145 | 1 | 1.04 | 0.112 | 0.59 | 0.1 | <0.01 | 2.2 | 0.4 | <0.05 | 5 | <0.5 | <0.2 | |