

**TARGET EVALUATION  
PROGRAM**

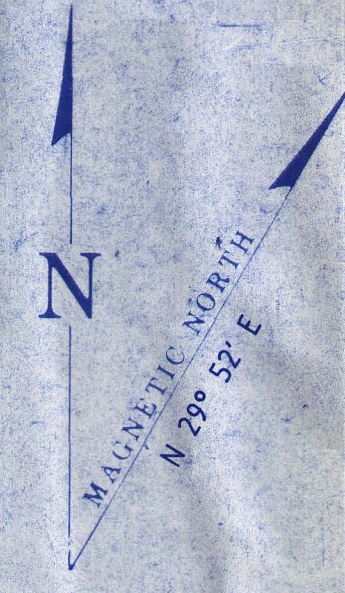
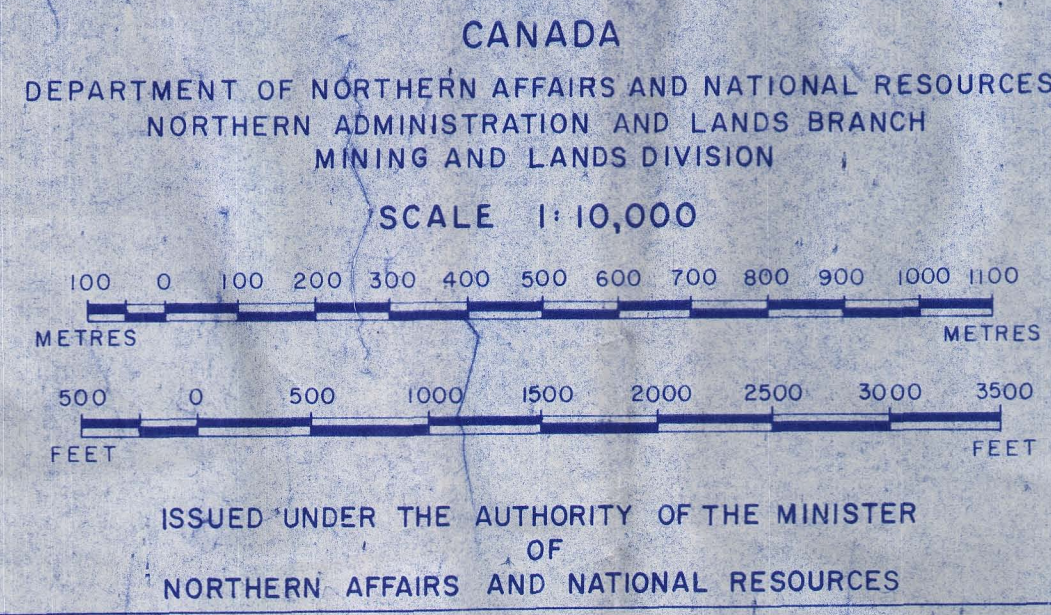
**LAURIE DOWNES**

**SIXTYMILE, YUKON TERRITORY**

***JULY 21 TO SEPTEMBER 15  
1994***

# PLACER SHEET 116-C-2b

LATITUDE 64° 00' TO 64° 05'  
LONGITUDE 140° 40' TO 140° 50'



NOTE:  
THIS MAP IS ISSUED AS A PRELIMINARY GUIDE  
FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS  
AND NORTHERN DEVELOPMENT WILL ACCEPT NO  
RESPONSIBILITY FOR ANY ERRORS, INACCURACIES  
OR OMISSIONS WHATSOEVER.

TOPOGRAPHY COMPILED FROM 1:50,000  
NATIONAL TOPOGRAPHIC SERIES.  
CONTOUR INTERVAL 100 FEET.  
SURVEY INFORMATION COMPILED FROM  
LEGAL SURVEYS, BY DRAFTING SERVICES.

116-C-ZPL		
116-C-2c	116-C-2b	116-C-2a
115-N-15i	115-N-15h	115-N-15g

NOTE: FOR QUARTZ CLAIMS SEE 116C-2



DAWSON 18 APR. 1989



mining, The upper regions are very much wider and with much better colours show this area to have many good years of mining. The gold is small but very ragged, showing it has not travelled very far. Gold was retrieved from panning. This upper area has cabins from the turn of the century. Permafrost was a very big hindrance to digging of test holes and trenching.

#### TEST HOLE RESULTS:

1. Moss plus one foot, muck and rock for eight feet, black sooty shale and silt, four feet. Gravel layer, four feet. Rock clasts are porphyry. All frozen ground.
2. Moss plus one foot black muck, sooty silt and shale for eight feet. Gravel, four feet (very fine floaty gold of no consequence). Black sand, shelf of hard rock on bottom. Bedrock gravel is yellow mushy. Rock clasts are porphyry. All frozen ground.
3. Moss plus one foot, frozen ground, broken porphyry mixed with black muck for eight feet, silt and shaley sooty rock, four feet, yellow mushy gravel, four feet. Very few fine colours, pyrite.
4. Moss plus one foot, black muck mixed with rock for seven-eight feet, silty blackish shale, four feet. Mushy yellow gravel, three feet, coarse conglomerate grayish gravels, one foot, (riverbed type). Few fine colours, one tiny nugget, little garnet, pyrite.
5. Swampy area, moss plus one foot, black muck and rock for four feet. Grey conglomerate gravel, five feet, mushy yellow gravel bedrock, four feet. The grey gravels run north across creek (old river bed). Quite a few colours, but very fine, pyrites. Nothing in grey gravel. All frozen ground.
6. Moss plus one foot, two feet of mud into black muck and rock fragments, four feet. Grey conglomerate gravels, four feet. Bedrock gravel is yellow coloured, four feet. All frozen ground. Fifteen fine colours, a little black sand. Little chunks of pyrite.
7. Frozen ground under two feet grass and moss, and silty sand. Nine feet muddy shaley soft rock with muck. One foot, grey conglomerate gravel. Three feet, bedrock, yellow mushy gravel. Twelve gold colours. Two garnets and little pyrite chunks.
8. Moss plus one foot. Muck, three feet. Gravelly grey mixture. Small loose spalls, three feet. Two feet chocolate brown coloured gravel. Five feet of yellow gravel. Seventeen gold colours, two small pieces, one garnet. All frozen ground.

**SUMMARY REPORT**

**Designation/Application # 94-059 for 1994 Field Season**

**Mineral Prospecting Program**

**Name of Lease:** Unnamed Right Limit Tributary of Big Gold  
Creek  
Four mile prospecting lease # 9080

**Location:** Sixtymile, Yukon Territory  
Dawson Mining District  
Claim Sheet NTS #116-C-2b

Longitude: 140° 45.5'W  
Latitude: 64° 03'N

Longitude: 140° 51.5'W  
Latitude: 60° 05'N

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**Dates of Target Evaluation:** July 21st to September 15th, 1994

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Holder: Four Mile Prospecting Lease/Laurie Downes  
Name of Lease: Unnamed Tributary of Big Gold Creek  
Time employed in preparing report: one week

## PREFACE TO GOLD EXPLORATION

This project got started July 21st though some cat work was done the week before so we could better access the gulch by truck, this meant that fuels, equipment, pumps which were needed day to day could be delivered close to the starting site. We had a visitor up that gave us a good hand for a few weeks.

The cat was used to push trails, bypass swamps, build pads for the test hole excavations, haul the pump trailer, etc. It also worked rock cuts and was used for backfilling test holes. The cat operator also ran the diesel backhoe when necessary to dig the test holes.

A four-inch pump was used on occasion to pump test holes and install two small culverts to divert a couple of good flowing springs. The overall access was very hard going, as years ago someone had run a cat up and down this creek numerous times without making a road and subsequently the whole area was a very big morass of water and muck. By cutting the left limit bank we were gradually able to overcome the problem of getting equipment in and also enabled me to get a better look at side hill rocks. A couple of old creek beds were also found cutting across the gulch. The weather on the whole was very good, most heavy rains were at night, but all in all it made for good working conditions and I believe we accomplished a lot.

Other than equipment work, I was able to spend most days panning or cracking rocks and bagging samples. I guided the project as well as general labour work keeping similar hours as operator. I brought back bags of soil samples and hard rock samples and took photos of exploration throughout the project. Some film was lost in the end due to camera falling in creek.

On a few occasions there wasn't any work at all done at site. This was due to the cat being needed elsewhere but it was returned as soon as possible. Most evenings were spent at camp after work. Looking at samples, panning, or general camp chores.

The weather towards the end of the project was getting very cold with snow, the snow eventually staying. The nice days after finishing the project were spent just exploring the gulch, tidying up the site, fixing the access, cutting wood and preparing for shutdown.

Overall I enjoyed my summer, my blisters and my muscles, and thank the Economic Mines Department for the opportunity. I will definitely be back to this gulch in the 1995 season. The assays have only recently returned from Vancouver and are included in this package.



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Laurie Downes

## HISTORY OF AREA

The Sixtymile area gold camp has been worked by hand panning, dredge, and by shaft sinking since the latter part of the 1880's. In my own time, it has been caterpillar tractors and backhoe equipment that have been the most productive operations.

The immediate area that I am interested in is a four mile Unnamed Gulch heading up in the west and with a gentle grade to the east, terminating at Big Gold Creek. Big Gold Creek runs south to meet the Sixtymile River.

I have discovered old cabins and old shafts with the remains of windlasses, these are near the upper end of the Gulch.

## TOPOGRAPHY AND VEGETATION

This gulch for the first mile upstream is very narrow. The sides are very steep, rocky, and tree covered (black spruce and poplar). The creek area is willow brush and spruce. This limit of the creek seems to be a fault area, striking north and south and cutting across the creek valley.

The next mile upstream opens up fairly wide and is very swampy. The left limit rises very gently to the north and the creek proper flows at the extreme right limit. Small spruce and brush are scattered around, a small gulch runs in from the left limit in this area feeding the main creek. The right limit is very steep and spruce covered.

The next and upper two miles narrows down again and is heavily forested with spruce trees, the creek rises in this area, canyon like, and dead ends, the creek water is thus provided by the surrounding hills.

## LOCATION AND ACCESS

This Unnamed tributary of Big Gold Creek is located in the Sixtymile gold fields of Yukon, near the boundary of Alaska. The area is accessed by the Top of the World Highway via a ferry from Dawson City, Yukon. The highway is seasonal and well maintained. The ferry

is serviced by the Territorial Government and runs from approximately mid-May to early October, dependent on weather conditions. An early mining start-up may begin by use of a temporary ice bridge in March from Dawson City.

## **GEOLOGY**

Nasina Series--Oldest Yukon rock group, consisting of quartzite mica schist, biotite gneiss, and metamorphic rocks. The Sixtymile area is volcanic, there is an absence of glaciation.

The geology of this Gulch on the creek valley is permafrost vegetation and muck overlying gravel and sediments. The surrounding hills appear to be mostly porphyries, and andesites, the fault area is a buff to brown sharp gravel-coloured rock. All of the creek rocks in the lower end of the creek are stained a chocolate brown colour. There are traces of an old river bed (cemented conglomerates) across the downstream valley. This old river bed is very prominent to the south Sixtymile River area and east across Big Gold Creek. Upper bedrock in the area is a white coloured sericite schist?

## **CLIMATE**

The weather in the mountainous area of the Sixtymile country can be very extreme. Snow still appears on the ground in late May and flurries can even be expected in July or August. Daylight is almost continuous during May, June, and July. Heavy rains are quite common in this country. Electrical storms with hail can be expected. Rainfall can vary greatly from summer to summer, but some mining seasons can be very pleasant. June and July can be very hot and from August the fifteenth on, cold and wet weather can be expected, but will vary with some beautiful fall days, the local leaves and vegetation are into fall colours at this time.

## **RESULTS AND RECOMMENDATIONS**

In the summer of 1994, 49 exploration days were spent on the unnamed tributary gulch of Big Gold Creek.

A number of test pits and trenches were excavated. The results, including a number of soil samples appear in the chemex reports.

Panning on the upper reaches showed better colours. The lower portion and towards the east end of the creek is very deep. Our holes in this region, at approximately sixteen feet showed fewer colours and the creek being extremely narrow would make for very difficult placer



9. Swampy area, moss plus one foot. Six feet black muck mixture. Three feet of brown gravel, four feet of yellow gravel. All frozen ground. Fifteen gold colours, one small piece, one nice little nugget, some black sand, pyrites. Small piece of galena.
10. Dry hill area, moss plus one foot. Eight feet black muck, three feet of brown gravel. Four feet of yellow gravel over schisty bedrock. Nineteen gold colours, one piece, and one garnet with small pyrites. All frozen ground.
11. Swamp, low area. One foot plus of moss. Six feet black muck and rock chunks. Three feet of brown gravel. Four feet of yellow gravel over schist. Thirty-three colours, black sand, pyrite pieces.
12. High dry area. Moss plus one foot, seven feet of black muck. Three feet brown gravel, three feet of yellow gravel, schist bedrock, two feet. Twenty-seven nice colours, one garnet and pyrites. One pyrite copper stained? All frozen ground.
13. Swampy area. Moss plus one foot. Muck and rock. Six feet brown gravel, three feet, yellow gravel is five feet over schist bedrock, two feet. Small pyrites, 18 gold colours, and three little pieces. Ground frozen.
14. Dry area, moss plus one foot. Five feet of black muck mixed with grey gravel, one foot. Five feet yellow gravel under three feet brown gravel. One foot schist bedrock. All frozen ground. Twenty-eight nice colours, some pyrite.
15. Dry area. One foot moss, four feet of black muck. Eight feet of grey gravel. Three feet of yellow gravel, two feet of schist. All frozen ground. Thirty-three colours, two pieces, some pyrite pieces, one large galena piece.

Approximately two hundred feet of trenching was excavated along benches mainly to outline old channels crossing creek. Bagged samples were taken back to the camp for panning. Rocks were mostly porphyries, very fine colours, little pieces, and some pyrite were recovered. Most test holes and trenching had to be done in stages due to frozen ground.



Friday, July 29th: Gold 383

Cat: 11 hours                      Operator: 11 hours  
4X4 truck: 2 hours                Labour: 11 hours

A warm day, +9° in morning, cat worked all day, cat fuel line flushed. Long day. Washed vehicles, rearranged camp and cleaned in evening.

Saturday, July 30th:

Cat: 10 hours                      Operator: 10 hours  
4X4 truck: 2 hours                Labour: 10 hours

Sunshine +12°, got warmer as the day went by, light rain in evening. Cat got stuck up creek today, working wet ground, used small cat for anchor. Took two hours to get out. Later tonight I weeded garden, annual arctic poppies blooming, did some painting of camp chairs.

Sunday, July 31st:

Cat: 9 hours                        Operator: 9 hours  
4X4 truck: 2 hours                Labour: 9 hours

Sunshine +4°, great weather, daytime highs got very warm. Received call on mobile at end of day from Dawson, missed a camp visitor.

Monday, August 1st: Gold 383

Cat: 10 hours                      Operator: 10 hours  
4X4 truck: 2 hours                Labour: 10 hours

Sunshine +12°, afternoon temperatures not as warm as other days. Pushing a lot of gravel, cat blade pin readjusted and fuel line cleaned. Took photos of exploration work. Read gov't mining information re exploration.

Tuesday, August 2nd: Gold 380

No equipment work today, bench assessment, cat moved elsewhere in afternoon.

Good working weather +9° in morning, rained at 7 p.m. for an hour and lightly at 10 p.m., hail shortly afterwards. A fellow working in area stopped in for short while at noon. Prepared for trip to Dawson latter part of day. Loaded fuel tank, drums onto 4X4.

Wednesday, August 3rd: Gold 378

Cat: 2 hours, evening                      Operator: 2 hours  
4X4 truck: 2 hours                         Labour: 2 hours

Rained during the night, +10°, lightning and thunder 8 a.m., humid, overcast. Moved pump, hose and trailer to gulch. To Dawson today for fuel, propane, mining recorder. Hauled creek water.

Thursday, August 4th: Gold 377

Cat: 5 hours                                    Operator: 11 hours  
Backhoe: 6 hours                            Labour: 11 hours  
Pump: 2 hours  
4X4 truck: 2 hours

Hot temperatures all day, wearing a head cap daily, sun so strong. Unloaded fuel at camp, prospected along creek approx. 1.5 miles. Came across an old wagon wheel from early days, Saw first big moose of season. Hung out a washing tonight.

Friday, August 5th: Gold 377

Cat: 10 hours                                 Operator: 10 hours  
4X4 truck: 2 hours                         Labour: 10 hours

Sunny +12° morning, hazy day, sweltering up creek, panning, etc. Picked blueberries and put laundry away tonight. Hauled water.

Saturday, August 6th:

Cat: 9 hours                                    Operator: 9 hours  
4X4 truck: 2 hours                         Labour: 5 hours

Humid, overcast, +4°, smoke in the air, my shepherd dog is not well, a spinal problem. I worked in the afternoon. Cat has been pushing trail last couple of days. Mobile call to Kamloops, BC.

Sunday, August 7th:

Cat: 2 hours                                    Operator: 12 hours  
Backhoe: 10 hours                         Labour: 5 hours  
4X4 truck: 2 hours

Hot and hazy again, +10° morning. Thunder in air. Saw moose tracks up trail, gathered rock samples, hauled pipe up creek for culvert drainage, shovelling. Cut grass at trailer in evening. An outgoing mobile call was made.

Monday, August 8th: Gold 377.35

Cat: 11 hours                      Operator: 11 hours  
4X4 truck: 2 hours                Labour: 3 hours

Rainy morning, +13°, poured til 10 a.m., cleared and the sun came out. Muggy evening. Brought back samples to camp from gulch. Got cleaned up, I made a quick trip to Dawson for business mid-day.

Tuesday, August 9th: Gold 378.05

Cat: 5 hours                      Operator: 8 hours  
Backhoe: 3 hours                Labour: 6 hours  
Pump: 3 hours  
4X4 truck: 2 hours

Bright morning +9°. Fuelled cat, ditching, working on soft ground, pushing rock onto trail area for better base.

Wednesday, August 10th: Gold 377

Cat: 10 hours                      Operator: 10 hours  
4X4 truck: 2 hours                Labour: 10 hours

Very warm working conditions. Into black muck, hard going, got onto easier pushing ground good gravel area. Ditching. Studied rocks and hauled water in the evening.

Thursday, August 11th: Gold 378.90

Cat: 8 hours                      Operator: 8 hours  
4X4 truck: 2 hours                Labour: 8 hours

Warm, afternoon cloudiness, +10°, a cool breeze now and then. Walked up mountainside for samples—outcrop of sandstone. Working permafrost ground.

Friday, August 12th: Gold 376.85

Cat: 4 hours                      Operator: 10 hours  
Backhoe: 6 hours                Labour: 7 hours  
Pump: 3 hours  
4X4 truck: 2 hours

A cloudy morning, +8°, cool temperatures, rained in afternoon. Repaired small cat track (loosened up), trenching with equipment. I was able to work most of day before it rained. A mobile to Whitehorse.

Saturday, August 13th:

Cat: 3 hours                      Operator: 10 hours  
Backhoe: 7 hours                Labour: 5 hours  
Pump: 3 hours  
4X4 truck: 2 hours

Cloudy, +9°, light rain, nice evening. I was up the creek in the morning. Water pumped from test holes. Organized fuel and oil sheds this afternoon. Cleaned trailer. A peregrine falcon landed atop trailer. Studied maps, rocks, mineral books tonight.

Sunday, August 14th:

Cat: 2 hours                      Labour: 4 hours  
Backhoe: 7 hours                Operator: 9 hours  
Pump: 1 hour  
4X4 truck: 2 hours

First cold morning of season, frost on vehicles. Sun out for the most part of day. Used the pump for a while this morning, and took more exploration photos. Washed 4X4 vehicle. In evening worked around camp, repaired tag-along trailer. Mobile call from Whitehorse end of day.

Monday, August 15th: Gold 377.55

No exploration work today. Hardrock assessment, worked elsewhere.

Overcast, +5°. Nice afternoon. To creek for water. Piled wood, put on fire in wood stove before bedtime.

Tuesday, August 16th: Gold 377.40

Cat: 10 hours                      Operator: 10 hours  
4X4 truck: 2 hours                Labour: 10 hours

Good weather continues, up to +15°, sun out til 10:30 tonight. Sample work with rock hammer, panning. Cleaned camp, picked blueberries and read papers in evening.

Wednesday, August 17th: Gold 377.50

Cat: 7 hours                      Operator: 9 hours  
Backhoe: 2 hours  
4X4 truck: 2 hours

Discovery Day, Sunshine 10 a.m. annual seasonal check of employees with immigration and mounted police—a couple of visitors. My shepherd dog is not well, concerned about her, stayed close to camp. Baked berry muffins, hung out washing, cut wood.

Thursday, August 18th: Gold 381.90

Cat: 11 hours Operator: 11 hours

4X4 truck: 2 hours

Morning is +8°, bright til 9:30 p.m. winds this evening. Cat had a full day, making test pads. I worked at camp improvements, to the creek for short while, panning. Picked some raspberries, a sick dog to watch over.

Friday, August 19th: Gold 382.15

Cat: 11 hours Operator: 11 hours

4X4 truck: 2 hours

Cool morning, sunshine, +12° temperatures into evening. Cleaned camp floors, windows. Examined rocks, mineral books. Mobile call to Kamloops and Dawson. A sad day, "Tutshi" died by days end.

Saturday, August 20th:

No exploration work today.

Smoke fills the air, +6° a.m., hazy. Forest fires, thick smoke. A few showers at end of day. Buried my shepherd dog this morning. Used cat for burial site to keep the bears away. A drive up nearby creek, saw a big blue grouse, brought back some logs. Moose tracks by a creek crossing. Letter writing, retired early.

Sunday, August 21st:

Cat: 11 hours Operator: 11 hours

4X4 truck: 2 hours

Rained through the night, +8° overcast, damp. Some sun, a high of +15°. I stayed at camp. Cat worked, pushing gravel. Made bread, muffins, water haul. Had mail delivered from Dawson.

Monday, August 22nd: Gold 381.75

Cat: 7 hours Operator: 7 hours

4X4 truck: 2 hours Labour: 7 hours

Cool morning, a little ice on creek crossing, overcast. Light rain at 3:30 p.m. Able to work good part of day, heavy labour work. Rained heavily by 5:30 p.m. and continued all night.

Tuesday, August 23rd: Gold 381.80

Cat: 2 hours	Operator: 10 hours
Backhoe: 8 hours	Labour: 10 hours
4X4 truck: 2 hours	

A wet morning, sun is coming out later, about 11 a.m. today. Cool afternoon, mostly cloudy, +12°. Snow in the high mountains. Temperature drop of -4° this evening. Backhoe used for digging more test holes today. I continue to guide project, coming along fine.

Wednesday, August 24th: Gold 383.25

Cat: 3 hours	Operator: 10 hours
Backhoe: 7 hours	Labour: 10 hours
4X4 truck: 2 hours	

Sunshine -5° morning. Warm evening, high of +17°. Located a gravel site, good for trail building, (old river bed?) Organized tool shed tonight.

Thursday, August 25th: Gold 383.40

Cat: 1 hour	Operator: 1 hour
Backhoe: 9 hours	Labour: 10 hours
Pump: 4 hours	
4X4 truck: 2 hours	

Rained earlier, turned out a nice day, windy at times. More hours with backhoe. +12° at 7:30 p.m. Cleaned up remainder of tool shed this evening, and sewed a little. A mobile call from Whitehorse.

Friday, August 26th: Gold 383.45

Backhoe: 9 hours	Operator: 9 hours
Pump: 2 hours	
4X4 truck: 2 hours	

Sunny +8° morning. Overcast later in evening. Test holes excavated. Bagged soil samples, emptied sample pails. Installed new battery in backhoe. To creek for water at camp.



Saturday, August 27th:

Cat: 2 hours                      Operator: 9 hours  
Backhoe: 7 hours                Labour: 9 hours  
Pump: 1 hour  
4X4 truck: 2 hours

Warm morning, +10°, at 8:30 a.m. Rained about 6 p.m. for short while. Sun down earlier, 8:30 p.m. Pink sky over south end of valley. Charged batteries with gas unit, fuel loading. A coal deposit in camp area, burned a little in wood stove.

Sunday, August 28th:

Cat: 6 hours                      Operator: 9 hours  
Backhoe: 3 hours                Labour: 9 hours  
4X4 truck: 2 hours

High winds, +10°. Hard work continues at site. Phoned Kamloops, BC on mobile this evening, letter writing and prepared mail to send off.

Monday, August 29th: Gold 380.95

Cat: 2 hours                      Operator: 8 hours  
Backhoe: 6 hours                Labour: 8 hours  
4X4 truck: 2 hours

Cloudy, highs to +10°, rained and cleared, cold and fog in valley. Working top end of trail.

Tuesday, August 30th: Gold 386.35

Backhoe: 10 hours                Operator: 10 hours  
4X4 truck: 2 hours                Labour: 10 hours

A warm morning +4°. Backhoe busy. Panning, hauled water, examined rocks. Pink sky over gulch tonight.

Wednesday, August 31st: Gold 386.30

Cat: 1 hour                        Operator: 8 hours  
Backhoe: 7 hours                Labour: 8 hours  
4X4 truck: 2 hours

Mostly overcast day. +11° at 7:30 p.m. Many test holes at gulch. Poured rain at midnight.

Thursday, September 1st: Gold 387.05

Cat: 2 hours	Operator: 6 hours
Backhoe: 4 hours	Labour: 6 hours
4X4 truck: 2 hours	

Bright, +5° at 9 a.m. +15° in sun. A shorter day. Temperature dropped to zero by 11 p.m. Worked on back trailer door this evening, bear proofed. Moved a fridge indoors, installed. Got cleaned up. Using generators more so at night for lights.

Friday, September 2nd: Gold 387.05

No exploration work today.

Rained overnight. To Dawson in afternoon for fuel, propane, mail. Loaded up 4X4 of empty fuel cans, propane tanks. A little light snow while gone. Cold evening, lots of stars out tonight, frost.

Saturday, September 3rd:

Backhoe: 10 hours	Operator: 10 hours
Pump: 2 hours	Labour: 10 hours
4X4 truck: 2 hours	

A cool morning, -3° temperature. Much physical work, moving up trail. Overcast at times, -2° by evening. Visitors stopped in from Whitehorse late in evening. Mobile calls to and from Dawson.

Sunday, September 4th:

Cat: 4 hours	Operator: 9 hours
Backhoe: 5 hours	Labour: 9 hours
4X4 truck: 2 hours	

Good prospecting days. No frost, +15° at 9 p.m. Walked up to claim 15 today, shovelling, bagged samples and panned, lots of colours, took pictures of bedrock.

Monday, September 5th: Gold 387

Cat: 8 hours	Operator: 9 hours
4X4 truck: 2 hours	Labour: 8 hours

A little hail, cloudy. Cleared at noon. Cold wind and rain by evening. Installed lights on camp trailer.

Tuesday, September 6th: Gold 388.00

Cat: 5 hours                      Operator: 7 hours  
Backhoe: 2 hours                Labour: 7 hours  
4X4 truck: 2 hours

Just above zero, a cold wind, cloudy. Bagged samples, photos taken of work done today. Northern Lights.

Wednesday, September 7th: Gold 389.75

Cat: 1 hour                        Operator: 8 hours  
Backhoe: 7 hours                Labour: 8 hours  
4X4 truck: 2 hours

Keeping trailer warm, -5° morning. Trenching with equipment. Sunny day until 9:30 p.m., +5° at 11 p.m., clouds moving in. Took photos of bedrock area today. Sewed.

Thursday, September 8th: Gold 390.65

Cat: 6 hours                        Operator: 6 hours  
4X4 truck: 2 hours                Labour: 6 hours

Rained for most of the day, +7° at 8 p.m. Worked in rain. Hard going with 4X4 on trail. In evening panned gravel samples, rock hammer use.

Friday, September 9th: Gold 392.00

Cat: 7 hours                        Operator: 10 hours  
Backhoe: 3 hours                Labour: 10 hours  
4X4 truck: 2 hours

Zero this morning, bright, windy. There were high winds during the night. Temperatures decreased, -12° low, "frost on the pumpkin." Saw fresh grizzly tracks on trail. Hard going at site. Digging holes. Brought back soil samples to camp.

Saturday, September 10th:

Cat: 6 hours                        Operator: 7 hours  
Backhoe: 1 hour                 Labour: 7 hours  
4X4 truck: 2 hours

A fall day, -10° overnight. Dark at 9:45 p.m., warmer evening. Backfilled test holes further up gulch.

Sunday, September 11th:

Cat: 9 hours                                      Operator: 9 hours  
4X4 truck: 2 hours

Same temperatures all day +3° to +5°. Snowed all day, though melted as it fell. Light winds. We are getting lots done and making good progress.

Monday, September 12th: Gold 391

Cat: 7 hours                                      Operator: 9 hours  
Backhoe: 2 hours                              Labour: 9 hours  
4X4 truck: 2 hours

Same morning temperature as yesterday, +3°, overcast, light sleet. Saw more fresh grizzly tracks at site. Bagged soil samples.

Tuesday, September 13th: Gold 390.55

Cat: 7 hours                                      Operator: 7 hours  
4X4 truck: 2 hours                              Labour: 7 hours

Mild, +3° snow on the mountain peaks south end of valley. Sun out today, shovelling, panned samples, good results. Season project coming to a close.

Wednesday, September 14th: Gold 388.65

Cat: 10 hours                                      Operator: 10 hours  
4X4 truck: 2 hours                              Labour: 10 hours

Overcast, +5°. Pleasant evening, +12° at 9 p.m. Drainage at the creek confluence, to overcome muddy mess, changed oil in cat.

Thursday, September 15th: Gold 388.15                      End of exploration work.

Cat: 7 hours                                      Operator: 8 hours  
Backhoe: 1 hour                              Labour: 8 hours  
4X4 truck: 2 hours

Sunny +5° morning, got a good nights sleep. +9° at bedtime. Fixed up trail with cat. Brought back equipment to camp, cleaned cat tracks. Washed vehicles and hung out washing this evening.

Friday, September 16th: Gold 389

-2° overnight. To Dawson at 3 p.m. for mail, groceries, fuel. Cut some wood upon return, read papers and mineral books.

Saturday, September 17th:

A warm day, clouded over at 5 p.m., +6° at 9 p.m. Repaired gas motored charger unit. A little painting in sun.

Sunday, September 18th:

-2° low, a dull day +10° high. Poured rain all afternoon. Studied maps and rocks, letter writing. Visitors in from Dawson for a while.

Monday, September 19th: Gold 390.50

-2° low, a high of +16°, warm enough to paint window boards, did some panning.

Tuesday, September 20th: Gold 393.45

A cooler morning -5°, baked bread early morning, +6° at 8 p.m., almost last of camp washings, painted, got cleaned up, windy day.

Wednesday, September 21st: Gold 394.05

-8° overnight, bright all day, painted remaining boards, a drive to creeks nearby. Full moon

Thursday, September 22nd: Gold 395.70

No frost, sunny +15°, warm til 11 p.m. at +4°. Panning, baked, letter writing. A visitor, late night.

Friday, September 23rd: Gold 396.95

Approx. -2° overnight, a bright day ahead. Cut wood, hauled creek water.

Saturday, September 24th:

-2° overnight, light snow fell for awhile, mild. Baked biscuits. A walk up creeks, gone most of the day.

Sunday, September 25th:

+3° at 10 a.m., a little snow fell over night. Cloudy, rain fell most of the day and evening. Canada geese flying overhead. Lots more of walking today, snow blizzard atop highway.

Monday, September 26th: Gold 394.25

-2° low, cloudy and damp, a little mist, snow on the trails of gulch. Brisk walk today. Baked tonight and looked at mineral books..

Tuesday, September 27th: Gold 397.80

No frost, sunny, decreased to zero by 9 p.m. Tidied up yard in preparation for winter. Boarded up sheds. Prestone in the equipment, removed batteries and put indoors.

Wednesday, September 28th: Gold 394.40

overnight -12°, bright, good weather continues, dark early, by 9 p.m. Drove to Dawson, last return trip. Odd flurry in evening.

Thursday, September 29th: Gold 395.50

A cool day, a few flurries. +6° high, overcast. I was at the bottom end of gulch. Sun peaked through at 7 p.m.

Friday, September 30th: Gold 394.45

Chilly, -15°, a fall day. Painted tool shed, quick job, in the sun. Cut wood, small washing at night. Dark by 8 p.m.

Saturday, October 1st:

Another chilly morning. Hiked up creeks in surrounding area most of day, prospecting along the way.

Sunday, October 2nd:

Zero degrees in the morning, +5° high, overcast, windy and snow fell after lunch, a blizzard. Snow continued all day and night. Packed up dry goods and belongings, organized.

Monday, October 3rd: Gold 394.65

Zero degrees, packed up gear, drained camp pipes, loaded truck, thorough cleanup of trailer, fed birds their winter supply, loaded truck, boarded trailer. Left early afternoon. Treacherous winter conditions along Top of World Highway. To Dawson Mining Recorder before closing.

Tuesday, October 4th: Gold 392.85

To Whitehorse early morning hours, a damp, wet morning. A trip to recorder's office. Must adjust to city lifestyle!

**RECORD OF HOURS**

DATE	D-7 CAT HOURS	680 DIESEL BACKHOE HOURS	4" PUMP HOURS	4X4 TRUCK HOURS
July 23	4			
July 24				
July 25	6			
July 26				
July 27	2			2
July 28	5			2
July 29	11			2
July 30	10			2
July 31	9			2
August 1	10			2
August 2	2			2
August 3				2
August 4	5	6	2	2
August 5	10			2
August 6	9			2
August 7	2	10	3	2
August 8	11			2
August 9	5	3	3	2
August 10	10			2
August 11	8			2
August 12	4	6	3	2
August 13	3	7	3	2

DATE	D-7 CAT HOURS	680 DIESEL BACKHOE HOURS	4" PUMP HOURS	4X4 TRUCK HOURS
August 14	2	7	1	2
August 15				2
August 16	10			2
August 17	7	2		2
August 18	11			2
August 19	11			2
August 20				2
August 21	11			2
August 22	7			2
August 23	2	8		2
August 24	3	7		2
August 25	1	9	4	2
August 26		9	2	2
August 27	2	7	1	2
August 28	6	3		2
August 29	2	6		2
August 30		10		2
August 31	1	7		2
September 1	2	4		2
September 2				2
September 3		10	2	2
September 4	4	5		2
September 5	8			2
September 6	5	2		2



DATE	D-7 CAT HOURS	680 DIESEL BACKHOE HOURS	4" PUMP HOURS	4X4 TRUCK HOURS
September 7	1	7		2
September 8	6			2
September 9	7	3		
September 10	6	1		
September 11	9			
September 12	7	2		
September 13	7			
September 14	10			
September 15	7	1		
<b>TOTALS</b>	<b>281</b>	<b>142</b>	<b>24</b>	<b>92</b>

DATE	OPERATOR: HOURS	LABOUR: HOURS
July 23	4	
July 24		
July 25	6	
July 26		
July 27	2	
July 28	5	5
July 29	11	11
July 30	10	10
July 31	9	9
August 1	10	10
August 2		
August 3	2	2
August 4	11	11
August 5	10	10
August 6	9	5
August 7	12	5
August 8	11	3
August 9	8	6
August 10	10	10
August 11	8	8
August 12	10	7
August 13	10	5
August 14	9	4
August 15		

DATE	OPERATOR: HOURS	LABOUR: HOURS
August 16	10	10
August 17	9	
August 18	11	
August 19	11	
August 20		
August 21	11	
August 22	7	7
August 23	10	10
August 24	10	10
August 25	10	10
August 26	9	9
August 27	9	9
August 28	9	9
August 29	8	8
August 30	10	10
August 31	8	8
September 1	6	6
September 2		
September 3	10	10
September 4	9	9
September 5	8	8
September 6	7	7
September 7	8	8
September 8	6	6

DATE	OPERATOR: HOURS	LABOUR: HOURS
September 9	10	10
September 10	7	7
September 11	9	
September 12	9	9
September 13	7	7
September 14	10	10
September 15	8	8
<b>TOTALS</b>	<b>423</b>	<b>326</b>

**EXPLORATION: GULCH PROJECT****EXPENDITURES****D-7 CAT:**

46 working days at \$85.00/hour  
includes fuel but not operator costs  
total of 281 hours

**\$23 885.00****BACKHOE:**

25 working days at \$65.00/hour  
includes fuel but not operator costs  
total of 142 hours

**9 230.00****4" PUMP:**

10 working days at \$10.00/hour  
total of 24 hours

**240.00****4X4 TRUCK:**

46 working days at \$10.00/hour  
total of 92 hours

**920.00****OPERATOR:**

49 working days at \$15.00/hour  
281 cat hours and 142 backhoe hours  
total of 423 hours

**6 345.00****LABOUR:**

41 working days at \$12.00/hour  
total of 326 hours

**3 912.00****TOTAL EXPENDITURES****\$44 532.00**

Pad sites along trail bottom  
end of gulch ▶



Making pads for test  
holes ▶



Pad sites (side of trail) ▶



"Trail pushing" creek to  
right of cat work ▶



Lost track ▶



Digging test holes "placer  
colors" ▶



Test trench ▶



Bedrock slicing out from the mountainside ▶



One of the test pit areas ▶





Checking old riverbed ▶



Culvert area ▶



Installing culvert ▶



Pushing trail upstream  
bypassing swampy area ▶



Making pads ▶



Cutting trail ▶



Pushing trail ▶



Pushing trail  
Creek to right of cat ▶



Digging trench pits ▶



Moving up trail ▶



"Pushing trail" ▶

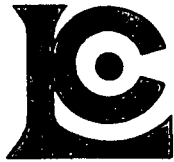


Examining creek  
(oxidization) vegetation very  
green, mineralization?  
(disseminated copper  
area) ▶



Start of gulch trail, note test  
pit behind worker  
Trail cleaned up end of  
season ▶





# Chemex Labs Ltd.

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To DOWNES LAURIE

P.O. BOX 4388  
 WHITEHORSE YT  
 Y1A 3T5

Project SUMMER  
 Comments

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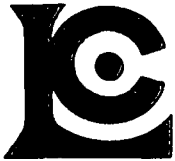
## CERTIFICATE OF ANALYSIS

### A9510358

SAMPLE	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	/	ppm	ppm	ppm	ppm	/	ppm	ppm	ppm	ppm	/	ppm	ppm	/	ppm	/	ppm	ppm
SOIL #01	201	229	< 0.2	1.51	< 2	330	0.5	< 2	0.55	< 0.5	7	24	16	1.82	< 10	< 1	0.06	10	0.43	740	< 1
SOIL #02	201	229	< 0.2	1.74	2	520	0.5	< 2	0.83	< 0.5	10	25	23	2.97	< 10	< 1	0.05	10	0.43	740	< 1
SOIL #03	201	229	< 0.2	1.66	2	490	0.5	< 2	1.05	< 0.5	5	24	23	2.22	< 10	< 1	0.08	10	0.44	470	< 1
SOIL #04	201	229	< 0.2	0.92	< 2	1310	1.5	< 2	0.67	0.5	13	17	23	4.72	< 10	< 1	0.16	10	0.22	1490	3
SOIL #05	201	229	0.2	0.60	64	340	1.0	< 2	0.40	< 0.5	14	16	23	3.73	< 10	< 1	0.12	< 10	0.10	470	2
SOIL #06	201	229	< 0.2	0.62	18	1050	1.0	< 2	0.48	< 0.5	15	13	28	4.92	< 10	< 1	0.10	< 10	0.12	640	8
SOIL #07	201	229	< 0.2	0.58	20	1280	0.5	< 2	0.32	< 0.5	6	8	19	2.11	< 10	< 1	0.10	< 10	0.08	150	5
SOIL #08	201	229	< 0.2	0.52	8	220	0.5	< 2	1.39	0.5	13	9	28	1.78	< 10	< 1	0.15	< 10	0.25	540	< 1
SOIL #09	201	229	< 0.2	1.25	6	270	0.5	< 2	0.46	< 0.5	6	21	12	2.57	< 10	< 1	0.07	10	0.30	340	< 1
SOIL #10	201	229	1.6	0.74	26	200	< 0.5	2	0.62	2.0	13	25	101	3.37	< 10	< 1	0.10	10	1.46	965	2
SOIL #11	201	229	2.8	0.49	46	110	< 0.5	2	0.63	1.5	20	27	118	4.02	< 10	< 1	0.10	10	1.51	1230	4
SOIL #12	201	229	< 0.2	0.78	14	790	1.0	< 2	0.59	< 0.5	11	10	55	3.98	< 10	< 1	0.12	< 10	0.12	380	2
SOIL #13	201	229	< 0.2	0.50	< 2	650	< 0.5	< 2	0.18	< 0.5	1	4	6	0.30	< 10	< 1	0.10	< 10	0.07	50	< 1
SOIL #14	201	229	0.2	0.54	48	300	1.0	< 2	0.36	< 0.5	14	14	23	3.18	< 10	< 1	0.12	< 10	0.10	645	2
SOIL #15	201	229	< 0.2	1.21	10	330	0.5	< 2	0.54	< 0.5	6	21	19	1.81	< 10	< 1	0.07	10	0.37	235	< 1
SOIL #16	201	229	< 0.2	0.46	90	500	0.5	< 2	5.58	0.5	10	6	15	3.95	< 10	< 1	0.06	10	1.24	1360	< 1
SOIL #17	201	229	< 0.2	0.65	2	170	1.0	< 2	0.56	< 0.5	9	11	21	3.49	< 10	< 1	0.09	< 10	0.08	290	4

CERTIFICATION

*Haut Becker*



# Chemex Labs Ltd.

Analytical Chemists Geochemists Registered Assayers  
212 Brooksbank Ave North Vancouver  
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To DOWNES LAURIE

P O BOX 4388  
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## CERTIFICATE OF ANALYSIS

### A9510358

SAMPLE	PREP		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		/	ppm	ppm	ppm	ppm	ppm	ppm	/	ppm	ppm	ppm	ppm	ppm
SOIL #01	201	229	0 01	12	630	14	< 2	6	48	0 06	< 10	< 10	42	< 10	54
SOIL #02	201	229	0 01	17	730	10	< 2	6	104	0 03	< 10	< 10	56	< 10	58
SOIL #03	201	229	0 01	15	730	12	< 2	7	97	0 03	< 10	< 10	51	< 10	66
SOIL #04	201	229	< 0 01	16	1130	32	< 2	13	63	< 0 01	< 10	< 10	66	< 10	98
SOIL #05	201	229	< 0 01	33	600	20	< 2	10	82	< 0 01	< 10	< 10	32	< 10	110
SOIL #06	201	229	< 0 01	24	1050	26	< 2	16	81	< 0 01	< 10	< 10	61	< 10	108
SOIL #07	201	229	< 0 01	10	550	22	< 2	9	99	< 0 01	< 10	< 10	39	< 10	52
SOIL #08	201	229	< 0 01	21	590	16	< 2	6	128	< 0 01	< 10	< 10	18	< 10	76
SOIL #09	201	229	0 01	12	530	8	< 2	6	38	0 03	< 10	< 10	50	< 10	62
SOIL #10	201	229	< 0 01	27	630	126	< 2	3	37	0 01	< 10	< 10	31	< 10	270
SOIL #11	201	229	< 0 01	36	590	62	< 2	2	48	< 0 01	< 10	< 10	25	< 10	308
SOIL #12	201	229	< 0 01	18	1170	22	< 2	15	54	< 0 01	< 10	< 10	54	< 10	82
SOIL #13	201	229	< 0 01	2	80	16	< 2	3	38	< 0 01	< 10	< 10	6	< 10	12
SOIL #14	201	229	< 0 01	28	460	24	< 2	8	74	< 0 01	< 10	< 10	22	< 10	102
SOIL #15	201	229	0 01	15	590	12	< 2	5	54	0 03	< 10	< 10	42	< 10	54
SOIL #16	201	229	< 0 01	13	1590	12	< 2	8	380	0 01	< 10	< 10	43	< 10	88
SOIL #17	201	229	< 0 01	12	1300	18	< 2	12	49	< 0 01	< 10	< 10	45	< 10	84

CERTIFICATION

*Hart Buchler*



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To DOWNES LAURIE  
 P O BOX 4388  
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## CERTIFICATE OF ANALYSIS A9510359

SAMPLE	PREP CODE	Ag ppm	Al /	As ppm	Ba ppm	Be ppm	Bi ppm	Ca /	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe /	Ga ppm	Hg ppm	K /	La ppm	Mg /	Mn ppm	Mo ppm
ROCK #01	205 226	< 0.2	1.42	< 2	260	0.5	< 2	0.91	< 0.5	4	44	7	2.48	< 10	< 1	0.13	10	0.73	940	1
ROCK #02	205 226	< 0.2	1.20	< 2	550	0.5	< 2	2.79	< 0.5	4	28	10	2.53	< 10	< 1	0.11	10	0.78	1380	< 1
ROCK #03	205 226	< 0.2	1.26	< 2	190	0.5	< 2	4.62	< 0.5	6	21	1	3.17	< 10	< 1	0.20	10	1.13	1055	1
ROCK #04	205 226	< 0.2	2.00	8	2340	0.5	< 2	0.55	0.5	13	22	16	5.10	< 10	< 1	0.05	10	0.09	2170	2
ROCK #05	205 226	0.4	2.37	68	260	0.5	< 2	0.27	0.5	22	398	80	3.89	< 10	< 1	0.16	< 10	0.09	1135	29
ROCK #06	205 226	0.2	0.80	30	1980	1.0	< 2	4.27	< 0.5	10	29	17	8.41	< 10	< 1	0.23	< 10	1.36	2100	< 1
ROCK #07	205 226	< 0.2	0.82	4	90	< 0.5	< 2	0.02	< 0.5	< 1	292	7	0.39	< 10	< 1	0.09	< 10	0.02	45	1
ROCK #08	205 226	< 0.2	2.56	6	710	0.5	< 2	2.57	< 0.5	4	42	9	2.33	< 10	< 1	0.50	20	0.71	650	< 1
ROCK #09	205 226	< 0.2	1.35	4	790	0.5	< 2	6.76	< 0.5	6	17	6	3.24	< 10	< 1	0.17	< 10	2.08	1435	< 1
ROCK #10	205 226	< 0.2	1.17	< 2	210	< 0.5	< 2	0.07	< 0.5	1	113	6	0.22	< 10	< 1	0.16	< 10	0.03	65	< 1

CERTIFICATION

*Hart Buchler*





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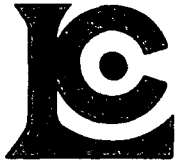
## CERTIFICATE OF ANALYSIS

### A9510359

SAMPLE	PREP		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		/	ppm	ppm	ppm	ppm	ppm	ppm	/	ppm	ppm	ppm	ppm	ppm
ROCK #01	205	226	0 11	6	870	6	< 2	4	91	0 03	< 10	< 10	50	< 10	70
ROCK #02	205	226	0 04	4	1230	2	< 2	7	161	< 0 01	< 10	< 10	45	< 10	62
ROCK #03	205	226	< 0 01	3	1150	6	< 2	9	364	0 01	< 10	< 10	78	< 10	68
ROCK #04	205	226	< 0 01	18	1400	10	< 2	14	55	< 0 01	< 10	< 10	100	< 10	146
ROCK #05	205	226	< 0 01	90	550	24	< 2	16	24	< 0 01	< 10	< 10	104	< 10	134
ROCK #06	205	226	0 01	42	580	14	< 2	14	446	< 0 01	< 10	< 10	62	< 10	130
ROCK #07	205	226	< 0 01	7	40	8	< 2	1	14	< 0 01	< 10	< 10	10	< 10	8
ROCK #08	205	226	0 09	5	830	8	< 2	3	172	< 0 01	< 10	< 10	33	< 10	58
ROCK #09	205	226	0 01	7	990	6	< 2	9	343	< 0 01	< 10	< 10	55	< 10	78
ROCK #10	205	226	< 0 01	3	30	12	< 2	1	14	< 0 01	< 10	< 10	10	< 10	6

CERTIFICATION

*Hart Beckler*



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P O Number  
Account LND

## CERTIFICATE OF ANALYSIS A9511423

SAMPLE	PREP CODE	Au ppb FA+AA										
SOIL #01	244 --	< 5										
SOIL #02	244 --	< 5										
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SOIL #04	244 --	< 5										
SOIL #05	244 --	< 5										
SOIL #06	244 --	< 5										
SOIL #07	244 --	< 5										
SOIL #08	244 --	< 5										
SOIL #09	244 --	< 5										
SOIL #10	244 --	< 5										
SOIL #11	244 --	< 5										
SOIL #12	244 --	< 5										
SOIL #13	244 --	< 5										
SOIL #14	244 --	< 5										
SOIL #15	244 --	< 5										
SOIL #16	244 --	< 5										
SOIL #17	244 --	< 5										
ROCK #01	244 --	< 5										
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ROCK #03	244 --	< 5										
ROCK #04	244 --	< 5										
ROCK #05	244 --	< 5										
ROCK #06	244 --	< 5										
ROCK #07	244 --	< 5										
ROCK #08	244 --	< 5										
ROCK #09	244 --	< 5										
ROCK #10	244 --	< 5										

CERTIFICATION *Frank Vank*