Renewal Certificate Date:
"IN" Grouping **#HD03216**
2011

Test Pit & Sampling Report
(July to October 2011)

Nugget and Paradise Hills bedrock Sampling & Mapping
General Claims Prospecting

Dawson District: Maps 116B03 & 115014
Utm to Access, (behind Bear Creek):
07V 0586300/ 7101000
(Or at the mouth of Hunker Creek Road)

Claims Owner: Sylvain Montreuil
Report Compiled by: Erini Petroutsas

Grouping Info and claim tag numbers

List of claims with tag #'s: **Fuchite, Waste Vein & IN properties**

Fuc1 - 2	YD11928 - 929	
Fuc3 - 5	YD129018 - 9020	
Fuc6	YD89575	
Fuc7	YD89573	
Fuc8	YD89576	
Fuc9	YD89574	
Fuc10	YD11950	
Fuc11	YD11948	
Fuc12	YD89589	
Fuc13	YD11949	
Fuc14	YD89595	
Fuc15 - 16	YD89593 - 594	
Fuc17	YD89592	17 claims
FucF	YD89565	
FucU	YD89566	
FucC	YD89567	
FucH	YD89568	
FucI	YD89569	
FucT	YD89570	
FucE	YD89571	7 claims
Fuc O2- Fuc O8	YD89578 - 584	
Fuc O11	YD11947	
Fuc O12	YD11946	
Fuc O13	YD89597	
FucO14	YD89596	
FucO15- FucO16	YD89590 - 591	
FUCOX	YE71341	
FUCMIN	YE71342	14 claims
Eight 0 - Eight 9	YD90434 - 443	
EightGap	YE71379	
LIND 3	YD129021	
LIND 5	YD129022	13 claims

51 claims in grouping # HD03218

Not Grouped yet: Eight18-24 (8); FucGulch, Henry, MIN, Ox (4)

63 claims

IN1	YD92490
IN2 -IN10	YD92492-YD92500
IN11 - IN36	YD93401-YD93426
IN37 - IN46	YD93487-YD93496
IN47 - IN48	YD93499-YD93500
IN49 - IN50	YD90471-YD90472
IN 51-IN66	*2012 staking*
IN67 - IN74	YD129040-YD129047
IN75 - IN83	YD93469-YD93477
IN84 - IN98	YD93427-YD93441
IN99	YD93450
IN100 - IN107	YD93442-YD93449
IN108 - IN125	YD93451-YD93468
IN126 - IN134	YD93478-YD93486
IN135 - IN143	YD90473-YD90481
IN144 - IN156	YD92251-YD92263
IN157 - IN166	YD129001 - YD129010
IN167 - IN173	YD129001-YD129017
INDEPEN - DANCE(fractions)	YD93497-YD93498

175 claims. Plus new 2012 staking…

Currently Grouped with:

Waste 1-33	YD90401-YD90433
Waste34	YD92489
WasteSuprise35	YD102301
W36	YE71377
Waste37	YE71315
WasteLCF(Last Chance fraction)	YE71380
WF(38)	YE71378

38 claims

197 claims in grouping #HD03216 (2011)

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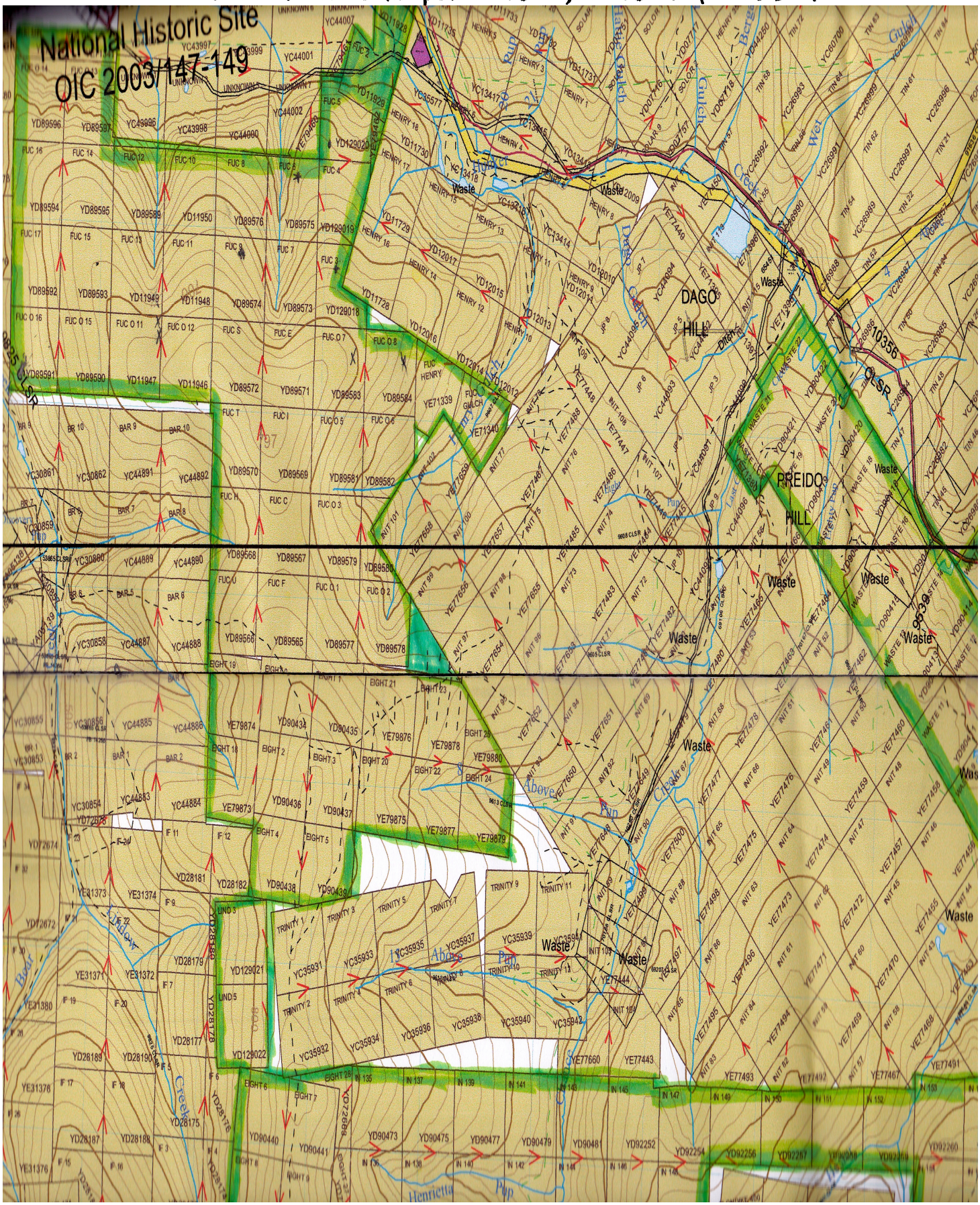
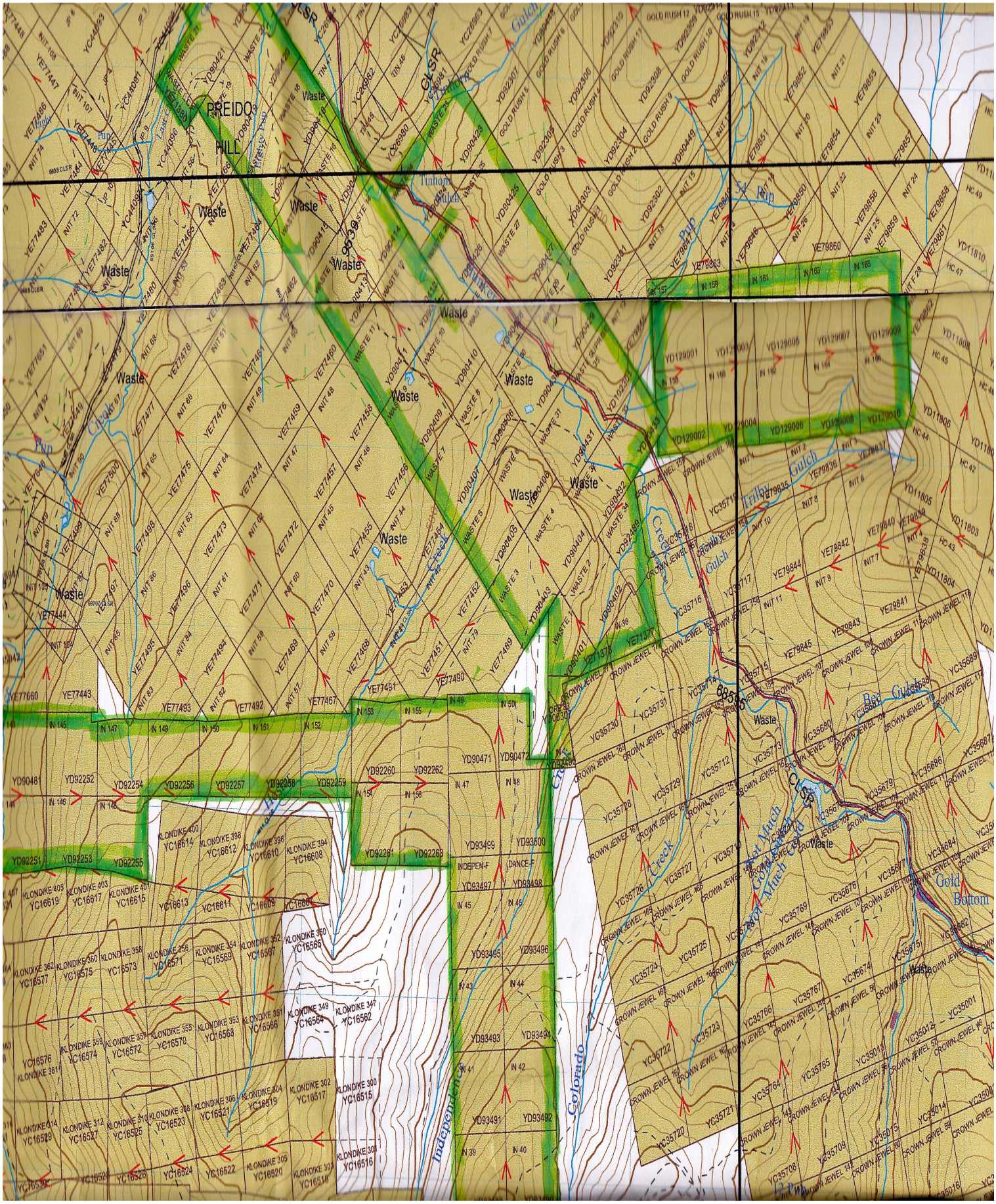
2011 Claims Maps: 116B03, 116B02 & 115014

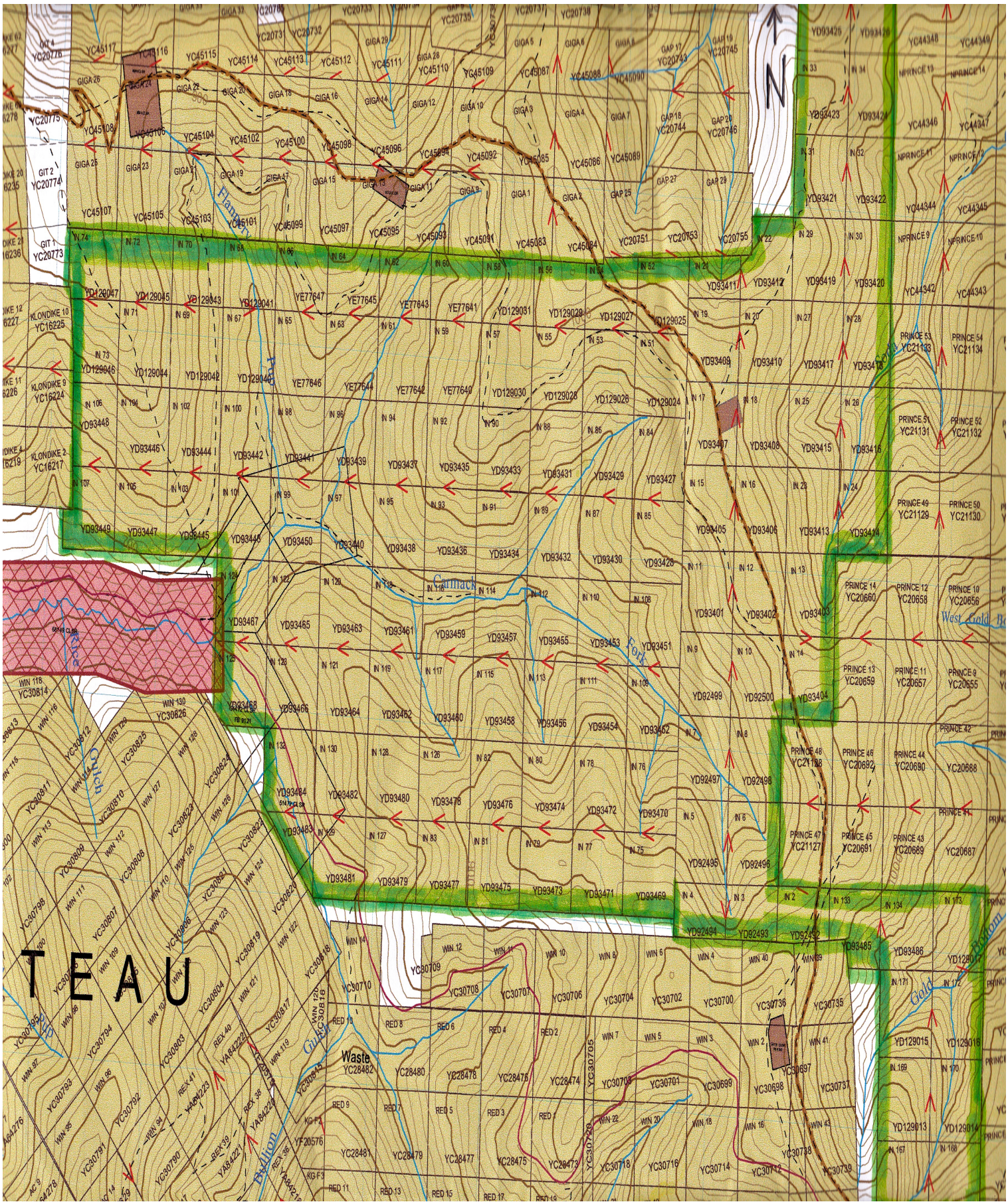


Map# 116B03 Bear to Last Chance Creeks.

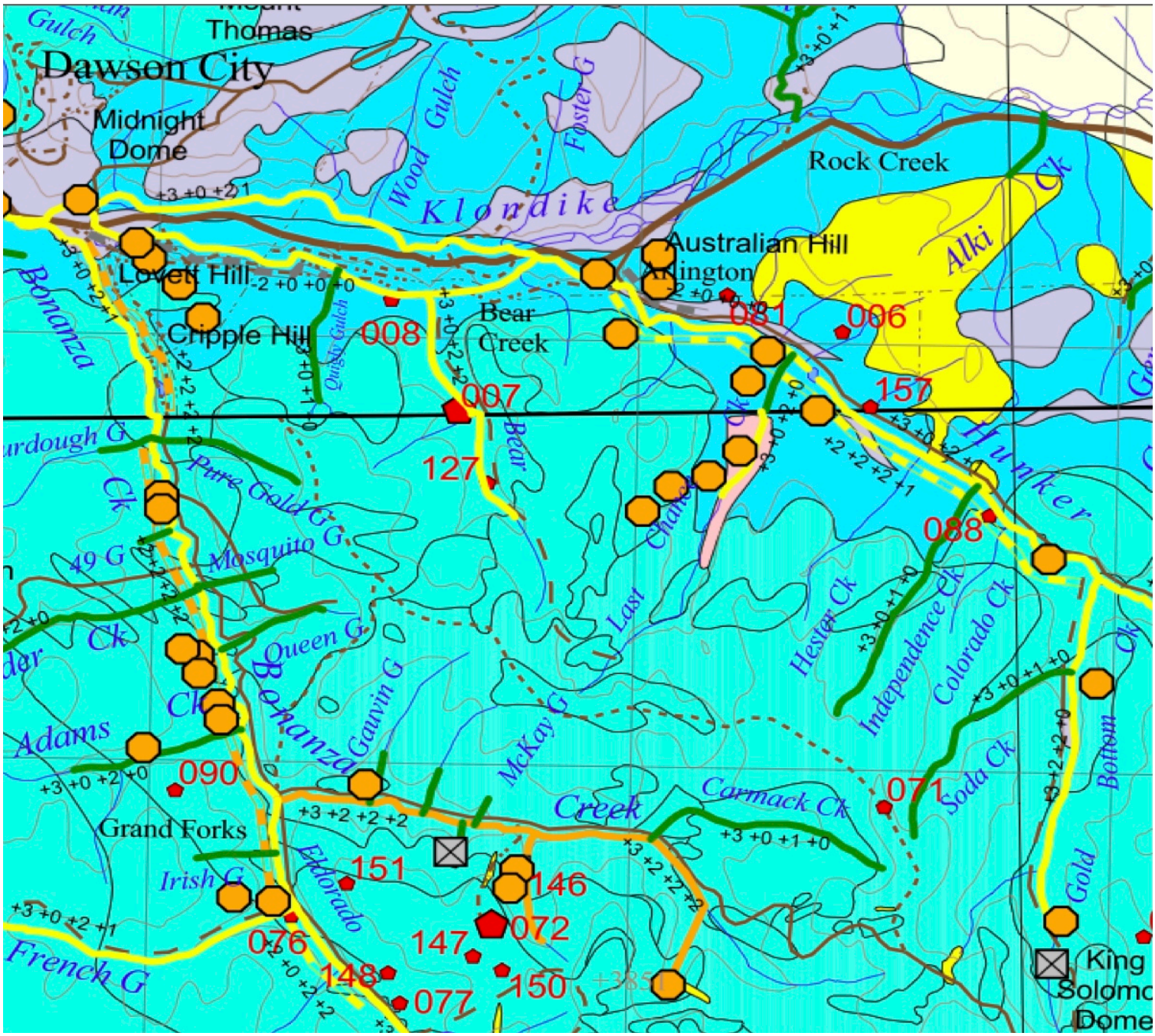
Claims continue south to Henrietta Pup.



116B02 east. Hester Creek & Volcanic Intrusive contact zone.
Continues south up Colorado & Independence Creeks to Carmacks Fork.



115O14 – CarmacksFork & GoldBottom.
(Lone Star Occurrence #072 minfile; directly south West.)

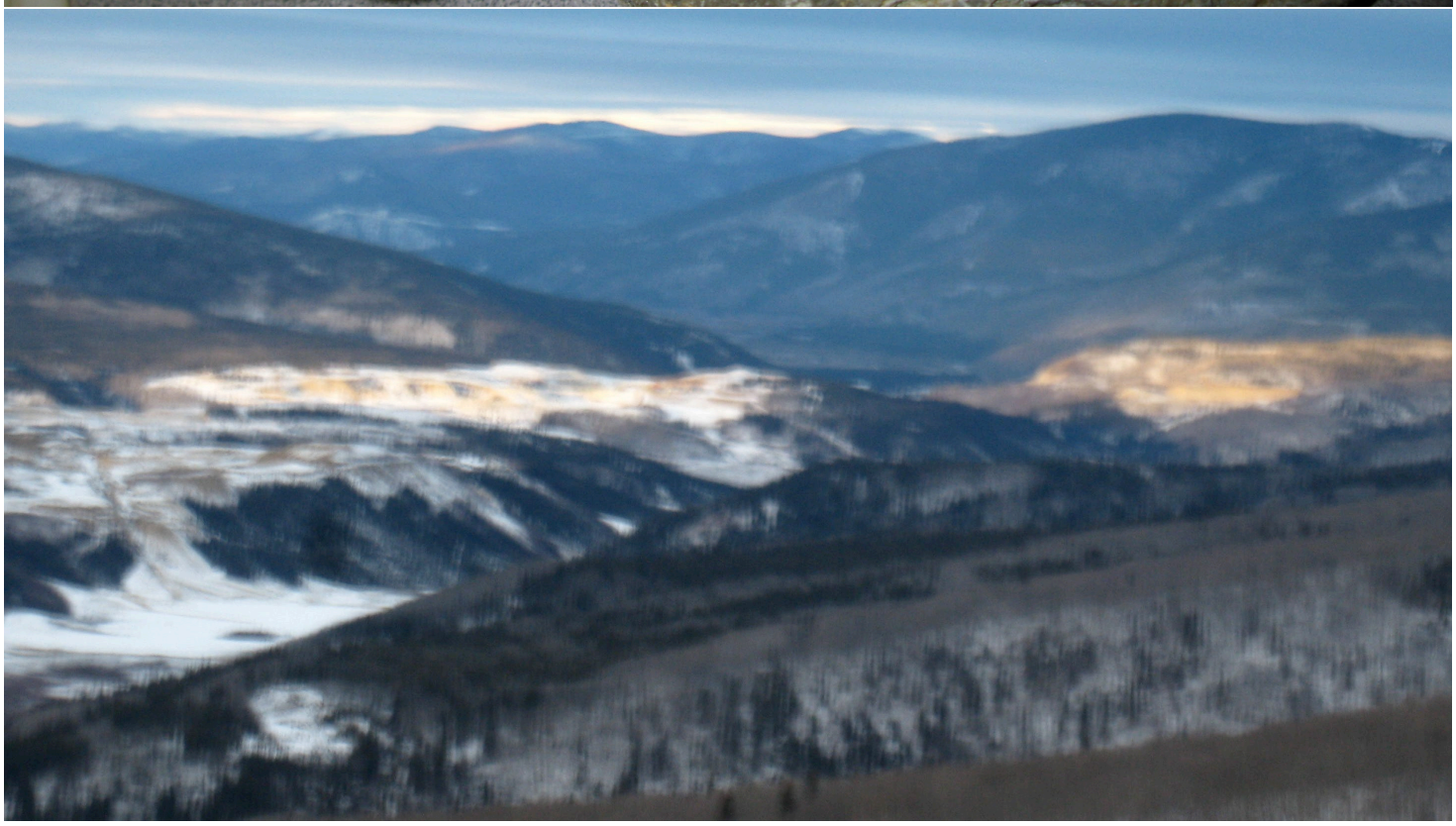


(2002 Gold Potential Appraisal Map. Lowey, Deforest & Lipovsky. Stuart River Placer Project)
Quartz claims in this group cover: Head of Gold Bottom Creek, Soda & Carmack Creeks. All of Independence & Hester Creeks and most of Last Chance to Bear Creeks.

This is the Heart of gold country in the Yukon. Producing in the past 100 years the most gold per area in all the world. Also largely unexplored with regards to hard rock mining. As the placer has been so plentiful here, no noticeably significant effort has really been made to track anything below surface, (except for King Solomon's Dome which was a load gold producer for many years).

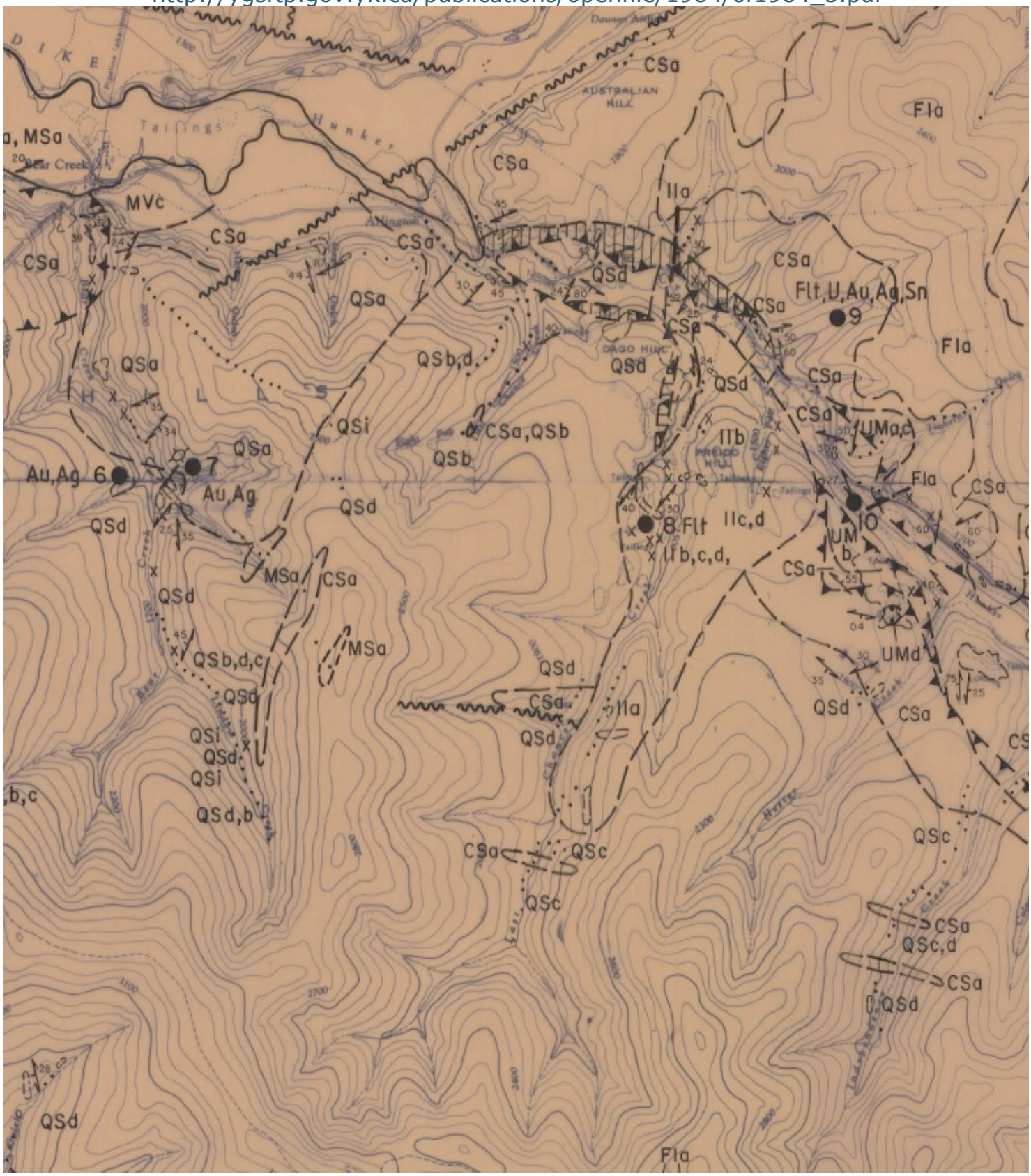
The "yellow" body north of Hunker at Tinhorn is a large intrusive volcanic dyke; Rhyollite tuff? See photo next page.
Historically, Klondike Schist Subterrane has been the predominant host for lode occurrences on the Klondike Plateau.

Granite/Basalt from the top of Tinhorn Gulch. Parameter of intrusive.

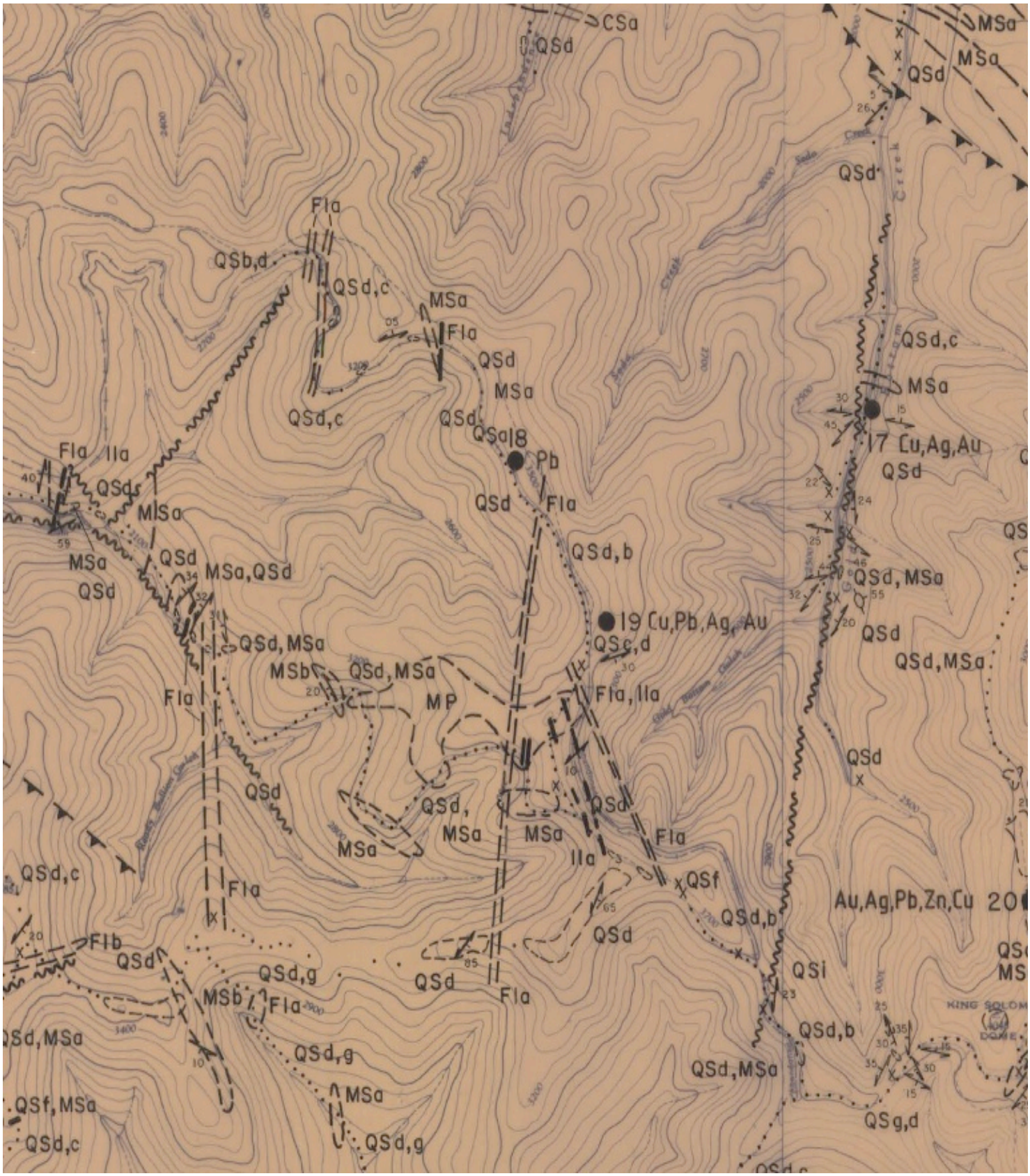


Waste claims, (named for the overburden or waste already removed), stretch south from Hunker & cover Nugget & Paradise Hills. (Picture taken from the top of TinHorn Gulch.)

Please follow link to see complete map and descriptions of the 35 "known" mineral occurrences in the Klondike area as of 1983 by R.L. Debicki.
http://ygsftp.gov.yk.ca/publications/openfile/1984/of1984_3.pdf



FUC H & U claims covers recorded mineral occurrence **7** - **Gordon** (*malachite, azurite iron, chalcopyrite & galena in both quartz and schist*) and border **6** - Virgin Jean where quartz is recorded running at 25.5 g/t Au. Please see full information at bottom of above linked map.



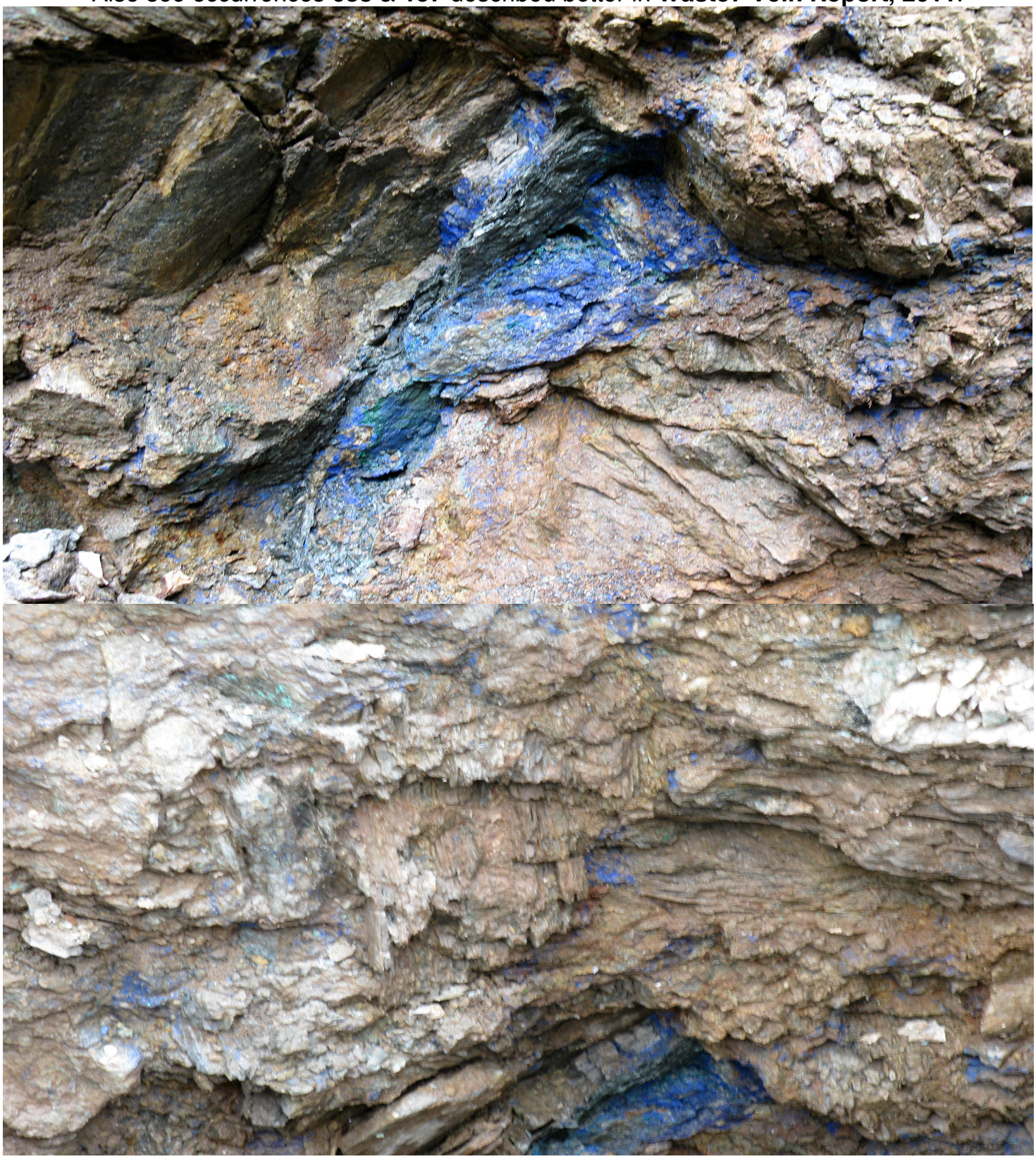
IN6 borders - **19** - **Boxcar** (*on Shawn Ryan's Prince 47*) where a sample of galena bearing schist collected in 1983 contained 202 g/t Ag and 8.77% Cu.
Pictures of malachite/azurite ores shown next page, are from the border of the Prince claims with claim **IN133***, at the southern edge of the block*).

18 - **Keynote** - On claim **IN13**, is "*a massive white quartz vein with galena*."

Occurrence **9- Unexpected** - On claim TIN52, bordering **Waste 22**. "*Quartz feldspar porphry contains traces of purple flourite, uranium anomalies and Au*", though it doesn't state how much.

8- Bremner- On claim Ore 51, "*Andesitic lava flows, argillic alteration hots veinlets of bluish chalcedony, banded flourite, moderately anomalous amounts of mercury and barium*."

***Also see occurrences **088** & **157** described better in **Waste7 Vein Report, 2011**.



Head of Soda Creek, In Claims

The Klondike Goldfields, unique as an area that has not undergone glaciation during the last 3 ice ages. Leaving the smoothly rolling hills, comprised of broken quartz, to have been formed through uplift alone. Due to proximity near the Tintina Fault (border seen in picture above ~ mountains of the Tombstone Range**). Our hypothesis is that continuous fault activity is what has been circulating the gold rich fluids through the hard-rock of this particular region.**

This project is obviously in an early development, however, if you can look at a current project and development map of the Yukon, you will see that every many projects listed as giving good results are on or nearby one of these “old showings”. People just did not have the time or technology the past century to delve in too deep, and during most of the 80’s and 90’s until a few years ago the price of gold made it unfeasible to mine hard-rock, while the placer has been so readily available. We have observed, with a field professional (Kevin Brewer), placer miners **currently mining the decomposing bedrock** until it’s to hard to break, (on Dominion & Hester Creeks)

This ground is almost virgin from a hard rock perspective and sits in the middle of some of the primest gold producing property of the world. The cost of removing overburden has been taken care of by the previous placer miners who have taken **tons** of **possibly precipitated** gold from here.

What we have been piecing together working on concurrent projects focusing on this area, is that we have a shallow surface system, (that is definitely on an active hyrdrothermal zone), which likely has produced the placer gold recovered here for the past 130 years.

To which depth this system continues is the question. However from an economical standpoint, the next step to mining such a system is to begin at the surface. The placer miners can be observed now paying for their operations out of definitive decomposing bedrock. Begin mining this bedrock in targeted areas, while testing deeper at the same time.

As prospectors with very focused local experience and by processing bulk rock samples on site, our involvement with you will prove nothing but positive and economically viable.

*FUCHSITE: The chromium bearing variety of muscovite mica, generally found in concentric, curved aggregates and as flakes. The intensity of it's color depends on the chromium concentration. Fuchsite is found where hydrothermal solutions have replaced carbonates in gold deposits, and in metamorphic rocks, in corundum and staurolite schists.[1]

Bedrock outcropping's found on the bottom of a placer mining pit on claim **FUC 2**, near mouth of Hunker Creek. The rock shows a intense chromium staining with higher calcite content.

Hydrothermaly altered "fuchsite" and quartz from **BenLevi** Waste23 & 24.

[1] Smithstonian Institute. Rock & Gem. Ronald L. Bonewitz. DK Publishing 2005. Page 263.

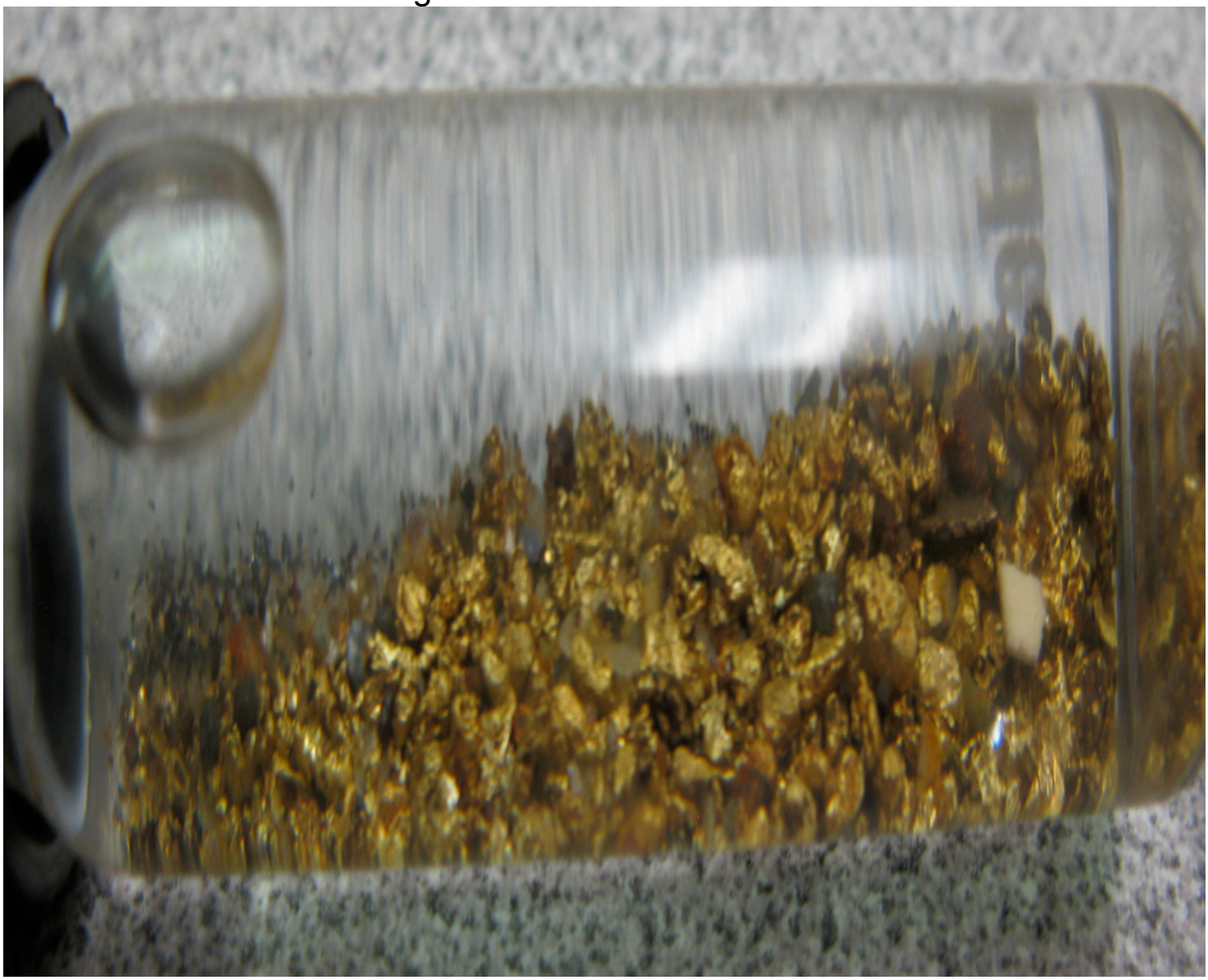
{Directly off Hunker Creek Road at it's Klondike Highway Access, at a depth of 50 meters uncovered by placer mining (T.A. Oilfields, Morrister) 2012. Bedrock of fuchsite and quartz veinings, with well formed pyrites and sulfides. **More information will come from the 2012 sampling of this opened bedrock system with Boris Molack PhD & his geologist assistant.}**

Chromium/Arseno stained (carbonate quartzite) sourced from FUC07 claim produced gold seen on following page. Chalcopyrite and arsenopyrite visible on rocks surface.

Sample F07, 2011 prospecting. Broken Bedrock bordering a large quartz vein outcrop (F07Qv sample result page 73).

The gold retrieved from the rock above, 2 km's away from the fuchsite pit on **Fuc1** (49 & 71 ppm Au bedrock samples), reinforces the hypothesis of a native rock source supplying the very rich placer of this particular area, and also enlarges the possible enrichment zones of the property. (Page 65 for assays).

Pictured pannings were recovered from the crushing and pulverization of an **18 pound bulk** of above rock specimens taken from Claim **Fuc07**, near 2011 sample FucChlo (180 ppbAu outcrop sample) As this rock type was sampled from the torn-up tailings of placer activity, further investigations by test pitting will be done during 2012 to locate the exact bedrock source.



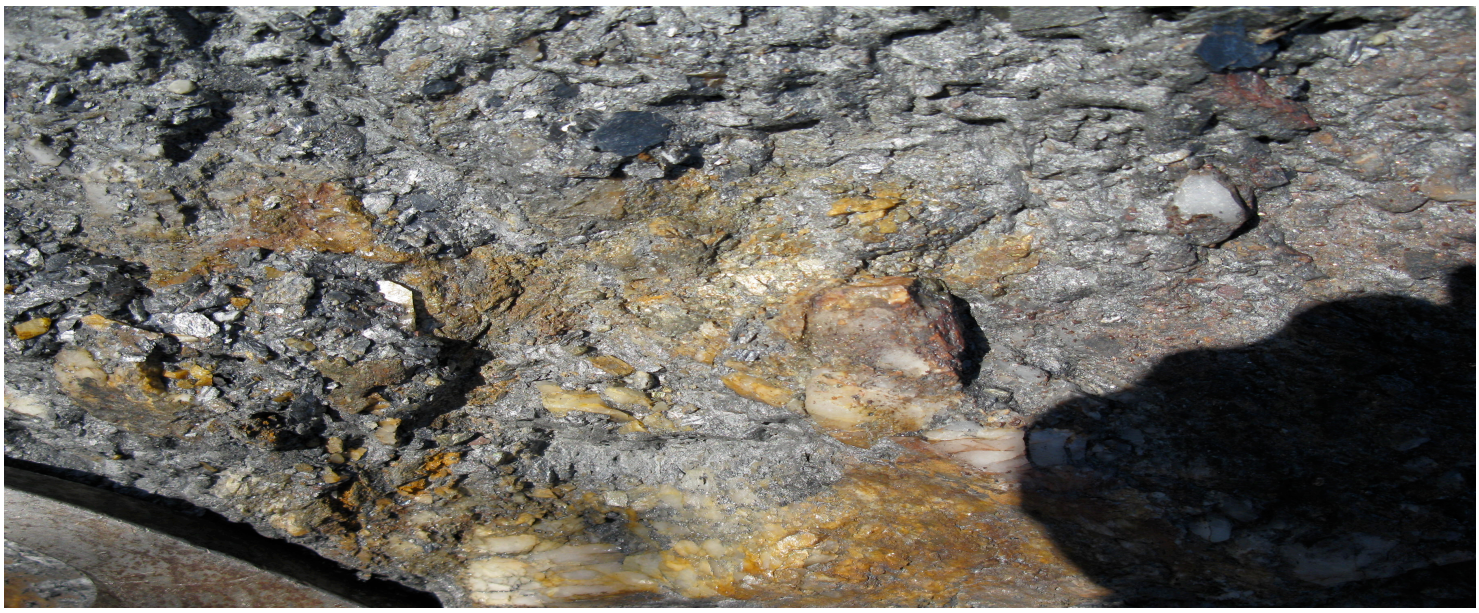
Picture of gold recovered from hard rock, claim FUC07. Picture taken in maco mode of a **2 inch vial**.

{Some Assay mesh testing can throw out heavy gold as it does not pass through the max mesh size.}

Bedrock samples taken at placer pit on claim **FUC1**, (sample F2Graph) mouth of Hunker; Graphitic fault composition very similar to **Waste7** vein, shown next pages and in the "Waste Vein" Report Spring 2011.

Copper & gold colored pyrites also from bedrock of claim **FUC1** (sample **Fuc2Graph ~49 ppb Au - rock**. Page 76 for location and assay testing).

Waste 7 claim. **Initial outcrop discovery**. Arsenopyrite sheathed quartz vein “cleaned” by semi recent placer mining, left alone when miners ceased operation. There was a drilling program publicly announced near this area in the early eighties, but because of company issues the drilling did not occur and was therefore never recorded.

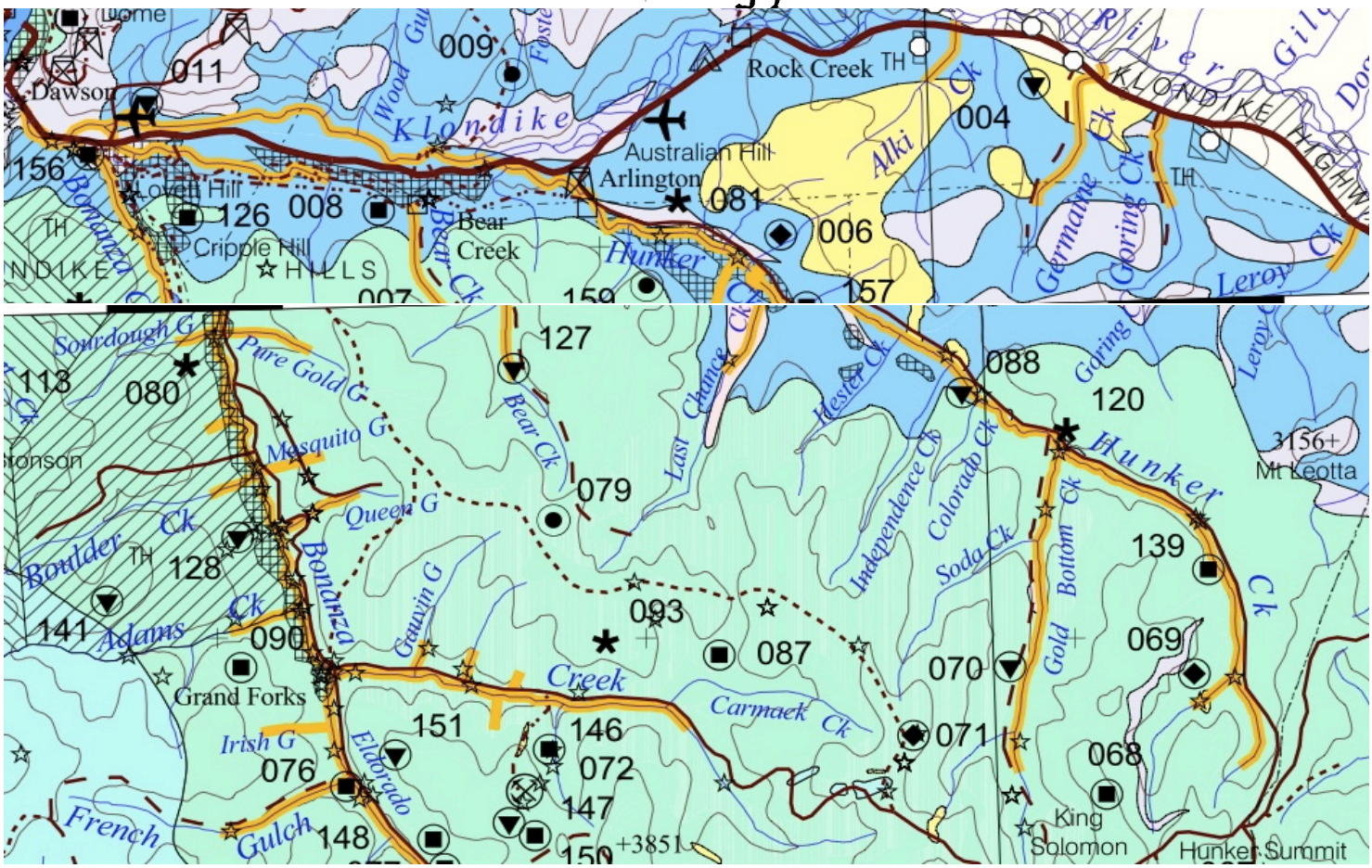


Samples taken while trenching this vein (spring 2011), yielded: **3.5gram/ton & 1.4gram/ton Au assay results. Also retrieved were 4 assay results of >10 gm/ton Au and 1 of 2.18 gm/ton out of 6 test samples sent from this vein system**. The reject pulp of the three (possible to retest,) returned **9.2, 12.9 & 34.1gram/ton Au**. See waste vein report for certificates & details.

Something that becomes apparent searching through recording reports is how little focus has been invested in this area on it's hard rock potential. This has been due to the ease of placer availability, however now as more gravel deposits have been moved aside, native rock formations are easier to observe than ever before.

There is also a current disputing of the placer deposition hypothesis; which was theorizing gold deposits in the stream beds came from an area outside the goldfields, when in fact the Klondike Plateau is distinct as an area that has not undergone glaciation for the past three recorded ice ages and would be producing gravels during that time, through uplift alone which was then largely undisturbed along hill tops, carried by the creeks -but not for very long distances. This is proven by the coarseness of much of the gold found in creeks and also by the fact that placer miners most reliably find the most of their gold directly at the point where bedrock meets gravel.

Geology



Blue- Nasina Subterrrane- Metamorphosed Paleozoic continental margin with superposed Late Devonian and Early Mississipian arc volcanic and plutonic rocks.
Green- Klondike Schist Subterrane- Metamorphosed upper Paleozoic arc volcanic rocks.
Yellow- TVS- Tertiary felsic to mafic volcanic rocks with interbedded terrestial sedimentary rocks.
Pink- uKv- Upper Cretaceous mafic and lesser felsic volcanic rocks, mostly Carmacks Group
(See Mineral Occurence Map 2004. Yukon Geological Survey. Yukon Government.)

Official MinFile Report excerpts:

Drilled Prospect -157- Mouth of Tinhorn Gulch. Ben Levy. Au Vein.

Waste23-25

"The area is underlain by strongly sheared and deformed carbonaceous phyllite and phyllitic quartzite (Devonian Nasina Series), and imbricate thrust slices of altered ultramafic rocks. On the northeast side of the property, the phyllites are intruded by a large body (or intense dyke swarm) of quartz-feldspar porphyry (Early Eocene age). Immediately southwest of Hunker Creek, phyllite and ultramafic rocks are cut by scattered mafic dykes. The ultramafic rocks show intense silica-carbonate alteration and now consist largely of quartz, ferroan carbonate and chrome-mica. The alteration predated the latest shearing in the area.
The Ben Levy occurrence consists of a vein at least 5 m thick, which cuts carbonatized serpentinite on the northeast side of Hunker Creek. The vein appears to dip moderately to

the northeast and consists of 1-5 mm bands of comb-textured iron carbonate with rare interbands of clear fine-grained quartz. Vuggy cavities lined with quartz crystals occur locally, and angular fragments of carbonatized serpentinite and carbonaceous schist occur within the vein.
Newspaper accounts of 1901-02 report that the adit and inclined shaft cut a quartz vein 14 m thick at three different levels to a maximum depth of 50 m below the surface of the hill. Vein material was reported to assay from 29.8 to 270.2 g/t Au and up to 54.9 g/t Ag."
LATITUDE: 64° 0' 3"
LONGITUDE: 139° 3' 39'
The BenLevy occurance was re-located this summer and we are waiting for results from the sampling shown below. The area consists of highly hydrothermaly altered and carbonate altered greenstone. See sample locations page 51.

Anomaly-159- Stutter- Trace commodities of Antimony,Arsenic, Barite, Gold.
Ore 36. (2012 staking target.)
"Both the veins and the associated alteration zones are considered to be the products of an epithermal system of Quaternary age." DIAND (Exploration statement 1985)

Showing -88 - Trilby- Vein. Independance Creek. Waste34

"The area is underlain by strongly sheared and deformed Nasina series carbonaceous phyllite and fine-grained quartzite (DMsqc) containing abundant barren quartz stringers and local disseminations of pyrite. Immediately south of the occurrence, a thrust fault places mid Permian Klondike schist assemblage chlorite schist and micaceous quartzite (unit Psc) onto the carbonaceous sequence.
Early work was directed toward gold-bearing quartz veins. An 1899 newspaper account reported that an assay of 92.6 g/t Au had been obtained from a quartz vein on the Marguerite claim but this was never substantiated.
The 1984 drilling intersected 6.1 m grading 0.37 g/t Au and 8.4 g/t Ag on the Hun 144 cl but other holes returned low values. Faith Mines directed its efforts towards a northwest-trending thrust fault, which is thought to be a possible conduit for placer gold in the area. A total of 150 soil samples were collected at 25 m spacing from two lines located on top of a bench overlooking Hunker Creek. The area directly over the thrust fault was not sampled due to placer activity. Each sample was tested by fire assay for Au and by 32-element ICP. None of the samples returned anomalous values. "
***This claim has been actively mined by placer miners continuously for the past 100 years.**

Waste "vein"- On hillside near Hester Creek.

Waste 7.

Previously unrecorded anomaly. Uncovered by extensive placer activity to bedrock, and further trenching done by claim holder Sylvain Montreuil. May 2011 & (2012). See report "Waste Vein Spring 2011".

Fall 2011 Test Pits & Sampling.

TB1- Independence Creek. ~ 6 ppbAu; 57 ppmAs; 150 ppmBa; 13 ppmCr. Near 088 occurance.

*Various sulfides visible on rock. See sample descriptions starting page 55. Assay results did not indicate, however further research will be done in this area.

In Test Pits 1-6 (No samples sent for assay)

In4 (Rhyollite?) walls bordering graphite & graphitically altered zones of unknown rock type.

Nugget Hill

Previous placer pit, east top of Nugget Hill, illustrates the current “giant placer” theory developing for hard-rock lode gold, in the Klondike. Placer miner (Dave Brickner) reports quartz boulders of 30 foot width recovered while mining the decomposing surface of an obviously local bedrock system. Considering the width & girth of the quartz veins observed here, it *appears* to be the source of most of the hillside white channel gravels that were sitting on these hills.

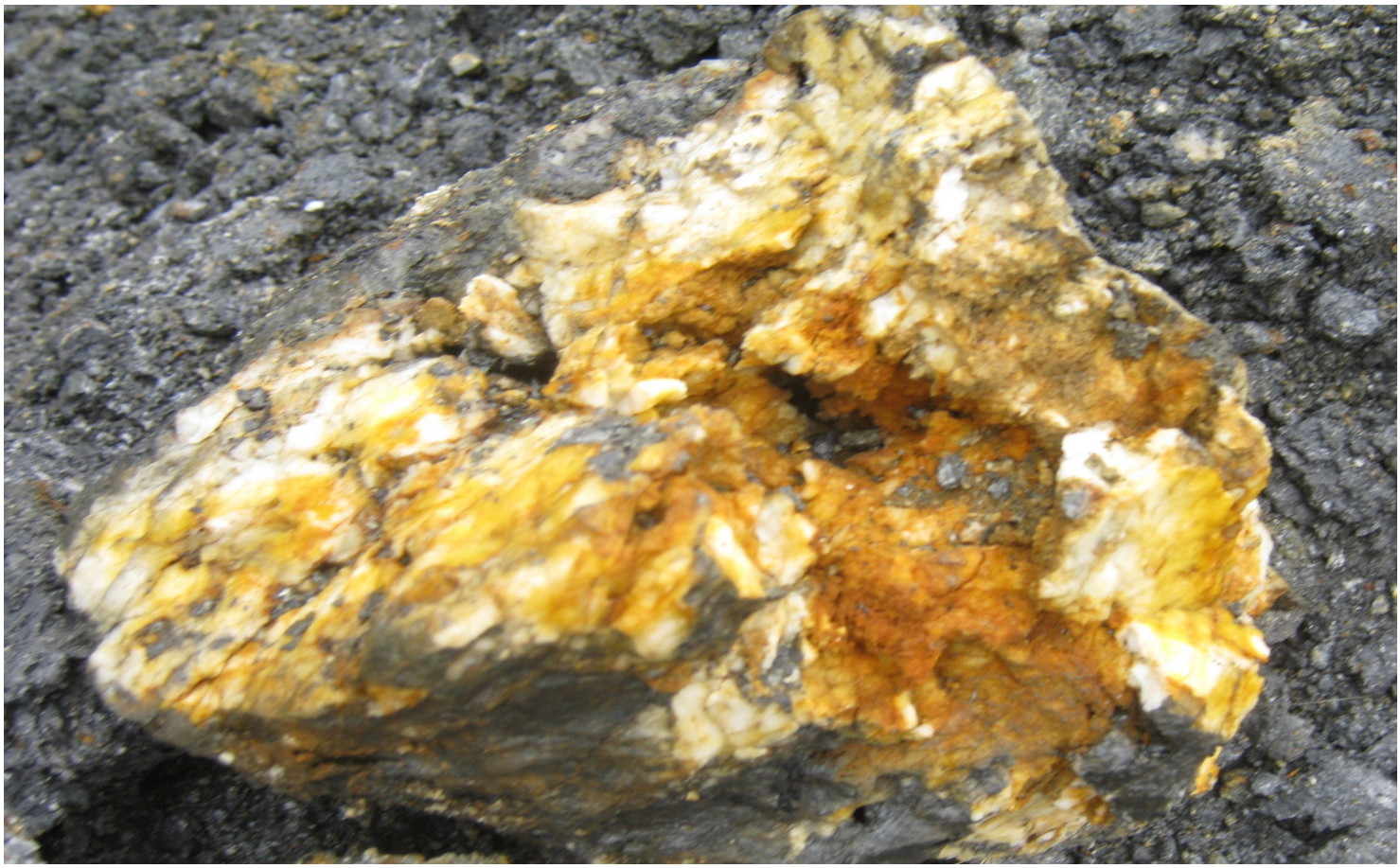
NH1. Nugget Hill

NH2

NH2 Sample

NH3 &4. (Rock sample NH3-1&2 assayed at 9 & 8 ppb Au; 192 ppmAs; 790 ppmBa; 52 ppmCr.)

NH4 Samples **NH4&5** assayed trace gold amounts at **2 & 6 ppbAu** when tested by 5A neuron analysis.



NHw4qFe Sample

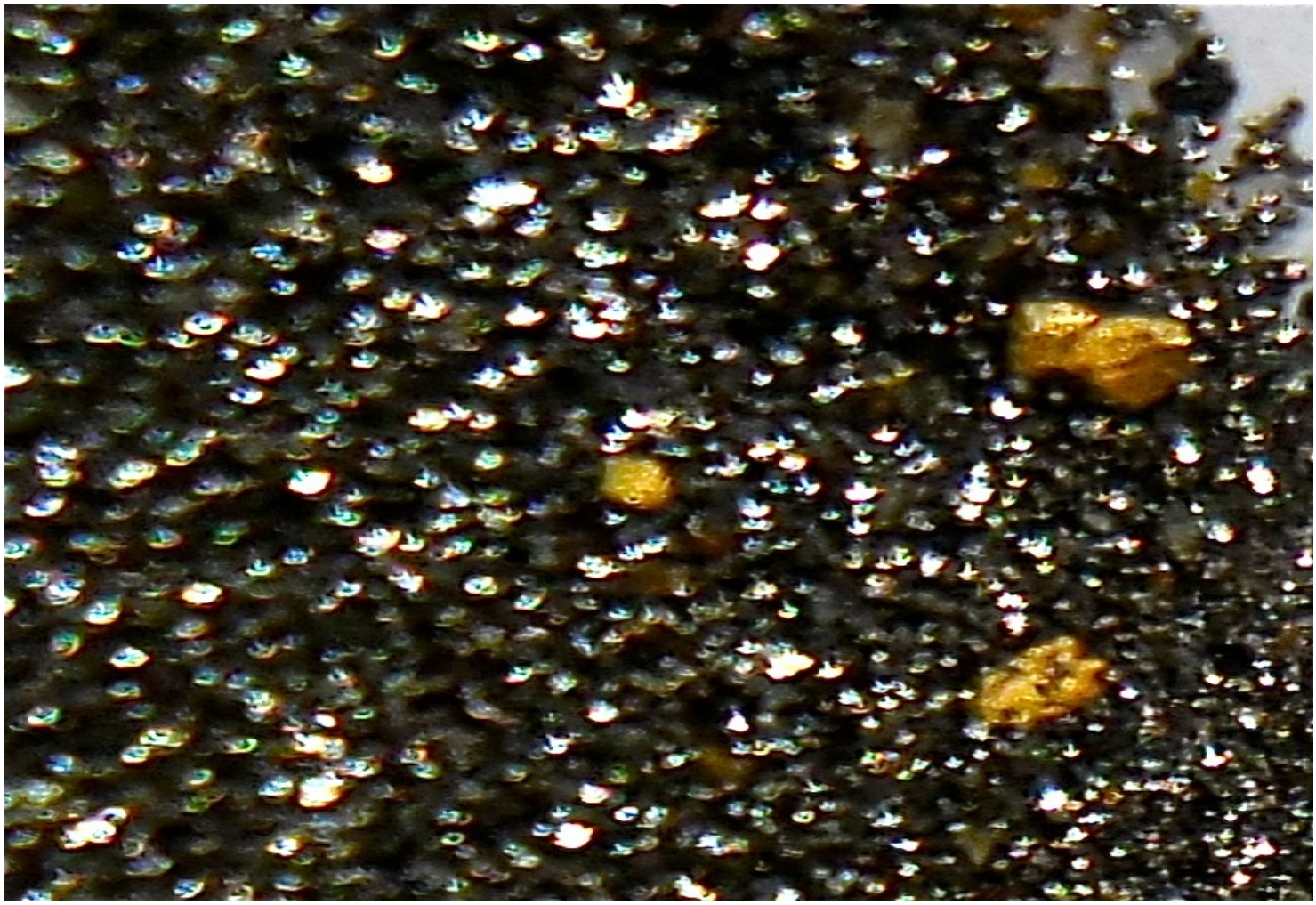
"Fingers Pit" on Waste4 Claim. (2012 report for more details.) Prospecting samples were taken during 2011 & pulverized/panned during 2012 by the prospector and assistant, revealing small pieces of coarse gold pictured in the following pages. As placer mining was active in this pit during 2012 a cohesive rock-sampling plan was not implemented there, but will be done during 2013. See 2012 report on Waste4 DaveBrickners Pit visible gold for recovery locations and further mapping of this "unique" bedrock system.

Pic from same pit location as above. This bedrock is under the placer Dave Brickner is mining on Nugget Hill. Rock samples taken for testing, returned the coarse gold pieces shown below.

Fingers of burgundy stained chlorite quartz/carbonate veins shoot upward into the graphite and quartz veins.

Chlorite schist, altered by burgany, orange “goo”.

Crushed, pulverized and oscillated with a professional & objective observers witnessing. Erini Petroutsas & Don Menzie. Gold recovered from this rock type has a coarse texture. **5 pieces were recovered from a 3 pound sample. 2012 report will have further details.**



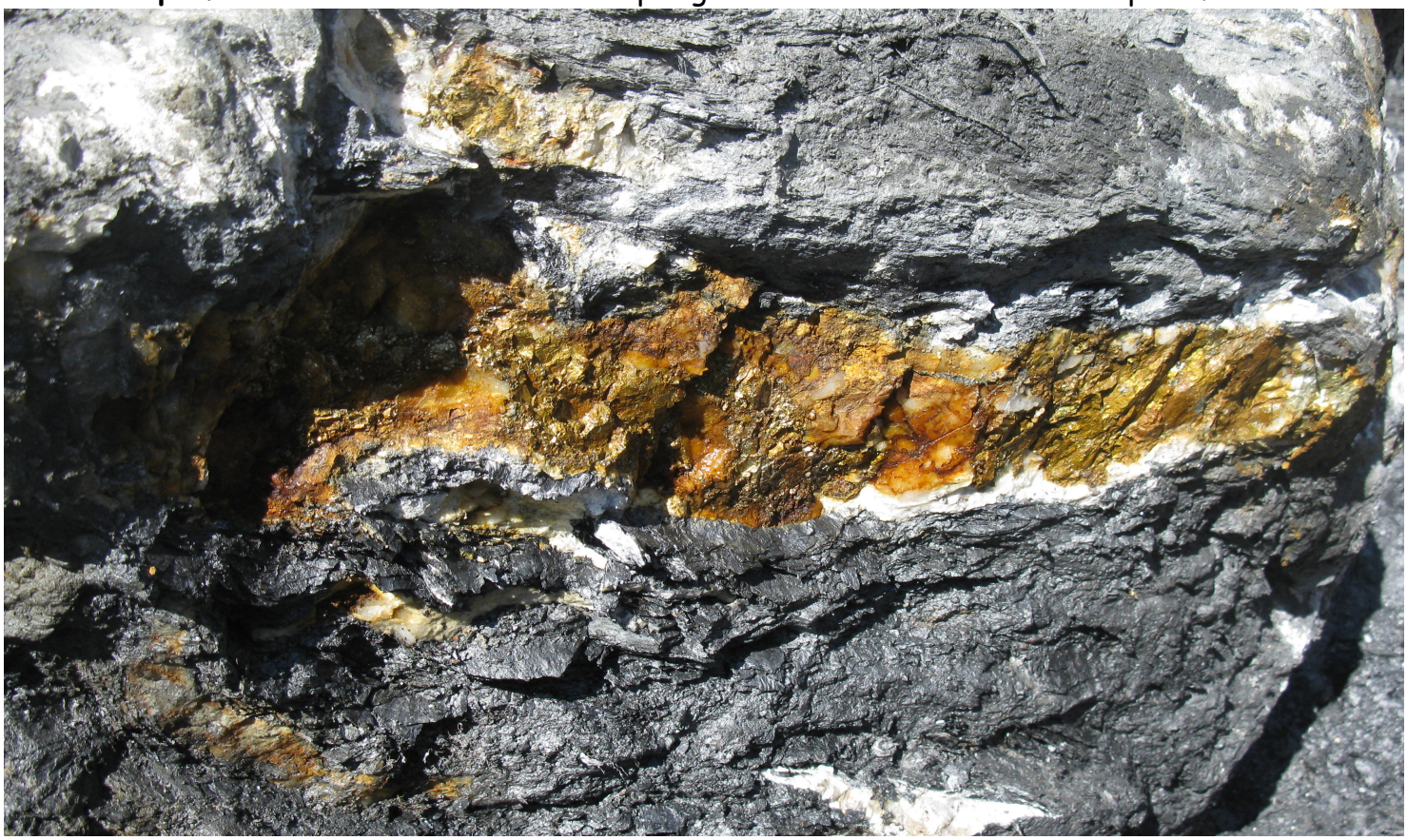
Similar “gossan” material (as fingers pit, claim **Waste4)**, as at sample **W5** pictured above from claim **Waste5.**

*** Report for summer 2012 contains more detailed map & location details.**

Hester Creek – “MainRock-Waste7Vein”

Looking at Waste7 “waste vein” workings, going west on way to Paradise Hill from Nugget Hill, across Hester Creek. Vein runs north south.

Close up of “Rock” Waste7 Vein - See spring summer 2011 “WasteVein” report for details.



Paradise Hill

PH1- Paradise Hill, Test Pit.

PH2

Previous Exploration History

See footnote next page*

"This brief report is to summarize the geology of the Paradise Hill area with specific application to the "Hester Hill" property, it's potential and possible direction of exploration and development.

At the time of McConnell, mining was by open cut methods at the margins of the White Channel exposures & by tunnels from the margins, shafts from surface to the high grade gravels at the base of the gravel section. This generation of mining was largely without geological prejudice, prospecting was thorough; the presence or intensity of hand mining reflected the degree of mineralization encountered.

The bedrock and surficial geology of the area are compiled by Milner (1977) who spent the field seasons of 1974 & 75 in the Klondike as part of his thesis research. At that time exposures on Paradise Hill were poor, mining having stopped there in 1962.

*(Tony Beets & Tamarack Mining reopened operation's in late 70's until present day, with continuous placer results.)

Visits to the "Hester Hill" pit of the Knols-Brown-Sigma association and the Paradise Hill cut of Tamarack Mining provided considerable new data to the consideration of geology in these deposits.

Documentation of exploration is poor. McConnell summarizes the stratigraphy, much of which had to be hearsay as shafts were too numerous for him to have visited many. The most reliable information comes from John Gould who continues to mine on Nougat Hill where his father & family mined in the early years. He recalls the numerous workings acquired and promoted by Lou Perunovic to become the "Hester Hill" pit and the descriptions of pits dug on the Paradise-Nugget area that encountered the **brown "gumbo" (orange/green "goo") bedrock that characterizes the area afflicted by thrust faulting.**

The Yukon Consolidated Gold Corporation's hydraulic cut on Paradise Hill was based on drilling near the known pay-streak. The drilling would not have incorporated fault interpretation as these displacements were not recognized at that time. Profiles would have assumed approximate horizontal bedrock & that drill data would have been used for immediate mine planning at the face of the hydraulic cut. The appearance of bedrock high in the face as the first thrust was encountered, as described by by Hughes(1964) & Gleeson(1970), probably resulted in a new economic factor that ended mining in that direction. This information compiled in a sketch map of the area warrants further consideration on a larger scale if any serious exploration evolves." (See map by M.W. Milner, 1983.)

"The bedrock underlying younger deposits is a distinctive black graphite phyllite and quartzite sequences known as the Nassina Group. Ultramafic rocks, dark green to brown in color, are incorporated in these basement rocks and occur in a number of places probably along weak zones into which they intruded or along which they have been emplaced by earlier faulting.

Other younger intrusive rocks, occurring mainly northeast of Hunker Creek are light grey in color and are quartz-feldspar-rhyolite porphyries. *(Gold Rush claims) An ancient valley that existed before the development of the White Channel valley is evident in the area. It was infilled by sedimentary & volcanic rocks that now outcrop southwest for Hunker Creek from Nugget Hill to and including the downstream portion of the valley of Last Chance creek.

These rocks, the Last Chance Volcanics- for lack of a better name- were truncated by the erosion that formed the valley in which the white channel gravels were deposited. The relatively soft nature of both the black "Nasina" rocks and the brown "Last Chance" rocks are responsible for the relatively broad White Channel valley in the Hester-Last Chance interval of Hunker Creek.

The White Channel gravel, thicker than would be expected normally, is the result of crustal tilting or uplifting that in effect caused packing of gravels in the stream analogous to the packing of sediment in a sluice box. This tilting undoubtedly occurred over some time, but it ended at the time that glacial outwash from the *oldest recognized* glaciation flooded into the mouths of Hunker and Bonanza
drainages, as well as along the valley of Indian River. The White Channel sediments were entrenched by the modern stream to a level of former bedrock approximately 1.3 million years ago, as witnessed by volcanic ash of that age (Westgate, 1978) that occurs on the highest terrace cut below the level of the White Channel bedrock (Milner, 1977).

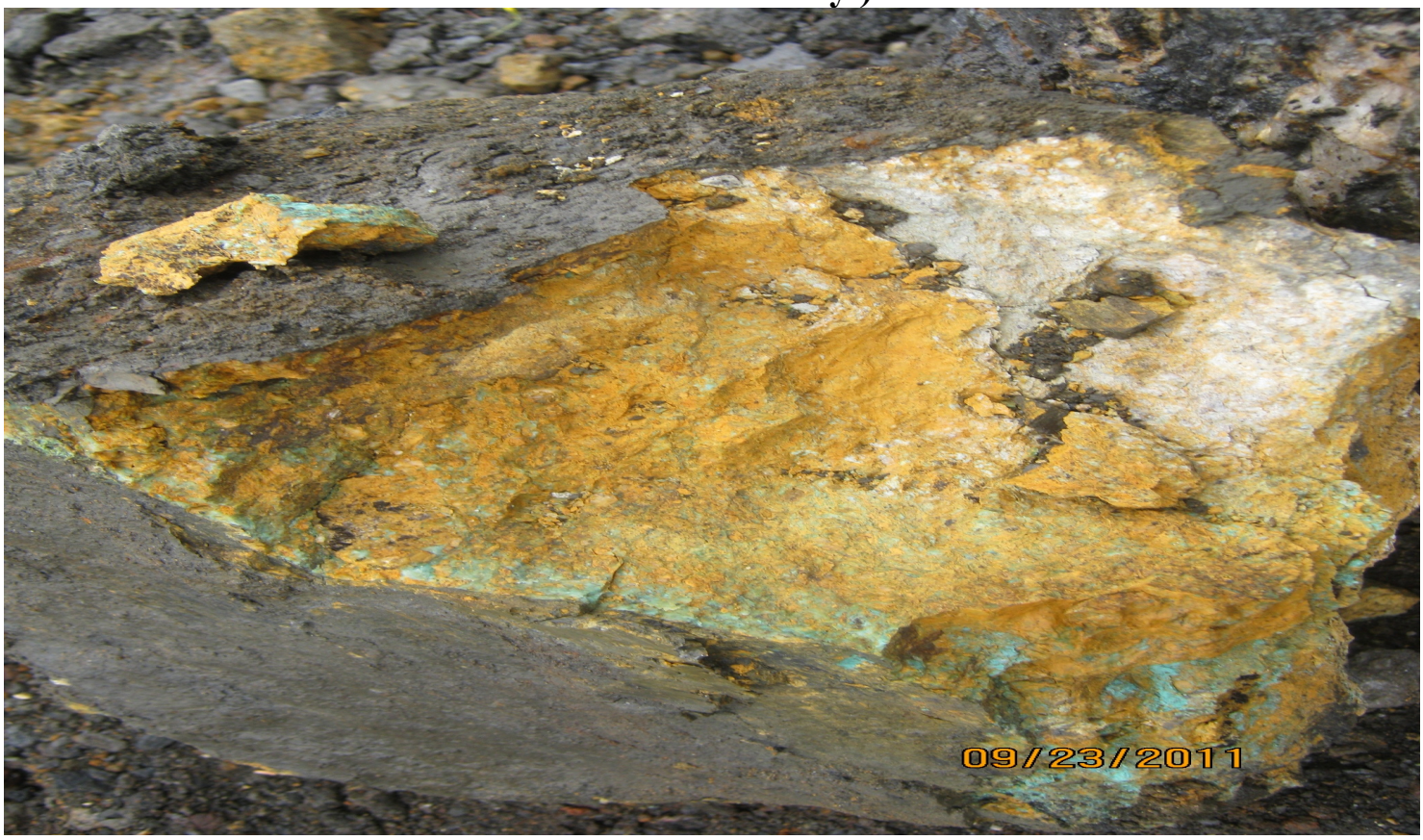
Observed faults cut the gravels with bedrock and overlying gravels on the southwest having been thrust over more easterly bedrock. Pursued from the footwall side the up-thrust block would appear like bedrock rim. The basal gravels in the hanging wall, at the leading edge of the thrust, would appear to be elevated or high level pay zones--as McConnell described.

The structure and stratigraphy of Hester Hill is well hidden. Bedrock, the black Nasina type, with presumed ancient, low angle fault characteristic of this rock type, is well displayed at the top of the slope overlooking Hester Creek and also 10 Pup. A veneer of red & yellow, with in places lenses of white channel, covers this bedrock."

* (Scientific composition of the "red, orange, yellow" not given.)

*(M.W. Milner. Report on Hester& Paradise Hill Property for the Sigma Group 1983

* Milner, M.W. 1977. **The geomorphology of the Klondike placer goldfields, Yukon Territory.)**

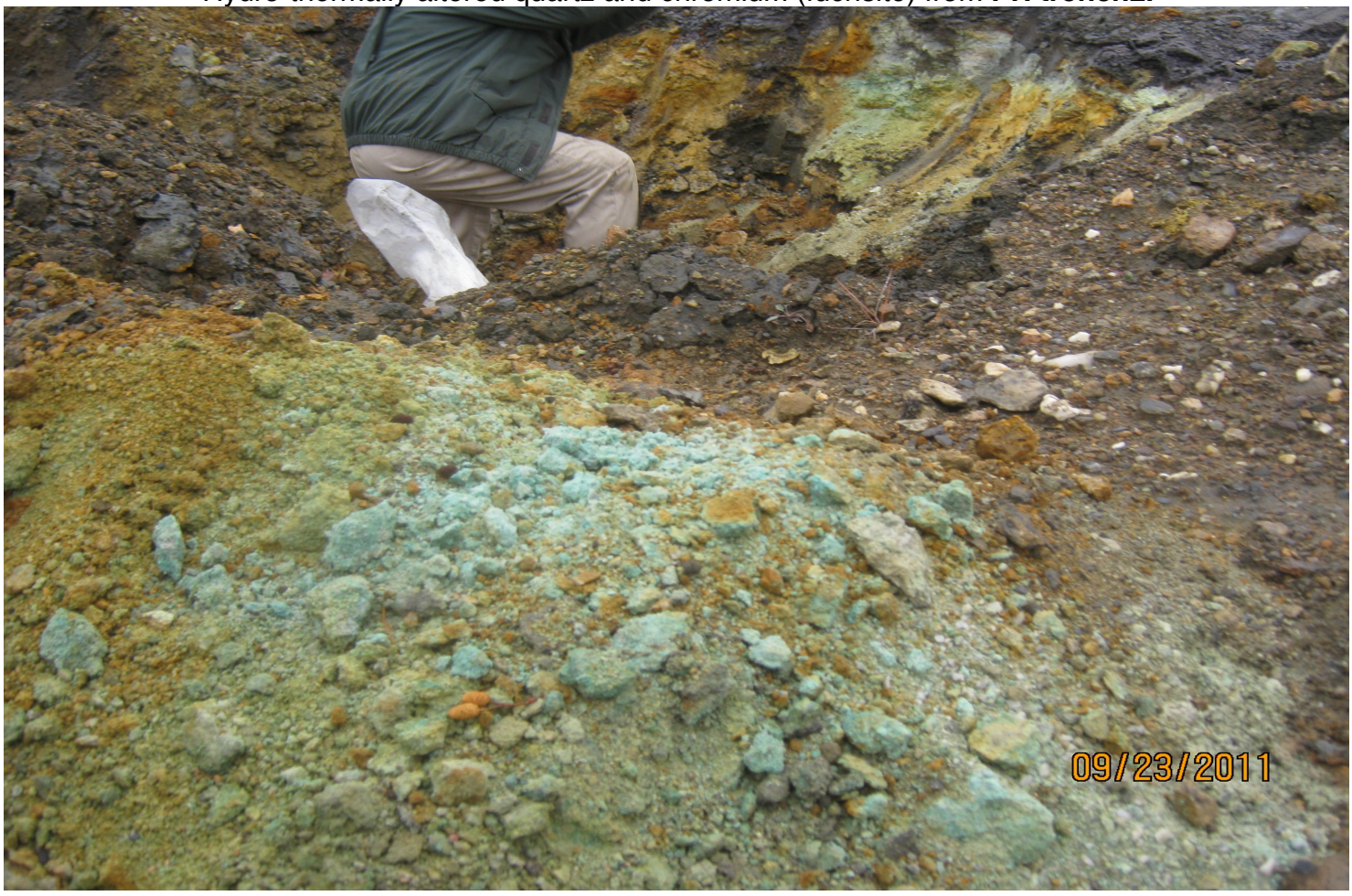


PH1 sample. Turquoise color is chromium/fuchsite.

Walls of **PH trench2**

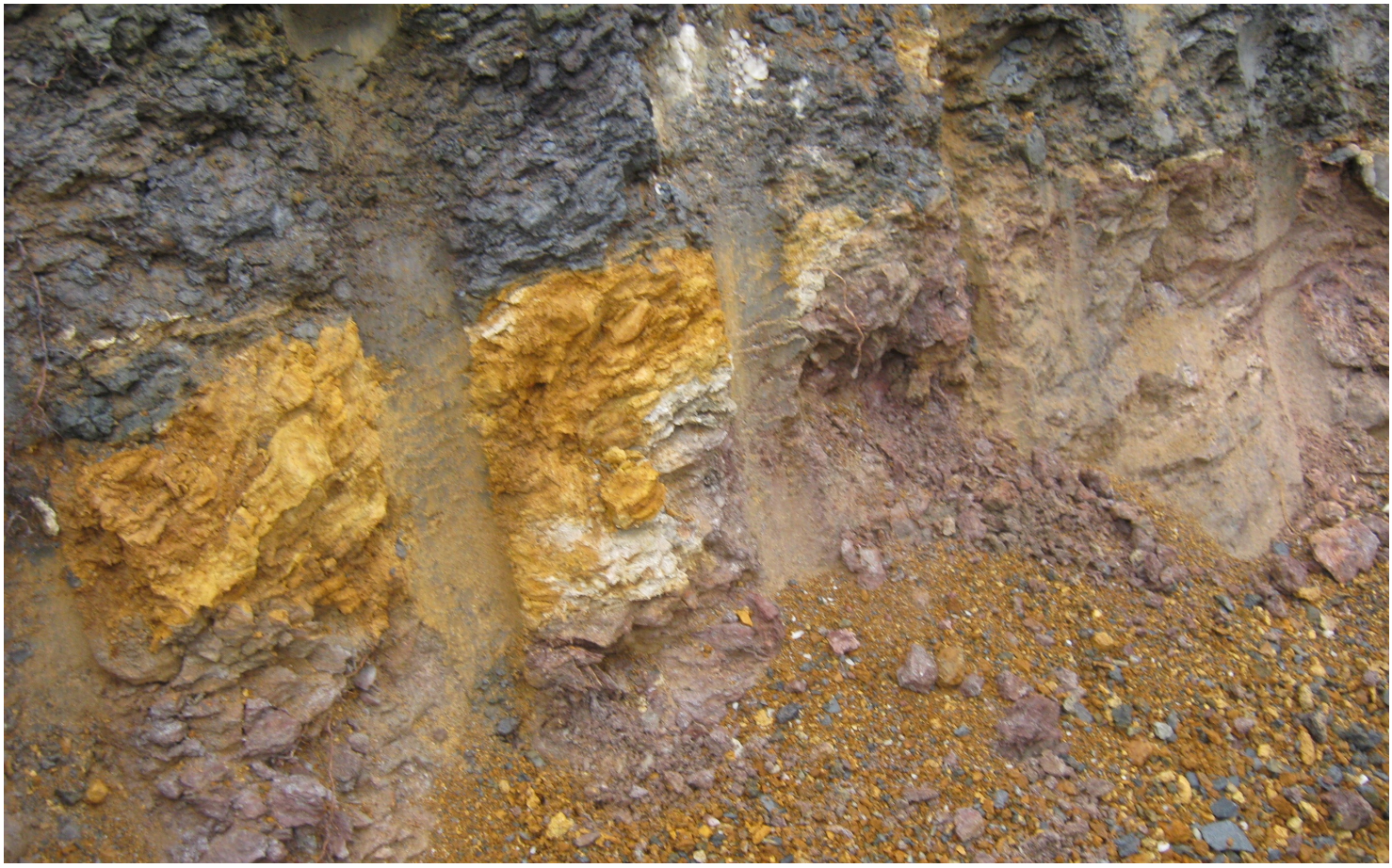
Decomposing chromium, iron oxidation, graphite fault, **PH trench2**.

Hydro-thermally altered quartz and chromium (fuchsite) from **PH trench2.**



PH3

Powdered calcite and sulphur "forming" above heavily oxidizing bedrock, bordering thrust faults. **PH 4**



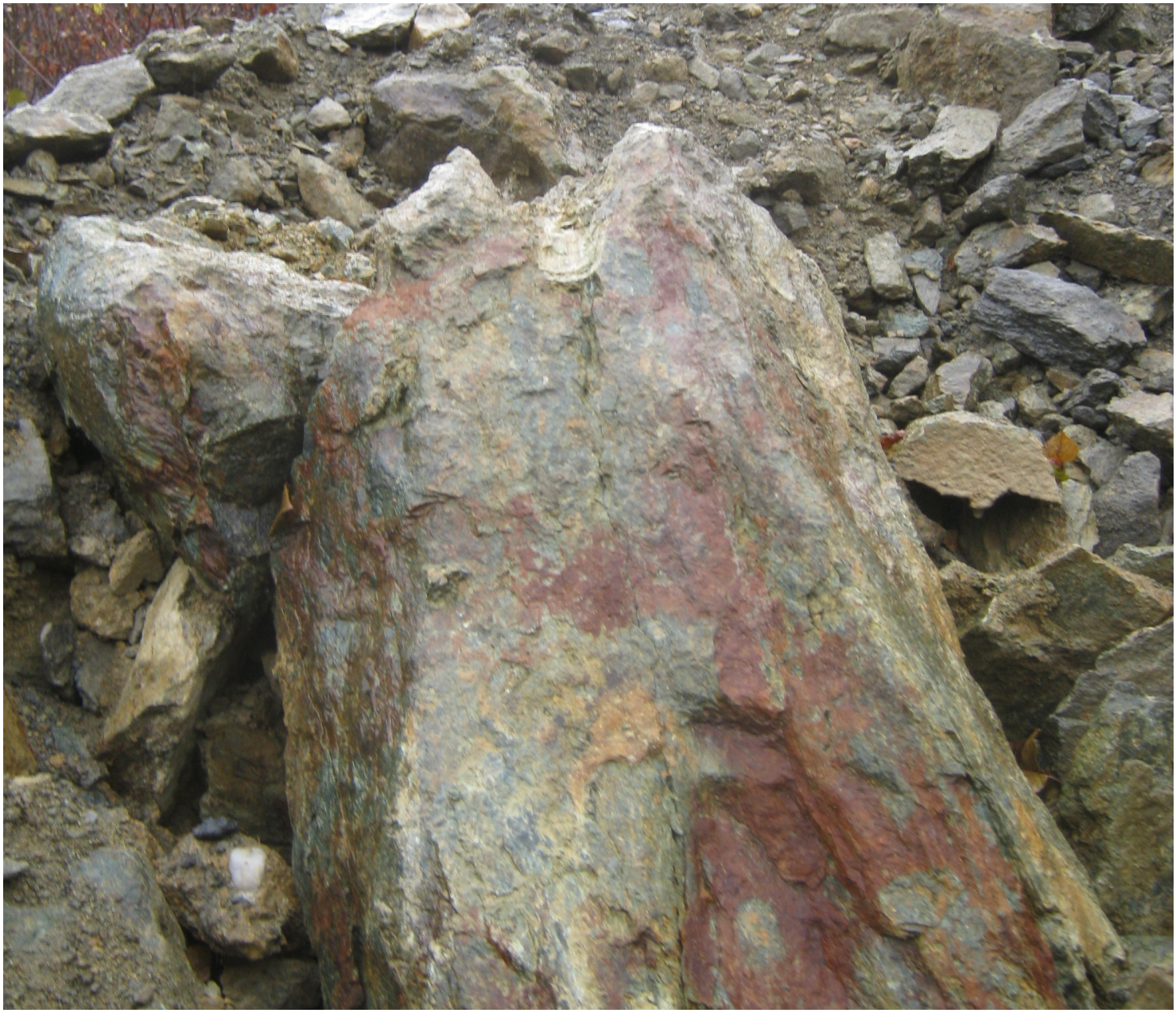
PH4

PH5

PH6 contact of graphitic fault zone with listwanite.

The term "listwanite" (alternate spellings - listwaenite, listvaenite or listvanite) was first introduced by Rose (1837) to describe the silica-carbonate alteration of serpentinite in the Urals. Since then the term "listwanite" has remained in use in Eurasia, whilst in America, Canada and Australia, the self-descriptive term "silica-carbonate" has become more prevalent. The terms "listwanite" and "silica-carbonate" are synonymous and encompass all forms of carbonatization from the carbonate-rich to silica-rich phases.

The alteration of serpentinized ultramafic rocks to silica-carbonates is caused by the migration of carbon dioxide-rich fluids along faults, and is sometimes referred to as “carbonatization”. Silica-carbonate alteration is commonly observed around the margins of dismembered ophiolite sequences and has been reported by a number of authors worldwide, notably because it is often host to gold, mercury, magnesite and occasionally, base metal mineralisation (Ash and Arksey, 1990a; 1990b; Ashley, 1997; Ashley and Hartshorn, 1988; Auclair et al., 1993; Barnes et al., 1973; Bohlke, 1989; Buisson and Leblanc, 1985; 1986; Efremov, 1952; Knopf, 1906; Madu et al., 1990; Ploshko and Bogdanova, 1963; Pohl, 1990; Sherlock and Logan, 1995; White, 1967).



PH6 Sample. Listwanite.-Talc altered serpentine zone.

Gold in listwanites

Based on geochemical studies of silica-carbonates from ophiolite complexes in Liguria, Morocco and Saudi Arabia, (Buisson and Leblanc, 1987) concluded that silica-carbonates are similar in style to Archean carbonatized ultramafic rocks with economic grades of gold being reached in sulfide-rich zones and late quartz veins. Ultramafic rocks (upper mantle peridotites) are believed to be the main source of gold (Pipino, 1980), which is contained within the accessory opaque minerals (sulfides, chromite, and magnetite). Gold contents in serpentinized mantle peridotite range between 3 and 5 ppb. Large-scale hydrothermal systems operating during the late stages of tectonic emplacement leach gold from the opaque minerals and transport it in a CO_2-S-As-Cl-Na-K-B-rich solution as thio-arsenic complexes. The hydrothermal fluids are focussed along tectonic contacts. As the system evolves the acid gold-bearing solutions precipitate silica-pyrite-arsenides and gold when entering into the reducing and alkaline carbonatized rocks.

Silica-carbonates are on average 5 – 20 times more enriched in gold (average 0.02 – 0.1 ppm Au) than the surrounding ultramafic rocks (between 0.001-0.010 ppm) (Buisson and Leblanc, 1987). Economic grades of gold are usually associated with sulfides, sulfarsenides or arsenides (Buisson and Leblanc, 1985; 1986; 1987; Leblanc, 1986; Leblanc and Billaud, 1982). The gold is usually bound to the sulfides, with pyrite grading between 10 and 50 ppm, and Co-arsenides between 10 and 100 ppm. Small gold grains are observed around liminitized pyrite grains as a result of weathering and oxidation. Trace element analyses show strong positive correlations between Au and As, and quite commonly K. Elements such as Ba, Sb, B, Bi, Ag, and Cu may also be associated with high gold values.

Buisson and Leblanc (1987) concluded that during the serpentinization process half the gold is concentrated into magnetite and secondary sulfides. These opaque minerals are subsequently destroyed in talc-carbonate alteration zones (Phase 1 listwanites), which results in gold being released from the serpentinite wall rocks and transported in solution. The gold- and silica-rich fluids are transported to higher crustal levels where the change in conditions (lower temperature, pH and fO_2) results in the precipitation of gold, quartz and sulfides

[2]

PH7 - <1 ppbAu; 1730 ppmCr; (Page 64 for assay results).

[2] Buckman, S. & Ashley, P. (2010). Silica-carbonate (listwanites) related gold mineralisation associated with epithermal alteration of serpentinite bodies. New England Orogen 2010 (pp. 94-105). Armidale, NSW, Australia: University of New England.

PH8 trace gold amount assayed from the rock **~ 7 ppbAu; 2630 ppmCr; 890 ppmBa; 160 ppmAs; 33 ppm Cobalt**.

PH9, another decomposing chromium/fuchsite zone.

PH10- Decomposing chromium.

PH11 Quartz vein through graphite.

PH 12 Fingers of calcified and oxidizing quartz.

“EXPLORATION GUIDES: Placer gold or elevated gold in stream sediment samples is an excellent regional and property-scale guide to gold-quartz veins. Investigate broad 'deformation envelopes' adjacent to regional listric faults where associated with

carbonate alteration. Alteration and structural analysis can be used to delineate prospective ground. Within carbonate alteration zones, gold is typically only in areas containing quartz, with or without sulphide minerals. Serpentinite bodies, if present, can be used to delineate favourable regional structures. Largest concentrations of free gold are commonly at, or near, the intersection of quartz veins with serpentinized and carbonate-altered ultramafic rocks.
ALTERATION MINERALOGY: Silicification, pyritization and potassium metasomatism generally occur adjacent to veins (usually within a meter) within broader zones of carbonate alteration, with or without ferroan dolomite veinlets, extending up to tens of meters from the veins. Type of carbonate alteration reflects the ferromagnesian content of the primary host lithology; ultramafics rocks - talc, Fe-magnesite; mafic volcanic rocks - ankerite, chlorite; sediments - graphite and pyrite; felsic to intermediate intrusions - sericite, albite, calcite, siderite, pyrite. Quartz-carbonate altered rock (listwanite) and pyrite are often the most prominent alteration minerals in the wallrock. Fuchsite, sericite, tourmaline and scheelite are common where veins are associated with felsic to intermediate intrusions.

WEATHERING: Distinctive orange-brown limonite due to the oxidation of Fe-Mg carbonates cut by white veins and veinlets of quartz and ferroan dolomite. Distinctive green Cr-mica may also be present. Abundant quartz float in overburden.
ORE CONTROLS: Gold-quartz veins are found within zones of intense and pervasive carbonate alteration along second order or later faults marginal to transcrustal breaks. They are commonly closely associated with, late syncollisional, structurally controlled intermediate to felsic magmatism. Gold veins are more commonly economic where hosted by relatively large, competent units, such as intrusions or blocks of obducted oceanic crust. Veins are usually at a high angle to the primary collisional fault zone. “
“GENETIC MODEL: Gold quartz veins form in lithologically heterogeneous, deep transcrustal fault zones that develop in response to terrane collision. These faults act as conduits for CO2-H2O-rich
(5-30 mol% CO2), low salinity (<3 wt% NaCl) aqueous fluids, with high Au, Ag, As, (± Sb, Te, W, Mo) and low Cu, Pb, Zn metal contents. These fluids are believed to be tectonically or seismically driven by a cycle of pressure build-up that is released by failure and pressure reduction followed by sealing and repetition of the process (Sibson et al., 1988). Gold is deposited at crustal levels within and near the brittle-ductile transition zone with deposition caused by sulphidation (the loss of H2S due to pyrite deposition) primarily as a result of fluid- wallrock reactions, other significant factors may involve phase separation and fluid pressure reduction.
EXAMPLES: (Yukon): Caribou Creek (115I 049), Venus (105D 005), Big Thing (105D 009), Tally-Ho (105D 030), Mt. Reid/Skukum Creek (105D 022), Violet (115O 073), Virgin (116B 007), Silvercity (116B 037); (British Columbia (MINFILE #) - Canada/ International)[3]

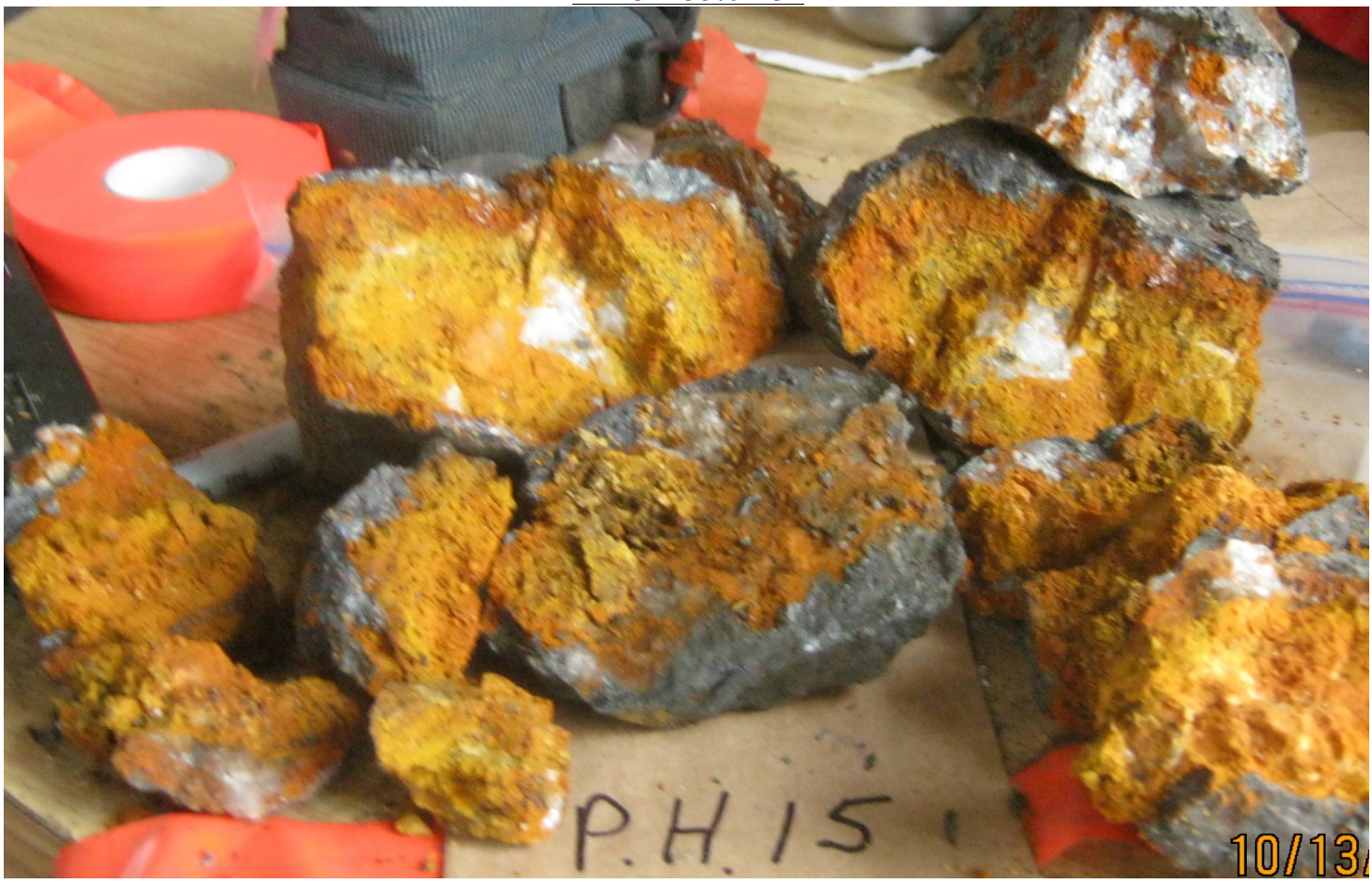
[3] Au-Quartz Veins. British Columbia Geological Survey in association with Yukon Geological Survey May 30, 2005 Dani Alldrick. Modified for Yukon by A. Fonseca

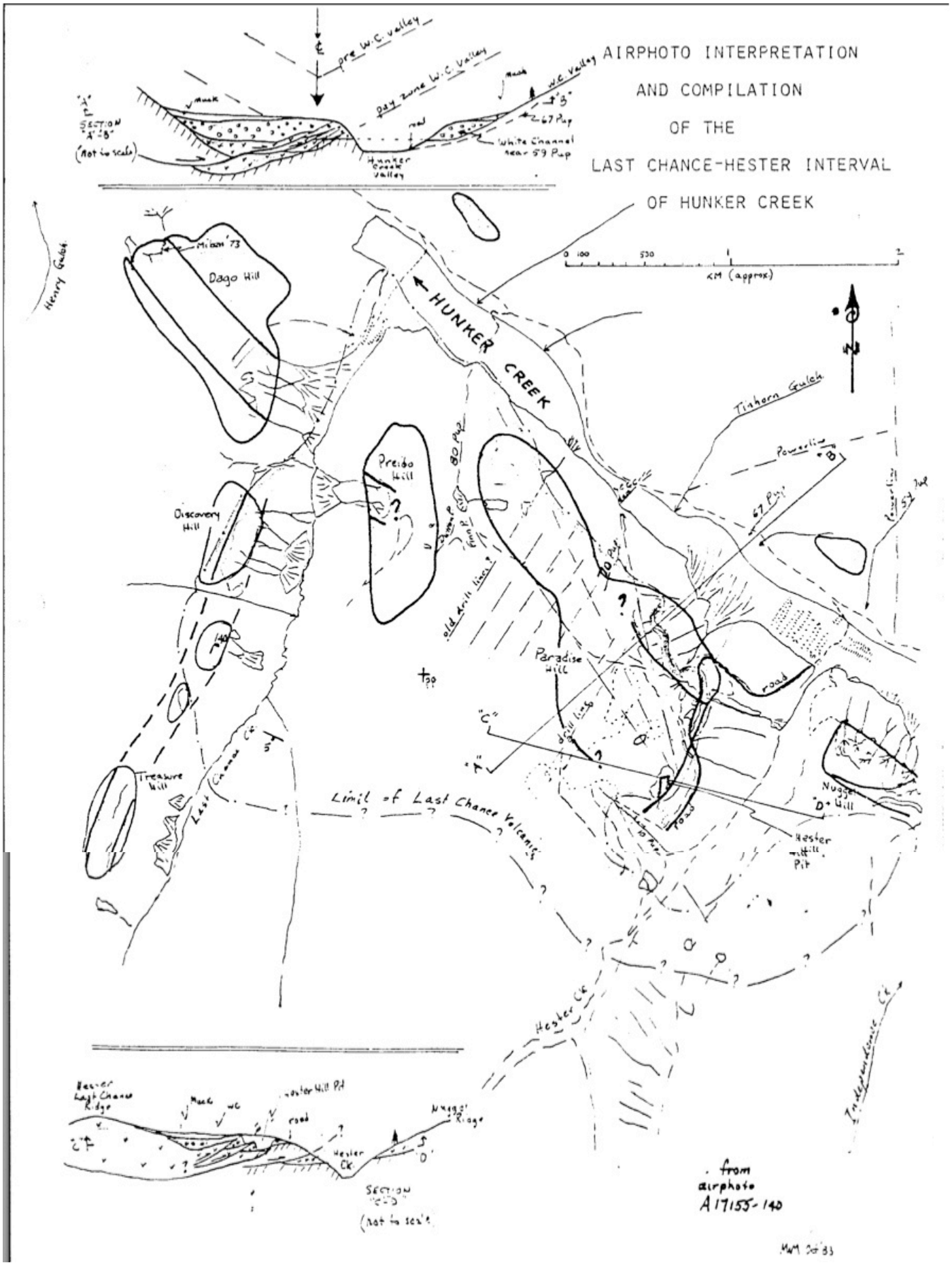
PH14

PH13, 14 & 15 test trenchings. PH13 assayed trace gold from rock ~ 9bbbAu.
Graphitic fault zones bordering graphite altered & oxidizing quartz veins on Paradise Hill.

Area has been completely stripped of placer gravel.

PH15 ~ 36% Iron





Milner Map for Sigma Group, (placer prospecting)1983. See previous Milner reference page 37.

Test Pit & Trenching Report
Sept.14- Sept.18 /2011
Waste Claims /Independence-Hester Creeks

Waste34 West side of Independence Creek 200meters up from junction with Hunker. Following the Trilby system as it goes SW.

	(meters) wide	long	deep	
TB1-	**5**	**8**	**8**	

07V 0596761/7096415
Orange quartz vein coated and contacting with carbonate and blackened altered graphite.
TB1E- East side of trench on same vein.
Mineralization & limonite in crystalized pockets of the dull orange & white powder coated quartz enmeshed in altered graphite hosting well formed sulfides and pyrite cubes. System runs SouthWest into hillside and underground on east.

Waste2 Off road west of Independence creek. 7 trenches.

	(meters) wide	long	deep	
InSam	**2**	**2**	**2**	Black fault area. Vivid orange parts and floating quartz.
In1	**2**	**2**	**4**	07V 0596599/7096177; *Sample: In1*
In2	**2**	**2**	**4**	07V 0596605/7096152; Decomposing phyllite.
In3	**1**	**3**	**2**	
In4	**1**	**1**	**1**	07V 0596605/7096171

Broken pieces of orange stained quartz and decomposing chloritic bedrock.
Sample: In4

In5	**2**	**2**	**2**	07V 0596605/7096171

Black trend continues. Orange & green streaked with white powder & quartz.

In6	**1**	**2**	**1**	07V 0596623/7096192

Altered graphite oxidizing and striated with carbonate powder.
Road continues up & right to the south access of Nugget Hill.

SAN	**1**	**1**	**1**	

07V 0596404/7096241

SAN2	**1**	**2**	**1**	
SAN3	**2**	**2**	**2**	
SAN4	**1**	**1**	**1**	
SANDec	**4**	**2**	**2**	

07V 0596382/7096235
Light green rhyolite, rusty decomposition in contact with muscovite layer. Hard green orange coated carbonate rock.

Waste4

On top of plateau, Nougat Hill. SW corner of Waste4.

NH1	**1**wide	**1**long	**1**deep	

07V 0596185/7096312
Test pit into orange and black powder. Quartz pic.

NH2	**4**	**4**	**4**	07V0596175/7096309

System of carbonate, orange and black. *2 bags of samples. Blackened, orange, green carbonate rock. Samples NH2: 1-3.*

NH3 **1** **5** **5** 07V0596178/7096328

NH4 **3** **3** **3**

Graphitic & highly altered, rusty quartz in the "red zone" system. Uninterrupted surface has powdery secretions of carbonate(?), 1 sample. 1 from black neighboring fault of altered gabbro- *NH2a & NH2b*

Past Dave Rattner on right. Head of natural gorge going north that is a future exploration target.

W4QFE **2** **5** **3** 07V0596086/7096757

Red weathered quartz. Picture. *Sample: NHW4QFe*

Road continues down hill to Hester creek. "Waste7 vein" visible on other side of creek. Pics. New access road across Hunker after Hester leads to Paradise Hill, another stripped hill. Producing since 1900.

Waste6 Paradise Hill, plateau.

PH1 **4** **4** **4** 07V 0595006/7097041

Large bull quartz vein. Vivid orange and white powder. Black fault contact. Orange coated fucshite. Pics.

PH2 **2** **20** **4** 07V 0595010/7097065

Decomposing system of black & orange/red white with vivid turquoise powders. Pics

PH3 **2** **5** **5** 07V 0594996/7097061*: PH1, PH2, PH3*

PH4 **6** **6** **3** 07V 0594960/7097038

Big trench in pic. "Oozing" hillside, layers of orange red & black. Metamorphed quartz & white powder. Possible continuation of "Waste7 vein" system.

PH5 **4** **3** **4** 07V 0594956/7097043

Same layering of red on black with white powder fault material and black crystallized quartz. Pic. 07V 0594963/7097091

PH6 **2** **3** **2**

2nd trench at

PH6 **2**wide **6**long **4**deep (next to location above)

Heavy carbonated green slick stone- listwanite. Orange red & burgundy staining on the quartz vein.

PH7 **2** **5** **4** 07V 0595063/7097126

PH8 **3** **3** **3** Next to location above Contact of black graphite with layers of white. The "green zone" powdered oxidizing chromium fucshite.

PH9 **1** **1** **1**

Right next to light green powder.

PH10 **2** **1** **1** 07V 0595005/7097163

Green powder system contacts orange, sericite coated rock fragments.

Waste9

PH11 **3** **4** **2** 07V0595223/7097147

Quartz veins in decomposing graphite.

PH12 **2** **2** **1** next to location above

Quartz continues, sample taken *PH12*

PH13 **1** **30** **3** 07V 0595188/7097182

Graphite surrounding quartz with the same orange/red white powder. 3 Quartz veins running through trench. *PH13 two samples.*

PH14 **1** **1** **1** 07V 0595166/7097199

Graphite contact with powdered white & vivid orange vein.

PH15 **2** **2** **2** 07V 0595198/7097208

Brown orange “goo” carbonate rocks through graphitic powdery schist.

Waste8 *Going down road west of Hester creek.*

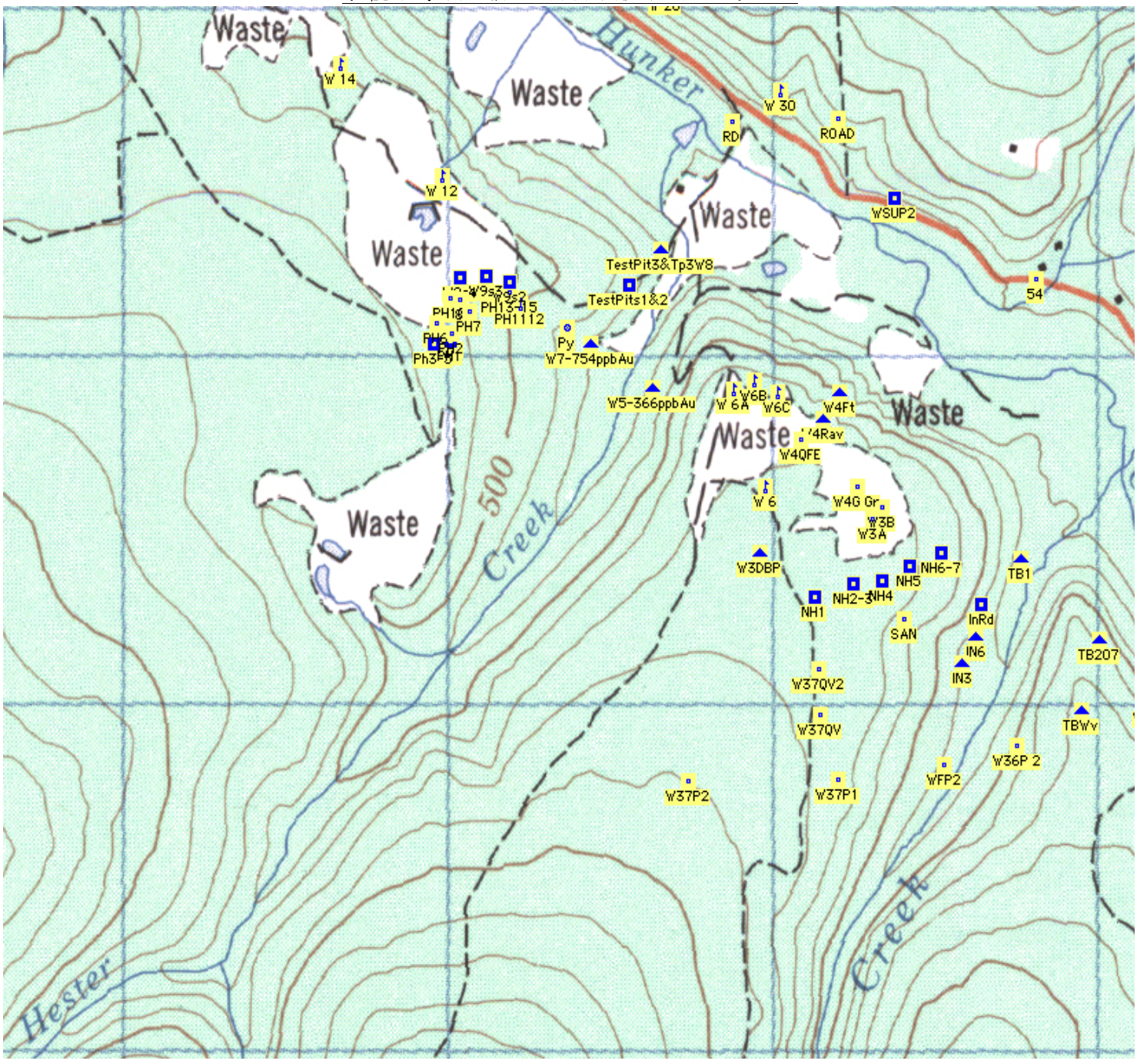
TestPit1 **1** **1** **1** 07V 0595557/7097201

Orange & yellow stained quartz vein in graphite. 07V 0595573/7097206

TestPit2 **1** **1** **1** Burgundy, red stained quartz in graphite.

TestPit3 **2** **2** **2** Yellow & orange pocketed quartz in contact with morphed graphite. 0595661/7097293

Test Pit Locations Fall 2011



Sampling Report
Sept. 2011 Work Done on: Waste Claims
2,4,6,8,9 & 3 Independence Creek to Last Chance Creeks
& Ben Levi Occurrence Tinhorn Gulch.

Sample List – Rock Samples of Bedrock taken from Test Pit Exploration
Work Done: **Sept.19-Sept 22, 2011**

Samples from Paradise Hill Plateau, **Waste 6**, PH trenches. Sample Gps locations correspond to locations in trench report.

PH1 - Red orange altered quartz veins in decomposing graphite. Veining of white & yellow, calcite & sulfur.
PH2 -Decomposing orange oxide carbonate rock. Chromium green staining. **~ 3 ppbAu;**
PH3 - Hydro altered decomposing graphite. Powdered orange & white veining. Crumbling calcite quartz veins surrounded by decomposing fucshite. **~ 7 ppbAu**
PH4 -Decomposing & hydro altered ultramafic rock bordering carbonate with calcite & red/orange oxidation.
PH5 -Same as above. No sample sent.
PH6 -Carbonate altered (white, orange & black powders), green mafic rock with crystalized calcite.
PH7 -Carbonate coated altered black/green tinged ultra/mafic rock.
PH8 -White orange powder below shiny graphite contact. **~ 7 ppbAu**
PH9, 10, 11, 12. -Samples not selected for assay.
PH13 -Hard quartz veined with orange powder. Calcite veining in decomposing graphite. **~ 9 ppbAu**
PH13Mid -Decomposing shiny graphite with burgandy staining, red & orange oxidation. Powdered calcite veining. Balls of quartz with pink calcite.
PH14 -Red, white, yellow coated decomposing rock contacting graphite.
PH15 -Altered decomposing crumbling graphite, orange, white powder, burgandy staining.
PH-15-2 -More altered quartz, orange powder.

Nugget Hill, **Waste3, 4**

NH1 -*Dave Brickner's Pit*- Grey/green stone graphite altered. Orange & red/brown oxidation in calcite veins, pocketed quartz veins. Hydro altered zone.
NH2 - Dave's Pit. Waste3 Orange, white, shiny, black. Decomposing rock.
NH3 -Waste4. Orange red stained quartz in altered graphite.
NH3-1 -Crumbling quartz veins with burgandy black stainings. Orange oxidation, sulphur alteration in graphite. **~ 9 ppbAu**
NH3-2 -Decomposing iron oxidized calcite veins, graphite. **~ 8 ppbAu**
NH3-3 -Orange oxidized quartz, sulfur & calcite in hyro altered graphite.
NH4 -W4FV. Hydro altered quartz & graphite. Orange/dark red oxidation. Sulfides. **~ 2ppbAu**
NH5 -W4GG. 22 sept. Green & yellow tinges in the hyrdothermaly altered quartz & graphite. **~ 6ppbAu**
NH6 -W4GG. *Same location as above*. Altered quartz & graphite, orange oxidation, white powder, sulfides. Decomposing to clay.
NH7 - Waste6. Western edge of Nugget Hill by Hester Creek. Altered chloritic carbonate rocks. Orange oxidation, white powder. – Good, points.

Waste2, INTestPits 3&6. Independence Creek Road. **Waste3**, Brickner Pit.

W2Tr3 -Serpentine with orange & white oxidation, small sulfides on rock. **IN3 ~ 3 ppbAu**
W2Tr6 -Hydrothermaly altered quartz & graphite sulfide oxidation, calcite veining. **IN6 ~ 6 ppbAu**
W3DBP -Carbonate altered white crumbly decomposing bedrock. Orange powder, sulfide oxidation. Brickner Pit **<1ppbAu**

Waste34, Across Hunker from "Trilby Showing" on Independence Creek.

TB1- Same as trench location. Light orange & white coated, white/grey quartz with burgandy staining. In graphite schist. Whole bag tested, large mesh. Higher test. **~ 6 ppbAu**
TB207 -Calcite with burgandy & orange oxidation. Sulfides in altered graphite schist. **<1ppbAu**
TBWv -Orange oxidized altered white/grey quartz with calcite. Small pyrite cubes and various sulfides. Same location as above. **<1ppbAu**

Waste 4

Waste4OxGoo -Pulverized- Orange/red shiny powder. From a system of carbonate rock & graphite in the "gorge". **~ 70 ppbAu**
W4Ft -Pulverized- orange shiny powder.
W4Ravine -Pulverized- Black shiny powder. *Crushed altered graphite from the "gorge".* **~ 10 ppbAu**

Waste5, Waste 7

Waste Vein. *(07V0) 580472/7099696*

W7 -Sulfide rich calcite & quartz veins through altered graphite. **~ 754 ppbAu Fire; 610 ppbAu Neuron Analysis**
W7west -Quartz calcite with sulfide veining (pyrite, arsenopy, chalcopyrite, gold?), along side graphite schist also carrying sulfides. 20m west of "rock". **<1ppbAu**
W5 – SouthEast of W7vein & Hester Creek. Gossan of carbonate conglomerate quartz pieces & orange/green oxidation. Continuation of quartz carbonate with "gooed" altered chlorite contacting altered graphite faulting. **~ 366 ppbAu Neuron Analysis**.

Company : Petroutsas, Erini

Submitted by : Erini Petroutsas **T12-02262.0**

Date Received : 08-Nov-12

Date Reported : 20-Nov-12

Becquerel A Maxxam Company
6790 Kitimat Rd, Unit #4
Mississauga, ON,Canada,L5N 5L9
Ph: (905) 826-3080 Fax : (905) 826-4151
email : RAllen@maxxam.ca

Acme file # :WHI12000989

Samples were run as received.

ISO 17025
For Scope of Accreditation No. 422
Pour la portée d'accréditation no. 422

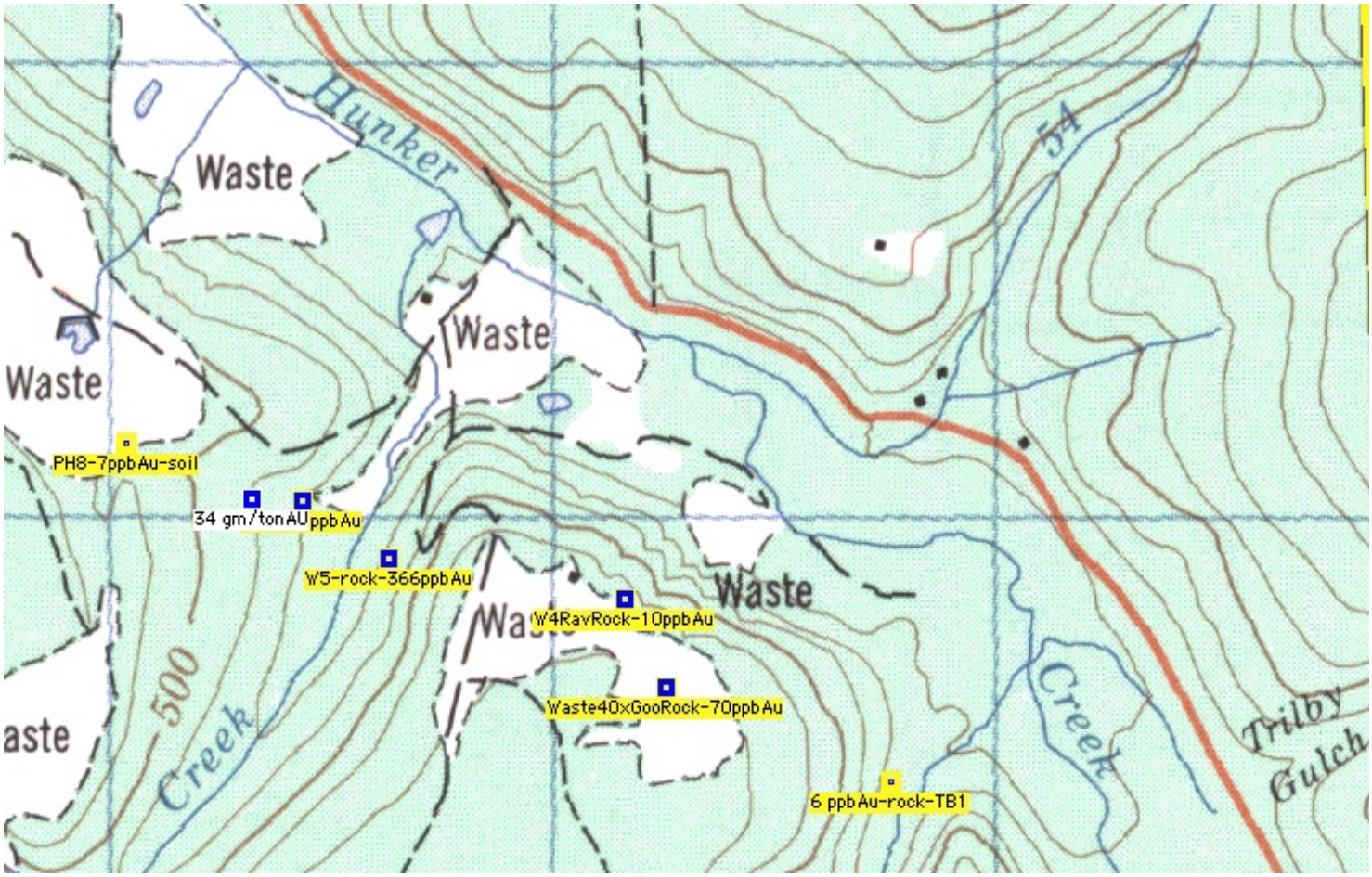
Analysis performed by Neutron Activation (Method BQ-NAA-1)

A negative result denotes "Less Than".

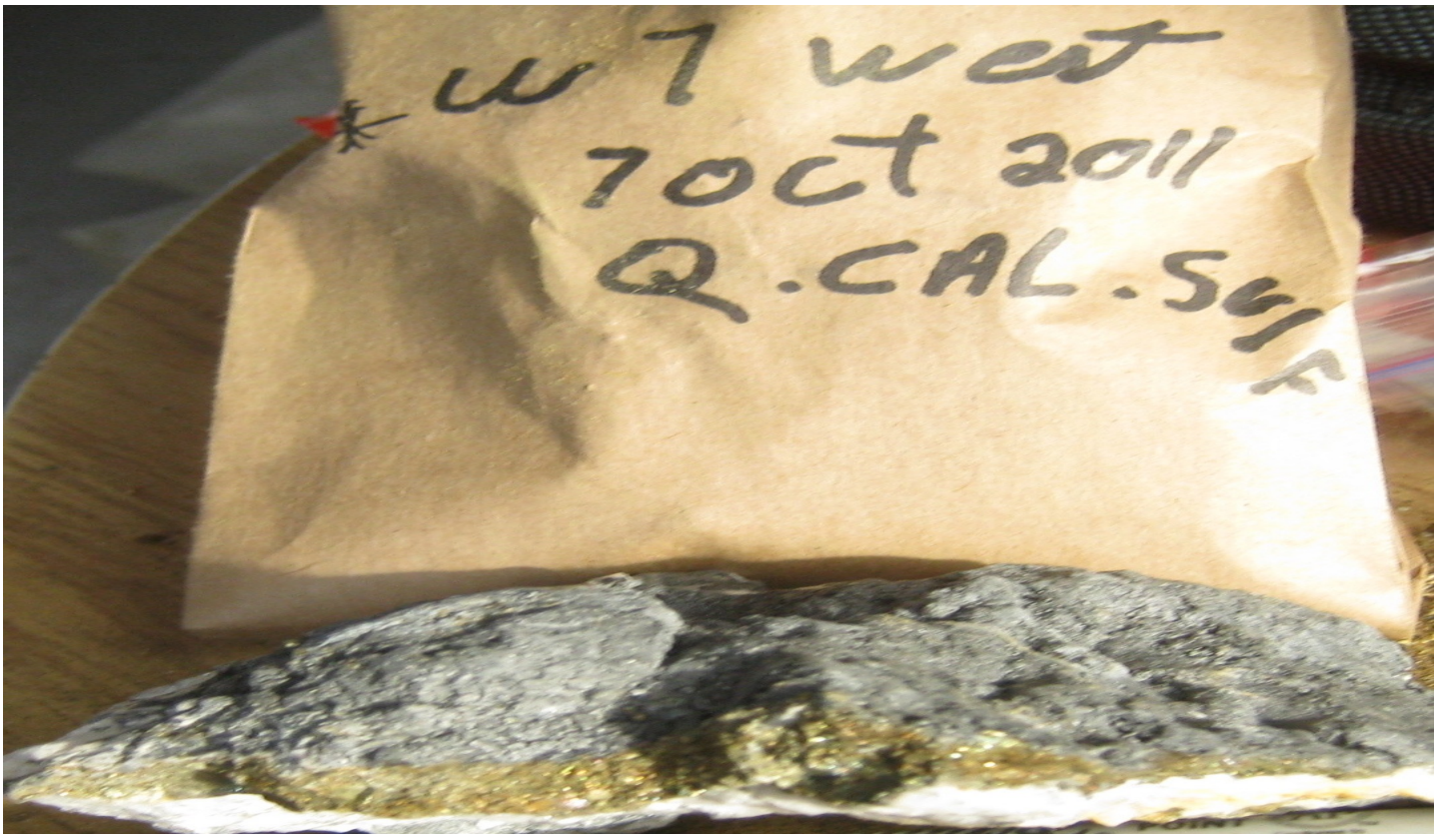
Note : Mo results are interfered with by Mo production from U fission.

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Fe	La	Lu	Nd	Ni	Ta	Tb	Th	Sn	W	U	Yb
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	W7	10.81	0.4	165.0	970	-0.5	6	26	3	43	33	1.0	754	10.90	16.0	1.70	12	340	0.5	0.5	6.7	-100	3	1.7	7.6
2	W7west	12.69	0.6	15.0	260	-0.5	9	5	-1	24	8	3.2	-2	6.76	5.8	4.00	5	-100	-0.5	3.9	4.0	-100	-1	1.3	28.0
4	W5	11.62	0.1	6.9	340	-0.5	-1	23	1	23	1	0.5	366	0.86	16.0	0.11	12	-100	-0.5	-0.5	3.5	-100	2	2.4	0.7

W5 sample -*Gossan* **and (hydrothermal) contact with bedrock that is altering to graphite through friction.**



Sampling in proximity to spring 2011 result of 34 gm/Au; Chipped from "Main Rock".



Slightly NW of W7 fall rock result of 754 ppbAu.

W7 sample

Waste7 Vein Main Rock. A definitive local vein, that will be explored further.

See July 5th 2011 Assessment Report for more info & dimensions of this vein.

Fall 2011 Sample Results - Assay Highlights & Locations.

Company : Petroutsas, Erini	T12-02263.0	Becquerel	Highlight of Sample Results Fall 2011
Submitted by : Erini Petroutsas		6790 Kitimat Rd, Unit #4	WasteInFuc- Group
Date Received : 08-Nov-12		Mississauga, ON,Canada,L5N 5L9	
Date Reported : 29-Nov-12		Ph: (905) 826-3080 Fax : (905) 826-4151	

Acme file # :WHI12000950
Samples were run as received.
Analysis performed by Neutron Activation (Method BQ-NAA-1)
A negative result denotes "Less Than".
Note : Mo results are interfered with by Mo production from U fission. Sample # 104 was not received. Some detection limits are elevated due to elevated Fe/Co/Sc...

ISO 17025
For Scope of Accreditation No. 422
Pour la portée d'accréditation no. 422

Rock Samples: R200-500 Prep and 5A Analysis	Au ppb	Cr ppm	Ba ppm
PH1 - 07 V 0595006 7097041			
PH2 - 07 V 0595011 7097065		2670	
PH3 - 07 V 0594997 7097061		2880	
PH4 - 07 V 0594959 7097038			
PH6 - 07 V 0594963 7097091		3010	
PH7 - 07 V 0595063 7097126		1730	
PH8 - 07 V 0595037 7097161		2630	
PH13 - 07 V 0595188 7097182			
PH13Mid			
PH14 - 07 V 0595165 7097199			
PH15 - 07 V 0595198 7097208			
PH-15-2			
NH1 - 07 V 0596185 7096312			
NH2- 07 V 0596176 7096309			
NH3 - 07 V 0596178 7096328			
NH3-1			
NH3-2			
NH3-3			
NH4 - 07V 0596335 7096352			
NH5 - 07V 0596420 7096393			
NH6 - 07V 0596517 7096431			
NH7 - 5 meters west of 6			
W3DBP - 07V 0595960 7096431			
W9s2 - 07V 0595187 7097210		2620	
W9s3 07V 0595116 7097228		12500	
W9s4 - 07V 0595037 7097225			
W20s1 - 07W 0593406 7098986			
W20s2 - 07W 0593548 7099049			
W21 07W 0593035 7098995			
W22-1 - 07W 593317 7099174			
W22-2 - 07W 0593234 7099150			
W2Tr3 - 07V 0596580 7096115			
W2Tr6 - 07V 0596623 7096192			
TestPit3 - 07V 0595652 7097305			
TP3W8 - same location as above			
TB1 - 07 V 0596763 7096417			
TB207 - 07 V 0597002 7096183			
TBWv - 07 V 0596947 7095981			
Waste4OxGoo - 07 V 0596257 7096624	70		
W4Ft - 07V 0596204 7096893			
W4Ravine 07V 0596153 7096817	10		
W9-1 - 07V 0595006 7097041		1700	
W9-2 - 07V 0595011 7097065		1760	
W9-3 - 07V 0594908 7097059		9710	
W20OC - 07W 0593485 7099138			
W22R - 07W 593332 7099055			

Rock Samples: R200-500 Prep and 5A Analysis	Au ppb	Cr ppm	Ba ppm
WSUpP1 - 07V 0596371 7097452			
BL2 - 07W 0595502 7098486		1160	
BL3 - 07V 0595631 7098455			
BL4 - 07V 0595728 7098469		1520	
BLW14R - 07V 0594838 7098376		1550	
BLW14R2 - 07V 0594960 7098430			
BLW14R3 - 07W 0595042 7098499			
BLMin - 07V 0594268 7098115		2420	
BLMin2 - 07V 0594322 7098242		1770	
In167 G - 07V 0596564 7085499			
CrmFL2 - 07V 0591448 7089258	10		
Fuc011 - 07W 0587519 7099508			
Fuc011-2 - 07W 0587557 7099428			
Fuc - 07W 0588164 7099125			
FucPhyl - 07W 0588499 7098931			
FucChlo - 07W 0588818 7099026	180		
Fuc3 07W 0589060 7099971			
Fuc5 - 07W 0589022 7100597			
Fuc6 - 07W 0588696 7100170			
Fuc9 - 07W 0588425 7099789			
FucO14R1 - 07W 0586334 7100767			
FucO14R2 - 07W 0586381 7100798			
FucO14R3 - 07W 0586395 7100738			
FucO14R4 - 07W 0586459 7100733	21		
Fuc016 - 07W 0586350 7099086			
Fuc016/2 - same as above			
FucO - 07W 0586448 7099167			
F07R - Same as F07S (possible contamination)			
F1CharPt - 07W 0589694 7101421	71		
F2Graph - 07W 0589662 7101464	49		
Extra Samples			
PH13-2 - 07V 0595188 7097182			
Fuc08-2 - 07W 0589466 7099390			

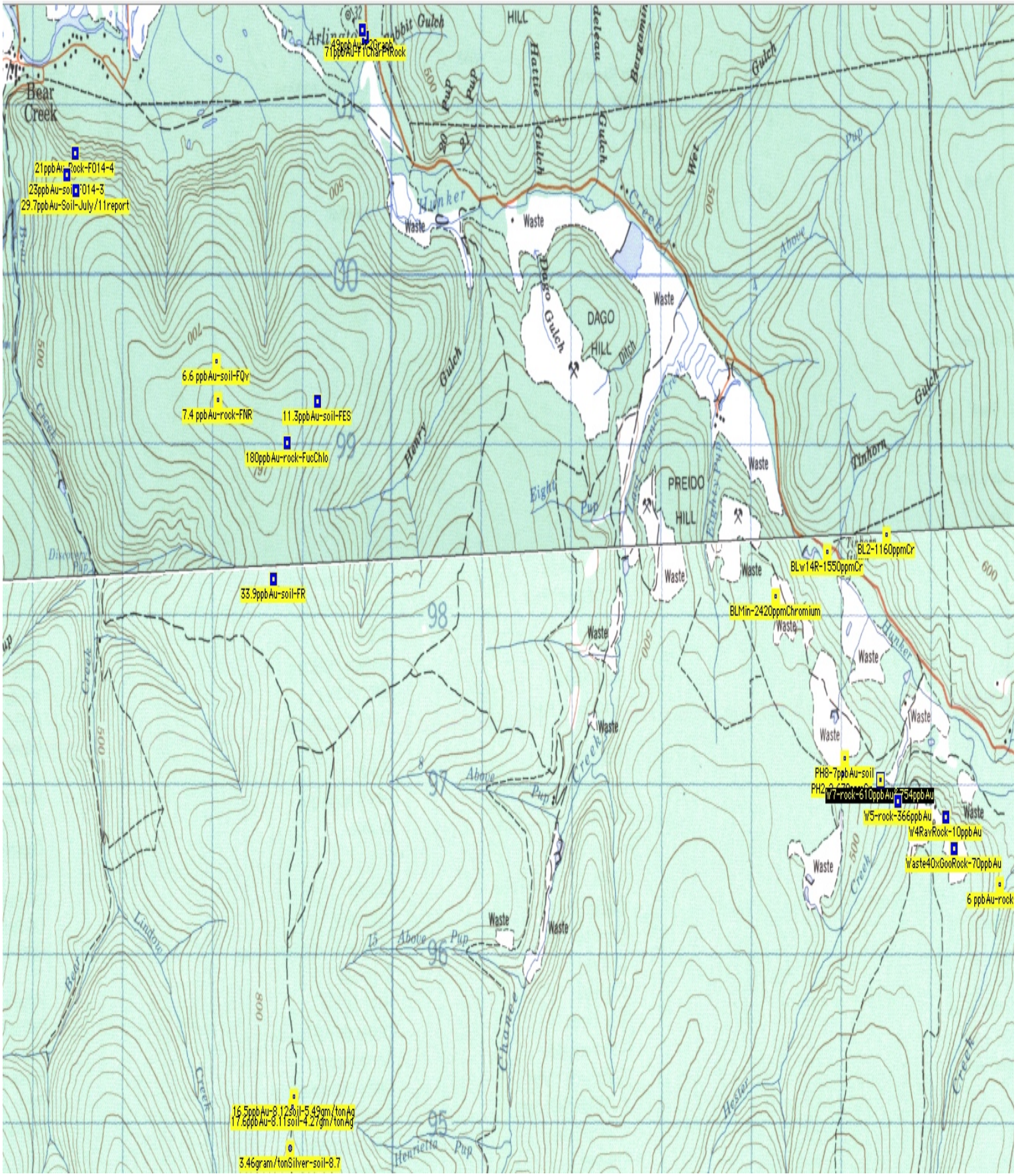
Soil Samples: S580 Prep and 1F03 Analysis	Au ppb	Ag ppb	As ppm	Cu ppm
BL1 - 07W 0595408 7098484	4.7	286	13.2	33.44
In167 B 07V 0596598 7085616	4.1	85	5	13.14
In167 C - 07V 0596612 7085667	5.2	53	9.8	17.77
In167 D - 07V 0596622 7085720	2.9	52	8.5	12.7
In167 E - 07V 596651 7085740	5.6	47	11.9	18.37
In167 F - 07V 0596669 7085797	3.5	46	8.2	6.39
In-Rd - 07V 0596200 7097680	4.3	504	17.1	54.13
CarmS2 - 07V 0590694 7088707	4.8	36	25.7	5.2
F07S - 07W 0589203 7099284	2.9	155	7.1	8.5
F07Qv 07W 0589058 7099276	5.3	186	11.1	13.53
FQv - 07W 0588034 7099506	6.6	86	7.7	10.07
F08 - 07W 0589313 7099459	5.2	39	21.2	16.66
FES - 07W 0589162 7099270	11.3	273	8.2	12.81
FNR - 07W 0588048 7099281	7.4	185	12.3	36.35
8.1 - 07V 0588884 7094536	4.4	161	4.9	7.7
8.2 - 07V 0588875 7094589	2.6	222	6.8	17.1
8.3 - 07V 0588870 7094642	5.1	84	10	15.04
8.4 - 07V 0588865 7094693	<0.2	146	3.9	5.95
8.5 - 07V 0588863 7094745	6.7	615	7.7	17.82
8.6 - 07V 0588862 7094802	5.6	155	3.9	15.64
8.7 - 07V 0588858 7094859	6.7	3457	7.7	19.99
8.8 - 07V 0588859 7094907	2.6	424	3.9	38.12
8.10 - 07V 0588877 7095035	1.6	856	7.7	69.39
8.11 - 07V 0588885 7095107	17.6	4272	3.9	54.13
8.12 - 07V 0588895 7095166	16.5	5849	9.2	33.03
F014-1 - 07W 0586319 7100673				
F014-2 - 07W 0586345 7100635				
F014-3 - 07W 0586370 7100606	23			
F014-4 - 07W 0586404 7100593				
F014-5 - 07W 0586 455 7100580				
Samples that were unrecoverable from damaged bag				
Fuc14	Rock			
Fuc14R	Rock			
8.9	Soil			
8.9 Rock	Rock			
8.13 Rock - 07V 0588898 709520	Rock			
Lind5	Rock			
F1CP1	Rock			
F1CP2	Rock			
F1CP3	Rock			

Rock Samples:R200-500 (3B02 Analysis- fire assay)	Au ppb	Au ppb (5A Neuron)
W7 - 07V 0595436 7097035	610	754
W7west - 07V 0595467 7097041	8	-2
W5 - 07V 0595629 7096908 (No 3B02 analysis on this sample)	n.a	366

*(Absent cell indicate less than <10 ppb Au assay result) See attached result list from Acme Labs Vancouver.

Empty cells indicate <10 ppb Au result.

Highlighted Results (of over 10 ppbAu) from 2011 sampling program.

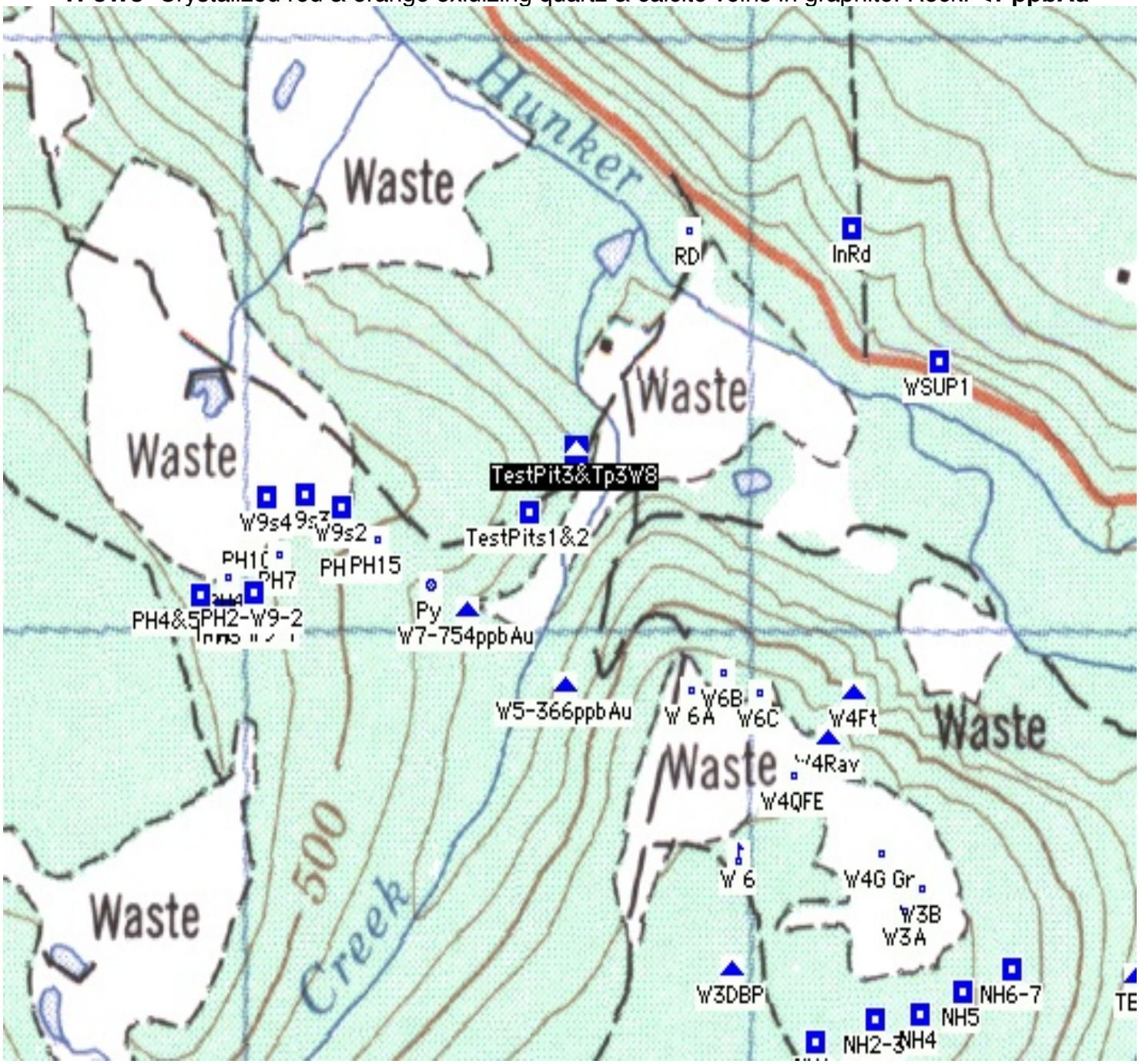


Locations of highest gold assay results from Fall 2011 sampling, (more than 10ppbAu) from rock & soil. Results by AcmeLabs ~ Neuron Activation testing & IF03 analysis on soils. Full results end of report. Detailed descriptions on the following pages.

Waste8 TestPit3,

TestPit3- Graphite altered striated & crumbling gabbro. Red, orange, burgandy staining. Calcite powder, mineralization. Rock. **~ 5 ppbAu; 67 ppmCr; 770 ppmBa**

TP3W8- Crystalized red & orange oxidizing quartz & calcite veins in graphite. Rock. **<1 ppbAu**



Waste 9"Mineral Bowl", large stripped placer area on Paradise Hill.

Rock

W9-1 -MinBowl-Mineral altered graphite, fucshite. Sampled from test pit PH1. **~ 1700 ppmCr**

W9-2 -Road-Oxidation & sulfur in carbonate altered graphite, fucshite. Test pit PH2. **~ 1760 ppmCr**

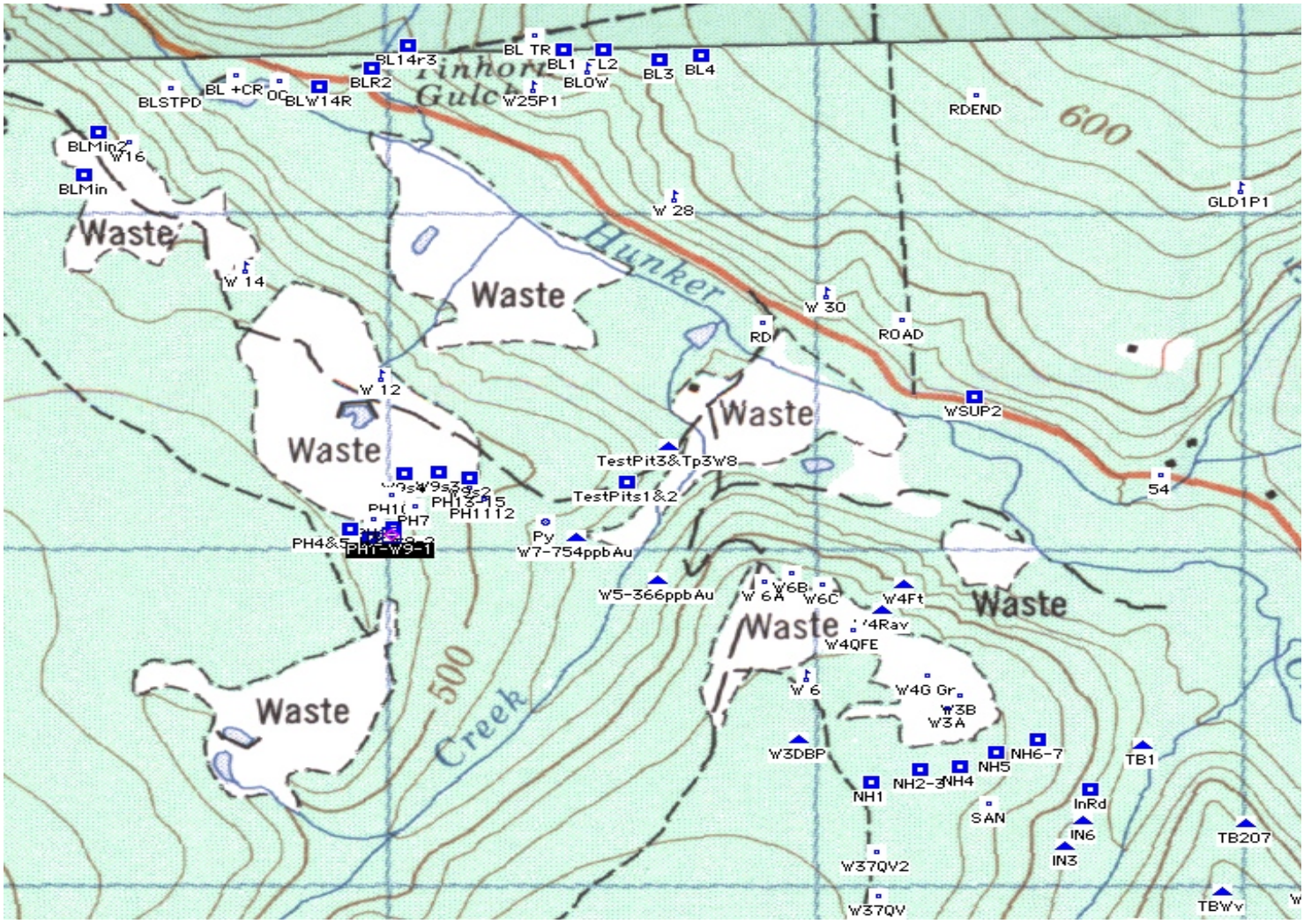
W9-3 –TestPit 4. Decomposing carbonate, chromium oxide, burgundy oxidation, blackened fault. **~ 9710 ppm Chromium.**

Soils

W9s2 -Decomposing orange carbonate green sericitic bedrock. **~ 8 ppbAu; 2620 ppmCr**

W9s3 -Decomposing fuchite coating oxidizing carbonate bedrock. **~ 5ppbAu; 12,500 ppmCr**

W9s4 -White, orange powdery decomposing rock. ~ **330 ppbCr; <1ppbAu**



Close up of PH test pits. Waste9 sampling

Location of sample **W9-1**. Test pit PH1.

W9-2. PH2

W9-3 sampled from PH4 (left).

Assay Results from Selective Sampling

Company : Petroutsas, Erini

Submitted by : Erini Petroutsas

T12-02263.0

Date Received : 08-Nov-12

Date Reported : 29-Nov-12

Rock Samples from 2011 Fall IN Group

Becquerel
A Maxxam Company
6790 Kitimat Rd, Unit #4
Mississauga, ON,Canada,L5N 5L9
Ph: (905) 826-3080 Fax : (905) 826
email : RAllen@maxxam.ca

Acme file # :WHI12000950

Samples were run as received.

Analysis performed by Neutron Activation (Method BQ-NAA-1)

A negative result denotes "Less Than".

ISO 17025
For Scope of Accreditation No. 422
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Note : Mo results are interfered with by Mo production from U fission. Sample # 104 was not received. Some detection limits are elevated due to elevated Fe/Co/Sc...

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	Fe	La	Lu	Hg	Mo	Nd	Ni	Rb	Sm	Sc	Se	Ag	Na	Ta	Tb	Th	U	Yb	Zn
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
1	PH1	14.71	0.7	54.5	690	-0.5	3	4	18	190	102	0.8	-2	2	-5	26.40	12.0	0.32	-1	-3	11	1100	45	3.0	14.3	-3	-5	0.04	-0.5	0.6	1.9	4.9	2.0	-50
2	PH2	12.30	2.6	37.0	460	-0.5	-1	8	25	2670	21	0.3	3	-1	-5	1.26	3.7	0.11	-1	-2	-5	420	71	1.2	7.8	-3	-5	0.04	-0.5	-0.5	0.8	-0.5	0.6	64
3	PH3	11.12	2.4	19.0	700	-0.5	-1	28	15	2860	22	0.6	7	2	-5	1.51	15.0	0.21	-1	-3	9	430	71	2.7	11.0	-3	-5	0.08	-0.5	-0.5	5.7	1.5	1.3	120
4	PH4	13.62	1.6	114.0	1000	-0.5	-1	14	8	110	3	0.9	-2	2	-5	6.59	14.0	0.35	-1	-2	10	-100	47	3.4	12.8	5	-5	0.19	0.5	0.5	2.4	3.7	2.2	140
5	PH6	13.29	6.9	29.0	-50	-0.5	-1	-3	-1	3010	73	-0.2	2	-1	7	5.01	-0.5	-0.05	-1	-2	-5	1500	-15	-0.1	4.2	-3	-5	-0.01	-0.5	-0.5	0.2	-0.5	-0.2	66
6	PH7	17.40	3.6	17.0	86	-0.5	-1	-3	-1	1730	69	-0.2	-2	-1	-5	3.39	0.8	-0.05	-1	-1	-5	1100	-15	0.2	3.5	-3	-5	0.02	-0.5	-0.5	0.3	-0.5	-0.2	-50
7	PH8	11.82	12.6	160.0	890	-0.5	-1	20	19	2630	33	0.3	7	2	-5	3.12	10.0	0.18	-1	-8	8	770	37	1.7	11.4	-3	-5	0.03	-0.5	-0.5	5.6	18.0	1.0	440
8	PH13	14.50	1.3	13.0	360	-0.5	2	16	2	31	7	0.4	9	-1	-5	2.83	8.7	0.35	-1	-1	8	-100	29	1.6	6.1	-3	-5	0.13	-0.5	-0.5	3.3	0.9	2.0	-50
9	PH13MID	11.94	0.4	17.0	620	-0.5	2	58	6	74	13	1.1	-2	4	-5	4.10	32.0	0.38	-1	-3	20	-100	100	5.5	13.5	-3	-5	0.41	0.8	0.7	8.9	2.4	2.4	100
10	PH14	10.70	3.9	92.3	1300	-0.5	-1	90	17	260	4	1.7	4	4	-5	3.95	48.0	0.35	-1	-6	32	-100	150	7.4	13.0	-3	-5	0.06	0.7	0.7	9.3	5.8	2.0	260
11	PH15	15.76	1.2	172.0	780	-0.5	5	6	9	890	214	2.2	-7	1	-12	36.00	19.0	0.87	-1	-5	10	1900	41	6.2	28.8	-3	-5	0.04	-0.5	1.6	2.2	11.0	5.4	470
12	PH15-2	14.54	0.3	1.3	810	-0.5	-1	27	2	29	4	1.0	-2	2	-5	3.87	14.0	0.65	-1	-1	14	-100	43	5.0	6.8	-3	-5	0.15	-0.5	0.7	5.6	1.6	3.8	-50
13	NH1	16.16	0.9	186.0	730	-0.5	-1	51	6	67	8	1.2	-2	4	-5	4.21	32.0	0.47	-1	34	15	100	68	4.9	12.7	-3	-5	0.57	1.1	0.7	9.5	8.9	2.8	140
14	NH2	13.64	0.3	50.0	1600	-0.5	-1	41	2	25	9	0.6	-2	3	-5	2.67	21.0	0.24	-1	-4	13	-100	57	3.4	5.4	-3	-5	0.11	0.6	-0.5	7.4	5.6	1.4	78
15	NH3	16.46	0.4	14.0	140	-0.5	-1	4	-1	11	2	-0.2	-2	-1	-5	1.53	2.5	0.06	-1	8	-5	-100	-15	0.6	0.9	-3	-5	0.45	-0.5	-0.5	1.0	2.6	0.4	-50
16	NH3-1	14.68	1.0	192.0	790	-0.5	-1	24	5	52	8	1.1	9	3	-5	10.20	17.0	0.53	-1	51	15	-100	59	4.8	10.3	-3	-5	0.05	-0.5	1.0	6.0	15.0	3.1	160
17	NH3-2	15.28	2.0	138.0	1100	-0.5	1	46	10	83	13	1.4	8	5	-5	11.60	30.0	0.64	-1	37	20	130	98	6.4	15.3	-3	-5	0.07	0.5	1.1	10.0	14.0	3.8	330
18	NH3-3	14.17	1.6	84.5	970	-0.5	1	50	28	47	29	1.0	-2	8	-5	6.96	25.0	3.50	-1	20	13	120	240	10.7	9.1	-3	-5	0.08	3.6	3.7	26.4	21.0	21.6	400
19	NH4	16.38	1.0	93.5	180	-0.5	-1	15	-1	34	8	0.6	2	2	-5	5.02	9.4	0.32	-1	31	7	-100	-15	2.4	3.2	-3	-5	0.13	-0.5	-0.5	5.5	15.0	1.8	96
20	NH5	15.85	1.9	120.0	750	-0.5	-1	27	2	46	14	1.0	6	2	-5	8.56	17.0	0.51	-1	63	12	-100	25	4.3	5.0	10	-5	0.17	0.5	0.8	8.0	21.0	3.2	180
21	NH6	11.66	0.5	70.3	1300	-0.5	-1	60	6	36	10	1.0	-2	6	-5	3.71	33.0	0.71	-1	8	24	110	130	6.9	8.6	-3	-5	0.12	1.7	1.1	16.0	10.0	4.3	150
22	NH7	16.51	1.5	174.0	390	-0.5	-1	40	4	51	10	0.7	-2	3	-5	4.85	23.0	0.35	-1	32	11	-100	30	3.2	10.4	-3	-5	0.36	-0.5	0.5	13.0	12.0	1.9	160
23	W3DBP	13.99	0.8	18.0	390	-0.5	-1	120	13	19	3	0.5	-2	9	-5	2.75	39.0	5.70	-1	14	42	-100	340	34.9	2.6	-3	-5	0.09	7.2	10.0	59.3	27.0	38.1	130
24	W9s2	8.38	2.8	99.5	93	-0.5	-1	-3	-1	2620	66	-0.2	8	-1	-5	3.98	1.6	-0.05	-1	-3	-5	1600	-15	0.3	5.2	-3	-5	0.02	-0.5	-0.5	0.6	0.8	0.2	90
25	W9s3	12.17	10.0	24.0	720	-0.5	-1	6	37	12500	41	0.2	5	-1	14	1.44	3.6	0.12	-1	-5	-5	820	55	1.0	10.4	-3	-5	0.03	-0.5	-0.5	5.5	6.0	0.5	530
26	W9s4	11.75	3.8	35.0	630	-0.5	-1	78	19	330	5	2.2	-2	5	-5	1.00	39.0	0.40	-1	-6	33	-100	60	8.0	19.6	-3	-5	0.10	0.7	1.1	7.7	7.4	2.5	140
27	W20s1	12.77	0.4	5.6	1400	1.0	1	54	2	240	17	1.3	-2	5	-5	3.79	30.0	0.26	-1	-3	16	-100	66	4.4	12.1	-3	-5	1.60	0.7	0.7	5.6	1.9	1.6	80

28	W20s2	11.53	0.9	11.0	1100	0.6	3	47	4	390	20	1.0	-2	4	-5	3.60	26.0	0.33	-1	-3	21	130	44	5.0	13.5	-3	-5	0.48	0.6	0.8	6.1	2.3	2.1	
29	W21	15.51	0.8	16.0	800	-0.5	-1	37	2	33	4	0.4	-2	4	-5	1.54	17.0	0.21	-1	-1	10	-100	47	2.4	5.6	-3	-5	0.33	-0.5	-0.5	6.9	3.3	1.2	-
30	W22-1	12.32	0.3	3.0	1700	-0.5	-1	56	2	120	7	1.2	-2	4	-5	1.33	31.0	0.21	-1	-3	20	-100	110	5.2	17.1	-3	-5	0.35	1.2	0.6	7.3	2.4	1.3	-
31	W22-2	13.03	0.4	5.8	1700	-0.5	-1	64	4	65	18	1.4	-2	4	-5	3.25	37.0	0.33	-1	-3	20	-100	86	5.1	11.5	-3	-5	1.14	1.0	0.6	12.0	5.0	2.0	
32	W2Tr3	13.07	0.4	2.5	850	-0.5	3	110	5	99	19	1.8	-2	4	-5	4.37	71.3	0.28	-1	-5	29	-100	80	6.7	17.4	-3	-5	2.83	0.9	0.6	22.9	6.5	1.7	
33	W2Tr6	14.29	0.3	16.0	210	-0.5	-1	9	1	16	5	0.2	3	-1	-5	1.55	5.8	0.10	-1	-1	-5	-100	-15	1.2	2.1	-3	-5	0.53	-0.5	-0.5	2.1	1.2	0.6	
34	TestPit3	13.56	3.2	21.0	770	-0.5	-1	21	1	67	2	0.8	5	-1	-5	1.51	17.0	0.25	-1	-1	14	-100	26	3.9	3.5	-3	-5	0.02	-0.5	-0.5	1.9	2.3	1.6	
35	TP3W8	15.96	0.6	18.0	650	-0.5	-1	32	3	55	12	0.9	-2	3	-5	6.07	19.0	0.25	-1	37	12	100	56	3.6	9.0	-3	-5	0.17	0.6	0.7	13.0	28.0	1.5	1
36	TB1	17.18	3.8	57.4	150	-0.5	-1	8	-1	13	16	0.3	6	-1	-5	4.12	5.7	0.31	-1	-1	5	-100	17	1.1	2.7	3	-5	0.14	-0.5	-0.5	1.6	1.9	1.8	
37	TB207	17.99	0.3	22.0	1500	-0.5	-1	38	3	76	3	0.9	-2	3	-5	2.78	23.0	0.26	-1	34	17	-100	77	4.2	11.0	-3	-5	0.15	0.6	0.5	7.3	5.3	1.6	
38	TBWv	18.64	0.4	4.3	93	-0.5	-1	5	-1	8	7	0.3	-2	-1	-5	2.18	3.3	0.23	-1	-1	-5	-100	-15	1.2	2.3	-3	-5	0.04	-0.5	-0.5	1.5	2.0	1.6	-
39	Waste40xGo	17.11	2.9	142.0	1100	-0.5	1	5	2	36	24	0.4	70	2	-5	12.40	10.0	0.20	-1	49	7	-100	43	1.9	5.5	-3	-5	0.31	-0.5	-0.5	5.9	23.0	1.1	4
40	W4Ft	17.69	2.7	139.0	1100	-0.5	1	6	2	35	24	0.6	4	2	-5	12.40	9.4	0.18	-1	51	6	-100	45	1.8	5.3	-3	-5	0.30	-0.5	-0.5	5.6	23.0	1.1	4
41	W4Ravine	16.59	1.3	14.0	1100	-0.5	1	30	2	65	5	0.8	10	3	-5	2.89	18.0	0.28	-1	48	17	-100	63	3.7	9.0	-3	-5	0.36	-0.5	0.5	5.2	4.3	1.7	1
42	W9-1	12.82	3.2	122.0	850	-0.5	-1	46	15	1700	69	1.3	-2	3	-5	5.67	24.0	0.32	-1	-4	17	980	90	4.7	15.3	-3	-5	0.26	0.8	0.8	6.4	1.6	2.0	
43	W9-2	14.90	1.9	209.0	120	-0.5	2	-3	2	1760	72	-0.2	-2	-1	-5	5.59	1.9	-0.05	-1	-3	-5	990	-15	0.4	5.3	-3	-5	0.03	-0.5	-0.5	0.7	-0.5	0.2	
44	W9-3	13.99	10.9	18.0	780	-0.5	-1	-3	25	9710	32	0.2	-2	-1	5	1.14	2.2	0.09	-1	-5	-5	640	38	0.6	6.6	-3	-5	0.04	-0.5	-0.5	2.9	4.2	0.4	3
45	W20OC	14.69	0.3	2.0	1600	0.8	1	54	3	46	9	1.1	-2	3	-5	3.86	28.0	0.28	-1	-3	20	-100	87	4.8	13.5	-3	-5	0.30	0.7	0.9	6.7	2.5	1.7	
46	W22R	17.90	0.3	22.0	190	-0.5	11	-3	-1	75	3	0.3	-2	-1	-5	2.07	2.0	0.09	-1	-1	-5	-100	-15	0.8	1.8	-3	-5	0.05	-0.5	-0.5	0.4	0.6	0.6	-
47	WSUpP1	16.02	0.5	13.0	550	-0.5	2	65	8	47	8	0.8	-2	6	-5	2.41	39.0	1.20	-1	-8	17	-100	270	8.1	7.7	-3	-5	2.65	3.8	1.8	30.5	14.0	7.7	1
48	BL2	18.49	0.2	76.9	89	-0.5	10	-3	2	1160	17	-0.2	-2	-1	-5	2.36	0.8	0.07	-1	-1	-5	-100	-15	0.4	6.7	-3	-5	0.02	-0.5	-0.5	-0.2	-0.5	0.5	-
49	BL3	16.69	0.2	1.4	-50	-0.5	-1	-3	-1	7	2	-0.2	-2	-1	-5	1.80	0.7	0.06	-1	-1	-5	-100	-15	0.3	1.1	-3	-5	0.01	-0.5	-0.5	0.4	1.6	0.4	-
50	BL4	17.33	1.7	4.5	150	-0.5	9	-3	-1	1520	48	-0.2	-2	-1	-5	3.31	1.9	-0.05	-1	-1	-5	690	-15	0.5	5.2	-3	-5	0.05	-0.5	-0.5	-0.2	-0.5	0.3	
51	BLW14R	15.29	3.7	748.0	330	-0.5	3	18	3	1550	31	0.4	-2	2	-5	4.00	11.0	0.15	-1	-3	7	340	21	1.8	8.5	-3	-5	0.02	-0.5	-0.5	3.3	1.8	0.9	1
52	BLW14R2	17.44	0.3	260.0	-50	-0.5	7	6	-1	615	13	0.3	-2	-1	-5	3.59	3.4	0.14	-1	-1	-5	290	-15	0.9	6.6	-3	-5	-0.01	-0.5	-0.5	2.5	0.8	0.7	
53	BLW14R3	16.68	0.2	12.0	-50	-0.5	-1	-3	-1	21	2	-0.2	-2	-1	-5	1.43	0.6	0.16	-1	-1	-5	-100	-15	0.4	0.5	-3	-5	-0.01	-0.5	-0.5	-0.2	0.9	0.9	-
54	BLMin	11.56	0.5	17.0	-50	-0.5	-1	-3	-1	2420	50	0.4	-2	-1	-5	5.91	-0.5	0.14	-1	-3	-5	630	-15	1.0	31.1	-3	-5	-0.01	-0.5	-0.5	-0.2	-0.5	0.9	
55	BLMin2	12.25	1.4	199.0	-50	-0.5	-1	-3	-1	1770	91	-0.2	-2	-1	-5	5.01	-0.5	-0.05	-1	-2	-5	1500	-15	-0.1	8.0	-3	-5	-0.01	-0.5	-0.5	-0.2	-0.5	-0.2	-
56	In167 G	14.55	0.5	2.2	3100	-0.5	-1	51	-1	26	-1	0.5	-2	5	-5	1.34	27.0	0.19	-1	-1	17	-100	150	3.4	5.9	-3	-5	0.17	0.8	-0.5	6.1	1.7	1.1	-
57	CrmFL2	14.91	1.4	3.7	2600	-0.5	-1	58	-1	14	-1	0.6	10	5	-5	1.20	32.0	0.36	-1	-2	17	-100	150	4.3	6.0	-3	6	0.11	0.7	-0.5	8.3	2.1	2.1	-
58	Fuc011	15.98	0.3	0.8	2800	-0.5	1	45	2	10	2	0.6	-2	3	-5	1.15	23.0	0.23	-1	-1	12	-100	110	3.7	4.6	-3	-5	0.39	0.6	-0.5	6.7	1.6	1.5	-
59	Fuc011-2	15.50	0.5	1.4	2500	-0.5	-1	58	2	10	1	0.9	-2	5	-5	1.89	30.0	0.40	-1	-2	19	-100	160	4.8	9.3	-3	-5	0.82	1.0	-0.5	10.0	2.4	2.4	
60	Fuc	14.42	0.4	1.0	2200	-0.5	-1	29	2	7	-1	0.5	-2	2	-5	1.28	14.0	0.21	-1	-1	11	-100	100	2.5	5.0	-3	-5	0.67	-0.5	-0.5	4.4	1.1	1.3	-
61	FucPhyl	14.82	0.5	1.6	3100	-0.5	-1	75	6	6	-1	1.1	16	6	-5	1.93	40.0	0.38	-1	-3	23	-100	130	6.0	7.1	-3	-5	1.77	0.9	0.8	13.0	3.2	2.3	
62	FucChlo	14.71	1.6	78.5	3000	-0.5	-1	110	5	6	-1	1.2	180	6	-5	1.50	56.7	0.65	-1	-3	37	-100	170	8.1	7.0	-3	-5	0.04	1.1	0.9	21.2	6.1	3.9	
63	Fuc3	14.70	0.4	1.6	3000	-0.5	-1	31	4	-5	-1	0.3	-2	4	-5	1.40	15.0	0.34	-1	-3	10	-100	130	2.8	5.1	-3	-5	1.98	1.0	0.6	12.0	2.1	2.1	
64	Fuc5	17.34	0.5	21.0	2600	-0.5	-1	77	3	7	2	1.1	-2	5	-5	1.87	38.0	0.38	-1	-2	23	-100	160	5.5	7.3	-3	-5	0.07	0.9	0.6	15.0	3.7	2.2	
65	Fuc6	15.99	0.5	5.9	2600	-0.5	-1	95	6	10	-1	2.0	-2	5	-5	1.68	59.8	0.64	-1	-3	41	-100	160	11.7	8.3	-3	-5	1.19	1.0	1.5	16.0	3.5	4.0	
66	Fuc9	16.66	1.2	98.1	5680	-0.5	-1	100	3	-5	-1	1.3	-2	6	-5	1.76	53.5	0.37	-1	-6	37	-100	160	8.5	6.9	-3	-5	0.05	1.0	0.9	19.0	4.6	2.3	-
67	FucO14R1	13.75	0.6	2.0	3000	0.6	-1	71	2	9	1	0.8	-2	5	-5	1.70	27.0	0.34	-1	-3	20	-100	120	4.8	6.8	-3	-5	1.01	1.1	0.6	12.0	1.9	2.2	
68	FucO14R2	12.00	0.7	0.7	3100	-0.5	-1	69	5	8	2	1.3	-2	6	-5	2.18	37.0	0.36	-1	-3	22	-100	130	5.5	8.4	-3	-5	1.15	1.2	0.8	11.0	4.0	2.2	
69	FucO14R3	16.24	0.6	-0.5	2300	-0.5	1	78	3	6	1	1.2	-2	5	-5	1.81	41.0	0.33	-1	-3	26	-100	78	6.3	6.6	-3	-5	1.63	1.0	0.8	9.1	4.2	2.1	
70	FucO14R4	15.29	0.4	2.6	1500	0.8	-1	48	5	77	12	1.0	21	4	-5	3.82	25.0	0.33	-1	-2	17	-100	120	4.4	11.9	-3	-5	0.46	0.7	0.7	8.4	3.7	2.0	1
71	FucO16	13.58	0.7	7.6	4200	-0.5	-1	57	1	29	4	1.1	-2	5	-5	2.16	30.0	0.41	-1	-2	21	-100	95	5.0	7.1	-3	-5	0.05	1.0	0.7	12.0	4.5	2.4	
72	FucO16/2	17.36	0.6	6.2	860	-0.5	-1	30	-1	17	2	0.5	-2	3	-5	1.63	18.0	0.17	-1	-2	11	-100	34	2.6	4.3	-3	-5	3.28	0.6	-0.5	6.5	2.1	1.0	-
73	FucO	16.27	0.4	2.0	2600	-0.5	-1	56	5	9	1	1.2	-2	5	-5	1.67	35.0	0.56	-1	-2	27	-100	210	7.6	6.7	-3	-5	0.72	1.0	1.0	13.0	5.0	3.4	
74	F07R	14.70	0.7	4.3	3700	-0.5	-1	73	4	11	2	0.9	-2	5	-5	1.53	36.0	0.29	-1	-2	21	-100	150	5.1	5.5	-3	-5	0.16	1.0	-0.5	11.0	2.5	1.8	-
75	8.14	12.87	1.7	16.0	1600	-0.5	-1	45	2	11	-1	0.3	-2	4	-5	1.34	25.0	0.16	-1	-1	12	-100	130	2.7	4.5	-3	-5	0.08	0.8	-0.5	6.8	3.4	0.9	
76	F1CharPt	15.62	7.8	136.0	880	-0.5	3	58	6	92	82	1.2	71	4	-5	17.90	35.0	0.32	-1	-4	24	-100	83	5.9	11.2	44	-5	0.55	1.3	0.5	10.0	2.9	1.8	
77	F2Graph	20.03	8.3	176.0	440	-0.5	4	22	3	93	99	0.8	49	3	-5	20.90	15.0	0.20	-1	-4	7	-100	55	2.6	9.2	68	-5	0.83	0.8	-0.5	6.5	2.4	0.9	-
78	PH13-2	14.62	1.1	32.0	1200	-0.5	2	65	8	85	24	1.3	5	5	-5	6.21	37.0	0.43	-1	-3	24	-100	100	6.5	15.2	-3	-5	0.44	1.3	0.9	11.0	3.1	2.7	9
79	Fuc08-2	16.72	0.5	1.4	2300	-0.5	-1	64	4	7	3	1.1	-2	5	-5	1.62	43.0	0.30	-1	-2	25	-100	140	6.0	6.2	-3	-5	0.95	1.4	0.8	13.0	2.9	2.1	6
80	F014-1	13.06	1.2	27.0	2700	3.6	5	37	7	310	16	0.9	-2	3	-5	3.22	20.0	0.34	-1	-5	13	-100	61	4.1	8.0	-3	-5	0.39	-0.5	0.7	6.4	3.9	2.0	15
81	F014-2	15.18	1.8	17.0	1100	1.4	-1	51	3	76	11	0.9	-2	6	-5	3.31	28.0	0.26	-1	-3	16	-100	56	4.1	11.5	-3	-5	0.79	0.6	0.6	8.7	3.0	1.6	7
82	F014-3	14.13	1.3	21.0	1400	1.0	-1	47	3	52	7	0.8	23	5	-5	2.81	25.0	0.26	-1	-2	14	-100	61	4.0	8.2	-3	-5	0.74	0.8	-0.5	8.4	2.6	1.6	5
83	F014-4	14.76	1.7	38.0	1400	-0.5	-1	58	4	69	9	0.9	-2	6	-5	3.13	30.0	0.35	-1	-3	20	-100	71	5.0	10.7	-3	-5	0.95	1.0	0.5	8.5	3.0	2.0	7

Soil Sample Results

File Created:	30-May-2013																																					
Job Number:	WHI12000951		Soil Sample Results from Fall 2011 IN Group																																			
Number of Sa	50		SS80 100g to -80 mesh																																			
Project:	Petra		1F03 Aqua Regia digestion																																			
Shipment ID:																																					
P.O. Number:																																					
Received:	01-Oct-2012																																				
Method		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	Ga	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	Hg	Se	Te		
Unit		PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	PPB	PPM	PPM		
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.1	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	5	0.1	0.02	
Sample	Type																																				
BL1	Soil	2.93	33.44	12.71	79.1	286	39.0	11.0	319	2.58	13.2	1.6	4.7	6.1	13.9	0.14	1.38	0.23	49	0.12	4.9	18.2	28.1	0.42	425.9	0.026	2	1.67	0.004	0.04	0.2	5.0	0.08	11	0.5	<0.02	
In167 B	Soil	1.08	13.14	30.16	43.7	85	9.4	5.0	190	1.59	5.0	3.0	4.1	11.4	10.2	0.05	0.29	0.19	19	0.08	3.4	26.4	16.4	0.52	464.2	0.035	2	1.06	0.002	0.08	<0.1	2.3	0.11	12	0.4	<0.02	
In167 C	Soil	0.86	17.77	27.21	53.9	53	20.5	9.6	315	2.39	9.8	1.0	5.2	10.4	11.6	0.41	0.62	0.21	37	0.09	4.3	20.9	25.3	0.52	218.8	0.043	2	1.77	0.003	0.07	0.2	3.4	0.13	40	0.2	<0.02	
In167 D	Soil	0.84	12.70	28.67	30.9	52	7.1	3.3	113	1.51	8.5	1.5	2.9	8.6	8.3	0.11	0.42	0.22	18	0.05	2.9	15.9	11.1	0.23	147.4	0.026	1	1.20	0.001	0.06	0.1	1.7	0.08	10	0.2	<0.02	
In167 E	Soil	1.39	18.37	30.39	61.3	47	20.4	8.2	244	2.81	11.9	0.8	5.6	7.2	8.9	0.30	0.80	0.23	48	0.07	5.5	13.6	29.5	0.47	207.7	0.041	2	1.85	0.003	0.05	0.2	2.7	0.11	8	<0.1	0.05	
In167 F	Soil	1.47	6.39	14.80	24.0	46	5.1	2.3	143	1.77	8.2	0.5	3.5	2.0	7.0	0.24	0.46	0.30	69	0.05	7.2	12.7	10.8	0.15	97.0	0.052	<1	0.78	0.002	0.04	0.1	1.2	0.07	<5	<0.1	<0.02	
In-Rd	Soil	35.89	54.13	11.96	113.3	504	24.5	5.6	351	2.57	17.1	2.9	4.3	3.9	63.4	0.75	0.99	0.10	43	1.70	1.9	7.7	16.8	0.58	72.4	0.002	<1	0.68	0.004	0.03	0.4	1.9	<0.02	<5	2.9	<0.02	
CarmS2	Soil	1.53	5.20	21.66	39.5	36	3.6	1.2	33	1.02	25.7	2.1	4.8	14.0	7.5	0.11	0.20	0.11	3	0.08	1.4	33.2	2.6	0.06	119.0	0.001	2	0.32	0.003	0.05	<0.1	1.4	0.03	<5	0.3	<0.02	
F07S	Soil	1.06	8.50	23.84	30.4	155	8.9	3.8	172	2.34	7.1	0.6	2.9	4.6	8.6	0.14	0.62	0.23	52	0.07	5.6	14.4	18.1	0.25	224.1	0.028	<1	1.53	0.002	0.05	0.2	2.2	0.10	12	0.1	<0.02	
F07Qv	Soil	0.78	13.53	24.04	31.4	186	12.6	4.7	158	1.98	11.1	1.4	5.3	13.0	6.2	0.06	0.61	0.22	39	0.05	4.5	22.6	23.3	0.31	220.2	0.030	1	1.58	0.002	0.05	0.1	2.6	0.09	<5	0.1	<0.02	
FQv	Soil	0.54	10.07	18.77	25.2	86	8.4	3.3	114	1.34	7.7	0.8	6.6	7.4	10.0	0.06	0.42	0.15	27	0.09	2.6	24.3	14.2	0.24	216.8	0.025	2	0.96	0.004	0.06	0.1	2.0	0.05	5	0.2	0.03	
F08	Soil	0.59	16.66	22.55	20.5	39	9.2	4.1	192	1.35	21.2	6.8	5.2	15.9	10.5	0.07	0.78	0.17	22	0.05	2.2	59.1	12.3	0.18	638.3	0.014	<1	0.88	0.003	0.07	0.1	3.8	0.06	33	0.5	<0.02	
FES	Soil	0.96	12.81	21.45	37.7	273	13.3	6.1	262	2.20	8.2	0.8	11.3	7.7	6.2	0.09	0.62	0.19	46	0.06	4.6	14.8	25.5	0.34	213.7	0.039	<1	1.75	0.002	0.05	0.2	2.7	0.09	12	0.2	0.03	
FNR	Soil	0.78	36.35	15.24	53.8	185	23.8	9.8	366	3.01	12.3	1.8	7.4	9.4	19.6	0.03	0.84	0.25	62	0.14	5.5	34.9	35.4	0.47	945.3	0.064	1	1.87	0.014	0.05	0.2	6.5	0.07	40	0.2	<0.02	
8.1	Soil	0.67	7.70	18.24	27.1	161	7.4	3.3	125	1.60	4.9	0.8	4.4	7.4	10.4	0.02	0.34	0.16	30	0.07	4.7	14.3	13.8	0.29	281.2	0.019	<1	1.52	0.002	0.05	<0.1	2.1	0.10	<5	0.2	<0.02	
8.2	Soil	1.18	17.10	30.61	58.8	222	20.1	7.9	326	2.74	6.8	0.7	2.6	5.2	12.9	0.10	0.64	0.25	60	0.10	7.1	14.6	31.9	0.43	379.3	0.047	<1	2.28	0.003	0.07	0.1	3.3	0.14	13	<0.1	0.07	
8.3	Soil	1.09	15.04	24.42	34.5	84	14.4	6.0	214	2.56	10.0	0.9	5.1	10.1	11.5	0.06	0.63	0.24	51	0.10	5.7	14.2	29.1	0.36	207.0	0.039	1	1.98	0.003	0.05	0.1	3.0	0.11	19	0.3	<0.02	
8.4	Soil	0.34	5.95	18.75	17.8	146	4.4	2.1	85	1.08	3.9	0.6	<0.2	4.6	7.5	0.03	0.23	0.15	16	0.04	2.3	10.2	7.5	0.16	140.1	0.012	<1	0.84	0.002	0.09	<0.1	1.1	0.06	<5	<0.1	<0.02	
8.5	Soil	1.22	17.82	75.59	39.4	615	13.4	4.2	152	1.83	7.7	1.0	6.7	7.5	9.0	0.06	0.59	0.35	37	0.06	5.0	14.1	20.2	0.33	188.8	0.027	<1	1.64	0.003	0.04	<0.1	2.7	0.11	15	<0.1	0.04	
8.6	Soil	1.49	15.64	85.33	41.6	155	12.9	3.5	131	1.45	3.9	1.1	5.6	5.8	11.3	0.05	1.86	0.28	30	0.08	3.9	15.2	16.4	0.55	116.9	0.039	<1	1.30	0.005	0.03	<0.1	2.5	0.02	<5	0.4	<0.02	
8.7	Soil	3.63	19.99	154.50	61.5	3457	14.3	5.5	165	2.43	9.2	1.2	6.7	7.1	9.3	0.12	6.97	0.38	51	0.06	6.9	16.2	26.0	0.46	196.3	0.034	<1	2.19	0.002	0.05	<0.1	3.4	0.15	56	0.1	0.04	
8.8	Soil	0.51	38.12	134.93	120.0	424	6.4	0.8	49	0.87	3.4	2.2	2.6	30.6	2.7	0.24	4.34	0.25	5	0.01	1.7	87.4	3.6	0.25	95.6	0.002	<1	0.75	<0.001	0.04	0.7	1.9	0.13	74	0.4	<0.02	
8.10	Soil	0.67	69.39	460.07	131.8	856	7.0	2.8	92	1.61	5.4	1.1	1.6	5.9	5.7	0.07	1.38	0.12	33	0.04	5.6	28.6	15.3	0.24	246.4	0.010	<1	1.80	0.001	0.06	0.1	2.0	0.14	20	<0.1	<0.02	
8.11	Soil	2.52	54.13	475.47	51.0	4272	6.8	2.7	80	1.84	13.5	1.5	17.6	10.5	9.5	0.04	13.36	0.19	28	0.05	3.9	35.5	15.0	0.28	158.5	0.015	<1	1.17	0.003	0.05	0.1	1.8	0.12	411	0.3	<0.02	
8.12	Soil	4.06	33.03	375.31	27.4	5489	4.0	1.6	64	1.36	22.2	1.8	16.5	10.7	7.2	0.02	26.55	0.17	14	0.03	2.1	37.3	7.0	0.22	97.4	0.010	2	0.65	0.002	0.04	<0.1	0.9	0.06	773	0.6	0.03	

“BenLevy” sampling, south of power line past Tinhorn

Near & around Ben Levi occurrence. **Waste23 & 24.**

BL1 -Soil- Decomposing & crumbling orange oxidized altered graphite, green tinged clay. **~ 4.7 ppbAu; 33.44 ppmCu;**

BL2 -Carbonate altered quartz *chromium* staining. In contact with biotite tuff system. **~ 1160 ppm Chromium; <1ppbAu**

BL3 -Oxidized quartz vein in contact with volcanic bedrock. **<1ppbAu**

BL4 -Chloritic sedimentary. Oxidized, altered calcite/quartz veins. Same location. **~ 1520 ppb Chromium; <1ppbAu**

BLW14R -Decomposing calcite, chlorite and hydrothermaly altered orange & white coated graphite. **1150 ppmCr; <1ppbAu; 748 ppmAs; <1ppbAu**

BLW14R2 -Orange stained quartz veins coated with chloritic schist through graphitic fault zone. Quartz crystalized in places, white carbonate coated. **~ 615 ppmCr; 260 ppmAs; <1ppbAu**

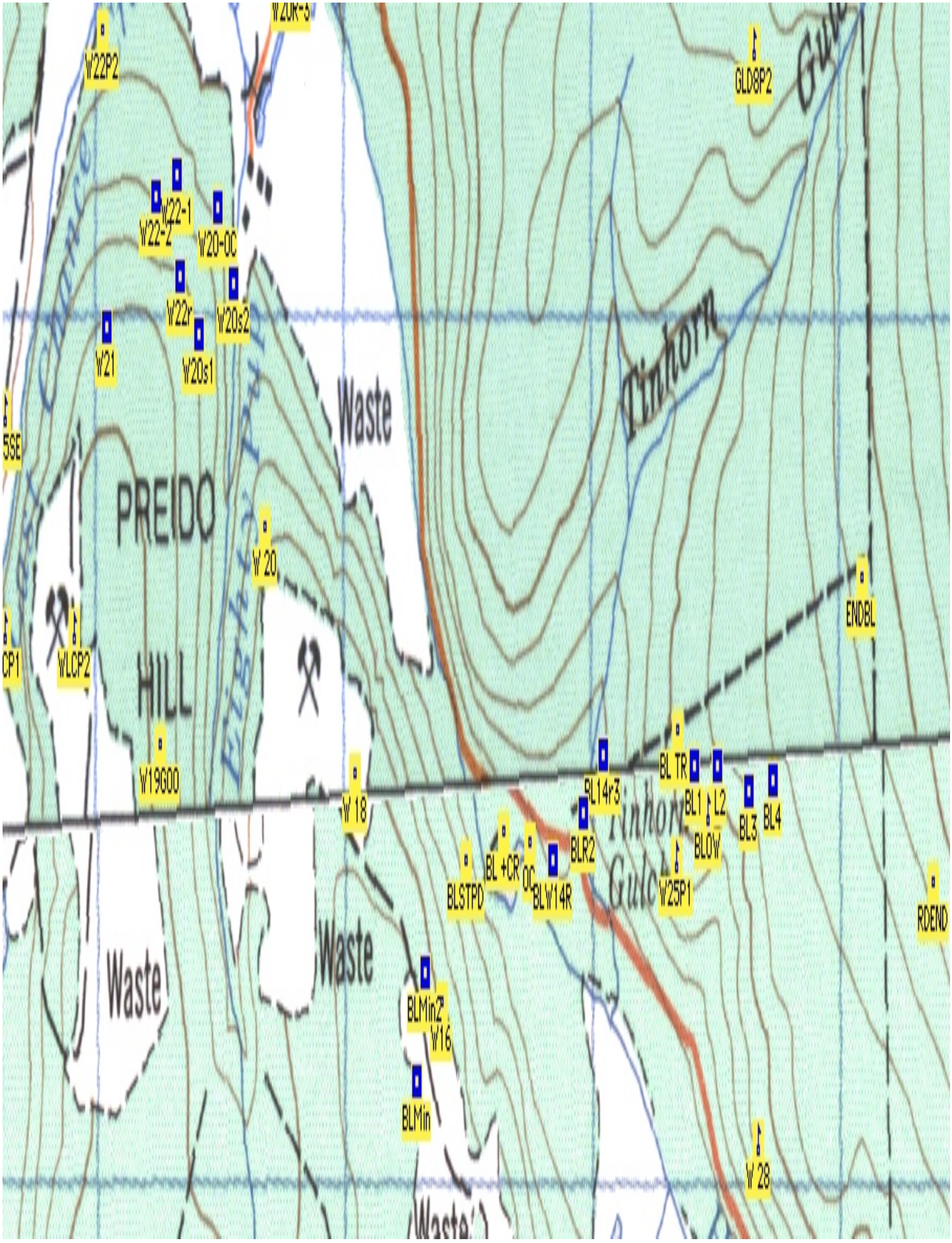
BLW14R3 -Same type of rock and location as above. **~21 ppm Cr; <1ppbAu**

BLMin -Carbonate altered gabbro with quartz & calcite. Dark orange, brown, white powders. **~ 2420 ppmCr; <1ppbAu**

BLMin2 -Same location as above. Blue/green calcitic carbonate bedrock. Oxidation, test for copper content. **~ 1770 ppmCr; <1ppbAu**

Though gold results were low, this area is being outlined a chromium rich fault zone. It is possible that the high-grade layer is close to here or at depth.

Hydrothermally altered chromium stained quartz/ calcite. **BenLevi Occurrence area**.


W22P2
W20R-3
GLD8P2
W22-1
W22-2
W20-OC
W22r
W20s2
W21
W20s1
5SE
PREIDO
HILL
Waste
Tinhorn
Gulch
Public Road
W 20
CP1
WLCP2
W19600
W 18
ENDBL
BL TR
BL1
L2
BL3
BL4
BL14r3
BLR2
BLOW
BL +CR
OC
BLSTPD
BLW14R
W25P1
RDEND
BLMinZ
W16
BLMin
W 23

Waste20, 21, 22 Nose of Preido Hill.

W20s1 -Red orange and brown decomposing rock. Clay. **<1ppbAu; 240 ppmCr**
W20s2 -Decomposing oxides and calcite in hyrothermaly altered graphite. Clay. **<1ppbAu; 390 ppmCr**
W20OC -Old cars outcrop. Decomposing greenstone, orange & white powders. **<1ppbAu**

(Possibly layers of chromitite). This type of bedrock is observed on Last Chance Creek.

W21- White black orange decomposing silicate, mica. Powder. Near Eighty Pup. **<1ppbAu; 33 ppmCr**
W22-1 -White decomposing powder rock system, orange powdery segments. **<1ppbAu; 120 ppmCr**
W22-2 -Decomposing altered quartz with graphite. Coated in white & orange powder. **<1ppbAu**
W22R -Rock- Chromium stained calcite/quartz veins. Orange oxidation, black alteration. **<1ppbAu**

WasteSuprise35 -Outcrop near road.

WSUpP1 -Carbonate altered rock banded with graphite, orange oxidation and white powder. **<1ppbAu**
In-Rd -Pulverized fine sand. Iron oxidized graphite. **~ 4.3 ppbAu; 504 ppbAg**

August 9 - 12th, 2011
Claims: Fuc:1,2,3,5,6,9 &14Fuc:07,08,011,014,016 &0
Eight(8): 2,3,4 &5

Sample List of Rock & Soil – Results page 65.

FQv – **Soil**. Shiny fine silt, white orange tinge. .6m deep. **~ 6.6 ppbAu;**
FES – Soil. Same light orange powder. Coating hydro altered crumbling bedrock..4m **~11.3 ppbAu**
FNR- Orange powder coated, green hued altered crumbing carbonate **rock**. .5m **~ 7.4 ppbAu**

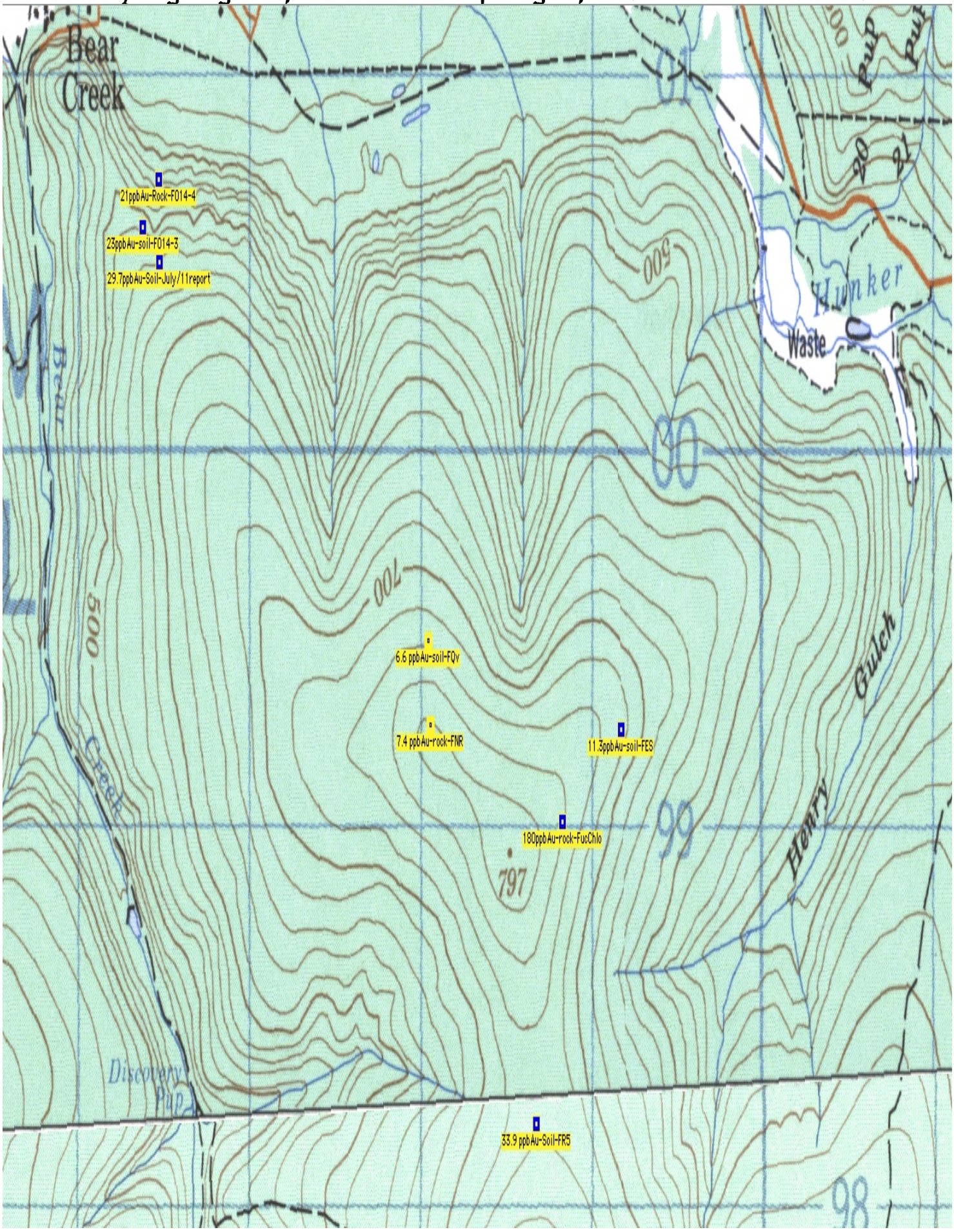
FucChlo-Rock -Chlorite/quartz phyllite bordering crystallized altered quartz vein with orange oxidation. **~ 180 ppbAu; 3000 ppmBarium; 6 ppmCr**

South East of Bear Creek Compound – Rock Samples

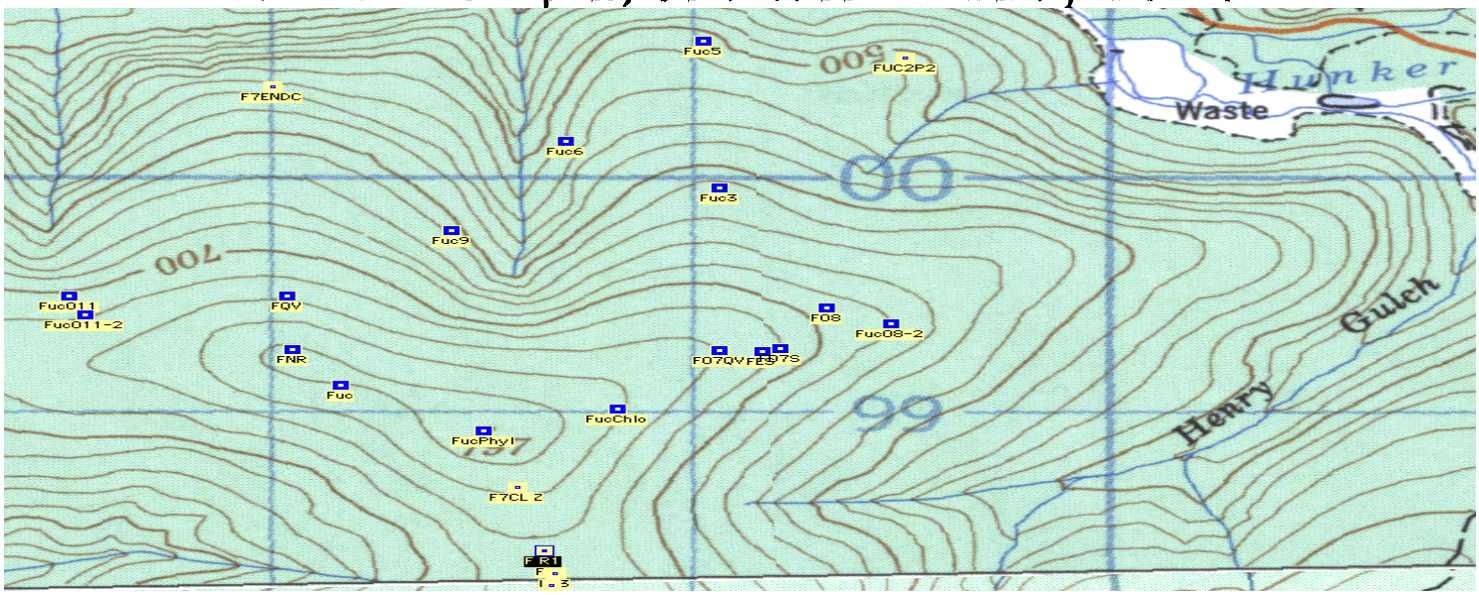
FucO14R1 -Carbonate altered quartz with various sulfides and possible visible gold on the orange oxidized coating. Blackend segments, calcite powder. Test whole amount.* **<1ppbAu**
FucO14R2 -"Wavy" grey/green quartz, forest green (chromium?) segments in chlorite schist housing small iron pyrite cubes. **<1ppbAu**
FucO14R3 -Same wavy, folded, grey/green quartz vein with calcite in chlorite schist. **<1ppbAu**
FucO14R4 Oxidizing graphite schist. **~ 21 ppbAu**

– Close up of iron cubes on FucO14R2 sample.

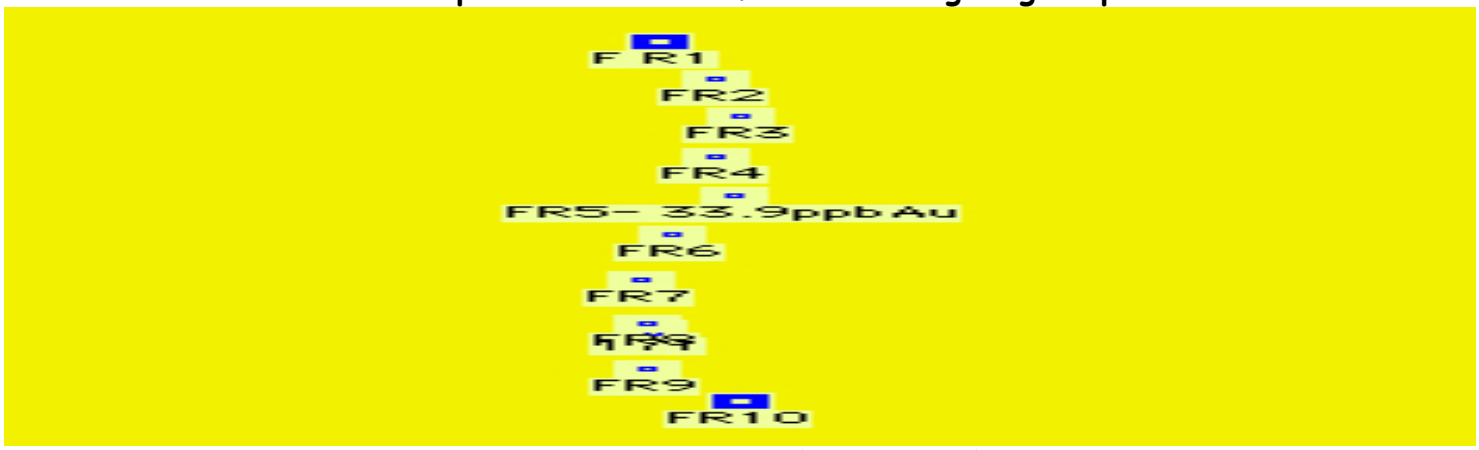
Assay Highlights from 2011 sampling of the "Fuc Claims Area"



2011 Fall samples, Bear Creek to Henry Gulch.



Blow-up & continuation of FR line along ridge top.



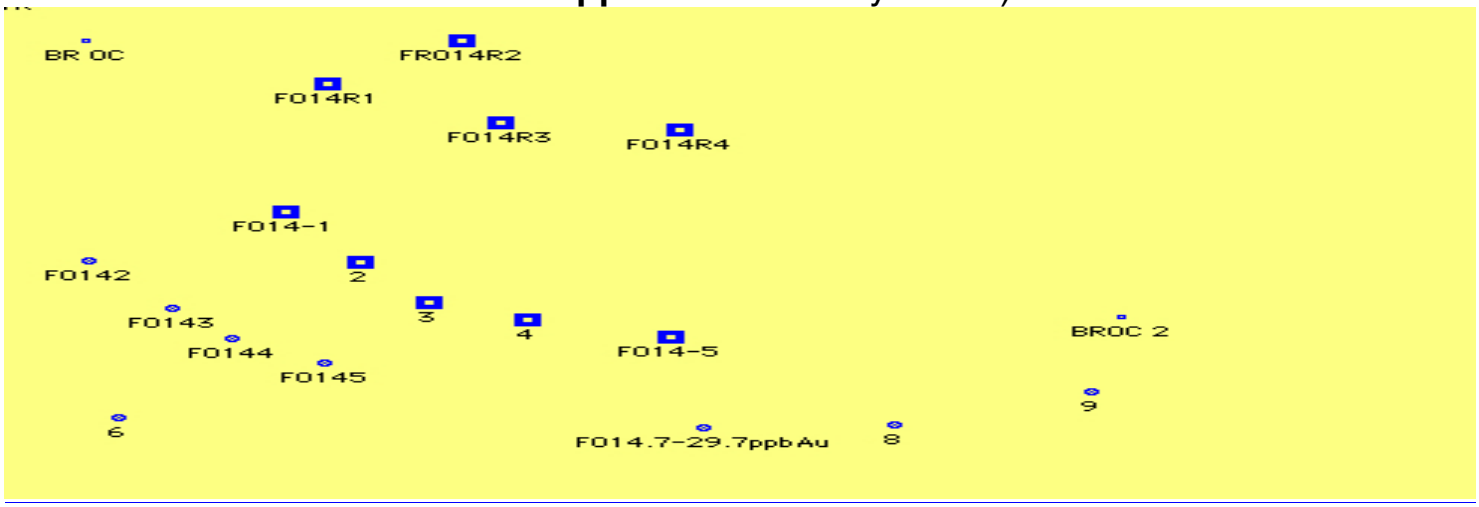
Soil Sampling Results August 2011

Ridge between Discovery Pup on Bear Creek, & Henry Creek's headwaters. Claims FucF & FucC.

ACME ANALYTICAL LABORATORIES LTD.		Final Report																							
Client:	Petroutsas, Erini																								
File Crea	19-Jun-2012																								
Job Num	DAW12000001		Acme																						
Number	224																								
Project:	CAuCripFuc																								
Received	14-May-2012																								
	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15						
	Analyte	Cu	Pb	Zn	Ag	Co	Mn	Fe	As	Au	Sr	La	Ba	Rb	Sn	Y	Ce	Pd	Pt						
	Unit	PPM	PPM	PPM	PPB	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB						
	MDL	0.01	0.01	0.1	2	0.1	1	0.01	0.1	0.2	0.5	0.5	0.5	0.1	0.1	0.01	0.1	10	2						
		Copper	Lead	Zinc	Silver	Cobalt	Manganea	Iron	Arsenic		Strontium	Lanthanum	Barium	Rubidium	Tin	Ytterbium	Cerium	Palladium	Platinum	Utm Co-ordinates				Elevati	
FR-1	Soil	37.94	17.18	98.3	614	9.2	234	3.35	9.3	2.1	13.2	19.9	316.9	9.9	2.6	10.46	37.3	<10	<2						
FR-2	Soil	44.20	22.50	96.2	230	11.7	424	3.61	9.1	1.6	18.1	8.1	303.6	6.7	27.8	4.40	16.3	<10	<2	07W	588663	7098373		750.2	
FR-3	Soil	56.26	9.35	78.7	555	6.2	174	1.97	9.0	2.2	12.7	8.8	280.9	4.6	1.2	12.87	20.0	<10	<2	07W	588671	7098323		745.9	
FR-4	Soil	23.23	69.31	63.8	441	14.7	367	3.16	11.1	3.0	14.6	7.1	320.7	7.5	98.7	2.33	15.1	<10	<2	07V	588663	7098272		747.1	
FR-5	Soil	44.89	7.99	142.1	504	12.1	528	4.34	28.2	33.9	20.7	20.9	500.6	4.5	2.1	19.84	39.3	<10	2	07V	588668	7098220		748	
FR-6	Soil	44.27	36.77	97.9	398	6.4	166	2.17	114.9	7.4	13.2	15.9	399.4	5.6	41.9	9.35	30.6	<10	<2	07V	588648	7098169		752.6	
FR-7	Soil	63.91	7.24	136.6	83	14.5	555	4.21	13.3	2.9	13.8	14.6	439.8	5.4	3.7	14.86	39.5	<10	<2	07V	588638	7098110		757.9	
FR-8	Soil	36.16	36.86	241.1	440	8.8	510	3.70	32.2	1.9	15.8	19.5	409.9	6.6	48.8	15.68	28.6	<10	<2	07V	588639	7098052		766.1	
FR-9	Soil	40.83	15.07	117.2	139	12.9	675	4.69	15.7	2.2	21.8	17.5	431.3	8.9	9.9	19.82	29.1	<10	<2	07V	588639	7097993		770.6	
FR-10	Soil	27.74	15.67	57.8	213	6.5	195	2.60	11.4	0.6	12.5	11.1	499.0	8.7	12.5	10.16	20.9	<10	<2	07V	588670	7097952		781	

FucO14. South-east of old town Bear Creek.

(See July 2011 renewal report, submited April 2012 ~FO14;1-9)
~ 29.7ppb Au soil assay result.)



Fall 2011 soil sampling, south west of Line FO14 Rock Samples 1-4.

F014 soils

1	Grey/Orange/White	Powder	.5m	**~<1ppbAu**
2	Orange/Green	Clay -Decomposing Bedrock	.7m	**~<1ppbAu**
3	Orange/White/Green	Fine -Decomposing Bedrock	.3m	**~ 23 ppbAu - soil**
4	Dark Green	Fine clay	.6m	**~<1ppbAu**
5	Orange/Brown	Silicious/Mica	1m	**~<1ppbAu**

Other Assayed samples from Fall 2011

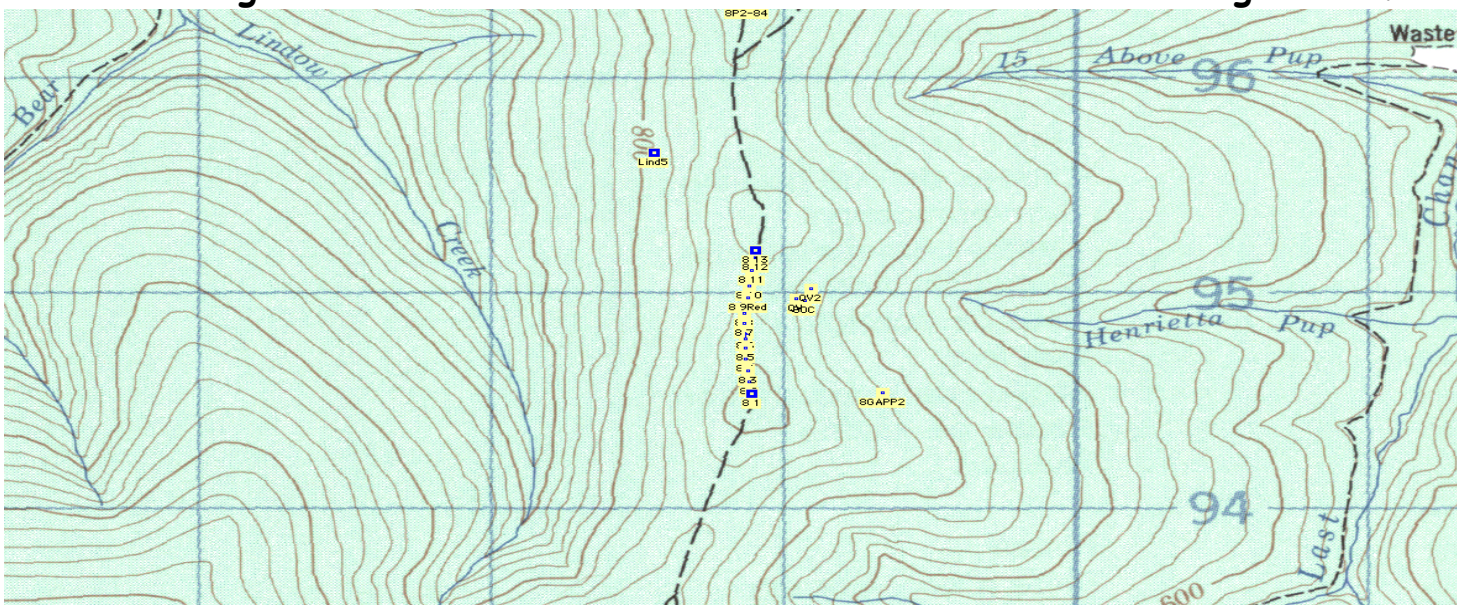
Fuc3 -Quartz, calcite veining morphed with chlorite schist, orange oxidation. **<1ppbAu**
Fuc5 -Heavier banded quartz/calcite in chlorite schist. **<1ppbAu**
Fuc6 -Oxidizing calcite veining in chlorite schist. **<1ppbAu**
Fuc9 -Carbonate altered banded quartz/calcite through chloritic schist. Orange oxidation and crystallized quartz vein. **<1ppbAu ~ (The 4 ROCK samples have between 2500-5500 ppmBarium.)**

F07Qv -Green, orange, white decomposing bedrock system..1/2meter deep soil. **~ 5.3 ppbAu; 13.5 ppmCu; 186 ppbAg**
F07S -Orange, shiny, decomposing system. Soil. **~ 2.9 ppbAu; 155 ppbAg**
F07R -Altered chlorite schist. Orange oxidation. Arsenopyrite, sulfides. Rock **<1ppbAu; 3700 ppmBa**
F08 -Oxidizing and decomposing striated calcite/phyllite schist. Rock. No result.
Fuc08-1 -Red coated pyrite cubes in banded quartz calcite, sericite/chlorite schist. No result.
Fuc08-2 -More altered, banded, chlorite/quartz/calcite & schist with brown & orange oxidation. **<1ppbAu; 2300 ppmBa**

FucO - Carbonate altered quartz/sericite phyllite. Brown segments with sulfides. **<1ppbAu; 2600 ppmBa**
Fuc011 -Banged calcite/quartz in altered chloritic schist. Phyllite. Silver colored sulfides throughout. **<1ppbAu**
Fuc011-2 - Larger quartz veins, calcite, orange oxidation through the chlorite schist. **<1ppbAu**

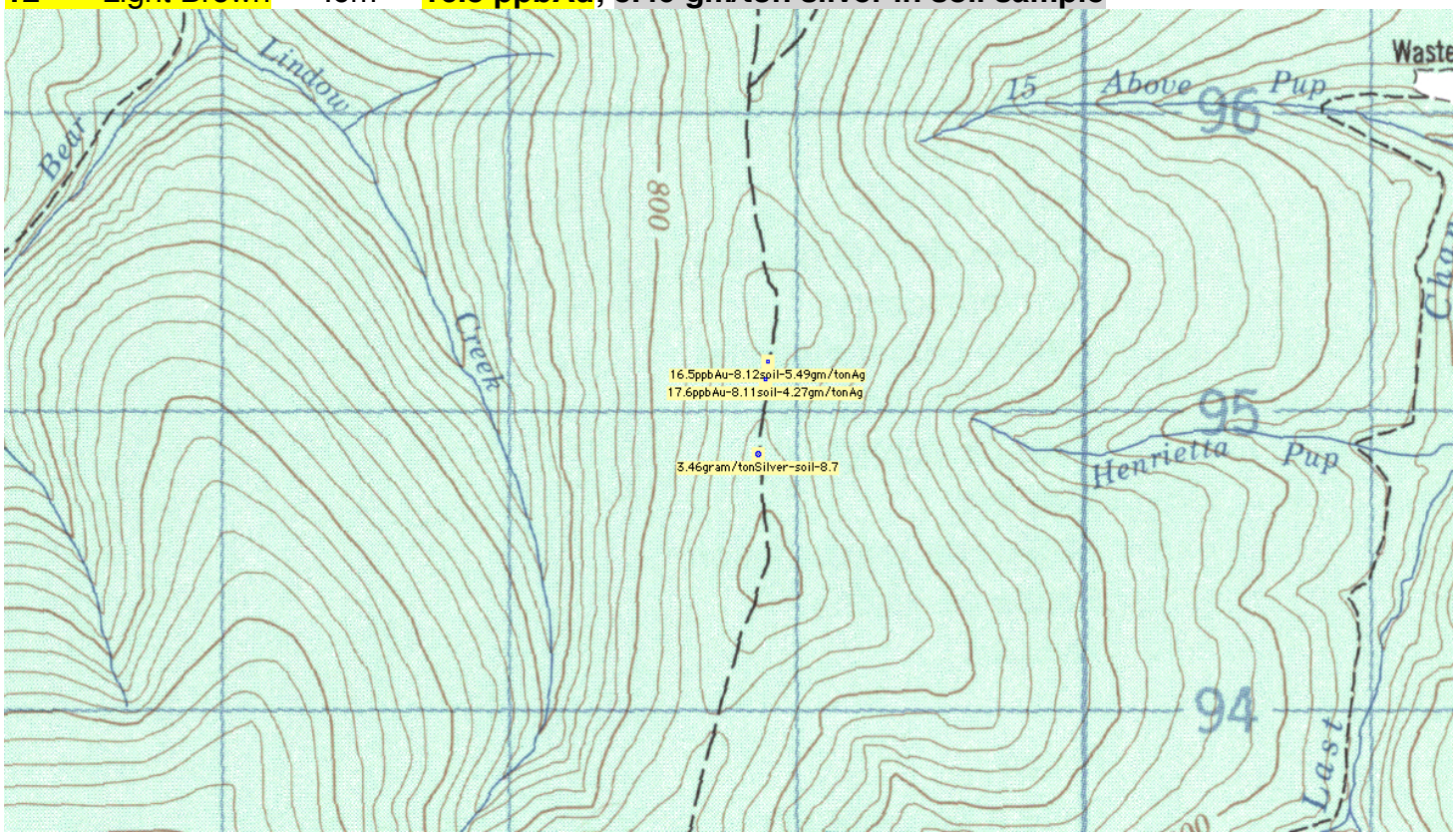
Fuc -Clear & grey quartz veins, calcite, orange & brown oxidation through the chlorite schist. **<1ppbAu; 2200 ppmBarium**
FucPhyl -Heavier, wavy quartz chloritic/sericitic phyllite. Sulfides. No result.
Fuc016 Altered grey/white/clear quartz. Sulfides include arsenopyrite, peacock staining- (copper). Orange & burgandy oxidation and calcite. **<1ppbAu (re-test for copper & gold as 5A does not reveal silver or copper content).**
Fuc016/2 -Orange/Red/Burgandy stained grey altered quartz veins with sulfides in chlorite schist. **<1ppbAu**

On ridge between Lindlow Creek & Henrietta's headwater. Eight Claims.



Eight Claims - Soils

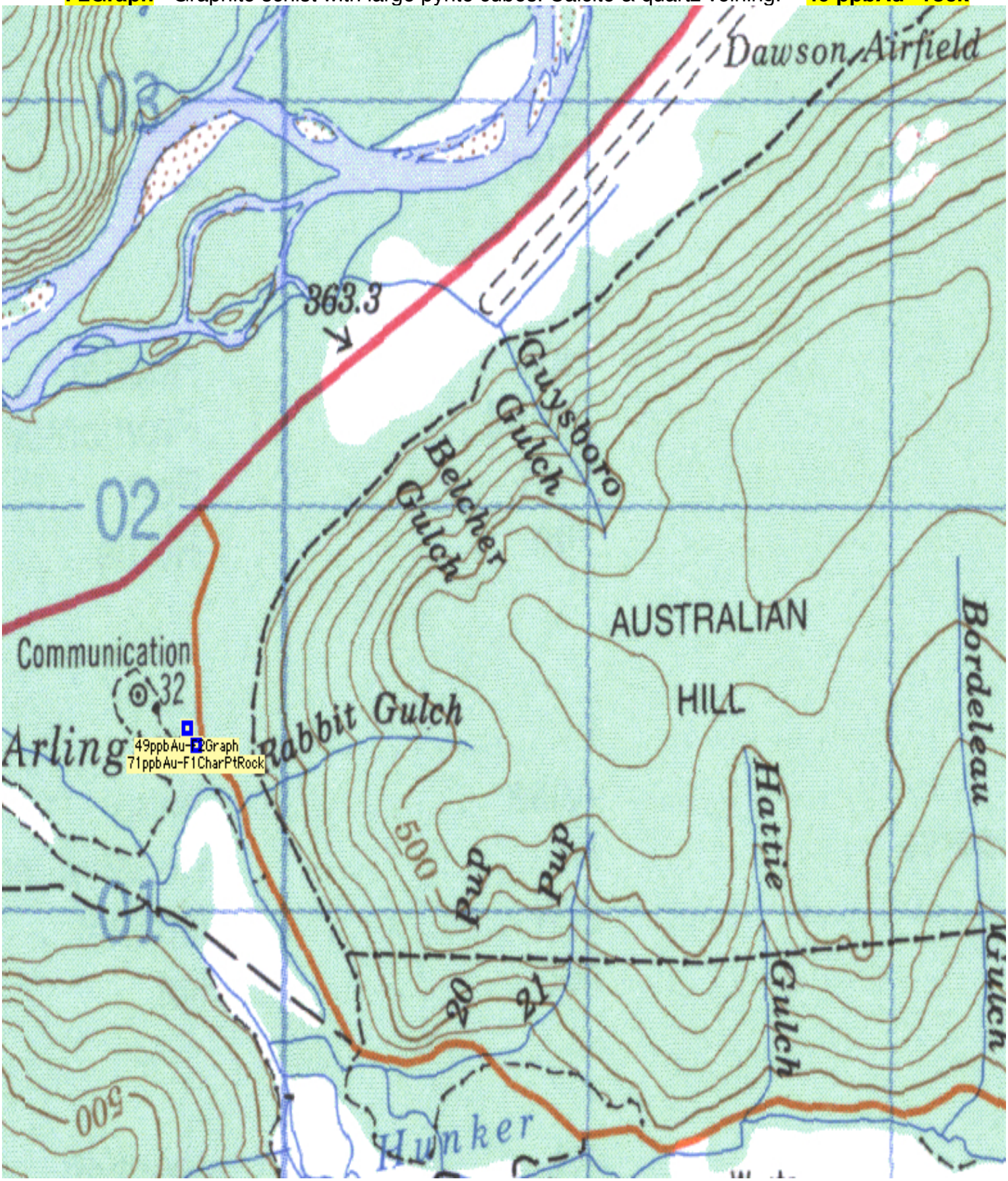
1	Light Brown	.2m	**~ 4 ppbAu**
2	Dark Brown	.3m	**~ 2 ppbAu**
3	Dark Brown	.3m	**~ 5 ppbAu**
4	Light Brown	.3m	**~ <1ppbAu**
5	Light Brown	.3m	**~ 6 ppbAu**
6	Light Brown	.3m	**~ 5 ppbAu**
7	Light Brown	.3m	(Quartz vein trending NNW) **3.457gm/ton silver in soil sample; 6ppbAu**
8	Red/Brown	.4	**~ 2.6 ppbAu**
10	Light Brown	.4m	**~ 69.39 ppmCu; 1.6ppbAu**
11	Light Brown	.3m	**~ 17.6 ppbAu; 4.27 gm/ton silver in soil sample**
12	Light Brown	.6m	**~ 16.5 ppbAu; 5.49 gm/ton silver in soil sample**



Fuc1: Bottom of Charlie's pit (2011).

F1CharPt - Quartz veining with sulfides & calcite through graphite hosting large pyrite cubes. (As at Waste7.). **~ 71 ppbAu - rock**

F2Graph - Graphite schist with large pyrite cubes. Calcite & quartz veining. **~ 49 ppbAu - rock**



West GoldBottom. Claims: **In167 & 162** Map# 115O14 &O15

In167 -Soils from decomposing bedrock systems

B Light Brown **~ 4.1ppbAu; 85ppbAg; 13.14ppmCu; 5 ppmAs**

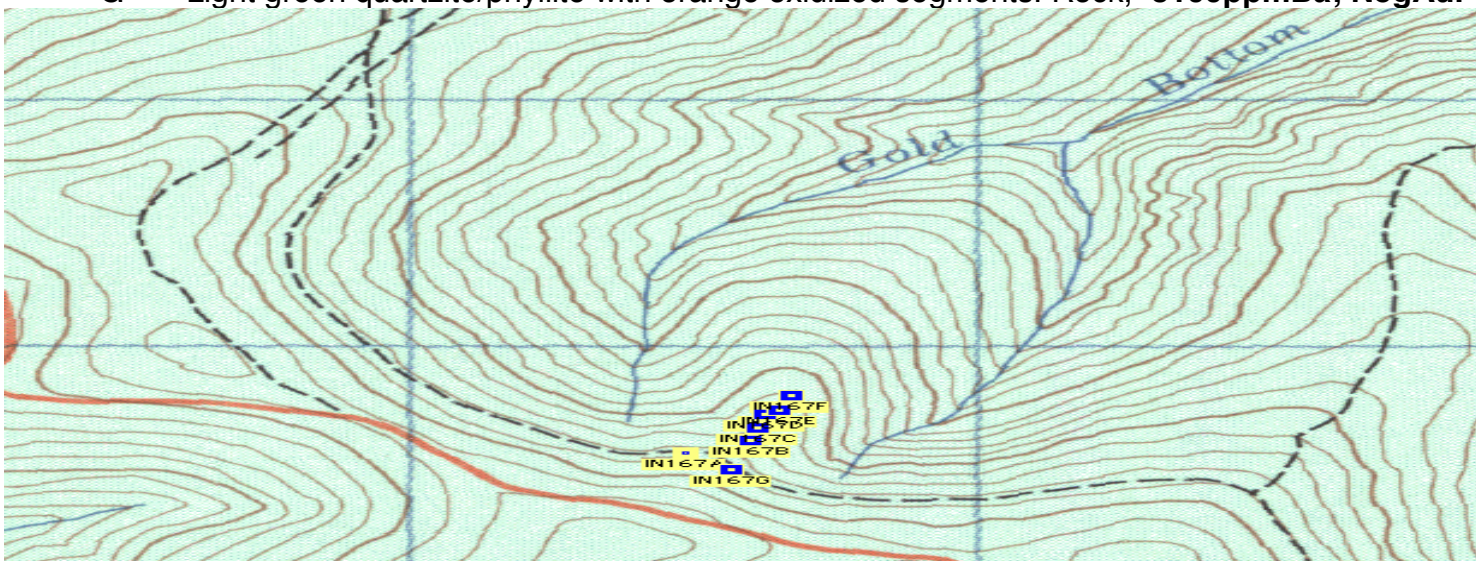
C Brown **~ 5.2ppbAu; 53ppbAg; 27.77ppmCu; 9.8ppmAs**

D Dark Brown **~ 2.9ppbAu; 52ppbAg; 12.7ppmCu; 8.5ppmAs**

E Dark Brown **~ 5.6ppbAu; 47ppbAg; 18.37ppmCu; 11.9ppmAs**

F Orange/Black/White -Decomposing surface vein. **3.5ppbAu; 46ppbAg; 6.39Cu**

G Light green quartzite/phyllite with orange oxidized segments. Rock,**~3100ppmBa; NegAu.**



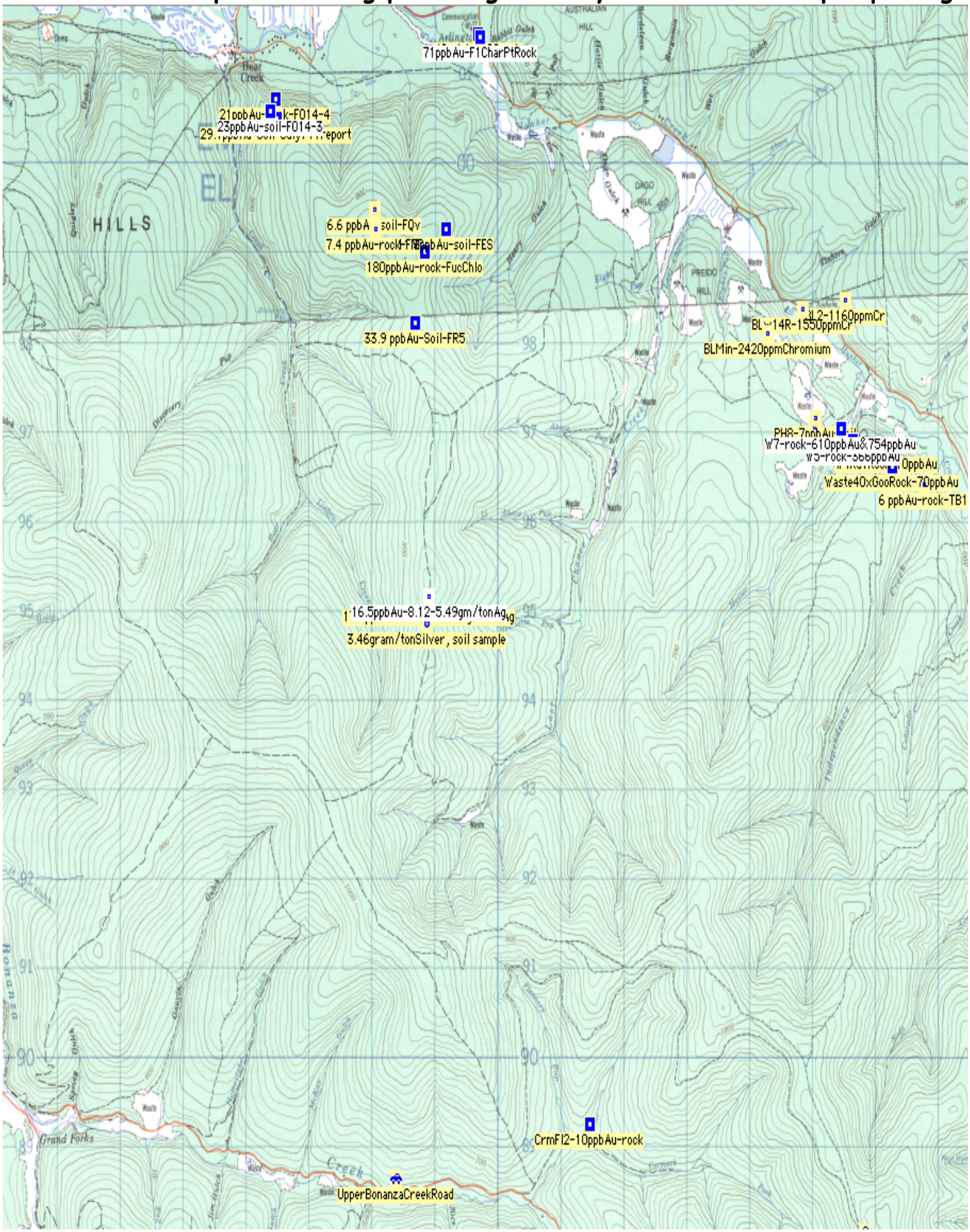
Carmacks Fork. Where old expired grant is. Claims: In97 & In99

CarmS2 – **Soil** - Decomposing from light green phyllite, calcite/quartz eyelets, orange coated muscovite schistose. **~ 4.8ppbAu; 2.6ppmCr; 119ppmBa**

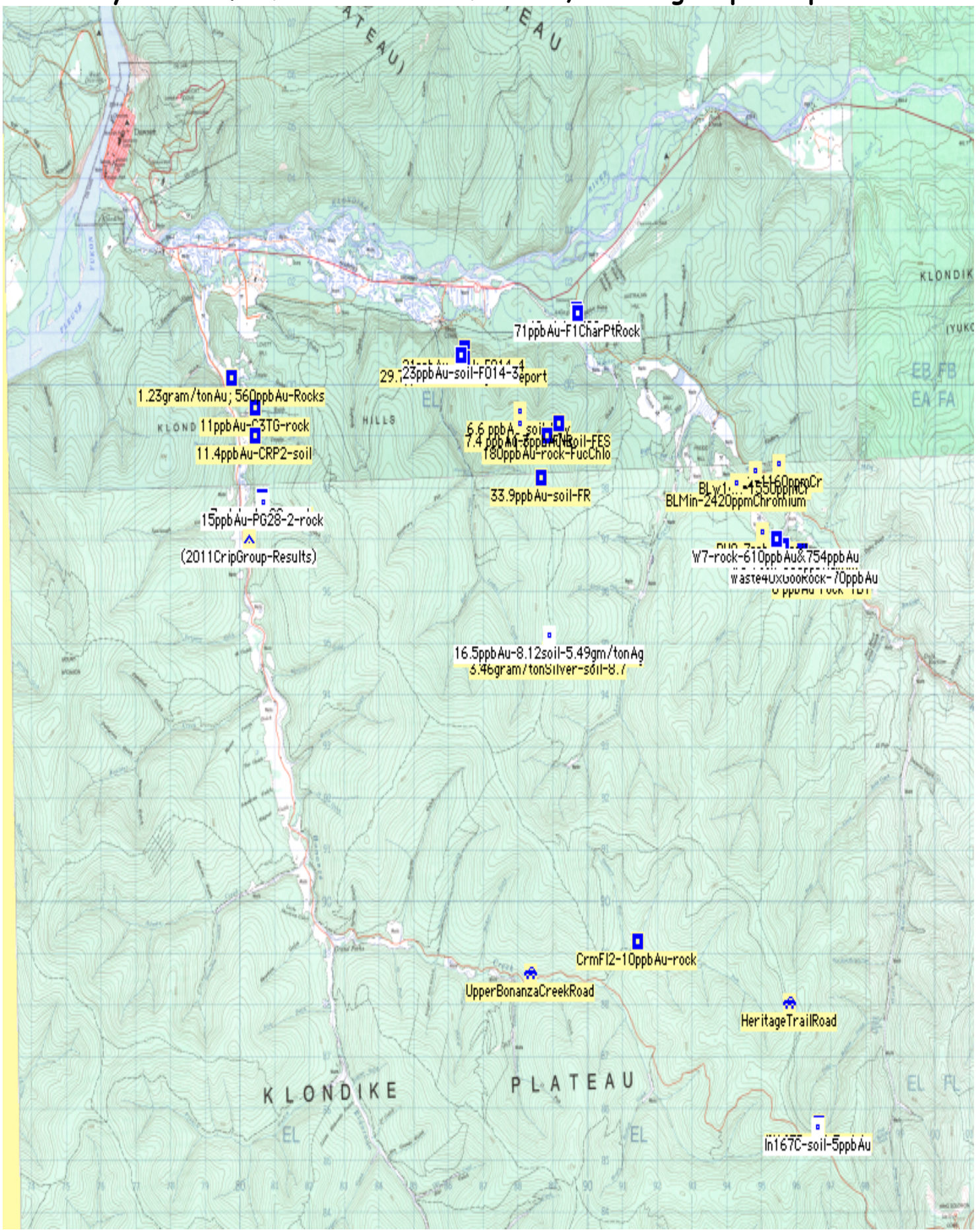
CrmFL2 - **Rock**- Light green Phyllite with mineralization visible in layers. Hard, orange-red coating. **~ 10ppbAu; 14ppmCr; 2600ppmBa**

CrmFL2 sample

Locations of Samples returning positive gold assays from 2011 Fall prospecting.



Assay results from "Klondike" claims 2011, including Crip Group results.



Conclusion & Recommendations

The general prospecting & sampling program of 2011 was successful in identifying previously "unfound zones" of anomalous gold in the bedrock of the Klondike, underneath the stripped placer.

By exploring with a small rubber track hoe, we are able to sample more definitive bedrock systems at depth, in many of the areas that have 100 years worth of over-burden already removed for us.

As the grouping is large & being studied in conjunction with two other groupings held by the prospectors in the "Klondike Goldfields", exploration is still focused on completing an updated general bedrock study and analyzing rock types and environments that hold high grade hard-rock gold and silver.

Statement of Qualifications

Sylvain Montreuil:

Quartz vein prospector in the Klondike drainage and Indian River, also 60 Mile, Stewart, Peel and Porcupine rivers for over 20 years. Has been involved in the targeting, prospecting, finds and mining of successful mines all over the Klondike Plateau.

Professionally called upon to stake claims, perform surveys, carry out soil & rock sampling programs and assist geologists with scintillometer and magnometer surveys. For clients as well as on his own ventures, he has been responsible for claim recording and groupings, exploration programs and general property management to maintain claims in good standing by shafting, trenching or drilling.

A ticketed heavy equipment mechanic, welder and millwright. Former partners and employers include Joel White, A1Cat mining, Dave Farley (family), Marty Knutsen, Bob Canamol and most recently Mark Pocklington of GoldBank mining, for whom Sylvain helped target, stake and lead an exploration program on the Leota claim block, that led to the projects successful listing on the TSX venture exchange as GoldBank Mining Corp.

Erini Petroutsas:

Has been employed 9 consecutive summers in the Dawson area as a gold prospector in the field and as geo-tech for drilling projects.

Employment experiences have included being assistant to: Joanna Hodge PhD Geology; Erin O'Brian Masters Geology; Ken Galambos Geologist; Chris Ashe Masters Ultramafic Geology; Keven Brewer MBA & Geologist. References can be requested from any of the above professionals.

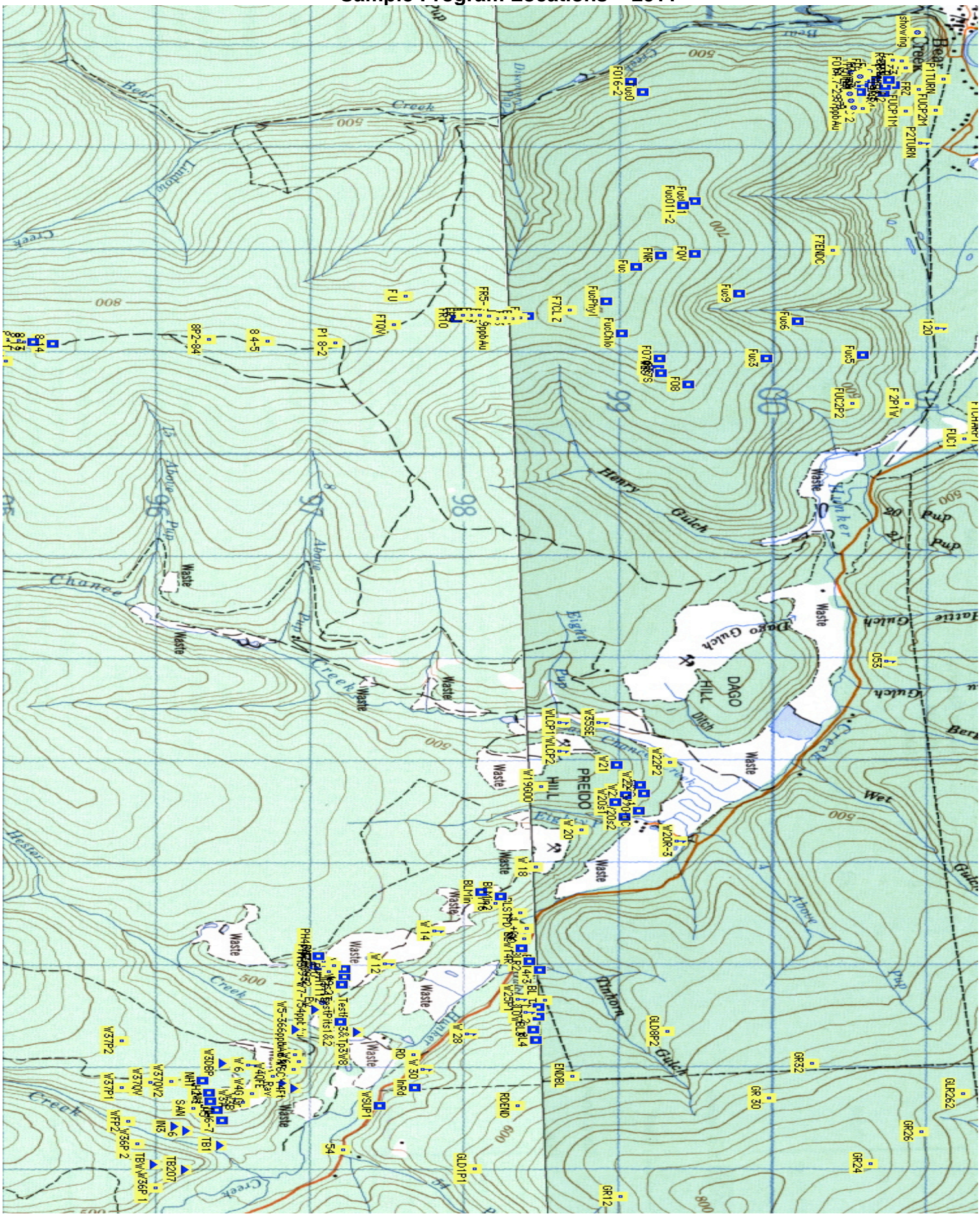
Expenditure
Fuc, Eight & Lind Grouping
Fuc:1,2,3,5,6,9 &14; Fuc:07,08,011,014,016 &O
Eight(8): 2,3,4 &5
August 9 – 12th, 2011

August 8 -Prospecting and trail reconnaissance @300/day. 1 person.	$300
August 9-12 -2 people prospecting, soil & rock sampling @$300/day each. 4 days	2400
Report & Copy Cost	300
Assay Cost: 52 samples selected @ $35/each	1820
Quad Rental $100/day	400
	$5,220

Expenditure
WasteIn Claims
Work Done: **Sept.14-Sept 22, 2011**

Sept. 14-18 ~ 5 days operator of hoe @$350/day. See trench report for details and trench locations.	$**1750**
Case model 2008, CRX36B hoe rental cost: Details on attached invoice.	**7035**
Sept. 19-21 ~ 3 days prospecting & sampling of Waste, In,8 & Fuc claims. 2 people @$300/day each.	**1800**
Sept. 22 ~ 1 day prospecting & Sampling of In claims See sample list for details	**300**
4 days Quad rental @$100/day	**400**
Report & copy cost	**300**
7 Decomposing R200-1000 @ 8.85	115
6 Soil Precious Metals G608 @ 24.15 Fire	314
55 Rock Prep Method M150 @ $9.75	536
- Assay G608 @ 24.15 Fire	1328
-(*For any Au results over 1gm/ton, reject to be re assayed method):* G609 @ 36.40 Metallics Fire:	*(unknown amount)* Assay Costs: $2293
	$12,128

Sample Program Locations ~ 2011



Appendix: Utm Co ordinates of assayed samples from Fall 2011

Rock Samples: R200-500 Prep and 5A Analysis
PH1 - 07 V 0595006 7097041
PH2 - 07 V 0595011 7097065
PH3 - 07 V 0594997 7097061
PH4 - 07 V 0594959 7097038
PH6 - 07 V 0594963 7097091
PH7 - 07 V 0595063 7097126
PH8 - 07 V 0595037 7097161
PH13 - 07 V 0595188 7097182
PH13Mid
PH14 - 07 V 0595165 7097199
PH15 - 07 V 0595198 7097208
PH-15-2 - same location as above
NH1 - 07 V 0596185 7096312
NH2- 07 V 0596176 7096309
NH3 - 07 V 0596178 7096328
NH3-1 - 07V 0596178 7096330
NH3-2 - 07V 0596179 7096330
NH3-3 - 07V 0596180 7096331
NH4 - 07V 0596335 7096352
NH5 - 07V 0596420 7096393
NH6 - 07V 0596517 7096431
NH7 - 5 meters west of 6
W3DBP - 07V 0595960 7096431
W9s2 - 07V 0595187 7097210
W9s3 07V 0595116 7097228
W9s4 - 07V 0595037 7097225
W20s1 - 07W 0593406 7098986
W20s2 - 07W 0593548 7099049
W21 07W 0593035 7098995
W22-1 - 07W 593317 7099174
W22-2 - 07W 0593234 7099150
W2Tr3 - 07V 0596580 7096115
W2Tr6 - 07V 0596623 7096192
TestPit3 - 07V 0595652 7097305
TP3W8 - same location as above
TB1 - 07 V 0596763 7096417
TB207 - 07 V 0597002 7096183
TBWv - 07 V 0596947 7095981
Waste4OxGoo - 07 V 0596257 7096624
W4Ft - 07V 0596204 7096893
W4Ravine 07V 0596153 7096817
W9-1 - 07V 0595006 7097041
W9-2 - 07V 0595011 7097065
W9-3 - 07V 0594908 7097059
W20OC - 07W 0593485 7099138
W22R - 07W 593332 7099055
WSUpP1 - 07V 0596371 7097452
BL2 - 07W 0595502 7098486
BL3 - 07V 0595631 7098455
BL4 - 07V 0595728 7098469
BLW14R - 07V 0594838 7098376
BLW14R2 - 07V 0594960 7098430
BLW14R3 - 07W 0595042 7098499
BLMin - 07V 0594268 7098115
BLMin2 - 07V 0594322 7098242
In167 G - 07V 0596564 7085499
CrmFL2 - 07V 0591448 7089258
FucO11 - 07W 0587519 7099508
FucO11-2 - 07W 0587557 7099428
Fuc - 07W 0588164 7099125
FucPhyl - 07W 0588499 7098931
FucChlo - 07W 0588818 7099026
Fuc3 07W 0589060 7099971
Fuc5 - 07W 0589022 7100597
Fuc6 - 07W 0588696 7100170
Fuc9 - 07W 0588425 7099789
FucO14R1 - 07W 0586334 7100767
FucO14R2 - 07W 0586381 7100798
FucO14R3 - 07W 0586395 7100738
FucO14R4 - 07W 0586459 7100733
FucO16 - 07W 0586350 7099086
FucO16/2 - same as above
FucO - 07W 0586448 7099167
F07R - Same as F07S (possible contamination)
8.14 (possible contamination)
F1CharPt - 07W 0589694 7101421
F2Graph - 07W 0589662 7101464

Soil Samples: SS80 Prep and 1F03 Analysis
BL1 - 07W 0595408 7098484
In167 B 07V 0596598 7085616
In167 C - 07V 0596612 7085667
In167 D - 07V 0596622 7085720
In167 E - 07V 596651 7085740
In167 F - 07V 0596669 7085797
In-Rd - 07V 0596200 7097680
CarmS2 - 07V 0590694 7088707
F07S - 07W 0589203 7099284
F07Qv 07W 0589058 7099276
FQv - 07W 0588034 7099506
F08 - 07W 0589313 7099459
FES - 07W 0589162 7099270
FNR - 07W 0588048 7099281
8.1 - 07V 0588884 7094536
8.2 - 07V 0588875 7094589
8.3 - 07V 0588870 7094642
8.4 - 07V 0588865 7094693
8.5 - 07V 0588863 7094745
8.6 - 07V 0588862 7094802
8.7 - 07V 0588858 7094859
8.8 - 07V 0588859 7094907
8.10 - 07V 0588877 7095035
8.11 - 07V 0588885 7095107
8.12 - 07V 0588895 7095166

Rock Samples:R200-1000 and 5A + 3B02 Analysis
W7 - 07V 0595436 7097035
W7west - 07V 0595467 7097041
W5 - 07V 0595629 7096908 (No 3B02 analysis on this sample)

Extra Samples
PH13-2 - 07V 0595188 7097182
Fuc08-2 - 07W 0589466 7099390
F014-1 - 07W 0586319 7100673
F014-2 - 07W 0586345 7100635
F014-3 - 07W 0586370 7100606
F014-4 - 07W 0586404 7100593
F014-5 - 07W 0586455 7100580

Samples that were unrecoverable from damaged bag
Fuc14
Fuc14R
8.9
8.9rock
8.13
Lind5
F1CP1
F1CP2
F1CP3

ACME ANALYTICAL LABORATORIES LTD.					
Client:	Petroutsas, Erini				
File Created:	30-May-2013				
Job Number:	WHI12000989				
Number of Samples:	4				
Project:	Petra				
Shipment ID:	Final Report				
P.O. Number:	3B02 Fire assay fusion				
Received:	01-Oct-2012				
	Method	WGHT	3B	3B	3E
	Analyte	Wgt	Au	Pt	Pc
	Unit	KG	PPB	PPB	PPE
	MDL	0.01	2	3	1
Sample	Type				
G1-WHI	Prep Blank	<0.01	<2	<3	<2
W7	Rock	0.38	610	18	<2
W7west	Rock	0.40	8	<3	<2
W5	Rock	5.96	N.A.	N.A.	N.A

Company : Petroutsas, Erini

Submitted by : Erini Petroutsas

T12-02262.0

Date Received : 08-Nov-12

Date Reported : 20-Nov-12

Becquerel
A Maxxam Company
6790 Kitimat Rd, Unit #4
Mississauga, ON,Canada,L5N 5L9
Ph: (905) 826-3080 Fax : (905) 826-4151
email : RAllen@maxxam.ca

Acme file # :WHI12000989

Samples were run as received.

ISO 17025
For Scope of Accreditation No. 422
Pour la portée d'accréditation no. 422

Analysis performed by Neutron Activation (Method BQ-NAA-1)

A negative result denotes "Less Than".

Note : Mo results are interfered with by Mo production from U fission.

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Fe	La	Lu	Nd	Ni	Ta	Tb	Th	Sn	W	U	Yb	Zr
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pp
1	W7	10.81	0.4	165.0	970	-0.5	6	26	3	43	33	1.0	754	10.90	16.0	1.70	12	340	0.5	0.5	6.7	-100	3	1.7	7.6	
2	W7west	12.69	0.6	15.0	260	-0.5	9	5	-1	24	8	3.2	-2	6.76	5.8	4.00	5	-100	-0.5	3.9	4.0	-100	-1	1.3	28.0	-
4	W5	11.62	0.1	6.9	340	-0.5	-1	23	1	23	1	0.5	366	0.86	16.0	0.11	12	-100	-0.5	-0.5	3.5	-100	2	2.4	0.7	-

Company : Petroutsas, Erini

Submitted by : Erini Petroutsas

Date Received : 08-Nov-12

Date Reported : 29-Nov-12

Becquerel
A Maxxam Company

6790 Kitimat Rd, Unit #4
Mississauga, ON,Canada,L5N 5L9
Ph: (905) 826-3080 Fax : (905) 826-4151
email : RAllen@maxxam.ca

T12-02263.0

ISO 17025
For Scope of Accreditation No. 422
Pour la portée d'accréditation no. 422

Acme file # :WHI12000950

Samples were run as received.

Analysis performed by Neutron Activation (Method I

A negative result denotes "Less Than".

Note : Mo results are interfered with by Mo production from U fission. Sample # 104 was not received. Some detection limits are elevated due to elevated Fe/Co/Sc...

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	Fe	La	Lu	Hg	Mo	Nd	Ni	Rb	Sm	Sc	Se	Na	Ta	Tb	Th	Sn	W	U	Yb	Zn
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	PH1	14.71	0.7	54.5	690	-0.5	3	4	18	190	102	0.8	-2	2	-5	26.40	12.0	0.32	-1	-3	11	1100	45	3.0	14.3	-3	0.04	-0.5	0.6	1.9	-100	1	4.9	2.0	-5
2	PH2	12.30	2.6	37.0	460	-0.5	-1	8	25	2670	21	0.3	3	-1	-5	1.26	3.7	0.11	-1	-2	-5	420	71	1.2	7.8	-3	0.04	-0.5	-0.5	0.8	-100	-1	-0.5	0.6	6
3	PH3	11.12	2.4	19.0	700	-0.5	-1	28	15	2880	22	0.6	7	2	-5	1.51	15.0	0.21	-1	-3	9	430	71	2.7	11.0	-3	0.08	-0.5	-0.5	5.7	-100	2	1.5	1.3	12
4	PH4	13.62	1.6	114.0	1000	-0.5	-1	14	8	110	3	0.9	-2	2	-5	6.59	14.0	0.35	-1	-2	10	-100	47	3.4	12.8	5	0.19	0.5	0.5	2.4	-100	2	3.7	2.2	14
5	PH6	13.29	6.9	29.0	-50	-0.5	-1	-3	-1	3010	73	-0.2	2	-1	7	5.01	-0.5	-0.05	-1	-2	-5	1500	-15	-0.1	4.2	-3	-0.01	-0.5	-0.5	0.2	-100	-1	-0.5	-0.2	6
6	PH7	17.40	3.6	17.0	86	-0.5	-1	-3	-1	1730	69	-0.2	-2	-1	-5	3.39	0.8	-0.05	-1	-1	-5	1100	-15	0.2	3.5	-3	0.02	-0.5	-0.5	0.3	-100	-1	-0.5	-0.2	-5
7	PH8	11.82	12.6	160.0	890	-0.5	-1	20	19	2630	33	0.3	7	2	-5	3.12	10.0	0.18	-1	-8	8	770	37	1.7	11.4	-3	0.03	-0.5	-0.5	5.6	-100	1	18.0	1.0	44
8	PH13	14.50	1.3	13.0	360	-0.5	2	16	2	31	7	0.4	9	-1	-5	2.83	8.7	0.35	-1	-1	8	-100	29	1.6	6.1	-3	0.13	-0.5	-0.5	3.3	-100	-1	0.9	2.0	-5
9	PH13MID	11.94	0.4	17.0	620	-0.5	2	58	6	74	13	1.1	-2	4	-5	4.10	32.0	0.38	-1	-3	20	-100	100	5.5	13.5	-3	0.41	0.8	0.7	8.9	-100	2	2.4	2.4	10
10	PH14	10.70	3.9	92.3	1300	-0.5	-1	90	17	260	4	1.7	4	4	-5	3.95	48.0	0.35	-1	-6	32	-100	150	7.4	13.0	-3	0.06	0.7	0.7	9.3	-100	2	5.8	2.0	26
11	PH15	15.76	1.2	172.0	780	-0.5	5	6	9	890	214	2.2	-7	1	-12	36.00	19.0	0.87	-1	-5	10	1900	41	6.2	28.8	-3	0.04	-0.5	1.6	2.2	-220	-1	11.0	5.4	47
12	PH15-2	14.54	0.3	1.3	810	-0.5	-1	27	2	29	4	1.0	-2	2	-5	3.87	14.0	0.65	-1	-1	14	-100	43	5.0	6.8	-3	0.15	-0.5	0.7	5.6	-100	-1	1.6	3.8	-5
13	NH1	16.16	0.9	186.0	730	-0.5	-1	51	6	67	8	1.2	-2	4	-5	4.21	32.0	0.47	-1	34	15	100	68	4.9	12.7	-3	0.57	1.1	0.7	9.5	-100	2	8.9	2.8	14
14	NH2	13.64	0.3	50.0	1600	-0.5	-1	41	2	25	9	0.6	-2	3	-5	2.67	21.0	0.24	-1	-4	13	-100	57	3.4	5.4	-3	0.11	0.6	-0.5	7.4	-100	2	5.6	1.4	7
15	NH3	16.46	0.4	14.0	140	-0.5	-1	4	-1	11	2	-0.2	-2	-1	-5	1.53	2.5	0.06	-1	8	-5	-100	-15	0.6	0.9	-3	0.45	-0.5	-0.5	1.0	-100	-1	2.6	0.4	-5
16	NH3-1	14.68	1.0	192.0	790	-0.5	-1	24	5	52	8	1.1	9	3	-5	10.20	17.0	0.53	-1	51	15	-100	59	4.8	10.3	-3	0.05	-0.5	1.0	6.0	-100	2	15.0	3.1	16
17	NH3-2	15.28	2.0	138.0	1100	-0.5	1	46	10	83	13	1.4	8	5	-5	11.60	30.0	0.64	-1	37	20	130	98	6.4	15.3	-3	0.07	0.5	1.1	10.0	-100	3	14.0	3.8	33
18	NH3-3	14.17	1.6	84.5	970	-0.5	1	50	28	47	29	1.0	-2	8	-5	6.96	25.0	3.50	-1	20	13	120	240	10.7	9.1	-3	0.08	3.6	3.7	26.4	-100	4	21.0	21.6	40
19	NH4	16.38	1.0	93.5	180	-0.5	-1	15	-1	34	8	0.6	2	2	-5	5.02	9.4	0.32	-1	31	7	-100	-15	2.4	3.2	-3	0.13	-0.5	-0.5	5.5	-100	-1	15.0	1.8	9
20	NH5	15.85	1.9	120.0	750	-0.5	-1	27	2	46	14	1.0	6	2	-5	8.56	17.0	0.51	-1	63	12	-100	25	4.3	5.0	10	0.17	0.5	0.8	8.0	-100	1	21.0	3.2	18
21	NH6	11.66	0.5	70.3	1300	-0.5	-1	60	6	36	10	1.0	-2	6	-5	3.71	33.0	0.71	-1	8	24	110	130	6.9	8.6	-3	0.12	1.7	1.1	16.0	-100	3	10.0	4.3	15
22	NH7	16.51	1.5	174.0	390	-0.5	-1	40	4	51	10	0.7	-2	3	-5	4.85	23.0	0.35	-1	32	11	-100	30	3.2	10.4	-3	0.36	-0.5	0.5	13.0	-100	-1	12.0	1.9	16
23	W3DBP	13.99	0.8	18.0	390	-0.5	-1	120	13	19	3	0.5	-2	9	-5	2.75	39.0	5.70	-1	14	42	-100	340	34.9	2.6	-3	0.09	7.2	10.0	59.3	-100	6	27.0	38.1	13
24	W9s2	8.38	2.8	99.5	93	-0.5	-1	-3	-1	2620	66	-0.2	8	-1	-5	3.98	1.6	-0.05	-1	-3	-5	1600	-15	0.3	5.2	-3	0.02	-0.5	-0.5	0.6	-100	-1	0.8	0.2	9
25	W9s3	12.17	10.0	24.0	720	-0.5	-1	6	37	12500	41	0.2	5	-1	14	1.44	3.6	0.12	-1	-5	-5	820	55	1.0	10.4	-3	0.03	-0.5	-0.5	5.5	-100	-1	6.0	0.5	53
26	W9s4	11.75	3.8	35.0	630	-0.5	-1	78	19	330	5	2.2	-2	5	-5	1.00	39.0	0.40	-1	-6	33	-100	60	8.0	19.6	-3	0.10	0.7	1.1	7.7	-100	2	7.4	2.5	14
27	W20s1	12.77	0.4	5.6	1400	1.0	1	54	2	240	17	1.3	-2	5	-5	3.79	30.0	0.26	-1	-3	16	-100	66	4.4	12.1	-3	1.60	0.7	0.7	5.6	-100	1	1.9	1.6	8
28	W20s2	11.53	0.9	11.0	1100	0.6	3	47	4	390	20	1.0	-2	4	-5	3.60	26.0	0.33	-1	-3	21	130	44	5.0	13.5	-3	0.48	0.6	0.8	6.1	-100	-1	2.3	2.1	8
29	W21	15.51	0.8	16.0	800	-0.5	-1	37	2	33	4	0.4	-2	4	-5	1.54	17.0	0.21	-1	-1	10	-100	47	2.4	5.6	-3	0.33	-0.5	-0.5	6.9	-100	1	3.3	1.2	-5
30	W22-1	12.32	0.3	3.0	1700	-0.5	-1	56	2	120	7	1.2	-2	4	-5	1.33	31.0	0.21	-1	-3	20	-100	110	5.2	17.1	-3	0.35	1.2	0.6	7.3	-100	1	2.4	1.3	-5
31	W22-2	13.03	0.4	5.8	1700	-0.5	-1	64	4	65	18	1.4	-2	4	-5	3.25	37.0	0.33	-1	-3	20	-100	86	5.1	11.5	-3	1.14	1.0	0.6	12.0	-100	2	5.0	2.0	8
32	W2Tr3	13.07	0.4	2.5	850	-0.5	3	110	5	99	19	1.8	-2	4	-5	4.37	71.3	0.28	-1	-5	29	-100	80	6.7	17.4	-3	2.83	0.9	0.6	22.9	-100	2	6.5	1.7	9
33	W2Tr6	14.29	0.3	16.0	210	-0.5	-1	9	1	16	5	0.2	3	-1	-5	1.55	5.8	0.10	-1	-1	-5	-100	-15	1.2	2.1	-3	0.53	-0.5	-0.5	2.1	-100	-1	1.2	0.6	8
34	TestPit3	13.56	3.2	21.0	770	-0.5	-1	21	1	67	2	0.8	5	-1	-5	1.51	17.0	0.25	-1	-1	14	-100	26	3.9	3.5	-3	0.02	-0.5	-0.5	1.9	-100	-1	2.3	1.6	9
35	TP3W8	15.96	0.6	18.0	650	-0.5	-1	32	3	55	12	0.9	-2	3	-5	6.07	19.0	0.25	-1	37	12	100	56	3.6	9.0	-3	0.17	0.6	0.7	13.0	-100	2	28.0	1.5	18
36	TB1	17.18	3.8	57.4	150	-0.5	-1	8	-1	13	16	0.3	6	-1	-5	4.12	5.7	0.31	-1	-1	5	-100	17	1.1	2.7	3	0.14	-0.5	-0.5	1.6	-100	-1	1.9	1.8	7
37	TB207	17.99	0.3	22.0	1500	-0.5	-1	38	3	76	3	0.9	-2	3	-5	2.78	23.0	0.26	-1	34	17	-100	77	4.2	11.0	-3	0.15	0.6	0.5	7.3	-100	2	5.3	1.6	8
38	TBWv	18.64	0.4	4.3	93	-0.5	-1	5	-1	8	7	0.3	-2	-1	-5	2.18	3.3	0.23	-1	-1	-5	-100	-15	1.2	2.3	-3	0.04	-0.5	-0.5	1.5	-100	-1	2.0	1.6	-5

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	Fe	La	Lu	Hg	Mo	Nd	Ni	Rb	Sm	Sc	Se	Na	Ta	Tb	Th	Sn	W	U	Yb	Z
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pp
39	Waste40xGoc	17.11	2.9	142.0	1100	-0.5	1	5	2	36	24	0.4	70	2	-5	12.40	10.0	0.20	-1	49	7	-100	43	1.9	5.5	-3	0.31	-0.5	-0.5	5.9	-100	1	23.0	1.1	4
40	W4Ft	17.69	2.7	139.0	1100	-0.5	1	6	2	35	24	0.6	4	2	-5	12.40	9.4	0.18	-1	51	6	-100	45	1.8	5.3	-3	0.30	-0.5	-0.5	5.6	-100	1	23.0	1.1	4
41	W4Ravine	16.59	1.3	14.0	1100	-0.5	1	30	2	65	5	0.8	10	3	-5	2.89	18.0	0.28	-1	48	17	-100	63	3.7	9.0	-3	0.36	-0.5	0.5	5.2	-100	2	4.3	1.7	1
42	W9-1	12.82	3.2	122.0	850	-0.5	-1	46	15	1700	69	1.3	-2	3	-5	5.67	24.0	0.32	-1	-4	17	980	90	4.7	15.3	-3	0.26	0.8	0.8	6.4	-100	1	1.6	2.0	
43	W9-2	14.90	1.9	209.0	120	-0.5	2	-3	2	1760	72	-0.2	-2	-1	-5	5.59	1.9	-0.05	-1	-3	-5	990	-15	0.4	5.3	-3	0.03	-0.5	-0.5	0.7	-100	-1	-0.5	0.2	
44	W9-3	13.99	10.9	18.0	780	-0.5	-1	-3	25	9710	32	0.2	-2	-1	5	1.14	2.2	0.09	-1	-5	-5	640	38	0.6	6.6	-3	0.04	-0.5	-0.5	2.9	-100	-1	4.2	0.4	3
45	W20OC	14.69	0.3	2.0	1600	0.8	1	54	3	46	9	1.1	-2	3	-5	3.86	28.0	0.28	-1	-3	20	-100	87	4.8	13.5	-3	0.30	0.7	0.9	6.7	-100	-1	2.5	1.7	
46	W22R	17.90	0.3	22.0	190	-0.5	11	-3	-1	75	3	0.3	-2	-1	-5	2.07	2.0	0.09	-1	-1	-5	-100	-15	0.8	1.8	-3	0.05	-0.5	-0.5	0.4	-100	-1	0.6	0.6	-3
47	WSUpP1	16.02	0.5	13.0	550	-0.5	2	65	8	47	8	0.8	-2	6	-5	2.41	39.0	1.20	-1	-8	17	-100	270	8.1	7.7	-3	2.65	3.8	1.8	30.5	-100	6	14.0	7.7	1
48	BL2	18.49	0.2	76.9	89	-0.5	10	-3	2	1160	17	-0.2	-2	-1	-5	2.36	0.8	0.07	-1	-1	-5	-100	-15	0.4	6.7	-3	0.02	-0.5	-0.5	-0.2	-100	-1	-0.5	0.5	-3
49	BL3	16.69	0.2	1.4	-50	-0.5	-1	-3	-1	7	2	-0.2	-2	-1	-5	1.80	0.7	0.06	-1	-1	-5	-100	-15	0.3	1.1	-3	0.01	-0.5	-0.5	0.4	-100	-1	1.6	0.4	-3
50	BL4	17.33	1.7	4.5	150	-0.5	9	-3	-1	1520	46	-0.2	-2	-1	-5	3.31	1.9	-0.05	-1	-1	-5	690	-15	0.5	5.2	-3	0.05	-0.5	-0.5	-0.2	-100	-1	-0.5	0.3	
51	BLW14R	15.29	3.7	748.0	330	-0.5	3	18	3	1550	31	0.4	-2	2	-5	4.00	11.0	0.15	-1	-3	7	340	21	1.8	8.5	-3	0.02	-0.5	-0.5	3.3	-100	-1	1.8	0.9	1
52	BLW14R2	17.44	0.3	260.0	-50	-0.5	7	6	-1	615	13	0.3	-2	-1	-5	3.59	3.4	0.14	-1	-1	-5	290	-15	0.9	6.6	-3	-0.01	-0.5	-0.5	2.5	-100	-1	0.8	0.7	
53	BLW14R3	16.68	0.2	12.0	-50	-0.5	-1	-3	-1	21	2	-0.2	-2	-1	-5	1.43	0.6	0.16	-1	-1	-5	-100	-15	0.4	0.5	-3	-0.01	-0.5	-0.5	-0.2	-100	-1	0.9	0.9	-3
54	BLMin	11.56	0.5	17.0	-50	-0.5	-1	-3	-1	2420	50	0.4	-2	-1	-5	5.91	-0.5	0.14	-1	-3	-5	630	-15	1.0	31.1	-3	-0.01	-0.5	-0.5	-0.2	-100	-1	-0.5	0.9	
55	BLMin2	12.25	1.4	199.0	-50	-0.5	-1	-3	-1	1770	91	-0.2	-2	-1	-5	5.01	-0.5	-0.05	-1	-2	-5	1500	-15	-0.1	8.0	-3	-0.01	-0.5	-0.5	-0.2	-100	-1	-0.5	-0.2	-3
56	In167 G	14.55	0.5	2.2	3100	-0.5	-1	51	-1	26	-1	0.5	-2	5	-5	1.34	27.0	0.19	-1	-1	17	-100	150	3.4	5.9	-3	0.17	0.8	-0.5	6.1	-100	1	1.7	1.1	-3
57	CrmFL2	14.91	1.4	3.7	2600	-0.5	-1	58	-1	14	-1	0.6	10	5	-5	1.20	32.0	0.36	-1	-2	17	-100	150	4.3	6.0	-3	0.11	0.7	-0.5	8.3	-100	-1	2.1	2.1	-3
58	Fuc011	15.98	0.3	0.8	2800	-0.5	1	45	2	10	2	0.6	-2	3	-5	1.15	23.0	0.23	-1	-1	12	-100	110	3.7	4.6	-3	0.39	0.6	-0.5	6.7	-100	2	1.6	1.5	-3
59	Fuc011-2	15.50	0.5	1.4	2500	-0.5	-1	58	2	10	1	0.9	-2	5	-5	1.89	30.0	0.40	-1	-2	19	-100	160	4.8	9.3	-3	0.82	1.0	-0.5	10.0	-100	1	2.4	2.4	
60	Fuc	14.42	0.4	1.0	2200	-0.5	-1	29	2	7	-1	0.5	-2	2	-5	1.28	14.0	0.21	-1	-1	11	-100	100	2.5	5.0	-3	0.67	-0.5	-0.5	4.4	-100	-1	1.1	1.3	-3
61	FucPhyl	14.82	0.5	1.6	3100	-0.5	-1	75	6	6	-1	1.1	16	6	-5	1.93	40.0	0.38	-1	-3	23	-100	130	6.0	7.1	-3	1.77	0.9	0.8	13.0	-100	10	3.2	2.3	
62	FucChlo	14.71	1.6	78.5	3000	-0.5	-1	110	5	6	-1	1.2	180	6	-5	1.50	56.7	0.65	-1	-3	37	-100	170	8.1	7.0	-3	0.04	1.1	0.9	21.2	-100	2	6.1	3.9	
63	Fuc3	14.70	0.4	1.6	3000	-0.5	-1	31	4	-5	-1	0.3	-2	4	-5	1.40	15.0	0.34	-1	-3	10	-100	130	2.8	5.1	-3	1.98	1.0	0.6	12.0	-100	-1	2.1	2.1	
64	Fuc5	17.34	0.5	21.0	2600	-0.5	-1	77	3	7	2	1.1	-2	5	-5	1.87	38.0	0.38	-1	-2	23	-100	160	5.5	7.3	-3	0.07	0.9	0.6	15.0	-100	2	3.7	2.2	
65	Fuc6	15.99	0.5	5.9	2600	-0.5	-1	95	6	10	-1	2.0	-2	5	-5	1.68	59.8	0.64	-1	-3	41	-100	160	11.7	8.3	-3	1.19	1.0	1.5	16.0	-100	1	3.5	4.0	
66	Fuc9	16.66	1.2	98.1	5680	-0.5	-1	100	3	-5	-1	1.3	-2	6	-5	1.76	53.5	0.37	-1	-6	37	-100	160	8.5	6.9	-3	0.05	1.0	0.9	19.0	-100	3	4.6	2.3	-3
67	FucO14R1	13.75	0.6	2.0	3000	0.6	-1	71	2	9	1	0.8	-2	5	-5	1.70	27.0	0.34	-1	-3	20	-100	120	4.8	6.8	-3	1.01	1.1	0.6	12.0	-100	-1	1.9	2.2	
68	FucO14R2	12.00	0.7	0.7	3100	-0.5	-1	69	5	8	2	1.3	-2	6	-5	2.18	37.0	0.36	-1	-3	22	-100	130	5.5	8.4	-3	1.15	1.2	0.8	11.0	-100	2	4.0	2.2	
69	FucO14R3	16.24	0.6	-0.5	2300	-0.5	1	78	3	6	1	1.2	-2	5	-5	1.81	41.0	0.33	-1	-3	26	-100	78	6.3	6.6	-3	1.63	1.0	0.8	9.1	-100	-1	4.2	2.1	
70	FucO14R4	15.29	0.4	2.6	1500	0.8	-1	48	5	77	12	1.0	21	4	-5	3.82	25.0	0.33	-1	-2	17	-100	120	4.4	11.9	-3	0.46	0.7	0.7	8.4	-100	2	3.7	2.0	1
71	FucO16	13.56	0.7	7.6	4200	-0.5	-1	57	1	29	4	1.1	-2	5	-5	2.16	30.0	0.41	-1	-2	21	-100	95	5.0	7.1	-3	0.05	1.0	0.7	12.0	-100	2	4.5	2.4	
72	FucO16/2	17.36	0.6	6.2	860	-0.5	-1	30	-1	17	2	0.5	-2	3	-5	1.63	18.0	0.17	-1	-2	11	-100	34	2.6	4.3	-3	3.28	0.6	-0.5	6.5	-100	-1	2.1	1.0	-3
73	FucO	16.27	0.4	2.0	2600	-0.5	-1	56	5	9	1	1.2	-2	5	-5	1.67	35.0	0.56	-1	-2	27	-100	210	7.6	6.7	-3	0.72	1.0	1.0	13.0	-100	1	5.0	3.4	
74	F07R	14.70	0.7	4.3	3700	-0.5	-1	73	4	11	2	0.9	-2	5	-5	1.53	36.0	0.29	-1	-2	21	-100	150	5.1	5.5	-3	0.16	1.0	-0.5	11.0	-100	3	2.5	1.8	-3
75	8.14	12.87	1.7	16.0	1600	-0.5	-1	45	2	11	-1	0.3	-2	4	-5	1.34	25.0	0.16	-1	-1	12	-100	130	2.7	4.5	-3	0.08	0.8	-0.5	6.8	-100	2	3.4	0.9	
76	F1CharPt	15.62	7.8	136.0	880	-0.5	3	58	6	92	82	1.2	71	4	-5	17.90	35.0	0.32	-1	-4	24	-100	83	5.9	11.2	44	0.55	1.3	0.5	10.0	-100	-1	2.9	1.8	
77	F2Graph	20.03	8.3	176.0	440	-0.5	4	22	3	93	99	0.8	49	3	-5	20.90	15.0	0.20	-1	-4	7	-100	55	2.6	9.2	68	0.83	0.8	-0.5	6.5	-100	3	2.4	0.9	-3
98	PH13-2	14.62	1.1	32.0	1200	-0.5	2	65	8	85	24	1.3	5	5	-5	6.21	37.0	0.43	-1	-3	24	-100	100	6.5	15.2	-3	0.44	1.3	0.9	11.0	-100	4	23.0	8.7	13
99	Fuc08-2	16.72	0.5	1.4	2300	-0.5	-1	64	4	7	3	1.1	-2	5	-5	1.62	43.0	0.30	-1	-2	25	-100	140	6.0	6.2	-3	0.95	1.4	0.8	13.0	-100	2	2.3	8.2	1
100	F014-1	13.06	1.2	27.0	2700	3.6	5	37	7	310	16	0.9	-2	3	-5	3.22	20.0	0.34	-1	-5	13	-100	61	4.1	8.0	-3	0.39	-0.5	0.7	6.4	-100	2	2.5	2.3	-3
101	F014-2	15.18	1.8	17.0	1100	1.4	-1	51	3	76	11	0.9	-2	6	-5	3.31	28.0	0.26	-1	-3	16	-100	56	4.1	11.5	-3	0.79	0.6	0.6	8.7	-100	2	2.5	2.3	-3
102	F014-3	14.13	1.3	21.0	1400	1.0	-1	47	3	52	7	0.8	23	5	-5	2.81	25.0	0.26	-1	-2	14	-100	61	4.0	8.2	-3	0.74	0.8	-0.5	8.4	-100	3	2.4	1.6	
103	F014-4	14.76	1.7	38.0	1400	-0.5	-1	58	4	69	9	0.9	-2	6	-5	3.13	30.0	0.35	-1	-3	20	-100	71	5.0	10.7	-3	0.95	1.0	0.5	8.5	-100	2	2.9	2.1	
104	F014-5	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	3	3.9	2.5	1