Summary Report

1996 Regional Exploration Program-Placer Gold
Regional Silt Sampling, Surficial Geology and Prospecting
South Klondike and Canadian Creek Placer Areas

NTS Maps Sheets 115J/10, 11, 14, 15, 16:

Project Boundaries
6 985 000 N. to 6 947 000 N.
587 000E. to 637 000E.
(NAD 27 Zone 7 UTM)

Application #96-041

Author: Todd M. Parsons

Field Activities: July 11 to August 20, 1996

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I. Introduction

Placer gold occurrences have been known in the South Klondike and Canadian Creek Placer Areas since the 1890's. The area is very large and where the old timers were lucky enough to hit pays streaks when shafting, operations of larger and larger scale were soon to follow. Where early shafting missed pay streaks the ground was abandoned and exploration moved to creeks where gold was known to be. Very little exploration was carried out on these creeks at later dates. In this project we attempt to use silt geochemistry, prospecting, panning, and surficial geological mapping to identify the areas that are most favorable for placer deposits. These favorable targets will be the first locations we test in our next stage of exploration which would be large diameter auger drilling or excavator testing. Thirty days in July and August were spent completing the field portion of this project.

II. Location

The project encompasses ground on both sides of the Yukon River; it's east limit marked by Selwyn River, the west side by Kirkman Creek. On the north side of the Yukon River the project does not extend more than 700 meters up the mouths of any tributaries, on the south side of the Yukon River the project extends as far as Dip Creek. The north side of this project is known as South Klondike Placer Area and the south side of this project is known as the Canadian Creek Placer Area. The Selwyn River is a tributary of the Yukon River and enters it about 70 kilometers west of Minto when traveling by boat. The Yukon River at this location marks the dividing line between the Dawson Mining Division on the north and the Whitehorse Mining Division on the south. The claim and topographic maps covering the project area are 115J/10, 115J/11, 115J/14, 115J/15, 115J/16. The study area on the Yukon River is at an elevation of approximately 1200 feet but the highest point explored, at the top of a tributary of Coffee Creek near Patton Hill, is over 4400 feet in elevation.

III. Climate

The study area is very large and there is a large variation in climates from location to location. The entire area is unglaciated and placer deposits in creek bottoms are all in permafrost. The areas of higher elevation such as Patton Hill(Casino Property) were generally under cloud cover most of this summer and received heavy precipitation including snow throughout the summer. This area never received any really warm weather and snow was visible in draws and creek bottoms the entire summer. The weather received here this year was not typical and most years it is much warmer and dryer with all the snow melting. Even lower areas such as the bottom of Casino Creek displayed the effects of an unusually poor summer. Roads here which are usually dry by mid summer and become passable by 4X4 did not lose their snow this year and remained giant swamps. They never did dry staying unpassable even by ATV or foot. Lower, on the Yukon River, heavy precipitation and cooler than usual temperatures existed for most of the summer where the mean annual temperature range is -4 to -6 Celsius and annual precipitation is usually between 10 to 20 inches.

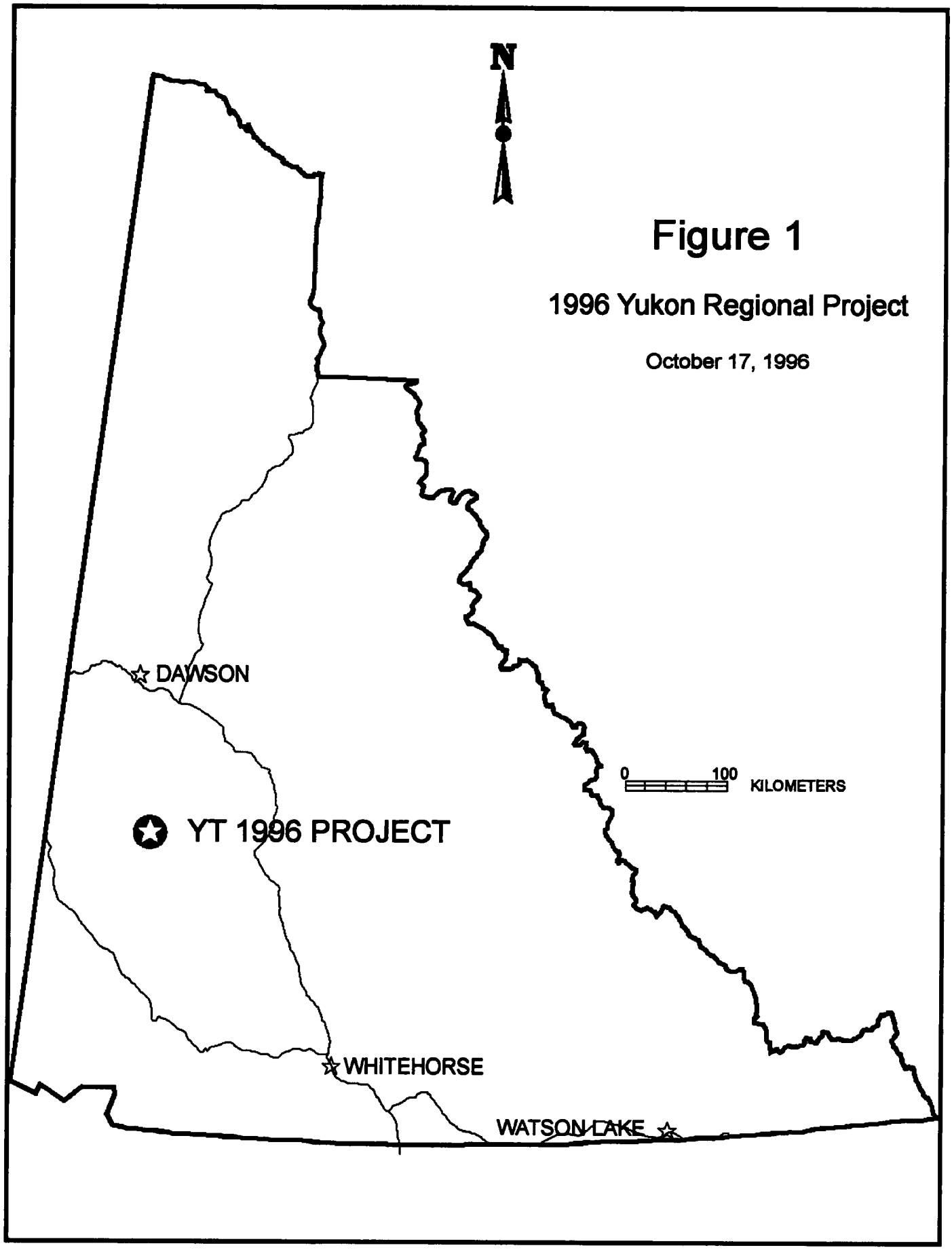
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Figure 1
1996 Yukon Regional Project
October 17, 1996
DAWSON
0
100
KILOMETERS
YT 1996 PROJECT
WHITEHORSE
WATSON LAKE

IV. Access

We accessed the property by jet boat from McCabe Creek near Minto. This is where the placer miners in our study area also access the river and where their expediting and fuel shipments are sent from. Our jet boat traveled the 120 kilometers to the center of the study area in about 9 hours when loaded. We never used helicopters for this project but hard rock exploration companies in our study area often use helicopters based out of Carmacks. The property could also be accessed on the Yukon River from Dawson City as it is only a few extra kilometers. We chose to boat downstream with all our fuel and supplies and head back upstream when we were lighter on return. The completion of the road from Carmacks to the Casino property would allow for easy access to the entire area and would cause a rush of exploration activity in this remote part of the Yukon.

V. History

This area has had placer claims as far back as the 1890's and to this day contains many rich and profitable placer operations. Some of the larger producing creeks of past and present include Rude, Britannia, Ballarat, Kirkman, and Sparkling Creek. Other famous creeks just outside the study area, but draining some of the same mountains, include Thistle, Scroggie, Mariposa, Barker and Brewer. Operations vary from large low grade deposits that average $5.00 a yard($400US/oz.) being mined at 400 yards/hour to smaller high grade operations averaging $40.00 a yard and being mined at 90 yard/hour. Creeks currently being mined have been in operation on and off since the turn of the century with proper testing of nearby creeks being almost non existent due to the high costs and high risks involved. Some exploration has taken place but to prove or disqualify a large wide creek valley that can be 10 or 20 kilometers long, no testing has come close to being adequate. A pay streak can be very small in comparison to the valley bottom and with little or no placer gold occurring around the pay streak. One or ten or even one hundred drill holes or test pits may not adequately test the drainage. For this reason many additional placer deposits may stay hidden under the frozen mud for many years to come.

VI. Geology

The geology in the areas of the work done near Patton Hill, lower Casino Creek and the tributary of Coffee Creek consist of early Cretaceous diorite of the Dawson Range Batholith and Proterozoic schist and gneiss of the Yukon Metamorphic Complex intruded in areas by the Dawson Range Batholith.

Geology of the areas of silt sampling on the Yukon River consists regionally of Pelly Gneiss and Klondike Schist of the Yukon Metamorphic Complex and are Proterozoic in age.

VII. Work Done

A. Prospecting

1. Introduction

Prospecting was carried out in areas that are believed to have high potential for placer deposits, either due to location of nearby known placer deposits or geology and previous silt sampling. In carrying out the prospecting, we were trying to find mineralization in the hardrock outcrops that may be a potential source for placer gold, old workings, and any colors(visible

gold particles) when gold panning. Prospecting takes less time than mapping and yet provides key information about the area when any of the above noted targets are found.

Prospecting of this type was carried out in the area of the lower portion of Casino Creek. Five days were spent in this area and resulted in several old trenches being found and over five kilometers of creek bed being panned at intervals less than 50 meters.

At the site of each very fine silt sample taken in this project, approximately one half a day was spent panning about one cubic yard of creek gravels. If one yard could not be gathered at the site then it was gathered as close as possible.

Panning was also carried out on the tributary of Coffee Creek where the majority of the mapping was done. Here four days were spent panning the tributary at less than 50 meter intervals and taking silt samples (August 1 to 4).

Panning in the entire project produced no gold, fine or coarse. This is very unusual for streams in a placer area but is actually the norm for Klondike placer streams and may be due to the thick mud over the placer deposits and lack of glaciation to disperse the gold. If panning is carried out almost anywhere in the Stewart River Placer Area or the Hyland River Placer Area near Watson Lake, gold will be found in almost every pan. Yet these areas contain deposits of placer gold that are marginally economic at best in comparison to the rich deposits of the Klondike.

The hardrock samples taken at outcrops of significant mineralization, alteration, or structure produced poor results. Gold values were low or below detection limits. The rock sample taken at Coffee Creek near Casino was slightly anomalous in As and Cr. The fault zone found on the Yukon River was anomalous in Ba and Be.

One soil sample was taken on the tributary of Coffee Creek that drains Patton Hill. The sample comes from an area of stressed moss. A large 10 meter circle of moss here appears a different color but analysis did not show any significant mineralization.

2. Method of Analysis

At Chemex Labs in Vancouver, BC, the rock samples are crushed to >60% less than 2mm (-10 mesh). Then riffle split to obtain a 200-400 gram subsample that is then pulverized to 100 u (-150 mesh). From this subsample a 30 gram sample is taken to do the analysis. Gold is then analyzed by fire assay with A.A. finish. The other elements are analyzed by 32 element ICP with nitric aqua-regia digestion. This digestion may prove incomplete for Al, Ba, Be, Ca, Cr, Ga, K, Mg, Na, Sr, Ti, Tl, and W.

3. Conclusions

The rock analyses were poor and will not influence our studies of the creeks. They do not appear to come from Au sources or other significant mineralization. Panning results were inconclusive and did not help our study in any way. The old trenches are believed not to have reached the alluvium under the frozen mud, if it exists in these locations, and therefore it can not be concluded that they were properly tested areas. The fact we found no other workings, remnants of shafts or rock walls, is discouraging as most creeks thought to have been unmined until present usually turn up old timers shafts eventually. The prospecting stage of the program turned up no significant results which is not unexpected as the area has been prospected many times before and therefore deposits that may exist will be well hidden.

B. *Surficial Geological Mapping*

1. Introduction

Surficial geological mapping was done to find and outline areas of alluvium for testing and possible mining, and to map surficial outcrops to find favorable geology for placer gold deposits. Surficial geological mapping was only carried out at a tributary of Coffee Creek that drains Patton Hill. This tributary is the area of greatest interest since it drains the same hill Canadian, Britannia and the top of Casino drain and these are all known to contain significant placer gold. This tributary is also anomalous in several elements in the government regional geochemical surveys. These elements are Au, As, Zn, Cd, W, Pb, and Sb. The surficial geological mapping was accomplished by traverses being carried out in this highly favorable area.

Outcrops mapped did not contain any significant mineralization. The portion of Coffee Creek mapped shows that the upper portion is all filled in with colluvium and the lower portion is the only ground that probably contains significant alluvium. The geology mapped consisted of Proterozoic phyllite, schist and gneiss of the Yukon Metamorphic Complex that are intruded by early Cretaceous Dawson Range Batholith diorite.

The small amount of mapping done on the road above Casino creek was also in the Dawson Range Batholith and was composed of hornblende-biotite diorite. There was no significant mineralization found here either.

2. Conclusions

The most significant results obtained by mapping was the outlining of the large area of colluvium filled creek valleys on Coffee Creek. This colluvium will probably make mining very uneconomical as it will be expensive to reach the alluvium that is probably diluted with colluvium if alluvium exists here at all. The lower portion of this tributary of Coffee Creek looks to be much more suited to contain substantially deposits of alluvium and placer gold.

The presence of rocks from the Yukon Metamorphic Complex, near the top of the Coffee Creek tributary, is also favorable for gold since these rocks are the source of gold for most placer creeks in the Klondike. This creek also drains from the area of Casino and may contain gold originating from this porphyry source that is probably responsible for mineralization of Canadian, Rude, and Casino Creeks.

C. *Regional Silt Sampling*

1. Introduction

Regional silt sampling was done over a large area to try to locate areas that contain hidden deposits. Two types of silts were used in this project; regular -80 mesh silts and very fine silts, which are screened down to -250 mesh. The analysis of these samples gives us the distribution of elements, including gold, in surface gravels that may correspond to the gravels at depth if they are both eroded from the same rock source. This technique may not apply as the source of placer gold buried at depth may have completely eroded away and the thick layer of frozen mud above the placer gravels would keep the deposit hidden and null the results of the silt sample. Another problem is that the source of the placer gold on any particular creek may be veins in which the gold occurs as sporadic nuggets and no fine fraction. This problem may also hinder the survey due to the very small and fine nature of the silt sample. Other elements analyzed besides gold will help us detect these deposits if this occurs. We can look at creeks with known placer deposits and use silt sample analysis to see if these creeks have a particular geochemical signature that makes them stick out from the rest of the creeks in the area. These signatures

would originate from the source of the gold and may be of elements, pathfinders, that are transported much easier than the gold, therefore can be found far downstream from the source. We can also look for geochemical signatures that are similar to geochemical signatures for known hardrock gold deposits and models.

The fact that gold often occurs as a rare nugget (the "nugget effect") in the larger meshes sizes also causes a particle scarcity problem in which there is not enough particles of gold in the sample for it to be statistically valid. To overcome this problem we used the technique of very fine silt sampling on many duplicate samples to see if this technique produced better results. These samples are screened much finer and therefore potentially more gold particles will be analyzed.

The federal and territorial governments have completed large regional geochemical surveys for most of the Yukon. These provide us with excellent information not only for trying to find hidden deposits, but also for finding geochemical signatures of known deposits. These surveys show anomalous values for known placer streams on the south side the Yukon River around Patton Hill. These anomalies originate from the hard rock occurrences like Casino and the placer gold here probably also originates from these showings or peripheral veining. The anomalous elements on Casino area drainages include Ag, As, Cd, Cu, Mo, Pb, Sb, W, and Zn and are anomalous on Rude, Casino, Canadian and Britannia Creek. These elements are also anomalous in the tributary of Coffee Creek that drains the west side of Patton Hill and where we did our mapping and most of our prospecting.

The placer deposits that occur on the south side of the Yukon River do not have a strong geochemical signature of any sort in the government Regional Geochemical Surveys. This applies to the placer deposits in our study area that drain Thistle Mountain as well as the most famous creeks of the Klondike to the north. This is very unusual for such rich placer creeks, some of the richest in the world, and may be caused in part to being frozen under such thick layers of mud and the lack of glaciation to disperse the elements. In order to try to find geochemical signatures for these areas, we tried the very fine silt sampling along with regular silt sampling to see if any anomalies would appear in the finer fraction.

2. Method of Collection

Sampling creeks that drain into the Yukon River requires that we hike up the creek to be above the delta that is present at the bottom of the larger creeks. This can mean hiking up to 1 kilometer but will result in superior samples unaffected by the lower gradient of the delta. Samples are collected from lower velocity areas where silts will collect. Often these areas do not exist and only coarse sand is present and must be sampled, in which case a much larger sample is needed in order to screen out the necessary fines. The samples are collected with a small trowel and in the case of regular silt samples are put in Kraft paper silt sample bags(about .5 kg). The very fine silts need more material; up to 5 kg is collected into plastic sample bags. All regular silt samples were dried back at camp under a canvas but the samples in the plastic bags were dried in the lab. Two regular samples were taken on most creeks, 25 meters apart. These were labeled with the prefix TP96S___. Then often a very fine silt was collected between the two regular silts and labeled with the prefix TP96FS____. A Magellan 2000 GPS was then used to locate our position. This is done only once for all three samples due to the inaccuracy of the GPS, 50 to 100 meters when locked onto 4 satellites or 150 to 200 meters when locked onto 3. A cheaper GPS such as this proved adequate for a reconnaissance survey like this one where meter accuracy with differential correction in not needed. The samples are then taken by river boat back to McCabe Creek at the end of the project and to Vancouver by truck to Chemex Labs.

3. Method of Analysis

At the lab all very fine silts are dried . The fine silt samples are then sieved to less than 63 u (-250 mesh) and the regular silts are sieved to 175 u (-80 mesh). Then a 30 gram sample is taken to do the analysis. Gold is then analyzed by fire assay with A.A. finish. The other elements are analyzed by 32 element ICP with nitric aqua-regia digestion. This digestion may prove incomplete for Al, Ba, Be, Ca, Cr, Ga, K, Mg, Na, Sr, Ti, Tl, and W.

4. Results and Conclusions

Gold Analysis

Gold results showed that the very fine silt sampling is superior to the regular silt sampling with 38% of sample coming back with values above detection limits. Regular silts only had 11% of samples having gold values above detection limits. All the values above detection limit are above the 90th percentile of values from the 1986 RGS survey (Open file #1364). When these values occur in the very fine silts they should be more statistically meaningful since particle sparsity will be less of a problem.

The silts TP96FS008, 009 and 010, had the highest very fine silt values and are also from three of the four sites of regular silts that had values that were above detection limits(TP96S016, 018, and 019). These are from Touleary Creek and two unnamed creeks across the river. The other 3 very fine silts had Au values just above detection limits, TP96FS011, 012 and 014, and were missed completely by the regular silt sampling. One of these occurs on Halfway Creek, one on a unnamed creek across the river from Halfway Creek, and the third occurs on the most northern tributary of Casino Creek that we sampled. There is one regular silt, TP96S010, that has a very anomalous value of 600 ppb Au but values below detection limit in the very fine silt, and the other regular silt from the same area. This value is probably the result of a nugget effect that does not necessarily discount its importance. The location of the sample is a small unnamed creek just upstream from Excelsior Creek.

Location	Sample	Au
Touleary Creek	TP96FS009	30 ppb Au
	TP96S017	below detection limit
	TP96S018	35 ppb
Across from Touleary Creek and up river	TP96FS008	25 ppb
	TP96S015	below detection limit
	TP96S016	25 ppb
Across from Touleary Creek down river	TP96FS010	15 ppb
	TP96S019	25 ppb
	TP96S020	below detection limit
Small unnamed creek just up river from Excelsior creek.	TP96FS005	below detection limit
	TP96S009	below detection limit
	TP96S010	600 ppb
Halfway Creek(near Touleary Creek)	TP96FS011	10 ppb Au
	TP96S021	below detection limit
	TP96S022	below detection limit
Across the river from Halfway Creek(near Touleary Creek).	TP96FS012	10 ppb Au
	TP96S023	below detection limit
	TP96S024	below detection limit
Most northerly tributary of Casino Creek sampled.	TP96FS014	10 ppb Au
	TP96S030	below detection limit
	TP96S031	below detection limit

ICP Analysis

Anomalies for other elements are not that strong within our survey but when compared to the 1986 RGS survey become quite distinct.

Ag values are all below detection limits except for one sample, TP96S027, which is at the headwaters of the Coffee Creek tributary that drains part of Patton Hill. This sample has a value above the 99th percentile of the 1986 RGS survey.

Arsenic values are very consistent at sample areas between the two regular silts and the very fine silt. Samples TP96S027 and 028 have values greater than the 99th percentile of the 1986 RGS survey and occur on the tributary of Coffee Creek that drain off part of Patton hill.

Cd values are consistent at sample areas between the two regular silts and the very fine silt. Samples TP96FS013 and TP96S025 are anomalous, over the 98th percentile of 1986 RGS survey, and occur on the most westerly creek(unnamed) sampled on the Yukon River.

Co values are somewhat consistent at sample areas between the two regular silts and the very fine silt. Results were only strong in Casino Creek in samples TP96S034, 035.

Cu values are somewhat consistent at sample areas between the two regular silts and the very fine silt. Samples TP96FS013, 016, TP96S025, 026, 034, and 035 are anomalous. These all occur at two sample sites, Casino Creek and the most westerly creek(unnamed) sampled on the Yukon River.

Hg values were all below detection limits possibly due to analytical technique.

Mo values are all at or below detection limits except for one sample on Casino Creek.

Ni values are consistent at sample areas between the two regular silts and the very fine silt. Sample TP96S025 and TP96FS013, on the small unnamed creek at the west limit of our survey are very anomalous, over the 98th percentile of the 1986 RGS survey.

Pb values are somewhat consistent at sample areas between the two regular silts and the very fine silt. Results were only strong on Casino Creek in samples TP96S034 and 035

Sb values are very low showing weak anomalies around the tributary of Coffee Creek that drains off Patton Hill and the most northern small tributary of Casino that was sampled.

W values are all below detection limits due to the high detection limit and poor digestion of W in analytical methods used.

Zn values were very consistent at sample areas between the two regular silts and the very fine silt. Two sites, TP96S027 and 028, had values over the 99th percentile of the 1986 RGS survey. These are situated on the tributary of Coffee Creek that drains part of Patton Hill.

Most Significant ICP Analysis

Element	Sample Location	Sample
Ag	Headwaters of a tributary of Coffee Creek that drains Patton Hill.	TP96S027
As	Headwaters of a tributary of Coffee Creek that drains Patton Hill.	TP96S027 TP96S028
Cd	Most westerly creek sampled on the Yukon River(unnamed).	TP96FS013 TP96S025
Co	Bottom of Casino Creek	TP96S034 TP96S035
Cu	Most westerly creek sampled on the Yukon River(unnamed) and Casino Creek	TP96FS013 TP96FS016 TP95S025 TP96S026 TP96S034 TP96S035
Ni	Most westerly creek sampled on the Yukon River(unnamed).	TP96FS013 TP96S025
Pb	Bottom of Casino Creek.	TP96S034 TP96S035
Zn	Headwaters of a tributary of Coffee Creek that drains Patton Hill.	TP96S027 TP96S028

Summary

The most westerly creek sampled on the Yukon River was surprisingly anomalous in Cd, Ni and Cu. The bottom of Casino Creek was anomalous in Co, Mo, Pb, and Cu which was expected and the tributary of Coffee Creek that drains off Paton Hill was anomalous in Ag, As, Sb, and Zn. Another surprise was that gold values all came from creeks that were not highly anomalous in other elements. This could be due to placer gold occurring at these creeks sourcing from non Casino type mineralization, probably vein type mineralization that is not anomalous in other elements. The gold source of Thistle Mountain deposits and the more northerly Klondike deposits all have low silt geochemistry values for the pathfinder elements we tried to use. We obtained similar results at the large group of gold values we received near Touleary Creek. The placers of Patton Hill, Casino area, all have strong, distinctive geochemistry relating to the porphyry deposits of the area.

All the above described anomalies are just the strongest, most apparent anomalies, giving us the best targets for initial follow-up. Other important values exist and should be looked at again after the next stage of exploration.

When comparing values between this survey and the 1986 RGS one must remember different analytical techniques were used in analysis possibly producing different results.

VIII. Recommendations

The Tributary of Coffee Creek that drains Patton Hill, and the lower parts of Casino Creek are both unstaked areas that show possibly the best chance of hosting economic placer deposits. They both have anomalous silt geochemistry and both have adequate size and water for large scale mining. These two areas are also the most expensive to operate in of all the creeks we looked at. The lower portion of Casino Creek is very wide which could make finding a pay

streak difficult, or make potential for a very large deposit if there is a wider pay area. This area is very flat and wide and would be excellent area for an excavator fed floater dredge operation if the bedrock was at the right depth and the ground was thawed completely. This area also gets lots of sun and would thaw fast after removal of the moss. The tributary of Coffee Creek can only be mined in the lower portions due to the dilution of alluvium with talus, and the narrow valley width in the upper portions. This would make mining very expensive. This area also does not receive as much sun and thawing of the permafrost would be much slower. Both these creeks should be tested with large diameter auger drills. The anomaly at site TP96FS014 should also be drilled if a drill is in the area to drill the lower portion of Coffee Creek.

All the creeks in the area of Touleary Creek are also excellent targets for gold mineralization similar to Kirkman, Ballarat and Sparkling Creek. All these creeks had Au values except the most westerly one which was highly anomalous in other elements. Of these six creeks, Touleary should be tested first, by large diameter auger drilling. Touleary comes closest to draining the same area as Kirkman and Sparkling Creek although it's valley is much smaller and does not cut as deep. Halfway Creek should be tested next with the same large diameter auger drilling. If either of these creeks prove to have economic deposits of Au, the other creeks nearby that had Au values should also be drilled. The most westerly creek sampled should have more silt samples taken all the way to the headwaters, to try to determine the source of the non gold anomalies. The samples should be very fine silts so that there is a better chance of outlining an area of gold mineralization. This creek should also be prospected for several days in order to determine the origin of the anomalies. Very fine silts should also be done farther down river to see if the gold values will continue.

The creek just up river from Excelsior Creek, where TP96S010 originates, should also be followed up with more silt and very fine silt sampling at as spacing of 250 meters for 2 kilometers to see if anymore gold values will appear.

When the auger drilling is done at the recommended locations it should be as a fence across the valley in order to find the pay streaks and the deep channels. Spacing should be 50 meters or closer along the fence. Fences of holes across the valley should be as close as the budget will allow but after a few widely space ones are completed, up to 500 meters apart at this stage, the deep channels and pay streaks may be discovered. These channels and paystreaks can then be followed and outlined with the drill and later tested with excavator bulk sampling.

Appendix I

Sample Descriptions

Silts YT96

Sample Name TP96FS001 *Project* YT96 *Approximate Location* Near Selwyn River

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/16 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,962,070 *UTM Easting* 635,897 *GPS Used* ☑ *Date Collected* 14-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.30 *Depth Of Stream(meters)* 0.05 *Water Flow Rate* fast

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 10% gneiss, 10 % granite, 60% very coarse intrusive with large quartz eyes and little mafics

Notes Taken between TP96S001-002. Extremely narrow valley at lower end of stream.

Sample Name TP96FS002 *Project* YT96 *Approximate Location* Mascot Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/16 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,963,555 *UTM Easting* 631,649 *GPS Used* ☑ *Date Collected* 15-Jul-96

Location Accuracy In Meters 150 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.90 *Depth Of Stream(meters)* 0.10 *Water Flow Rate* slow

Bank alluvium *Sample Composition* coarse sand

Gravel Composition 90% diorite

Notes Taken between TP96S003-004

Sample Name TP96FS003 *Project* YT96 *Approximate Location* Pedlar Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,974,034 *UTM Easting* 613,234 *GPS Used* ☑ *Date Collected* 16-Jul-96

Location Accuracy In Meters 100 *Bed Rock* chlorite schist *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.35 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 10 % gneiss, 90 % chlorite schist or phyllite(foliation not extremely well developed).

Notes Taken between TP96S005-006

Sample Name TP96FS004 *Project* YT96 *Approximate Location* Just up river from Ballarat Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,975,297 *UTM Easting* 607,524 *GPS Used* ☑ *Date Collected* 17-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.60 *Depth Of Stream(meters)* 0.07 *Water Flow Rate* slow

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 90% gneiss

Notes Taken between TP96S007-008. Very steep high valley with high walls(lower end atleast).

Sample Name TP96FS005 *Project* YT96 *Approximate Location* Just up river from Excelsior Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,973,695 *UTM Easting* 605,192 *GPS Used* ☑ *Date Collected* 17-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.00 *Depth Of Stream(meters)* 0.07 *Water Flow Rate* moderate

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 70 % gneiss

Notes Taken between TP96S009-010

Sample Name: TP96FS006 | Project: YT96 | Approximate Location: Just up river from Coffee Creek
Fine Silt(-250 mesh): ☑ | NTS Map Sheet: 115J/14 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,975,774 | UTM Easting: 600,934 | GPS Used: ☑ | Date Collected: 18-Jul-96
Location Accuracy In Meters: 100 | Bed Rock: unknown | Water Present: ☑
Width Of Stream(meters): 1.00 | Depth Of Stream(meters): 0.15 | Water Flow Rate: slow
Bank: alluvium | Sample Composition: sand
Gravel Composition: all rounded gravel -70 % diorite, 20 % gneiss.
Notes: Taken between TP96S011-012. Some garnets in panning here.

Sample Name: TP96FS007 | Project: YT96 | Approximate Location: Just up river from Sparkling Creek
Fine Silt(-250 mesh): ☑ | NTS Map Sheet: 115J/14 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,978,058 | UTM Easting: 595,040 | GPS Used: ☑ | Date Collected: 18-Jul-96
Location Accuracy In Meters: 100 | Bed Rock: unknown | Water Present: ☑
Width Of Stream(meters): 0.70 | Depth Of Stream(meters): 0.04 | Water Flow Rate: slow
Bank: alluvium | Sample Composition: silt
Gravel Composition: 85% gneiss and phyllite
Notes: Taken between TP96S013-014.

Sample Name: TP96FS008 | Project: YT96 | Approximate Location: Down river and across from Sparkling Creek
Fine Silt(-250 mesh): ☑ | NTS Map Sheet: 115J/14 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,977,886 | UTM Easting: 590,384 | GPS Used: ☑ | Date Collected: 19-Jul-96
Location Accuracy In Meters: 100 | Bed Rock: unknown | Water Present: ☑
Width Of Stream(meters): 1.50 | Depth Of Stream(meters): 0.12 | Water Flow Rate: moderate
Bank: alluvium | Sample Composition: silt
Gravel Composition: 15% diorite, 3% quartz, 65% gneiss
Notes: Taken between TP96S015-016. High quantity of mica in sand

Sample Name: TP96FS009 | Project: YT96 | Approximate Location: Touleary Creek
Fine Silt(-250 mesh): ☑ | NTS Map Sheet: 115J/14 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,979,449 | UTM Easting: 591,009 | GPS Used: ☑ | Date Collected: 20-Jul-96
Location Accuracy In Meters: 150 | Bed Rock: unknown | Water Present: ☑
Width Of Stream(meters): 1.10 | Depth Of Stream(meters): 0.04 | Water Flow Rate: moderate
Bank: alluvium | Sample Composition: silt
Gravel Composition: ?
Notes: Taken between TP96S017-018.

Sample Name: TP96FS010 | Project: YT96 | Approximate Location: Up river from Halfway Creek
Fine Silt(-250 mesh): ☑ | NTS Map Sheet: 115J/14 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,978,740 | UTM Easting: 589,647 | GPS Used: ☑ | Date Collected: 21-Jul-96
Location Accuracy In Meters: 100 | Bed Rock: unknown | Water Present: ☑
Width Of Stream(meters): 1.50 | Depth Of Stream(meters): 0.12 | Water Flow Rate: moderate
Bank: alluvium | Sample Composition: sand
Gravel Composition: 15% diorite, 3% quartz, 65% gneiss
Notes: Taken between TP96S019-020.

Sample Name TP96FS011 *Project* YT96 *Approximate Location* Halfway Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,980,102 *UTM Easting* 588,824 *GPS Used* ☑ *Date Collected* 22-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.16 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* sand

Gravel Composition 15% diorite, 3% quartz, 65% gneiss-lots of mica in sand like stream across river.

Notes Taken between TP96S021-022. Abundant garnets when panning

Sample Name TP96FS012 *Project* YT96 *Approximate Location* Across the river from Halfway Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,981,957 *UTM Easting* 590,199 *GPS Used* ☑ *Date Collected* 31-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.50 *Depth Of Stream(meters)* 0.04 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 10% quartz
80% phyllite

Notes Taken between TP96S023-024. Abundant garnets when panning.

Sample Name TP96FS013 *Project* YT96 *Approximate Location* Up river from Kirkman Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,983,919 *UTM Easting* 587,802 *GPS Used* ☑ *Date Collected* 31-Jul-96

Location Accuracy In Meters 100 *Bed Rock* silicified phyllite *Water Present* ☑

Width Of Stream(meters) 0.40 *Depth Of Stream(meters)* 0.03 *Water Flow Rate* fast

Bank alluvium *Sample Composition* sand

Gravel Composition 55% schist, 30 % phyllite, 10 % quartz

Notes Taken between TP96S025-026. Abundant garnets when panning. No water going into river but 30m. up creek water is present. At base of creek valley 20m. banks of solid alluvium-creek or river?-no colors in panning any horizon.

Sample Name TP96FS014 *Project* YT96 *Approximate Location* Tributary of Casino Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,952,097 *UTM Easting* 610,302 *GPS Used* ☑ *Date Collected* 05-Aug-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.09 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* sand

Gravel Composition 65% diorite, 25% mafic gneiss

Notes Taken between TP96S030-31. Some possible road building contamination. Small valley but adequate width and water for 150 yrd/hr operation at this time. No talus in creek and getting lots of sun in valley bottom this time of year.

Sample Name TP96FS015 *Project* YT96 *Approximate Location* Tributary of Casino Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,949,513 *UTM Easting* 610,155 *GPS Used* ☑ *Date Collected* 06-Aug-96

Location Accuracy In Meters 100 *Bed Rock* diorite *Water Present* ☑

Width Of Stream(meters) 0.50 *Depth Of Stream(meters)* 0.12 *Water Flow Rate* slow

Bank subcrop *Sample Composition* coarse sand

Gravel Composition all 3mm grains of diorite

Notes Taken between TP96S032-033. Material all rotted diorite but believe would be frozen mud then frozen gravels at depth. Two trenches here in this remote spot-went down 1 meter in frozen rotten diorite-did not go any deeper and did not reach gravel

Sample Name TP96FS016 *Project* YT96 *Approximate Location* Casino Creek

Fine Silt(-250 mesh) ☑ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,948,538 *UTM Easting* 610,480 *GPS Used* ☑ *Date Collected* 07-Aug-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.40 *Depth Of Stream(meters)* 0.17 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 45% diorite, 20% metasediments.

Notes Sample taken between TP96S034-035.

Sample Name TP96S001 *Project* YT96 *Approximate Location* Near Selwyn River

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/16 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,962,070 *UTM Easting* 635,898 *GPS Used* ☑ *Date Collected* 14-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.30 *Depth Of Stream(meters)* 0.05 *Water Flow Rate* fast

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 10% gneiss, 10% granite, 60% very coarse intrusive with large quartz eyes and little mafics.

Notes Taken 25 meters down stream TP96S002

Sample Name TP96S002 *Project* YT96 *Approximate Location* Near Selwyn River

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/16 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,962,070 *UTM Easting* 635,898 *GPS Used* ☑ *Date Collected* 14-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.30 *Depth Of Stream(meters)* 0.05 *Water Flow Rate* fast

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 10% gneiss, 10% granite, 60% very coarse intrusive with large quartz eyes and little mafics.

Notes Taken 25 meters up stream TP96S001

Sample Name TP96S003 *Project* YT96 *Approximate Location* Mascot Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/16 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,963,555 *UTM Easting* 631,650 *GPS Used* ☑ *Date Collected* 15-Jul-96

Location Accuracy In Meters 150 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.90 *Depth Of Stream(meters)* 0.10 *Water Flow Rate* slow

Bank alluvium *Sample Composition* coarse sand

Gravel Composition 90% diorite

Notes Taken 25 meters down stream TP96S004.

Sample Name TP96S004 *Project* YT96 *Approximate Location* Mascot Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/16 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,963,555 *UTM Easting* 631,650 *GPS Used* ☑ *Date Collected* 15-Jul-96

Location Accuracy In Meters 150 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.90 *Depth Of Stream(meters)* 0.10 *Water Flow Rate* slow

Bank alluvium *Sample Composition* coarse sand

Gravel Composition 90% diorite

Notes Taken 25 meters up stream TP96S003.

Sample Name TP96S005 *Project* YT96 *Approximate Location* Pedlar Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,974,034 *UTM Easting* 613,234 *GPS Used* ☑ *Date Collected* 16-Jul-96

Location Accuracy In Meters 100 *Bed Rock* chlorite schist *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.35 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 10% gneiss, 90% chlorite schist or phyllite(foliation not extremely well developed).

Notes Taken 25 meters down stream TP96S006

Sample Name TP96S006 *Project* YT96 *Approximate Location* Pedlar Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,974,034 *UTM Easting* 613,234 *GPS Used* ☑ *Date Collected* 16-Jul-96

Location Accuracy In Meters 100 *Bed Rock* chlorite schist *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.35 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 10% gneiss, 90% chlorite schist or phyllite(foliation not extremely well developed).

Notes Taken 25 meters up stream TP96S005

Sample Name TP96S007 *Project* YT96 *Approximate Location* Just up river from Ballarat Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,975,297 *UTM Easting* 607,524 *GPS Used* ☑ *Date Collected* 17-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.60 *Depth Of Stream(meters)* 0.07 *Water Flow Rate* slow

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 90% gneiss

Notes Taken 25 meters down stream from TP96S008.

Sample Name TP96S008 *Project* YT96 *Approximate Location* Just up river from Ballarat Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,975,297 *UTM Easting* 607,524 *GPS Used* ☑ *Date Collected* 17-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.60 *Depth Of Stream(meters)* 0.07 *Water Flow Rate* slow

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 90% gneiss

Notes Taken 25 meters up stream from TP96S007.

Sample Name TP96S009 *Project* YT96 *Approximate Location* Just up river from Excelsior Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,973,695 *UTM Easting* 605,192 *GPS Used* ☑ *Date Collected* 17-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.00 *Depth Of Stream(meters)* 0.07 *Water Flow Rate* moderate

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 70% gneiss

Notes Taken 25 meters down stream from TP96S010.

Sample Name TP96S010 *Project* YT96 *Approximate Location* Just up river from Excelsior Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/15 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,973,695 *UTM Easting* 605,192 *GPS Used* ☑ *Date Collected* 17-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.00 *Depth Of Stream(meters)* 0.07 *Water Flow Rate* moderate

Bank colluvium *Sample Composition* coarse sand

Gravel Composition 70% gneiss

Notes Taken 25 meters up stream from TP96S009.

Sample Name TP96S011 *Project* YT96 *Approximate Location* Just up river from Coffee Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,975,774 *UTM Easting* 600,934 *GPS Used* ☑ *Date Collected* 18-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.00 *Depth Of Stream(meters)* 0.15 *Water Flow Rate* slow

Bank alluvium *Sample Composition* sand

Gravel Composition all rounded gravel-70% diorite, 20% gneiss.

Notes Taken 25 meters down stream TP96S012. Some garnets in panning here.

Sample Name TP96S012 *Project* YT96 *Approximate Location* Just up river from Coffee Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,975,774 *UTM Easting* 600,934 *GPS Used* ☑ *Date Collected* 18-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.00 *Depth Of Stream(meters)* 0.15 *Water Flow Rate* slow

Bank alluvium *Sample Composition* sand

Gravel Composition all rounded gravel-70% diorite, 20% gneiss.

Notes Taken 25 meters up stream TP96S011. Some garnets in panning here.

Sample Name TP96S013 *Project* YT96 *Approximate Location* Just upriver from Sparkling Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,978,058 *UTM Easting* 595,040 *GPS Used* ☑ *Date Collected* 18-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.70 *Depth Of Stream(meters)* 0.04 *Water Flow Rate* slow

Bank alluvium *Sample Composition* silt

Gravel Composition 85% gneiss and phyllite

Notes Taken 25 meters down stream TP96S014.

Sample Name TP96S014 *Project* YT96 *Approximate Location* Just upriver from Sparkling Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,978,058 *UTM Easting* 595,040 *GPS Used* ☑ *Date Collected* 18-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.70 *Depth Of Stream(meters)* 0.04 *Water Flow Rate* slow

Bank alluvium *Sample Composition* silt

Gravel Composition 85% gneiss and phyllite

Notes Taken 25 meters up stream TP96S013.

Sample Name TP96S015 *Project* YT96 *Approximate Location* Down river and across from Sparkling Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,977,888 *UTM Easting* 590,385 *GPS Used* ☑ *Date Collected* 19-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.50 *Depth Of Stream(meters)* 0.12 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 15% diorite, 3% quartz, 65% gneiss

Notes Taken 25 meters down stream TP96S016. High quantity of mica in sand.

Sample Name TP96S016 *Project* YT96 *Approximate Location* Down river and across from Sparkling Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,977,888 *UTM Easting* 590,385 *GPS Used* ☑ *Date Collected* 19-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.50 *Depth Of Stream(meters)* 0.12 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 15% diorite, 3% quartz, 65% gneiss

Notes Taken 25 meters up stream TP96S015. High quantity of mica in sand.

Sample Name TP96S017 *Project* YT96 *Approximate Location* Touleary Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,979,449 *UTM Easting* 591,009 *GPS Used* ☑ *Date Collected* 20-Jul-96

Location Accuracy In Meters 150 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.10 *Depth Of Stream(meters)* 0.04 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition ?

Notes Taken 25 meters downstream TP96S018.

Sample Name TP96S018 *Project* YT96 *Approximate Location* Touleary Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,979,449 *UTM Easting* 591,009 *GPS Used* ☑ *Date Collected* 20-Jul-96

Location Accuracy In Meters 150 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.10 *Depth Of Stream(meters)* 0.04 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition ?

Notes Taken 25 meters upstream TP96S017.

Sample Name TP96S019 *Project* YT96 *Approximate Location* Just up river from Halfway Creek.

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,978,740 *UTM Easting* 589,647 *GPS Used* ☑ *Date Collected* 21-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.50 *Depth Of Stream(meters)* 0.12 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 15% diorite, 3% quartz, 65% gneiss

Notes Taken 25 meters downstream from TP96S020.

Sample Name TP96S020 *Project* YT96 *Approximate Location* Just up river from Halfway Creek.

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,978,740 *UTM Easting* 589,647 *GPS Used* ☑ *Date Collected* 21-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 1.50 *Depth Of Stream(meters)* 0.12 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 15% diorite, 3% quartz, 65% gneiss

Notes Taken 25 meters upstream from TP96S019.

Sample Name TP96S021 *Project* YT96 *Approximate Location* Halfway Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,980,102 *UTM Easting* 588,824 *GPS Used* ☑ *Date Collected* 22-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.16 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* sand

Gravel Composition 15% diorite, 3% quartz, 65% gneiss

Notes Taken 25 meters down stream from TP96S022. Lots of mica in sand like stream across river.

Sample Name TP96S022 *Project* YT96 *Approximate Location* Halfway Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,980,102 *UTM Easting* 588,824 *GPS Used* ☑ *Date Collected* 22-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.16 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* sand

Gravel Composition 15% diorite, 3% quartz, 65% gneiss

Notes Taken 25 meters up stream from TP96S021. Lots of mica in sand like stream across river.

Sample Name TP96S023 *Project* YT96 *Approximate Location* Across the river from Halfway Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,981,957 *UTM Easting* 590,199 *GPS Used* ☑ *Date Collected* 31-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.50 *Depth Of Stream(meters)* 0.04 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 10% quartz, 80% phyllite

Notes Taken 25 meters down stream from TP96S024. Abundant garnets when panning.

Sample Name TP96S024 *Project* YT96 *Approximate Location* Across the river from Halfway Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/14 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,981,957 *UTM Easting* 590,199 *GPS Used* ☑ *Date Collected* 31-Jul-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 0.50 *Depth Of Stream(meters)* 0.04 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 10% quartz, 80% phyllite

Notes Taken 25 meters up stream from TP96S023. Abundant garnets when panning.

Sample Name: TP96S025 | Project: YT96 | Approximate Location: Just up river from Kirkman Creek
Fine Silt(-250 mesh): ☐ | NTS Map Sheet: 115J/14 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,983,919 | UTM Easting: 587,802 | GPS Used: ☑ | Date Collected: 31-Jul-96
Location Accuracy In Meters: 100 | Bed Rock: unknown | Water Present: ☑
Width Of Stream(meters): 0.40 | Depth Of Stream(meters): 0.03 | Water Flow Rate: fast
Bank: alluvium | Sample Composition: sand
Gravel Composition: 55% schist, 30% phyllite, 10% quartz
Notes: Taken 25 meters down stream from TP96S026. No water entering river on surface but 30 meters up the creek water is running. At base of valley is 20 meter banks of solid alluvium, insitu, creek or river?-no colors present in panning any horizon.

Sample Name: TP96S026 | Project: YT96 | Approximate Location: Just up river from Kirkman Creek
Fine Silt(-250 mesh): ☐ | NTS Map Sheet: 115J/14 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,983,919 | UTM Easting: 587,802 | GPS Used: ☑ | Date Collected: 31-Jul-96
Location Accuracy In Meters: 100 | Bed Rock: unknown | Water Present: ☑
Width Of Stream(meters): 0.40 | Depth Of Stream(meters): 0.03 | Water Flow Rate: fast
Bank: alluvium | Sample Composition: sand
Gravel Composition: 55% schist, 30% phyllite, 10% quartz
Notes: Taken 25 meters up stream from TP96S025. No water entering river on surface but 30 meters up the creek water is running. At base of valley is 20 meter banks of solid alluvium, insitu, creek or river?-no colors present in panning any horizon.

Sample Name: TP96S027 | Project: YT96 | Approximate Location: Top of tributary of Coffee Creek
Fine Silt(-250 mesh): ☐ | NTS Map Sheet: 115J/10 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,958,924 | UTM Easting: 603,854 | GPS Used: ☑ | Date Collected: 01-Aug-96
Location Accuracy In Meters: 100 | Bed Rock: diorite | Water Present: ☑
Width Of Stream(meters): 1.00 | Depth Of Stream(meters): 0.07 | Water Flow Rate: moderate
Bank: colluvium | Sample Composition: silt
Gravel Composition: 80% diorite, 20% gneiss
Notes: Sample trapped in root matter, water flowing yet creek bottom, mud and silt, frozen.

Sample Name: TP96S028 | Project: YT96 | Approximate Location: Further down same tributary as TP96S027
Fine Silt(-250 mesh): ☐ | NTS Map Sheet: 115J/11 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,958,355 | UTM Easting: 601,822 | GPS Used: ☑ | Date Collected: 02-Aug-96
Location Accuracy In Meters: 100 | Bed Rock: diorite | Water Present: ☑
Width Of Stream(meters): 1.00 | Depth Of Stream(meters): 1.20 | Water Flow Rate: moderate
Bank: colluvium | Sample Composition: coarse sand
Gravel Composition: 80% diorite 20% gneiss
Notes: Gravel and silts still frozen on stream bottom.

Sample Name: TP96S029 | Project: YT96 | Approximate Location: Further yet down tributary from TP96S028
Fine Silt(-250 mesh): ☐ | NTS Map Sheet: 115J/11 | UTM Zone: 7 | Sampler: TMP
UTM Northing: 6,957,928 | UTM Easting: 598,976 | GPS Used: ☑ | Date Collected: 03-Aug-96
Location Accuracy In Meters: 150 | Bed Rock: diorite | Water Present: ☑
Width Of Stream(meters): 2.20 | Depth Of Stream(meters): 0.12 | Water Flow Rate: fast
Bank: alluvium | Sample Composition: sand
Gravel Composition: 70% diorite 30% gneiss
Notes:

Sample Name TP96S030 *Project* YT96 *Approximate Location* Tributary of Casino Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,952,097 *UTM Easting* 610,302 *GPS Used* ☑ *Date Collected* 05-Aug-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.09 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* sand

Gravel Composition 65% diorite, 25% mafic gneiss

Notes Taken 25 meters down stream from TP96S031.Some possible road building contamination. Small valley but adequate width and water possibly for 150 yrd/hr operation. Little talus seen and getting lots of sun in valley bottom this time of year.

Sample Name TP96S031 *Project* YT96 *Approximate Location* Tributary of Casino Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,952,097 *UTM Easting* 610,302 *GPS Used* ☑ *Date Collected* 05-Aug-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.00 *Depth Of Stream(meters)* 0.09 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* sand

Gravel Composition 65% diorite, 25% mafic gneiss

Notes Taken 25 meters up stream from TP96S030. Small valley but adequate width and water possibly for 150 yrd/hr operation. Little talus seen and getting lots of sun in valley bottom this time of year.

Sample Name TP96S032 *Project* YT96 *Approximate Location* Another tributary of Casino Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,949,513 *UTM Easting* 610,155 *GPS Used* ☑ *Date Collected* 06-Aug-96

Location Accuracy In Meters 100 *Bed Rock* diorite *Water Present* ☑

Width Of Stream(meters) 0.50 *Depth Of Stream(meters)* 0.12 *Water Flow Rate* slow

Bank frozen mud *Sample Composition* coarse sand

Gravel Composition all 3mm grains of rotted diorite.

Notes Taken 25 meters down stream from TP96S033. Material is frozen mud and rotted diorite gravel. Believe there would be more frozen mud for a large depth then alluvium. Two trenches here in this remote location-went down 1 meter in frozen rotten diorite-did not go any deeper and did not reach gravel-I believe would have if kept going.

Sample Name TP96S033 *Project* YT96 *Approximate Location* Another tributary of Casino Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,949,513 *UTM Easting* 610,155 *GPS Used* ☑ *Date Collected* 06-Aug-96

Location Accuracy In Meters 100 *Bed Rock* diorite *Water Present* ☑

Width Of Stream(meters) 0.50 *Depth Of Stream(meters)* 0.12 *Water Flow Rate* slow

Bank frozen mud *Sample Composition* coarse sand

Gravel Composition all 3mm grains of rotted diorite.

Notes Taken 25 meters up stream from TP96S032. Material is frozen mud and rotted diorite gravel. Believe there would be more frozen mud for a large depth then alluvium. Two trenches here in this remote location-went down 1 meter in frozen rotten diorite-did not go any deeper and did not reach gravel-I believe would have if kept going.

Sample Name TP96S034 *Project* YT96 *Approximate Location* Casino Creek

Fine Silt(-250 mesh) ☐ *NTS Map Sheet* 115J/10 *UTM Zone* 7 *Sampler* TMP

UTM Northing 6,946,538 *UTM Easting* 610,480 *GPS Used* ☑ *Date Collected* 07-Aug-96

Location Accuracy In Meters 100 *Bed Rock* unknown *Water Present* ☑

Width Of Stream(meters) 2.40 *Depth Of Stream(meters)* 0.17 *Water Flow Rate* moderate

Bank alluvium *Sample Composition* silt

Gravel Composition 45% diorite, 20% metasediments.

Notes Taken 25 meters down stream from TP96S035.

Sample Name	TP96S035	*Project*	YT96	*Approximate Location*	Casino Creek		
Fine Silt(-250 mesh)	☐	*NTS Map Sheet*	115J/10	*UTM Zone*	7	*Sampler*	TMP
UTM Northing	6,948,538	*UTM Easting*	610,480	*GPS Used*	☑	*Date Collected*	07-Aug-96
Location Accuracy In Meters	100	*Bed Rock*	unknown	*Water Present*	☑		
Width Of Stream(meters)	2.40	*Depth Of Stream(meters)*	0.17	*Water Flow Rate*	moderate		
Bank	alluvium	*Sample Composition*	silt				
Gravel Composition	45% diorite, 20% metasediments.						
Notes	Taken 25 meters up stream from TP96S034 .						

Rocks YT96

Sample Name	TP96R001	***Project***	YT96
Sampler	TMP	***Sample Type***	Outcrop
Approximate Location	Yukon River	***GPS Used***	☑
NTS Map Sheet	115J/14	***UTM Zone***	7
UTM Easting	594,180	***UTM Northing***	6,977,870
Location Accuracy In Meters	150	***Date Collected***	18-Jul-96
Host Rock	deformed sediments		
Description	Altered fault zone. Approx. dip 78 degrees south on east-west trending zone(extremely difficult to tell due to high folding in fault area). Bedding on both sides vertical to flat and dipping all directions. Host rock is micaceous sediments, some extremely graphitic, some completely sericitized. Sample is chip sample across main 3 meters of fault zone. Very limonitic, graphitic zone with quartz stringers and carbonate alteration.		

Sample Name	TP96R002	***Project***	YT96
Sampler	TMP	***Sample Type***	Outcrop
Approximate Location	Yukon River	***GPS Used***	☑
NTS Map Sheet	115J/14	***UTM Zone***	7
UTM Easting	594,060	***UTM Northing***	6,977,890
Location Accuracy In Meters	150	***Date Collected***	18-Jul-96
Host Rock	deformed sediments		
Description	30 meters upstream from TP96R001. A similar fault zone with the main alteration being 3 meter wide, striking 307 degrees and dipping 65 degrees N. Sample same as TP96R001(3 meter chip sample across fault zone) but includes .3 meters of light green clay and .15 meters of purple clay.		

Sample Name	TP96R003	***Project***	YT96
Sampler	TMP	***Sample Type***	Subcrop
Approximate Location	east tributary Coffee Cr.	***GPS Used***	☐
NTS Map Sheet	115J/10	***UTM Zone***	7
UTM Easting	604,348	***UTM Northing***	6,957,020
Location Accuracy In Meters	150	***Date Collected***	08-Aug-96
Host Rock	phyllite		
Description	Sample of mineralized quartz vein in phyllite. Quartz vein contains 6% limeonite and 2% pyrite. This is a selective grab of vein that has a width of 4". Many similar small veins in 10m. area then diorite occurs around the phyllite outside this 10m circle and no more mineralized veins. Looking for possible sources of placer mineralization.		

Sample Name	TP96R004	***Project***	other
Sampler	MRH	***Sample Type***	Outcrop
Approximate Location	Yukon River	***GPS Used***	☑
NTS Map Sheet	1150	***UTM Zone***	7
UTM Easting	560,979	***UTM Northing***	7,058,375
Location Accuracy In Meters	100	***Date Collected***	10-Sep-96
Host Rock	limestone		
Description	Out of project area-do not include in budget. Included here as sent in for analysis at same time as YT96 project and came back on same receipt. Small hard to see adit on Yukon river-very old. Area consists of hydrothermal altered, highly fractured limestone with quartz stringers. Sampled 1 meter section inside adit with .5 cm stringers occurring approximately 20 per meter. No visible sulphides.		

Soils YT96

Sample Name	TP96P001	***Project***	YT96
Sampler	TMP	***NTS Map Sheet***	115J/14
Approximate Location	East tributary Coffee Creek	***GPS Used***	☑
UTM Zone	7	***UTM Easting***	601,608
UTM Northing	6,959,343	***Location Accuracy In Meters***	100
Date Collected	10-Aug-96	***Sample depth(cm)***	15
Sample Color	orange-brown	***Percent Angular Fragments***	0%
Sample Composition	soil	***Sample Horizon***	b
Slope	moderate		
Notes	from an area of obvious vegetation stress-all moss in 100m circle much lighter color.		

Appendix II

Table Of Analysis And Locations

SAMPLE	NORTHING	EASTING	Au ppb	Ag ppm	Al %	As ppm_	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
TP96FS001	6962070.194	635897.615	<5	<0.2	1.60	20	480	0.5	<2	0.92	0.5	13	46	31	2.97	<10	<1	0.20	30	0.78
TP96FS002	6963554.501	631649.968	<5	<0.2	2.02	42	420	<0.5	<2	0.88	0.5	13	29	19	2.77	<10	<1	0.18	30	0.71
TP96FS003	6974034.476	613233.936	<5	<0.2	1.49	4	170	<0.5	<2	0.77	<0.5	9	26	14	2.07	<10	<1	0.09	10	0.62
TP96FS004	6975296.989	607523.779	<5	<0.2	1.78	<2	310	<0.5	<2	1.10	<0.5	15	33	31	2.65	<10	<1	0.21	10	0.85
TP96FS005	6973695.43	605191.71	<5	<0.2	1.69	10	410	0.5	<2	1.40	0.5	15	45	36	2.88	<10	<1	0.21	40	0.89
TP96FS006	6975773.828	600934.265	<5	<0.2	1.65	8	210	0.5	2	0.86	<0.5	12	34	16	2.33	<10	<1	0.12	30	0.66
TP96FS007	6978058.436	595039.543	<5	<0.2	1.55	4	290	<0.5	<2	0.99	<0.5	13	34	35	2.43	<10	<1	0.15	20	0.77
TP96FS008	6977888.142	590384.811	25	<0.2	1.25	6	150	<0.5	2	0.61	<0.5	10	30	11	2.14	<10	<1	0.13	30	0.54
TP96FS009	6979449.172	591009.231	30	<0.2	1.23	4	270	<0.5	<2	0.78	<0.5	9	41	21	2.21	<10	<1	0.10	10	0.65
TP96FS010	6978739.612	589646.866	15	<0.2	1.41	14	190	<0.5	4	0.67	<0.5	11	30	14	2.22	<10	<1	0.12	30	0.57
TP96FS011	6980101.974	588823.776	10	<0.2	1.46	10	160	<0.5	<2	0.76	<0.5	10	35	13	2.12	<10	<1	0.13	30	0.62
TP96FS012	6981956.832	590199.332	10	<0.2	1.32	<2	180	<0.5	<2	0.68	<0.5	10	30	17	2.12	<10	<1	0.17	20	0.60
TP96FS013	6983919.417	587802.01	<5	<0.2	1.46	4	230	<0 5	2	1.01	1.5	12	39	56	2.32	<10	<1	0.22	50	0.65
TP96FS014	6952097.002	610302.012	10	<0.2	2.03	10	220	<0.5	<2	0.90	<0.5	14	32	24	2.93	<10	<1	0.19	20	0.86
TP96FS015	6949513.168	610155.034	<5	<0.2	1.82	<2	200	<0.5	2	0.81	<0.5	11	25	12	2.42	<10	<1	0.15	10	0.63
TP96FS016	6948537.554	610480.243	<5	<0.2	1.82	18	240	<0.5	<2	0.78	1.0	14	26	88	2.83	<10	<1	0.14	20	0.66
TP96P001	6959343.3	601608.087	<5	0.2	1.56	16	170	<0.5	<2	1.10	0.5	6	360	28	4.41	<10	<1	0.06	<10	0.28
TP96R001	6977870.465	594179.681	30	0.4	1.73	6	1060	16	2	0.76	<0.5	<1	58	13	0.84	<10	1	0.41	<10	0.33
TP96R002	6977890.461	594059.709	<5	0.6	0.41	18	120	0.5	<2	1.26	<0.5	6	74	45	2.71	<10	<1	0.22	<10	0.19
TP96R003	6957020.201	607347.518	10	0.2	0.12	284	40	<0.5	<2	0.02	<0.5	3	208	2	0.60	<10	<1	0.04	<10	0.01
TP96R004	7058375	560979	<5	<0.2	0.02	2	10	<0.5	<2	>15.00	1.0	<1	18	1	0.26	<10	2	0.01	<10	5.65
TP96S001	6962070.194	635897.615	<5	<0.2	1.43	26	330	0.5	<2	0.80	<0.5	12	41	31	3.17	<10	<1	0.19	20	0.83
TP96S002	6962070.194	635897.615	<5	<0.2	1.44	26	350	0.5	<2	0.68	<0.5	12	41	28	3.17	<10	<1	0.19	20	0.81
TP96S003	6963554.501	631649.968	<5	<0.2	1.81	52	320	<0.5	<2	0.65	<0.5	11	24	15	3.65	<10	<1	0.20	10	0.79
TP96S004	6963554.501	631649.968	<5	<0.2	1.90	38	330	<0.5	<2	0.72	<0 5	10	25	14	3.33	<10	<1	0.18	20	0.72
TP96S005	6974034.476	613233.936	<5	<0.2	1.78	4	180	<0.5	<2	0.97	<0.5	11	27	23	2.69	<10	<1	0.11	10	0.87
TP96S006	6974034.476	613233.936	<5	<0.2	1.63	4	140	<0.5	<2	0.73	<0.5	10	24	14	2.48	<10	<1	0.10	10	0.61
TP96S007	6975296.989	607523.779	<5	<0.2	1.68	2	200	<0.5	<2	0.83	<0.5	12	24	24	2.77	<10	<1	0.19	10	0.88
TP96S008	6975296.989	607523.779	<5	<0.2	1.75	<2	270	<0.5	2	0.91	<0.5	14	27	28	3.01	<10	<1	0.22	10	0.96
TP96S009	6973695.428	605191.708	<5	<0.2	1.53	4	300	0.5	<2	0.93	<0.5	14	42	24	2.98	<10	<1	0.23	20	0.97
TP96S010	6973695.428	605191.708	600	<0.2	1.26	2	350	<0.5	<2	0.91	<0.5	12	36	22	2.66	<10	<1	0.19	20	0.82
TP96S011	6975773.828	600934.265	<5	<0.2	1.40	10	140	<0.5	<2	0.66	<0.5	13	34	14	2.68	<10	<1	0.15	10	0.74
TP96S012	6975773.828	600934.265	<5	<0.2	1.52	10	140	<0.5	2	0.63	<0.5	13	35	14	2.78	<10	<1	0.16	10	0.80
TP96S013	6978058.436	595039.543	<5	<0.2	1.70	<2	250	<0.5	<2	0.86	<0.5	14	35	34	2.90	<10	<1	0.18	10	0.94
TP96S014	6978058.436	595039.543	<5	<0.2	1.86	2	260	<0.5	<2	1.18	<0.5	13	36	40	2.98	<10	<1	0.20	20	1.03
TP96S015	6977888.142	590384.811	<5	<0.2	1.14	6	100	<0.5	<2	0.46	<0.5	9	26	9	2.20	<10	<1	0.15	20	0.58
TP96S016	6977888.142	590384.811	25	<0.2	0.92	8	90	<0.5	<2	0.41	<0.5	8	22	7	1.98	<10	<1	0.13	20	0.47
TP96S017	6979449.172	591009.231	<5	<0.2	1.15	2	200	<0.5	<2	0.70	<0.5	9	39	21	2.10	<10	<1	0.09	10	0.69

SAMPLE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TP96FS001	725	<1	0.02	33	960	12	<2	7	55	0.07	<10	<10	60	<10	96
TP96FS002	1110	<1	0.02	15	930	12	<2	9	74	0.11	<10	10	69	<10	114
TP96FS003	430	<1	0.03	15	630	2	<2	5	59	0.11	<10	10	49	<10	54
TP96FS004	900	<1	0.02	21	690	6	<2	6	76	0.10	<10	<10	56	<10	78
TP96FS005	755	1	0.01	39	1060	8	<2	6	116	0.09	<10	<10	50	<10	112
TP96FS006	600	1	0.02	22	660	8	6	5	53	0.09	<10	<10	50	<10	64
TP96FS007	750	1	0.02	24	790	4	<2	5	68	0.09	<10	<10	53	<10	80
TP96FS008	400	<1	0.01	16	710	8	<2	4	45	0.08	<10	10	43	<10	46
TP96FS009	345	<1	0.02	22	870	8	<2	4	51	0.08	<10	<10	52	<10	62
TP96FS010	590	<1	0.01	17	670	10	<2	4	46	0.09	<10	<10	46	<10	54
TP96FS011	450	<1	0.01	21	740	2	<2	4	63	0.10	<10	10	44	<10	54
TP96FS012	315	<1	0.02	22	670	6	<2	4	42	0.09	<10	<10	43	<10	52
TP96FS013	395	<1	0.01	43	760	6	<2	6	69	0.08	<10	<10	44	<10	112
TP96FS014	685	1	0.04	18	820	8	<2	10	44	0.14	<10	<10	80	<10	84
TP96FS015	815	1	0.03	12	750	2	<2	6	66	0.13	<10	<10	58	<10	50
TP96FS016	815	<1	0.03	14	800	26	2	7	50	0.11	<10	10	63	<10	118
TP96P001	315	4	<0.01	23	540	12	<2	3	20	0.07	<10	<10	132	<10	114
TP96R001	85	4	0.01	7	550	26	<2	1	97	<0.01	<10	<10	32	<10	80
TP96R002	185	5	<0.01	27	530	8	<2	4	127	<0.01	<10	<10	20	<10	68
TP96R003	470	<1	<0.01	12	40	10	<2	<1	3	<0.01	<10	<10	3	<10	54
TP96R004	130	<1	0.03	4	130	<2	<2	<1	667	<0.01	<10	<10	3	<10	10
TP96S001	745	1	0.01	32	780	14	<2	6	49	0.05	<10	<10	60	<10	106
TP96S002	645	1	0.01	32	840	12	<2	5	41	0.06	<10	<10	61	<10	98
TP96S003	820	<1	0.01	9	780	10	2	7	53	0.12	<10	<10	102	<10	108
TP96S004	870	<1	0.01	10	930	10	2	7	56	0.11	<10	<10	94	<10	96
TP96S005	540	<1	0.03	17	650	6	<2	5	80	0.10	<10	<10	59	<10	68
TP96S006	415	<1	0.02	14	670	4	<2	4	57	0.10	<10	<10	56	<10	62
TP96S007	540	1	0.02	15	740	2	<2	5	59	0.09	<10	<10	58	<10	74
TP96S008	625	<1	0.02	16	810	2	<2	5	68	0.10	<10	<10	62	<10	94
TP96S009	530	<1	<0.01	31	1030	6	<2	4	68	0.08	<10	<10	46	<10	120
TP96S010	500	<1	<0.01	28	1010	4	<2	3	62	0.07	<10	<10	41	<10	96
TP96S011	490	<1	0.01	22	680	6	4	3	43	0.07	<10	<10	45	<10	80
TP96S012	535	<1	0.01	22	730	6	2	3	45	0.07	<10	<10	45	<10	78
TP96S013	650	1	0.02	24	820	2	2	5	64	0.10	<10	<10	62	<10	98
TP96S014	670	<1	0.02	24	800	2	<2	5	84	0.10	<10	<10	61	<10	114
TP96S015	395	<1	0.01	14	650	4	2	3	38	0.07	<10	<10	36	<10	48
TP96S016	370	<1	0.01	12	730	6	<2	2	31	0.05	<10	<10	32	<10	44
TP96S017	320	<1	0.01	21	840	8	<2	3	50	0.07	<10	<10	46	<10	62

SAMPLE	NORTHING	EASTING	Au ppb	Ag ppm	Al %	As ppm_	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
TP96S018	6979449.172	591009.231	35	<0.2	1.21	2	220	<0.5	<2	0.77	<0.5	9	43	19	2.33	<10	<1	0.09	10	0.69
TP96S019	6978739.612	589646.868	25	<0.2	1.49	16	150	<0.5	<2	0.68	<0.5	11	30	14	2.59	<10	<1	0.15	30	0.69
TP96S020	6978739.612	589646.868	<5	<0.2	1.47	18	160	<0.5	<2	0.72	<0.5	12	28	15	2.55	<10	<1	0.14	30	0.65
TP96S021	6980101.974	588823.776	<5	<0.2	1.71	16	140	<0.5	<2	0.79	<0.5	13	42	15	2.68	<10	<1	0.21	30	0.87
TP96S022	6980101.974	588823.776	<5	<0.2	1.50	12	140	<0.5	<2	0.70	<0.5	13	40	13	2.81	<10	<1	0.20	30	0.81
TP96S023	6981956.442	590196.281	<5	<0.2	1.36	<2	160	<0.5	4	0.63	<0.5	12	29	22	2.64	<10	<1	0.22	20	0.74
TP96S024	6981957.332	590198.054	<5	<0.2	1.27	2	140	<0.5	<2	0.50	<0.5	11	28	16	2.55	<10	<1	0.20	10	0.67
TP96S025	6983919.417	587602.01	<5	<0.2	1.69	<2	250	<0.5	2	1.16	1.0	16	48	68	3.19	<10	<1	0.32	50	0.89
TP96S026	6983919.417	587602.01	<5	<0.2	1.72	6	260	<0.5	2	1.02	0.5	17	43	54	3.29	<10	<1	0.31	40	0.93
TP96S027	6958923.819	603854.175	<5	0.8	2.15	62	200	0.5	2	0.70	0.5	10	30	20	2.98	<10	<1	0.12	30	0.62
TP96S028	6958354.709	601821.636	<5	<0.2	1.95	58	190	0.5	2	0.64	1.0	10	27	20	2.71	<10	<1	0.13	30	0.58
TP96S029	6957927.88	598976.089	<5	<0.2	1.63	20	160	0.5	<2	0.57	0.5	10	20	12	2.62	<10	<1	0.13	30	0.47
TP96S030	6952097.002	610302.012	<5	<0.2	2.11	10	210	<0.5	<2	0.84	<0.5	18	30	28	4.24	<10	<1	0.27	10	1.20
TP96S031	6952097.002	610302.012	<5	<0.2	2.15	10	190	<0.5	<2	0.84	0.5	15	30	24	3.69	<10	<1	0 25	10	1.14
TP96S032	6949513.168	610155.034	<5	<0.2	1.83	2	210	<0.5	<2	0.70	<0 5	11	18	12	3.07	<10	<1	0.23	10	0.69
TP96S033	6949513.168	610155.034	<5	<0.2	1.99	<2	200	<0.5	<2	0.76	<0.5	12	20	13	3.02	<10	<1	0.24	10	0.77
TP96S034	6948537.554	610480.243	<5	<0.2	1.95	14	240	<0.5	<2	0.72	0.5	18	26	94	4.26	<10	<1	0.19	10	0.81
TP96S035	6948537.554	610480.243	<5	<0.2	1.48	18	200	<0.5	2	0 56	0.5	18	20	78	4 00	<10	<1	0.16	10	0.68

SAMPLE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TP96S018	360	<1	0.02	20	930	4	<2	4	53	0.08	<10	<10	55	<10	60
TP96S019	560	<1	0.01	16	780	8	<2	4	52	0.09	<10	<10	49	<10	62
TP96S020	635	1	0.01	14	740	10	<2	4	55	0.09	<10	<10	48	<10	66
TP96S021	550	<1	0.01	21	840	<2	<2	4	75	0.10	<10	<10	46	<10	66
TP96S022	495	<1	0.01	22	750	2	<2	3	55	0.10	<10	<10	43	<10	66
TP96S023	400	<1	0.01	24	840	2	<2	3	41	0.07	<10	<10	42	<10	66
TP96S024	330	<1	0.01	21	700	4	<2	3	32	0.07	<10	<10	42	<10	58
TP96S025	505	1	0.01	51	990	6	<2	5	82	0.09	<10	<10	54	<10	146
TP96S026	575	<1	0.01	34	900	6	<2	5	74	0.10	<10	<10	63	<10	132
TP96S027	495	<1	0.01	19	910	26	4	6	53	0.10	<10	<10	53	<10	202
TP96S028	635	<1	0.01	16	830	26	4	5	51	0.09	<10	<10	52	<10	210
TP96S029	635	1	0.01	10	690	10	<2	4	43	0.08	<10	<10	49	<10	96
TP96S030	780	1	0.07	13	700	4	6	11	39	0.14	<10	<10	124	<10	82
TP96S031	590	1	0.05	14	790	8	2	10	41	0.15	<10	<10	101	<10	90
TP96S032	1265	1	0.03	9	700	<2	<2	5	63	0.12	<10	<10	70	<10	82
TP96S033	1210	<1	0.03	11	710	<2	<2	6	71	0.13	<10	<10	73	<10	62
TP96S034	940	3	0.04	12	730	42	<2	7	44	0.11	<10	<10	103	<10	150
TP96S035	1080	1	0.03	10	690	44	2	6	33	0.08	<10	<10	91	<10	134

Appendix III

Certificates Of Analysis

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave , North Vancouver
British Columbia, Canada V7J 2C1
PHONE 604-984-0221 FAX 604-984-0218

To PARSONS, TODD

R R #1
KEREMEOS, BC
V0X 1N0

A9636811

Comments

CERTIFICATE A9636811

(GJO) - PARSONS, TODD

Project: YUKON 96
P O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	35	Dry, sieve to -80 mesh
202	35	save reject
229	35	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	35	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	35	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	35	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	35	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	35	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	35	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	35	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	35	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	35	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	35	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	35	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	35	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	35	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	35	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	35	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	35	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	35	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	35	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	35	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	35	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	35	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	35	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	35	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	35	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	35	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	35	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	35	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	35	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	35	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	35	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	35	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	35	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	35	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To PARSONS, TODD

R R #1
KEREMEOS, BC
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Project YUKON 96
Comments

Page Number 1-A
Total Pages 1
Certificate Date 27-OCT-96
Invoice No. I9636811
P O Number
Account GJO

CERTIFICATE OF ANALYSIS A9636811

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TP96S001	201	202	< 5	< 0.2	1.43	26	330	0.5	< 2	0.80	< 0.5	12	41	31	3.17	< 10	< 1	0.19	20	0.83	745
TP96S002	201	202	< 5	< 0.2	1.44	26	350	0.5	< 2	0.68	< 0.5	12	41	28	3.17	< 10	< 1	0.19	20	0.81	645
TP96S003	201	202	< 5	< 0.2	1.81	52	320	< 0.5	< 2	0.65	< 0.5	11	24	15	3.65	< 10	< 1	0.20	10	0.79	820
TP96S004	201	202	< 5	< 0.2	1.90	38	330	< 0.5	< 2	0.72	< 0.5	10	25	14	3.33	< 10	< 1	0.18	20	0.72	870
TP96S005	201	202	< 5	< 0.2	1.78	4	180	< 0.5	< 2	0.97	< 0.5	11	27	23	2.69	< 10	< 1	0.11	10	0.87	540
TP96S006	201	202	< 5	< 0.2	1.63	4	140	< 0.5	< 2	0.73	< 0.5	10	24	14	2.48	< 10	< 1	0.10	10	0.81	415
TP96S007	201	202	< 5	< 0.2	1.68	2	200	< 0.5	< 2	0.83	< 0.5	12	24	24	2.77	< 10	< 1	0.19	10	0.88	540
TP96S008	201	202	< 5	< 0.2	1.75	< 2	270	< 0.5	2	0.91	< 0.5	14	27	28	3.01	< 10	< 1	0.22	10	0.96	625
TP96S009	201	202	< 5	< 0.2	1.53	4	300	0.5	< 2	0.93	< 0.5	14	42	24	2.98	< 10	< 1	0.23	20	0.97	530
TP96S010	201	202	600	< 0.2	1.26	2	350	< 0.5	< 2	0.91	< 0.5	12	36	22	2.66	< 10	< 1	0.19	20	0.82	500
TP96S011	201	202	< 5	< 0.2	1.40	10	140	< 0.5	< 2	0.66	< 0.5	13	34	14	2.68	< 10	< 1	0.15	10	0.74	490
TP96S012	201	202	< 5	< 0.2	1.52	10	140	< 0.5	2	0.63	< 0.5	13	35	14	2.78	< 10	< 1	0.16	10	0.80	535
TP96S013	201	202	< 5	< 0.2	1.70	< 2	250	< 0.5	< 2	0.86	< 0.5	14	35	34	2.90	< 10	< 1	0.18	10	0.94	650
TP96S014	201	202	< 5	< 0.2	1.86	2	260	< 0.5	< 2	1.18	< 0.5	13	36	40	2.98	< 10	< 1	0.20	20	1.03	670
TP96S015	201	202	< 5	< 0.2	1.14	6	100	< 0.5	< 2	0.46	< 0.5	9	26	9	2.20	< 10	< 1	0.15	20	0.58	395
TP96S016	201	202	25	< 0.2	0.92	8	90	< 0.5	< 2	0.41	< 0.5	8	22	7	1.98	< 10	< 1	0.13	20	0.47	370
TP96S017	201	202	< 5	< 0.2	1.15	2	200	< 0.5	< 2	0.70	< 0.5	9	39	21	2.10	< 10	< 1	0.09	10	0.69	320
TP96S018	201	202	35	< 0.2	1.21	2	220	< 0.5	< 2	0.77	< 0.5	9	43	19	2.33	< 10	< 1	0.09	10	0.69	360
TP96S019	201	202	25	< 0.2	1.49	16	150	< 0.5	< 2	0.68	< 0.5	11	30	14	2.59	< 10	< 1	0.15	30	0.69	560
TP96S020	201	202	< 5	< 0.2	1.47	18	160	< 0.5	< 2	0.72	< 0.5	12	28	15	2.55	< 10	< 1	0.14	30	0.65	635
TP96S021	201	202	< 5	< 0.2	1.71	16	140	< 0.5	< 2	0.79	< 0.5	13	42	15	2.68	< 10	< 1	0.21	30	0.87	550
TP96S022	201	202	< 5	< 0.2	1.50	12	140	< 0.5	< 2	0.70	< 0.5	13	40	13	2.81	< 10	< 1	0.20	30	0.81	495
TP96S023	201	202	< 5	< 0.2	1.36	< 2	160	< 0.5	4	0.63	< 0.5	12	29	22	2.64	< 10	< 1	0.22	20	0.74	400
TP96S024	201	202	< 5	< 0.2	1.27	2	140	< 0.5	< 2	0.50	< 0.5	11	28	16	2.55	< 10	< 1	0.20	10	0.67	330
TP96S025	201	202	< 5	< 0.2	1.69	< 2	250	< 0.5	2	1.16	1.0	16	48	68	3.19	< 10	< 1	0.32	50	0.89	505
TP96S026	201	202	< 5	< 0.2	1.72	6	260	< 0.5	2	1.02	0.5	17	43	54	3.29	< 10	< 1	0.31	40	0.93	575
TP96S027	201	202	< 5	0.8	2.15	62	200	0.5	2	0.70	0.5	10	30	20	2.98	< 10	< 1	0.12	30	0.62	495
TP96S028	201	202	< 5	< 0.2	1.95	58	190	0.5	2	0.64	1.0	10	27	20	2.71	< 10	< 1	0.13	30	0.58	635
TP96S029	201	202	< 5	< 0.2	1.63	20	160	0.5	< 2	0.57	0.5	10	20	12	2.62	< 10	< 1	0.13	30	0.47	635
TP96S030	201	202	< 5	< 0.2	2.11	10	210	< 0.5	< 2	0.84	< 0.5	18	30	28	4.24	< 10	< 1	0.27	10	1.20	780
TP96S031	201	202	< 5	< 0.2	2.15	10	190	< 0.5	< 2	0.84	0.5	15	30	24	3.69	< 10	< 1	0.25	10	1.14	590
TP96S032	201	202	< 5	< 0.2	1.83	2	210	< 0.5	< 2	0.70	< 0.5	11	18	12	3.07	< 10	< 1	0.23	10	0.69	1265
TP96S033	201	202	< 5	< 0.2	1.99	< 2	200	< 0.5	< 2	0.76	< 0.5	12	20	13	3.02	< 10	< 1	0.24	10	0.77	1210
TP96S034	201	202	< 5	< 0.2	1.95	14	240	< 0.5	< 2	0.72	0.5	18	26	94	4.26	< 10	< 1	0.19	10	0.81	940
TP96S035	201	202	< 5	< 0.2	1.48	18	200	< 0.5	2	0.56	0.5	18	20	78	4.00	< 10	< 1	0.16	10	0.68	1080

CERTIFICATION Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave , North Vancouver
British Columbia, Canada V7J 2C1
PHONE 604-984-0221 FAX: 604-984-0218

To PARSONS, TODD **

R.R. #1
KEREMEOS, BC
V0X 1N0

Project YUKON 96
Comments

Certificate Date 27-OCT-96
Invoice No I9636811
P O Number .
Account GJO

CERTIFICATE OF ANALYSIS A9636811

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TP96S001	201	202	1	0.01	32	780	14	< 2	6	49	0.05	< 10	< 10	60	< 10	106
TP96S002	201	202	1	0.01	32	840	12	< 2	5	41	0.06	< 10	< 10	61	< 10	98
TP96S003	201	202	< 1	0.01	9	780	10	2	7	53	0.12	< 10	< 10	102	< 10	108
TP96S004	201	202	< 1	0.01	10	930	10	2	7	56	0.11	< 10	< 10	94	< 10	96
TP96S005	201	202	< 1	0.03	17	650	6	< 2	5	80	0.10	< 10	10	59	< 10	68
TP96S006	201	202	< 1	0.02	14	670	4	< 2	4	57	0.10	< 10	< 10	56	< 10	62
TP96S007	201	202	1	0.02	15	740	2	< 2	5	59	0.09	< 10	< 10	58	< 10	74
TP96S008	201	202	< 1	0.02	16	810	2	< 2	5	68	0.10	< 10	< 10	62	< 10	94
TP96S009	201	202	< 1	< 0.01	31	1030	6	< 2	4	68	0.08	< 10	< 10	46	< 10	120
TP96S010	201	202	< 1	< 0.01	28	1010	4	< 2	3	62	0.07	< 10	< 10	41	< 10	96
TP96S011	201	202	< 1	0.01	22	680	6	4	3	43	0.07	< 10	< 10	45	< 10	80
TP96S012	201	202	< 1	0.01	22	730	6	2	3	45	0.07	< 10	< 10	45	< 10	78
TP96S013	201	202	1	0.02	24	820	2	2	5	64	0.10	< 10	< 10	62	< 10	98
TP96S014	201	202	< 1	0.02	24	800	2	< 2	5	84	0.10	< 10	< 10	61	< 10	114
TP96S015	201	202	< 1	0.01	14	650	4	2	3	38	0.07	< 10	< 10	36	< 10	48
TP96S016	201	202	< 1	0.01	12	730	6	< 2	2	31	0.05	< 10	< 10	32	< 10	44
TP96S017	201	202	< 1	0.01	21	840	8	< 2	3	50	0.07	< 10	< 10	46	< 10	62
TP96S018	201	202	< 1	0.02	20	930	4	< 2	4	53	0.08	< 10	< 10	55	< 10	60
TP96S019	201	202	< 1	0.01	16	780	8	< 2	4	52	0.09	< 10	< 10	49	< 10	62
TP96S020	201	202	1	0.01	14	740	10	< 2	4	55	0.09	< 10	< 10	48	< 10	66
TP96S021	201	202	< 1	0.01	21	840	< 2	< 2	4	75	0.10	< 10	< 10	46	< 10	66
TP96S022	201	202	< 1	0.01	22	750	2	< 2	3	55	0.10	< 10	< 10	43	< 10	66
TP96S023	201	202	< 1	0.01	24	640	2	< 2	3	41	0.07	< 10	< 10	42	< 10	66
TP96S024	201	202	< 1	0.01	21	700	4	< 2	3	32	0.07	< 10	< 10	42	< 10	58
TP96S025	201	202	1	0.01	51	990	6	< 2	5	82	0.09	< 10	< 10	54	< 10	146
TP96S026	201	202	< 1	0.01	34	900	6	< 2	5	74	0.10	< 10	< 10	63	< 10	132
TP96S027	201	202	< 1	0.01	19	910	26	4	6	53	0.10	< 10	< 10	53	< 10	202
TP96S028	201	202	< 1	0.01	16	830	26	4	5	51	0.09	< 10	< 10	52	< 10	210
TP96S029	201	202	1	0.01	10	690	10	< 2	4	43	0.08	< 10	< 10	49	< 10	96
TP96S030	201	202	1	0.07	13	700	4	6	11	39	0.14	< 10	< 10	124	< 10	82
TP96S031	201	202	1	0.05	14	790	8	2	10	41	0.15	< 10	< 10	101	< 10	90
TP96S032	201	202	1	0.03	9	700	< 2	< 2	5	63	0.12	< 10	< 10	70	< 10	62
TP96S033	201	202	< 1	0.03	11	710	< 2	< 2	6	71	0.13	< 10	< 10	73	< 10	62
TP96S034	201	202	3	0.04	12	730	42	< 2	7	44	0.11	< 10	< 10	103	< 10	150
TP96S035	201	202	1	0.03	10	690	44	2	6	33	0.08	< 10	< 10	91	< 10	134

CERTIFICATION Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To PARSONS, TODD

R R #1
KEREMEOS, BC
V0X 1N0

A9636923

Comments:

CERTIFICATE A9636923

(GJO) - PARSONS, TODD

Project: YUKON 96
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
254	16	Sieve less than 63 u
220	16	Transferring charge
222	16	Drying charge (0-3 Kg)
229	16	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	16	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	16	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	16	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	16	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	16	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	16	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	16	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	16	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	16	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	16	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	16	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	16	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	16	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	16	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	16	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	16	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	16	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	16	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	16	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	16	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	16	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	16	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	16	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	16	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	16	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	16	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	16	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	16	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	16	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	16	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	16	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	16	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

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To PARSONS, TODD **

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Project YUKON 96
Comments:

Page Number 1-A
Total Pages 1
Certificate Date 27-OCT-96
Invoice No .19636923
P O Number
Account GJO

CERTIFICATE OF ANALYSIS A9636923

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TP96FS001	254	220	< 5	< 0.2	1.60	20	480	0.5	< 2	0.92	0.5	13	46	31	2.97	< 10	< 1	0.20	30	0.78	725
TP96FS002	254	220	< 5	< 0.2	2.02	42	420	< 0.5	< 2	0.88	0.5	13	29	19	2.77	< 10	< 1	0.18	30	0.71	1110
TP96FS003	254	220	< 5	< 0.2	1.49	4	170	< 0.5	< 2	0.77	< 0.5	9	26	14	2.07	< 10	< 1	0.09	10	0.62	430
TP96FS004	254	220	< 5	< 0.2	1.78	< 2	310	< 0.5	< 2	1.10	< 0.5	15	33	31	2.65	< 10	< 1	0.21	10	0.85	900
TP96FS005	254	220	< 5	< 0.2	1.69	10	410	0.5	< 2	1.40	0.5	15	45	36	2.88	< 10	< 1	0.21	40	0.89	755
TP96FS006	254	220	< 5	< 0.2	1.65	8	210	0.5	2	0.86	< 0.5	12	34	16	2.33	< 10	< 1	0.12	30	0.66	600
TP96FS007	254	220	< 5	< 0.2	1.55	4	290	< 0.5	< 2	0.99	< 0.5	13	34	35	2.43	< 10	< 1	0.15	20	0.77	750
TP96FS008	254	220	25	< 0.2	1.25	6	150	< 0.5	2	0.61	< 0.5	10	30	11	2.14	< 10	< 1	0.13	30	0.54	400
TP96FS009	254	220	30	< 0.2	1.23	4	270	< 0.5	< 2	0.78	< 0.5	9	41	21	2.21	< 10	< 1	0.10	10	0.65	345
TP96FS010	254	220	15	< 0.2	1.41	14	190	< 0.5	4	0.67	< 0.5	11	30	14	2.22	< 10	< 1	0.12	30	0.57	590
TP96FS011	254	220	10	< 0.2	1.46	10	160	< 0.5	< 2	0.76	< 0.5	10	35	13	2.12	< 10	< 1	0.13	30	0.62	450
TP96FS012	254	220	10	< 0.2	1.32	< 2	180	< 0.5	< 2	0.68	< 0.5	10	30	17	2.12	< 10	< 1	0.17	20	0.60	315
TP96FS013	254	220	< 5	< 0.2	1.46	4	230	< 0.5	2	1.01	1.5	12	39	56	2.32	< 10	< 1	0.22	50	0.65	395
TP96FS014	254	220	10	< 0.2	2.03	10	220	< 0.5	< 2	0.90	< 0.5	14	32	24	2.93	< 10	< 1	0.19	20	0.86	685
TP96FS015	254	220	< 5	< 0.2	1.82	< 2	200	< 0.5	2	0.81	< 0.5	11	25	12	2.42	< 10	< 1	0.15	10	0.63	815
TP96FS016	254	220	< 5	< 0.2	1.82	18	240	< 0.5	< 2	0.78	1.0	14	26	88	2.83	< 10	< 1	0.14	20	0.66	815

CERTIFICATION Hart Bichler

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To PARSONS, TODD **

R R #1
KEREMEOS, BC
V0X 1N0

Project . YUKON 96
Comments.

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Invoice No. 19636923
P.O Number .
Account .GJO

CERTIFICATE OF ANALYSIS A9636923

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TP96FS001	254	220	< 1	0.02	33	960	12	< 2	7	55	0.07	< 10	< 10	60	< 10	96
TP96FS002	254	220	< 1	0.02	15	930	12	< 2	9	74	0.11	< 10	10	69	< 10	114
TP96FS003	254	220	< 1	0.03	15	630	2	< 2	5	59	0.11	< 10	10	49	< 10	54
TP96FS004	254	220	< 1	0.02	21	690	6	< 2	6	76	0.10	< 10	< 10	56	< 10	78
TP96FS005	254	220	1	0.01	39	1060	8	< 2	6	116	0.09	< 10	< 10	50	< 10	112
TP96FS006	254	220	1	0.02	22	660	8	6	5	53	0.09	< 10	< 10	50	< 10	64
TP96FS007	254	220	1	0.02	24	790	4	< 2	5	68	0.09	< 10	< 10	53	< 10	80
TP96FS008	254	220	< 1	0.01	16	710	8	< 2	4	45	0.08	< 10	10	43	< 10	46
TP96FS009	254	220	< 1	0.02	22	870	8	< 2	4	51	0.08	< 10	< 10	52	< 10	62
TP96FS010	254	220	< 1	0.01	17	670	10	< 2	4	46	0.09	< 10	< 10	46	< 10	54
TP96FS011	254	220	< 1	0.01	21	740	2	< 2	4	63	0.10	< 10	10	44	< 10	54
TP96FS012	254	220	< 1	0.02	22	670	6	< 2	4	42	0.09	< 10	< 10	43	< 10	52
TP96FS013	254	220	< 1	0.01	43	760	6	< 2	6	69	0.08	< 10	< 10	44	< 10	112
TP96FS014	254	220	1	0.04	18	820	8	< 2	10	44	0.14	< 10	< 10	80	< 10	84
TP96FS015	254	220	1	0.03	12	750	2	< 2	6	66	0.13	< 10	< 10	58	< 10	50
TP96FS016	254	220	< 1	0.03	14	800	26	2	7	50	0.11	< 10	10	63	< 10	118

CERTIFICATION Ian Bucklen

Chemex Labs Ltd.

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To PARSONS, TODD

R.R. #1
KEREMEOS, BC
V0X 1N0

A9636809

Comments:

CERTIFICATE A9636809

(GJO) - PARSONS, TODD

Project YUKON 96
P.O # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 25-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	1	Dry, sieve to -80 mesh
202	1	save reject
229	1	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	1	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	1	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	1	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	1	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	1	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	1	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	1	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	1	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	1	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	1	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	1	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	1	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	1	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	1	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	1	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	1	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	1	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	1	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	1	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	1	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	1	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	1	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	1	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	1	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	1	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	1	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	1	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	1	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	1	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	1	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	1	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	1	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	1	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

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To PARSONS, TODD **

R R #1
KEREMEOS, BC
V0X 1N0

Project YUKON 96
Comments

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Total Pages 1
Certificate Date 25-OCT-96
Invoice No. I9636809
P O Number .
Account .GJO

CERTIFICATE OF ANALYSIS A9636809

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TP96 P001	201	202	< 5	0.2	1.56	16	170	< 0.5	< 2	0.10	0.5	6	36	28	4.41	< 10	< 1	0.06	< 10	0.28	315

CERTIFICATION Stewart Buchler

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Account GJO

CERTIFICATE OF ANALYSIS A9636809

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TP96 P001	201	202	4	< 0.01	23	540	12	< 2	3	20	0.07	< 10	< 10	132	< 10	114

CERTIFICATION Ian Bichler

Chemex Labs Ltd.

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A9636804

Comments

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Project: YUKON 96
P.O # ·

Samples submitted to our lab in Vancouver, BC.
This report was printed on 25-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
226	4	0-3 Kg crush and split
3202	4	Rock - save entire reject
229	4	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	4	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	4	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	4	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	4	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	4	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	4	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	4	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	4	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	4	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	4	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	4	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	4	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	4	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	4	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	4	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	4	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	4	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	4	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	4	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	4	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	4	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	4	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	4	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	4	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	4	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	4	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	4	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	4	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	4	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	4	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	4	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	4	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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To PARSONS, TODD **

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KEREMEOS, BC
V0X 1N0

Project : YUKON 96
Comments.

Page Number :1-A
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P.O. Number :
Account .GJO

CERTIFICATE OF ANALYSIS A9636804

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TP96R001	205	226	30	0.4	1.73	6	1060	16.0	2	0.76	< 0.5	< 1	58	13	0.84	< 10	1	0.41	< 10	0.33	85
TP96R002	205	226	< 5	0.6	0.41	18	120	0.5	< 2	1.26	< 0.5	6	74	45	2.71	< 10	< 1	0.22	< 10	0.19	185
TP96R003	205	226	10	0.2	0.12	284	40	< 0.5	< 2	0.02	< 0.5	3	208	2	0.60	< 10	< 1	0.04	< 10	0.01	470
TP96R004	205	226	< 5	< 0.2	0.02	2	10	< 0.5	< 2	>15.00	1.0	< 1	18	1	0.28	< 10	2	0.01	< 10	5.65	130

CERTIFICATION: Jan Buchler

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To PARSONS, TODD **

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KEREMEOS, BC
V0X 1N0

Project : YUKON 96
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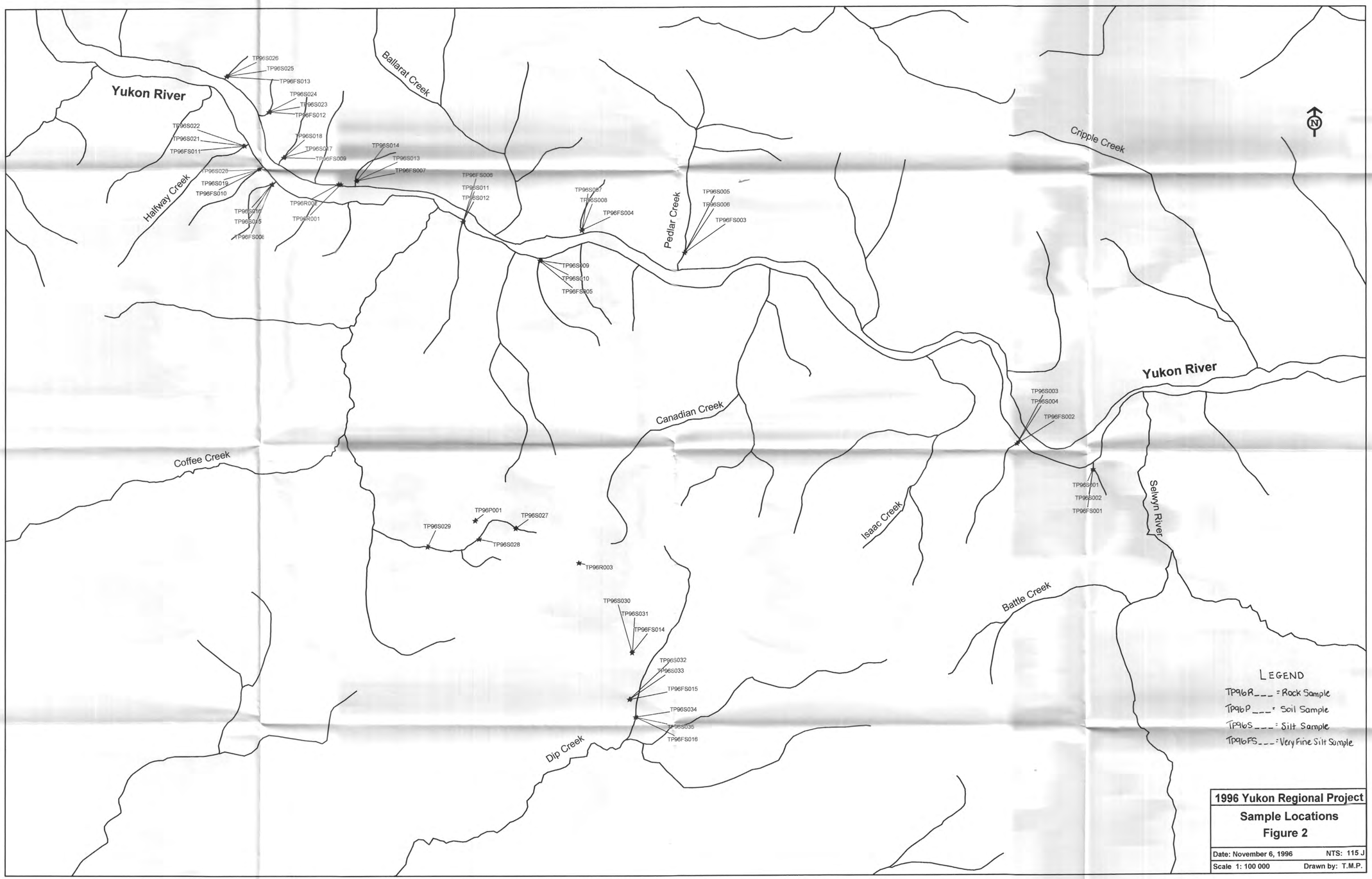
P O Number
Account .GJO

CERTIFICATE OF ANALYSIS A9636804

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TP96R001	205	226	4	0.01	7	550	26	< 2	1	97	< 0.01	< 10	< 10	32	< 10	80
TP96R002	205	226	5	< 0.01	27	530	8	< 2	4	127	< 0.01	< 10	< 10	20	< 10	68
TP96R003	205	226	< 1	< 0.01	12	40	10	< 2	< 1	3	< 0.01	< 10	< 10	3	< 10	54
TP96R004	205	226	< 1	0.03	4	130	< 2	< 2	< 1	667	< 0.01	< 10	< 10	3	< 10	10

CERTIFICATION·


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Yukon River
Canadian Creek
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
TP96S026
TP96S025
TP96FS013
TP96S024
TP96S023
TP96FS012
TP96S022
TP96S021
TP96FS011
TP96S018
TP96S017
TP96FS009
TP96S014
TP96S013
TP96FS007
TP96S020
TP96S019
TP96FS010
TP96S016
TP96S015
TP96FS008
TP96R002
TP96R001
TP96FS006
TP96S011
TP96S012
TP96S007
TP96S008
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TP96S005
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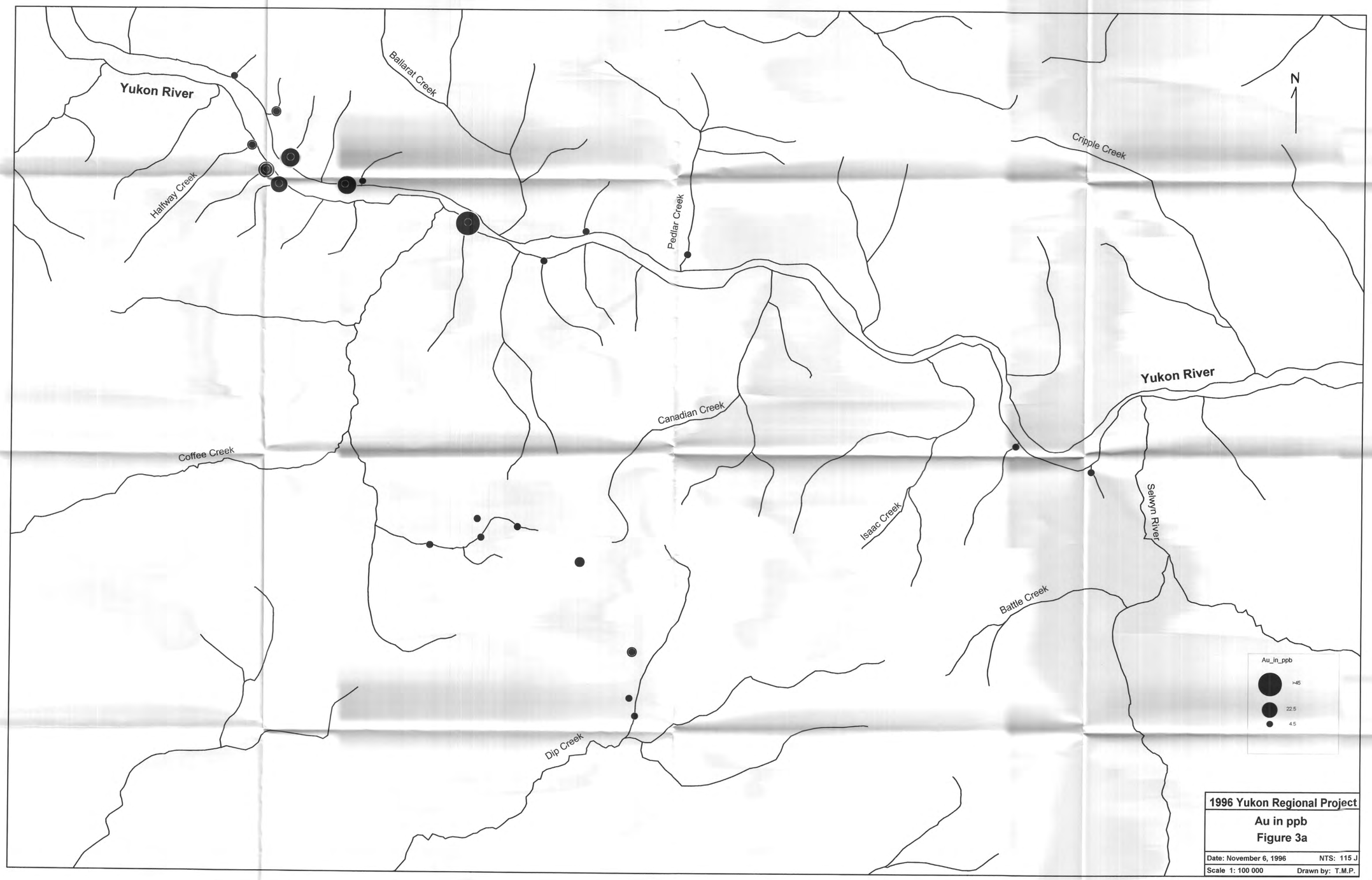
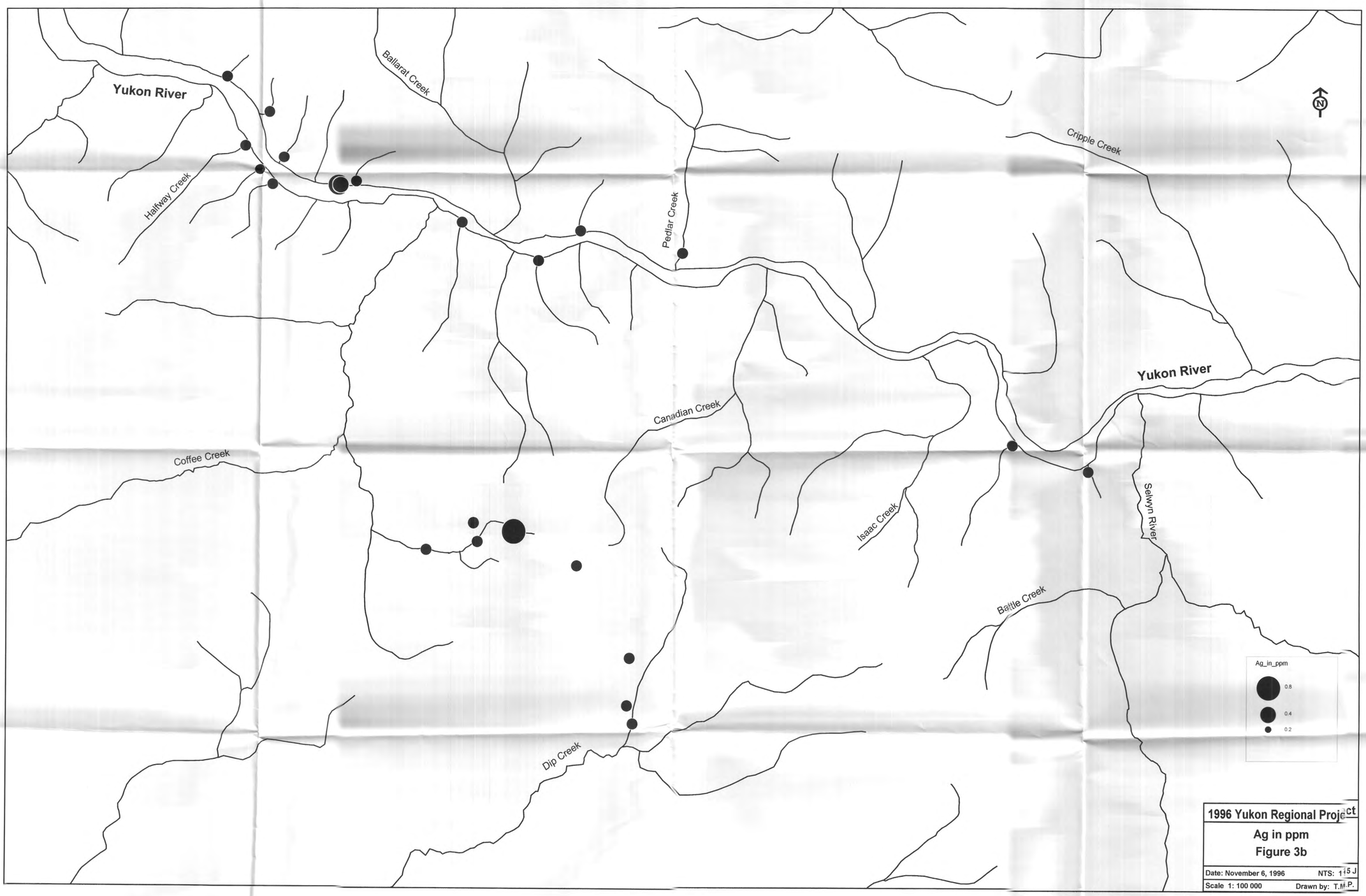
TP96S003
TP96S004
TP96FS002
TP96S001
TP96S002
TP96FS001
TP96P001
TP96S027
TP96S029
TP96S028
TP96R003
TP96S030
TP96S031
TP96FS014
TP96S032
TP96S033
TP96FS015
TP96S034
TP96S035
TP96FS016
N
LEGEND
TP96R___ = Rock Sample
TP96P___ = Soil Sample
TP96S___ = Silt Sample
TP96FS___ = Very Fine Silt Sample
1996 Yukon Regional Project
Sample Locations
Figure 2
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
N
Yukon River
Canadian Creek
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
Au_in_ppb
>45
22.5
4.5
1996 Yukon Regional Project
Au in ppb
Figure 3a
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Yukon River
Canadian Creek
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
Ag_in_ppm
0.8
0.4
0.2
1996 Yukon Regional Project
Ag in ppm
Figure 3b
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.

Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
N
Canadian Creek
Coffee Creek
Yukon River
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
As_in_ppm_
>75
37.5
7.5

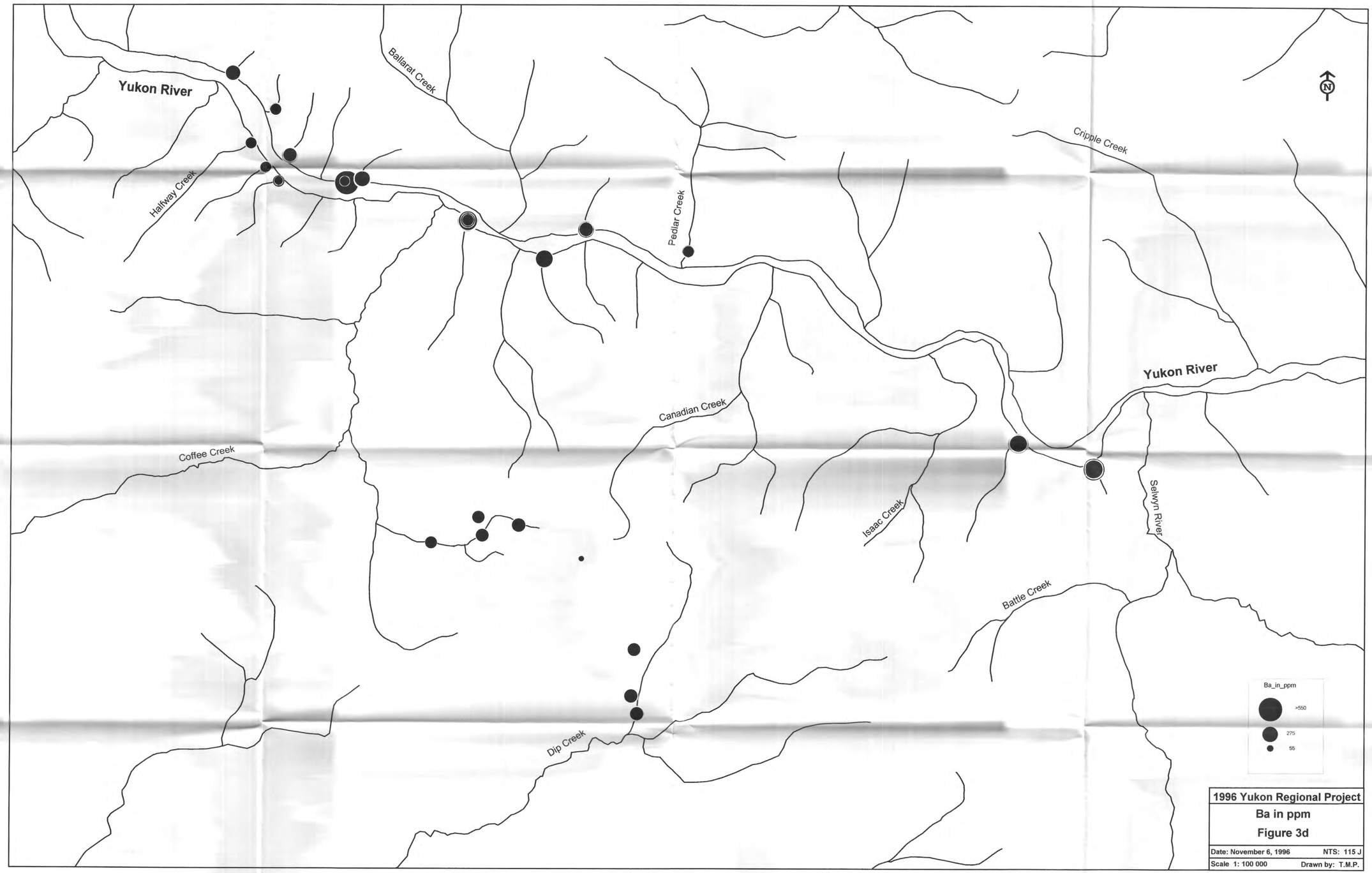
1996 Yukon Regional Project

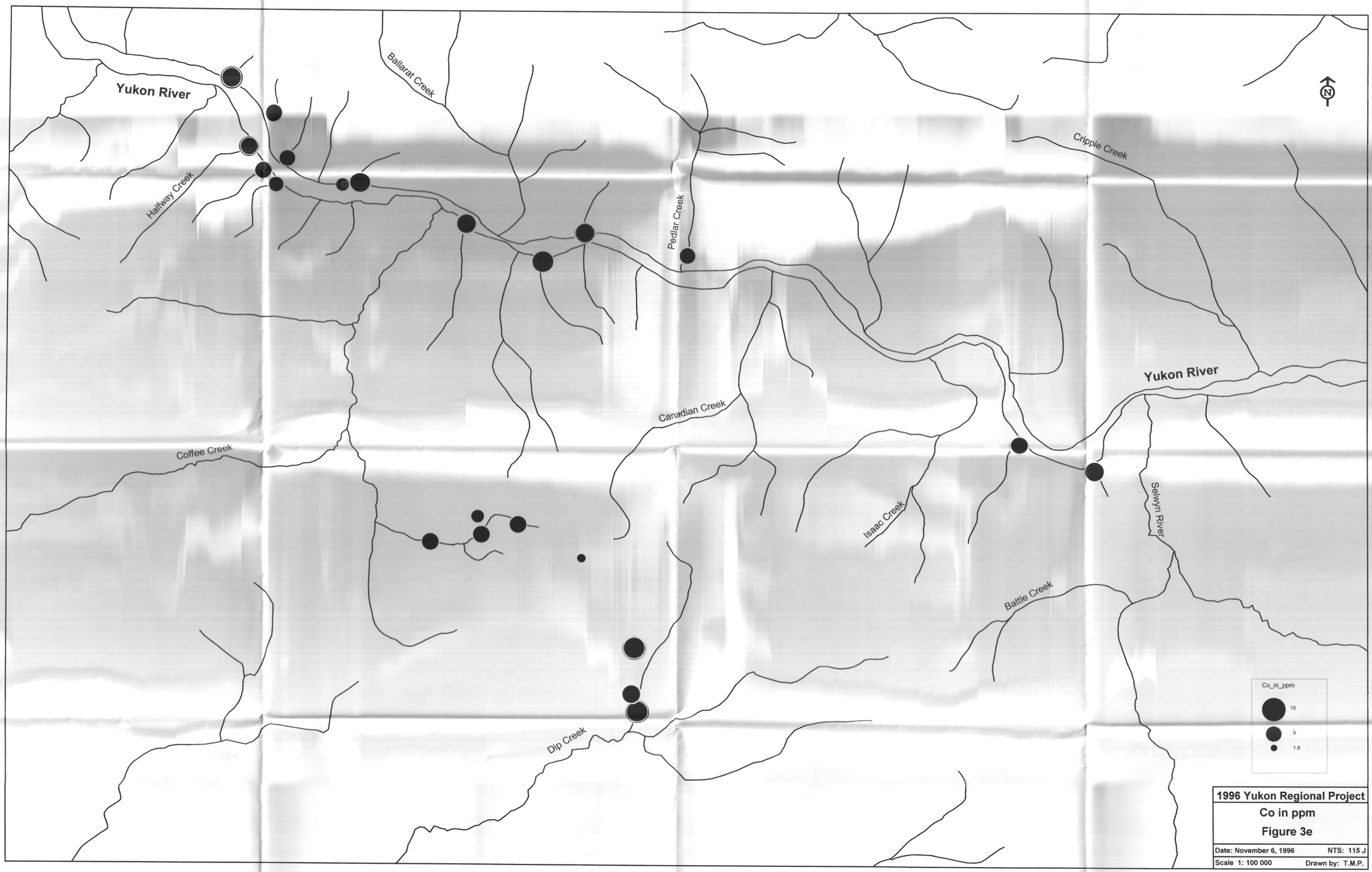
As in ppm

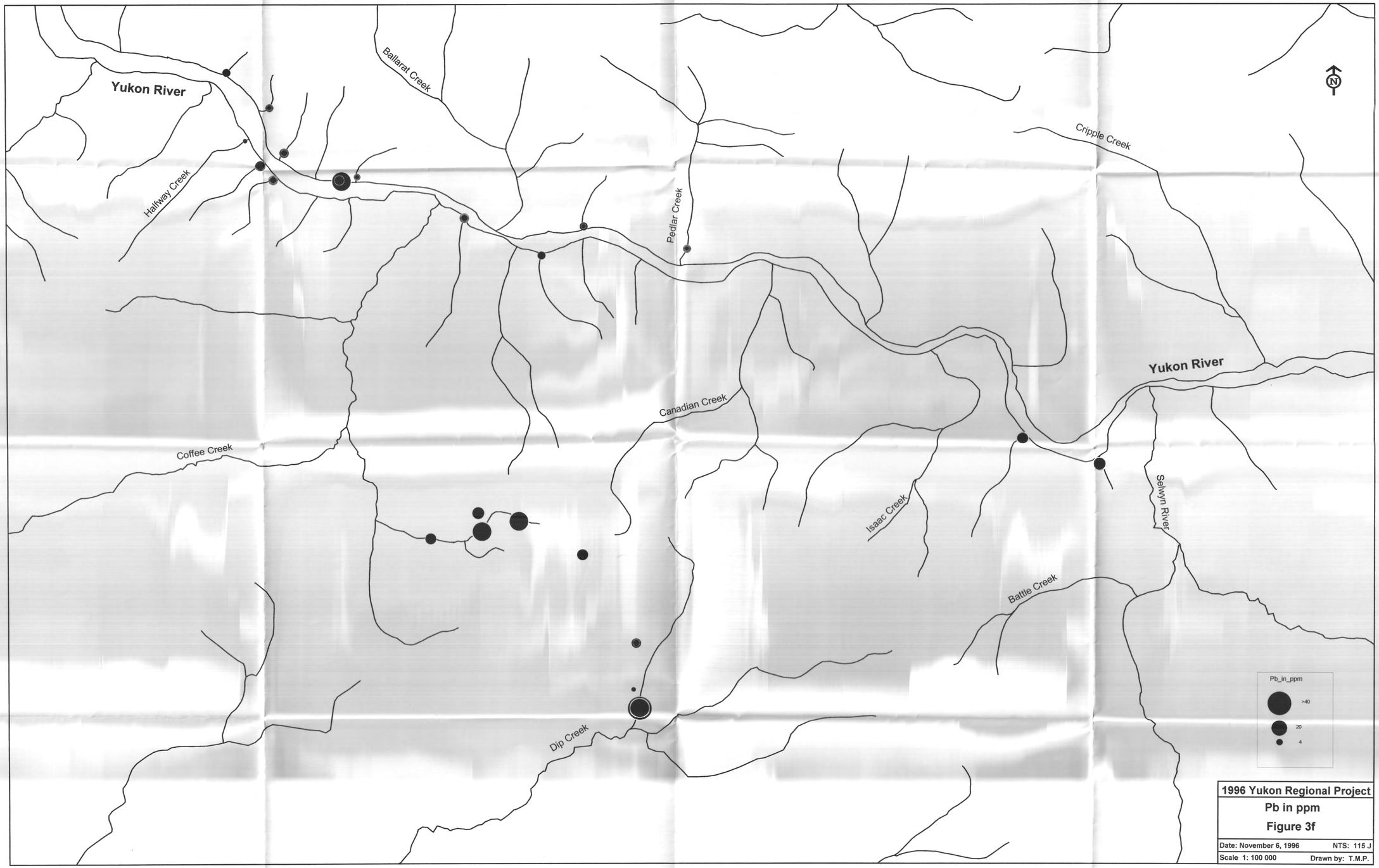
Figure 3c

Date: November 6, 1996 NTS: 115 J

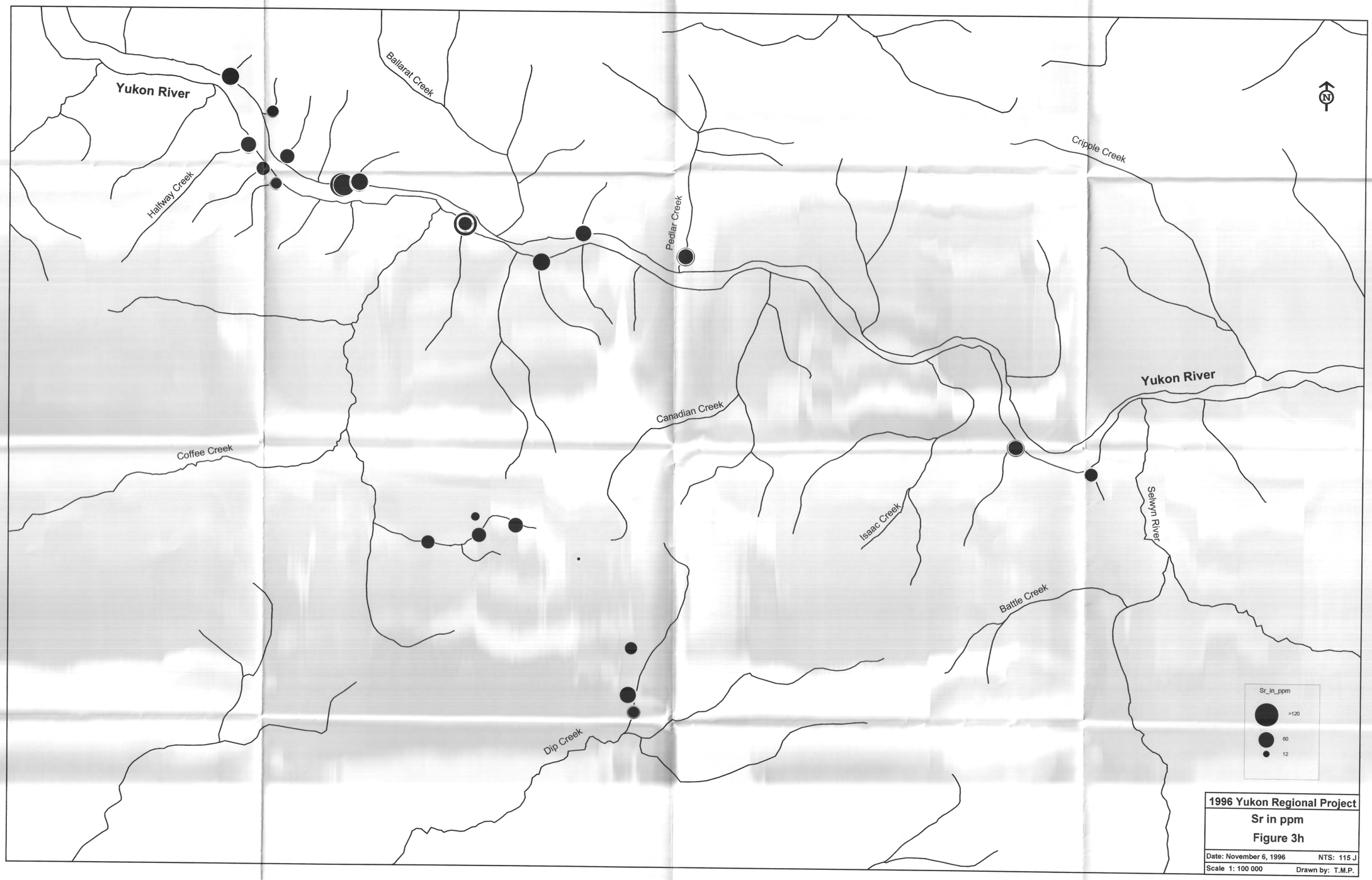
Scale 1: 100 000 Drawn by: T.M.P.

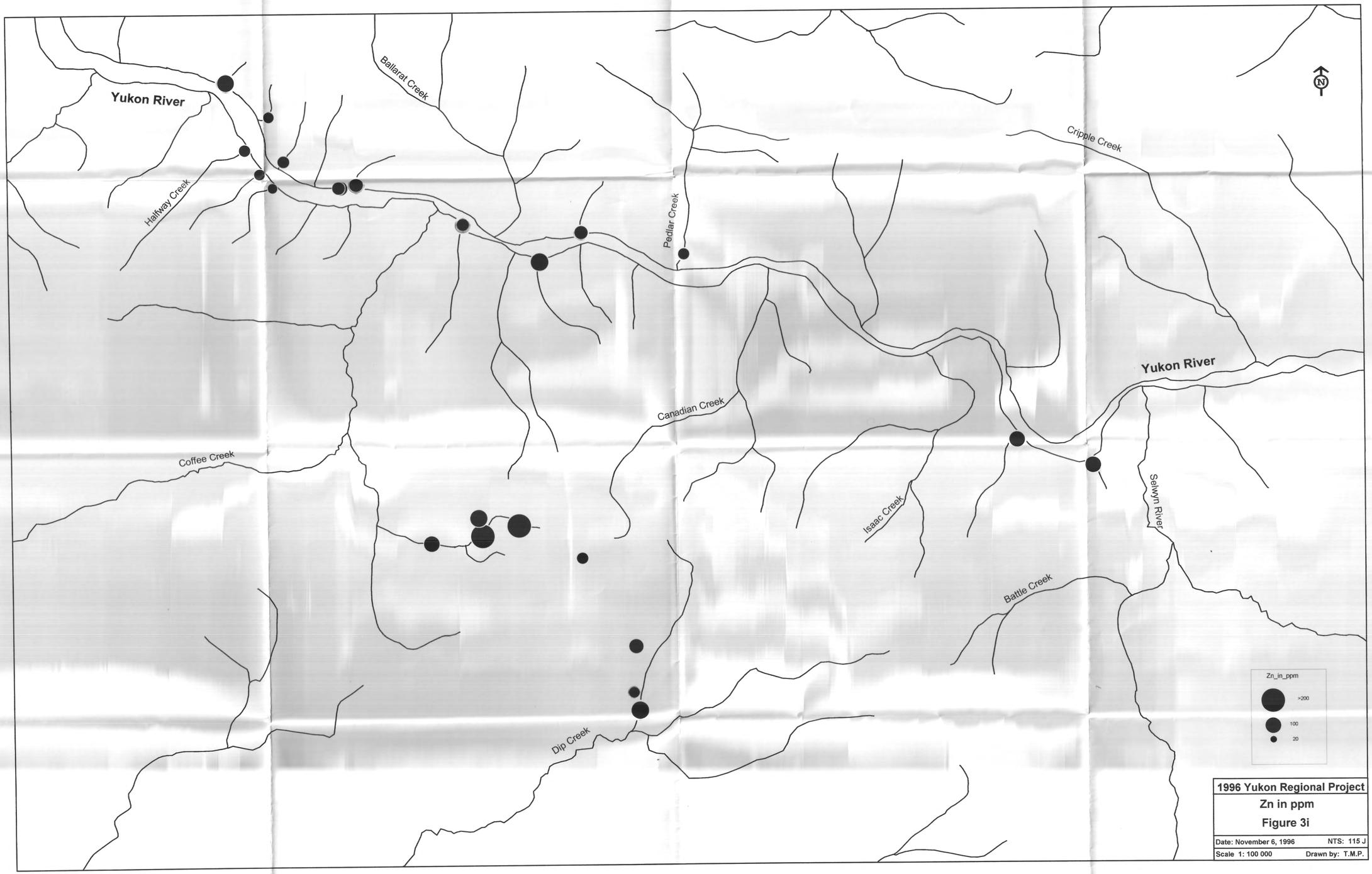

Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Canadian Creek
Yukon River
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
Ba_in_ppm
>550
275
55
1996 Yukon Regional Project
Ba in ppm
Figure 3d
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Yukon River
Canadian Creek
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
Co_in_ppm
18
9
1.8
1996 Yukon Regional Project
Co in ppm
Figure 3e
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Yukon River
Canadian Creek
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
Pb_in_ppm
>40
20
4
1996 Yukon Regional Project
Pb in ppm
Figure 3f
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Canadian Creek
Coffee Creek
Isaac Creek
Yukon River
Selwyn River
Battle Creek
Dip Creek
Cu_in_ppm
>90
45
9
1996 Yukon Regional Project
Cu in ppm
Figure 3g
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Yukon River
Canadian Creek
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
Sr_in_ppm
>120
60
12
1996 Yukon Regional Project
Sr in ppm
Figure 3h
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.


Yukon River
Ballarat Creek
Halfway Creek
Pedlar Creek
Cripple Creek
Yukon River
Canadian Creek
Coffee Creek
Isaac Creek
Selwyn River
Battle Creek
Dip Creek
Zn_in_ppm
>200
100
20
1996 Yukon Regional Project
Zn in ppm
Figure 3i
Date: November 6, 1996
NTS: 115 J
Scale 1: 100 000
Drawn by: T.M.P.

Aug.13 Mapping Traverse

Aug.14 Mapping Traverse

Aug.10 Mapping Traverse

Aug.11 Mapping Traverse

Aug2 Sample and Panning Traverse

Aug.1. Sample and Panning Traverse

Aug.8 Mapping Traverse

Aug.9 mapping Traverse

Coffee Creek

Aug.3 Sample and Panning Traverse

Aug.14 Panning Traverse

Aug.12 mapping Traverse

Canadian Creek

Aug.15 Prospecting Traverse
No mineralization found.

Casino Creek

Aug.16 Prospecting Traverse
No colors found with panning over entire traverse.
No mineralized outcrops found.
Good water flow and creek width for large operation.

Limit of claims in good standing
Cone1 (P41946) at bottom to
Case58 (P41605) at top of creek.

Aug.19 Prospecting Traverse
No mineralization found
Allcoarse diorite with sporatic argillic alteration.

Aug.17 Prospecting Traverse
No colors found with panning over entire traverse.
No mineralized outcrops found.
All stream gravel is rotted and crumbly diorite.

Dip Creek

To Battle Creek

Aug.18 Prospecting Traverse
No colors found with panning over entire traverse.
No mineralized outcrops found.
Good water flow and creek width for large operation.

Road unpassable by foot or ATV most years workable - too much cool weather this year

ATV Portage not recommended

Geophysical Survey Line (Seismic ?) and Road

Legend

- Creek
- Road
- Traverse
- Outcrop
- Subcrop
- Assumed Contact
- Trench
- DDH

Geology

- Cb Colluvium Blanket
- Af Alluvial Fan
- Ap Alluvial Plain
- ACp Mixed Alluvium and Colluvium in a plain (usually Colluvium > Alluvium).

0 1 Kilometers

1996 Yukon Regional Project

Surfical Geology And Prospecting

Figure 4

Date: November 3, 1996 NTS: 115 J

Scale: 1: 25 000 Drawn by: T.M.P.

"Rite in the Rain®"

ALL-WEATHER

LEVEL

Notebook No. 311

96-041

Todd Parsons
Field Notes
YT96 Project
Canadian Creek - South
Klondike Placer Areas.

This is not our original diary - has been rewritten several times as heavy rain & lots of mud & poor choices in pens has made even this water proof paper near unreadable.

July 11, 1996
- not raining - but cloudy
- lots of construction on road.
- arrived at Watson Lake purchased 83.07 fuel, gain interest
- arrived late in Whitehouse
- ate at Tim Hortons
- slept in truck.

July 12, 1996 - purchased map reports at government office 34.54
- purchase claim maps. 9.63
- check out assessment reports for photocopying.
- had late lunch at eat to Listers for

July 13, 1996
- filled up truck, boat & gerry cans with fuel,
- then mixed boat fuel

- copied assessment reports & returned them to gov't office
- headed out on road
- supper at Braeburn Lodge
- drove to McCabe Creek & turned into Jacobs Basse (large equipment base) with Landing & unloaded boat.
- I then drove boat to McCabe Creek Enterprises & Tammy drove truck & I picked her up there.
- boated out several miles past Foot Selkirk, water is higher than last year & yet still lower than usual.
- set up tent -
- boat doesn't seem to be travelling well - must adjust jet drive in morning

July 14, 1996 -

- some cloud but warm - no rain
- filed & shimmed impeller on jet drive - much better.
- arrive at first sample location for TP96S001, 002, & TP96T-S004

TP96S001

- thought was Masrat Creek but not is just upriver from Masrat.

GPS 6462070 N
6735897 E 4 satellites

width 3m
dept 5cm
flow fast
Bank - colluvium
Sample Comp. - sand
Gravel - 10% gneiss, 10% granite, 60% very coarse to fine - large quartz eyes few mafics

TP96002 - S.O.S. (same old shit)
- upstream 25 meters

TP96ES001 - take above two TP96S001 & 002, but much larger sample for very fine silt analysis

- spent rest of day panning in area silts were taken from
- no colors found.

Note: stream valley very narrow at Yukon river only a few meters wide between mossy slopes at bottom but widens as we go up the creek.

July 5, 1996 -
- cloudy some sprinkles of rain
- boated up to Moscot Creek.
- bigger valley than last one
- hiked ~1 1/2 km up valley
- collected samples TP96S003, 004 & TP96ES002.

GPS 6963554 N
6316477 E

TP965003 3 satellites

bedrock? - can find any
width - .9 meters
depth - 10 cm
flow - slow
bank - alluvium
sample - very coarse sand,
gravel - 90% diorite

TP965004 - SOS. - 25 m upstream

TP965002 - large sample taken between TP96003 & TP96004 for fine very fine silt analysis.

Spent rest of day panning in immediate area of silt sample - no colors found.

Note: valley gets steep ≈500 m upstream - if sample comes

back with any values
then should soup to
steep gradient & sample
again

- camped here - not sh.

July 16, 1996

- boat up to Pedley Creek
- cloudy with drizzle

- hiked ~800 meters up creek
- bedrock outcroping along creek
is a green miraceous schist
(the foliation is not very
strong but just enough
possibly for schist).

collect TP96S005 & 006, ~~7~~
TP96F003

GPS ~~6 9 7 5 2 9 7~~ N 6 9740 34N
~~6 0 4 5 2 3 E~~ 6 73234E
4 satellites.

TP965005

width 7 m
depth 35 cm
flow moderate
bedrock - seedbed
bank - bedrock & alluvium
sample - coarse silt off top of sandbars
gravel - 10% gneiss, 90% schist (chlorite) like the bedrock

TP965006 - same as 005 but 25 meters upstream

TP96FS003 - taken between TP965005 & 006 but large sample for very fine silt analysis

- spent rest of day panning in immediate area - obtain bedrock fractures - no colors (possible 1 tiny ?).

Note - stream bottom is very flat & wide & might be suitable for floated dredge mining - Excellent waterflow

- many man made trails & old camps present near river - no workings seen.

- great night here & caught limit for supper.

July 17, 1996

- up early
- cool, cloudy - no rain yet.
- try to do 2 creeks today

- first creek just up river from Ballarat creek where Joe Feller Mines.
- creek is very steep walled, high sides, & small valley.

-on hiked about 50m upstream
no delta on river front - goes
immediately into deep.

GPS Location
6,975,297 N
607,524 E
4 satellites

TP96 5004
width = .6m
dept = .07m
flow = slow
bedrock unknown
bank = colluvium - some alluvium
sample = very coarse gravel from
sand bars - no fines to
be found

gravel comp: a few % 90% gneiss

TP96 5008 - 5.05 as 007 bot.
25m upstream

TP96FS004- collected between TP965007 & TP965008 but large sample for very fine silt analysis.

Panned in immediate area for 1 1/2 hrs - no colours obtained poor value/effort mining (too small/tight)

Boated up to creek just up river from Excelsior Creek.

- setup camp then did samples
- sample ~60 m. upstream.
  TP965-009
  GPS 6973695 N
  605192 E 4 satellites.
  width 4 m
  depth .07 m
  flow moderate
  bedrock - undrawn
  bank - colluvium - small fraction Alluvium.
  Sample - very coarse sand from sandbars - no fines present.

gravel composition ~70% gneiss

TP965-010 - 5.05 but taken
25m. upstream.

TP96FS005 - 5.05 but collected
more sample for very fine silt
analysis collected between
TP965009 & 010.

- spent rest of July evening
panning here - no colors
grained hand then hole
time.

July 15, 1996 -

- left early in morning, try to do
2 creeks again today
- not raining, hopefully
everything dries out
- boated past Ballarat Creek

- saw picker truck + old dozer but no one at ~~river~~ riverfront.

- stopped at creek just upriver from Coffee Creek.

TP968 011-

GPS 6975774 N
600934 E 4 satellites

- hiked up 200 m. (probably should have hiked further but wouldn't have finished in 1 day as large delta.
width = 1m
dept = .15 m
flow - very slow
bedrock = unknown - probably very clean.
bank = alluvium + moss
sample = sand - no silt to find
sample composition = all very rounded boulders. 70% diorite, 20% gaciss.

- spent some time panning [till ~1:30 PM] in immediate area - garnets present in every pan - no colors found.

TP96SO12 - S.O.S but taken 25 m. upstream

TP96FS006 - collected between TP96SO11 & 012 but large sample for fine silt analysis.

- boated to small valley just upstream from sparkling creek.

TP96FS013 -
GPS 6978058 N
595040 E Usa to Hides

150 m upstream from river

width = .7m
dept = .04m
flow = slow
bedrock = unknown
bank = alluvium
sample = fine silt on top of sand bars.
gravel comp. - 85% ~~m~~ sedimentary & phyllite.

TP96S014 - 5.05 Z 5 m upstream

TP96FS007 - collected between TP96S013 & 014 of large sample for soil fine silt analysis.

~~Ste~~ Paused about 1/4 mile of sample area - no colors found

- started in boat to camp near tomorrows sample location
- large gossans on bluffs on North side of river -
- stopped to sample.

GPS Location
6 977 870 N
594,180 E 3 satellites

TP96R001
- area is altered fault zone in highly deformed sediments
- approximately 75° south east-west trending zone (extremely difficult as highly deformed entire area). Bedding of both side of fault zone varies from vertical to flat & dipping all directions. Host rock is micaceous sediments that are often highly graphitic & silicified.

- sample is a chip sample across main 3m of fault zone.
- the sample is very limonitic & graphitic with small quartz stringers & some carbonate alteration.

TP96R007 - S.OS. but
30m upriver
- similar if no tsame
for Hzone. 30?/65N

- sample 3 meters wide
with 3 mot light green
clay & 15 mot purple clay
rest of sample like TP96R007.

Did another GPS - 544060 E 6477890 N

July 19 1996.
- nice clear day (morning at least)
- at sparkling creek was a
Yellow hobem, white top
boat with outboard -
Mona & Maynard? - no equipment
or people at riverbank.

- went to creek downriver
+ across from Sparkling Creek.

GPS at sample site (005)
6477,888 N
544,384 E 45 satellites

TP965-015 - small creek valley
- sampled - 90m up creek

width 1.5m depth 12cm
flow moderate
bedrock = none visible
bank = alluvium
sample = silt
gravel composition = 15% dacite
3% granite, 85% gneiss

TP965016 - 50.5 but 25m upstream

TP96550008 - 50.5 but larger sample for very fine silt analysis
- collected between TP965015+016

- spent rest of day panning here in sample area, no colors found & no garnet.
- stayed nice rest of day - clouds rolled in in evening.

July 20, 1996

- cloudy morning
- boated up to Tookoody Creek
- large portion of creek is on delta, probably won't get above complete delta
- hiked ≈ 400m up for first sample very thick brush - due to fire in recent years - creek very very small but gets larger as head up.

TP96 5017
59 1.009E
6 9 79449 N
width 1 m
depth 0.04m
flow moderate
bank alluvium
bedrock - unknown - probably deep
gravels ~~sample~~ composition
sample silt from between high & low water marks.

3 satellites

TP965015 - 505 but 25m upstream
TP965FS009 - taken between TP965017/018
but large sample for
very fine silt.

panned in area of sample for
rest of day - no gold or cassiterite found
- high creek valley - flat top
especially doesn't cut down deep.

July 24, 1996
- boated to creek
just upriver from
Halfway creek
- cloudy, some blue spots
- sample 100m upstream from mouth
Sample TP965019
GPS 6978740N
584647E 4 satellites
width 1.5m
depth 0.12m
flow rate = moderate
bedrock = unknown
bank alluvium
good sample comp. 15% clay/silt, 35% gravels

Sample = Sand from sand bars - nos. 14

TP96S020-5.05 but 25m
up ~~river~~ creek

TP96FS010 - taken between
TP96S019 & 020 but loose sample
for very fine silts

Panned for rest of day but
did not get any colors - more water
flow than I thought this
small draw would have

July 22, 1996

- raining very hard & cold.
- went upstream to halfway creek
- much deeper & wider & flatter
creek than past few.

GPS 6980 102 N
5 88,525 E 4 satellites

TP96S021
width 2m, depth .16m

flow=moderate
bedrock= not visible
banks= alluvium & peat
sample- sandy w/ very few fines
collected between high & low
water marks.
gravel comp. 15% diorite, 3% qtz, 65%
gneiss.

Note lots of mica in sand
& abundant garnets
found in pools.

TP96502Z — SOS but 25 meters
upstream

TP96FSOII - S.OS. but collected
between TP96502 & OZZ
for very fine silt.

Panned here till supper time - no
colours but lots of garnets
& creek is mostly sand

-drove back to Bonanza Creek & set up Camp

July 23 - drove ATV up to Casino & down to Casino Creek. Rained all the way over & submerged ATV in Bonanza Creek on way out & will leave it till later.
Could not get out to Bonanza Creek on Bottom of Casino still has lots of snow & is extremely swampy where there is no snow. - usually dry here by now.
- Panned at bottom of Casino on here ATV went no further.
- will return here & pan more later but no colours found, many old cross cross roads in valley bottom
- on way out visited Bonanza Pacific Mining on Canadian Creek.
- started out to town at night-

- Vok now treacherous tributaries of Casiao must sample & visit later.
- also reading nearly 4x4 drivable all the way to Casino - only two spots only ATV could make.

- Britannia Pacific (Allen) had 10 N & 2 large hoes & about 1km of ground stripped & were waiting for plant to come in (stripping while waiting)

July 24 - not rain, clear-few clouds - drove into Whitehorse early run mornings. Getting changes for grant approved, some of which have already been carried out - get parts on order & repairs done

July 30

- got last drum of fuel purchased & transferred to jerry cans
- then headed out to field (stopped to eat at Braeburn lodge)
- travelled ≈ 4 hrs on river at night.
- saw grizzly mom & cub on north side of river.

July 31, 1996

- got up early to drive to last 2 creeks to sample off Yukon River (last 2 over close together)
- stopped & filed & shimmed jet impeller at Selwyn River
- was bluesky but as approach sample sight, it's starting to cloud over.

TP96 5023
GPS 6981957 N
590199 E
4 satellites

width = .5m, dept = 0.04m
flow = moderate
sample = silt
bank = alluvium
gravel composition 10% quartz
& 80% phyllite
- panned about 1yrd at sample site area

Note - abundand garnets found panning
- also sample collect
up creek 500 m from river
- sheet riggins & deft vain
jacket at boat & gear boxes
open - must race back.

TP96 5024 - S.O.S. as 023 but
25 m upstream
TP96FS012 - taken between 023 & 024
for very fine silt sample.

- boat up to do last creek on Yukon River.

TP965025
GPS 6 983919 N
587802 E 4 satellites
- collected 75m from mouth of creek.
width = .4m
depth 3cm
flow = high
bedrock = silicified phyllite
bank = alluvium
sample = sand - no silt to be found.
gravel = 55% shist, 30% phyllite
10% quartz

TP965026 - taken 25m upstream
- SOS
TP96FS013 - taken between 5025 & 026
& but large sample for very
fine silt.
- note: no water flowing directly
into creek here - to get over must
climb up 30m & see creek goes into
ground.

- near river creek has 20m vertical bands of alluvium almost 90°
  - there is some stratification & these cliffs are on both side & extend out into river valley
  - are these creek or river alluvium? - can't tell.
  - valley is very narrow as far as can be seen.
- the schist in the creek is different as in most creeks it was broken down & was bedrock.

- panned near 1 yard in creek & about ½ yard of large boulder sampling at different heights in bank - no colors found - even panned on subcrop & no colors.

- boated back to Britannia Creek to camp (very late).

August 6/96

- setting out to Pan on a tributary of Coffee Creek that comes off Patton Hill.
- weather cool & drizzle
- clouds sitting over top of Patton Hills

- Panning entire way down creek at spacing never more than 50 meters.
- first half a kilometer ground is frozen under flowing water & very hard to Pan.

- took silt sample almost 1 km from top of draw

TP960027

GPS 6958974 N
603854 E 4 satellites
width 1.0m depth 0.07m
flow = moderate Bank = colluvium

Bedrock = diorite
sample - frozen silt on
creek bottom

Gravel comp = 80% diorite
20% gneiss

- continued panning down creek
until complete ± 2 km total.
No colors obtained

- small tower or antennea on
top of ridge to North above
silt sample - can't tell what
it is.

August 2, 1996

- cool morning, little drizzle - few clouds
- clouds back over Patton hill all
black & swirling as usual.

- continued panning on Coffee Creek tributary

- in first kilometer of panning, more water supply, more gravel & it is not frozen at this site colours.
- took silt after 1st kilometer

TP960028

GPS 6958355N
601,822E 4 satellites

width = 1 meter, depth = 1.2 meters
flow = moderate bank = colluvium
sample composition = coarse sand
bedrock - medium grain diorite
gravel composition 80% diorite - very angular
20% gneiss
- gravel & silt frozen at sample location although was thawed ~20 cm above.
- the freezing seems to be just top few inches of silt & gravel

- continued panning until completed 2 km for the day - at intervals never over 50 meters - no colors found, no old working - nothing

August 3, 1996

- clear sky - clouds to North look to be coming on horizon, clouds back over Patton Hills as usual.

- will continue panning but will probably not go further on this creek tommorow

- ~~pans~~

- creek bed is wider now & looks more suitable to mining than above & looks better yet below, flatter, more width more water

- panned almost 2 kilometers and no colors, interval always less than 50 meters
- excellent water flow.
- much less colluvium in creek bottom.

- at 2 km down took silt sample

TP965029

GPS 6957928 N
598976 E 3 satellites

width 2.2 m, depth of 2 m
flow = fast bank = alluvium
sample = sand - very hard to find silt.
Gravel comp = 70% diorite, 30% gneiss
Bedrock = diorite

- looks much better here, less colluvium - expensive to build road to here though.
- panned only a few more meters & called it a day - no colours just over 2 km panned.

August 4, 1996 - Panned my way back up a tributary of the main tributary we were working on - starting where we finished August 2.

- weather rained all day but nice to finish here for a few days
- this tributary looks full of colluvium & not suitable for mining
- did not get sample
- no colors obtained
- lots of pickets from older hardrock exploration around & evidence of old cat tracks. - not even ATV passable now.

- now heading on to Casino Creek drainage to do a few days.

Aug 5, 1996

- camped last night on a road crossing on a tributary of Kosina Creek.

- will do silt here on topside of road although might be some road contamination that has slid down side hill where road goes.

TP 965030
GPS 6952097 N
610302 E
4 satellites

width = 2 meters, depth 0.09 m.
flow = moderate bank alluvium
sample = sand, some silt
bedrock = unknown
gravel / composition 65% dacite,
25% metagreiss

TP96S031 - taken 25 m. upstream
- S.O.S.

TP96FS014 - taken between TP96S030
& 031 but larger - sample
for very fine s. & f.

Note. This tributary drains
Pa Hoan Hill, has a wide flat
bottom, not real wide but may
be wide enough & adequate
water - should be
studied carefully as may
be important for all

spent rest of day panning
in road cut around sample
sites & in creek - no colors
obtained - none.

August 6, 1996

- clear skys

- proceeded down road to another creek that is a Cagwa Creek tributary

- some old trenches visible here - date unknown.

- will sample & pan just above trench

TP965032
GPS 6449513 N
610155 E 4 satellites

- width = .5
depth = 0.12 flow = slow
- bank = frozen mud, Sample = coarse
Some pieces of diorite, crumbly, very little else - if anything else.
Gravel comp. - as above

TP965033 - as above but 25 m. up stream.

TP96FS 015 - taken between TP96 5 037 & 033 bit larger sample for very fine silt.

- two excavator trenches here that did not go down more than 1m into frozen diorite sand, gravel. Did not reach underlying alluvium which probably does exist here at depth.

* spend rest of day panning here (≈ 1 yard³) - no colors obtained, will come back & prospect for more old workings

August 7, 1996
- cloudy, drizzle
On Eagle Creek on farthest point that can be travelled
- this ground is not staked.
- panned here earlier but will pan 1 yrd now & silt sample

TP96 5034
GPS 6948538N
610480E 4 satellites

width 2.40m depth 0.17m
flow = moderate bank alluvium
Sample composition = silt.
Gravel composition 45% dacite,
20% meta seds.

- lots of gravel here on the mud.

TP96 5035 - S.OS. bout 25m upstream

TP96FS016 - taken between TP96 5034 & 035 but large sample for very fine silt.

- spent rest of day ~~panning~~ panning here at this spot - (~ 1 yard) - no colours.
- found it very easy to walk up & down creek as will ~~come~~ back & hike up & down it. - Old roads still swamps but better than was in July.

Note: Mapping Fieldnotes
in another book
ie August 8 to August 15.

August 16 - returned to first
tributary of Casiao Creek
to prospect & pan over a
1 to 2 km distance.
- draw gets smaller upstream &
less suitable for large mining
operation. - no colors found
no old workings - old claim posts
but no tags, - none found.
- headed down from road
crossing - nice & wide, adequate
water & flat, - no colors found
- total distance covered = 1.5 km
- rained all day - (panning interval 250m)

August 17 - at second tributary
of Casiao - Prospecting commencing
at old trenches & panning at under
50 m intervals.

- upstream of old trenches no mineralized outcrops (actually no outcrops at all).
- no more old workings, no old roads
- no colors w/ no panning.

- below trenches S.O.S.
- no colors, no outcrops
- panning done ingravels consisting of rolled diorite & nothing else (may be bedrock so shallow here & will be no alluvium under mod & rolled diorite alluvium gravel that's on surface
- total covered - 1.5 km on creek

August 18 - will hike up & down creek panning & prospecting
- weather nice
- valley wide & creek negligible won't find outcrops - most likely pan at under 50 m intervals & look for old workings etc.
- old roads criss cross whole valley & are everywhere but most grown over.

- walking very easy in creek
- no colors found panning (very very fine one possibly)
- up & downstream, water & valley width adequate for large, very large mining operation
- valley very flat & wide for floater dredge although depth of mud & depth to bedrock unknown.
- seems to get adequate gun for thawing of gravels after stripping moss & possibly the mud.
- old geophysics cut crossing valley & going up each hill on each side - will prospect one to south-east tomorrow.

August 19 - clear warm day, clouds backed Patton Hill but beautiful here.
- will prospect cut on hill seperating Casino Creek from Dip Creek.

- someone (who?) mentioned cut was for seismic but I think possibly a trench to expose bedrock - it's 10m wide road in middle & goes up both sides of valley.
- managed to get ATV up the line with one person sitting on front rack to hold front end down - very steep. - no mineralization in cut all the way to top - just med. to coarse grained diorite.
- at top a road goes up ridge top to wood - head waters of creek - prospected up road to end (just over 3 km).
- Road is very, very nice, no weathering & lots of nice soil used for fill is still in place.
- no mineralization found - often dozer dropped blade to expose bedrock but always on mineralized diorite.
- head back out in evening

August 20 - completed top down river in Rain but happy together -
- lunch at Braeburn lodge
- stopped in Whitehorse to get gifts for family etc.
- left Y.T. late at night - crossed border just after midnight
- arrived at hotsprings at ~ 4:30am Aug 21.
for a quick dip.

End

96-041

SHEET 115-J-9

LATITUDE 62° 30' To 62° 45'
LONGITUDE 138° 00' To 138° 30'

SELWYN RIVER

CANADA
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION BRANCH
RESOURCES DIVISION

SCALE: ½ MILE To 1 INCH

FT. 1500 0 1500 3000 4500 6000 7500 9000 10500 FT.

ISSUED UNDER THE AUTHORITY OF THE MINISTER
OF
NORTHERN AFFAIRS AND NATIONAL RESOURCES

NOTICE

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

Area of Prospecting:
Battle Creek.
Placer.

12 JUNE 91
18 OCT. 76
6 APR. 72
14 AUG 69
WHITEHORSE 9 July 1964

30 MAY 95
23 MAR 95 L
21 MAR 95 L
08 FEB 94
01 OCT 93
16 JUNE 93
12 JAN 93
17 SEPT 91

Magnetic North
31° 10' E
N 30° 05' E
N 31° 05' E

115-J-15	115-J-16	115-I-13
115-J-10	115-J-9	115-I-12
115-J-7	115-J-8	115-I-5

NOTE FOR PLACER SEE 115-J9 PLACER

138°30' 62°45' 138°00' 62°45'

MASCOT CREEK
TRAIL
ROAD
BATTLE CREEK
SELWYN ROAD
HAYES CREEK
MOUNT COCKFIELD
RIVER TRAIL
SAM GULCH
KLINE'S GULCH
BUTTERFIELD CREEK
FOURMILE CREEK
APEX CREEK
SELWYN RIVER

62°30' 138°30' 62°30' 138°00'

115-J-9

Photographs

1996 Regional Exploration Program-Placer Gold
Regional Silt Sampling, Surficial Geology and Prospecting
South Klondike and Canadian Creek Placer Areas

NTS Maps Sheets 115J/10, 11, 14, 15, 16

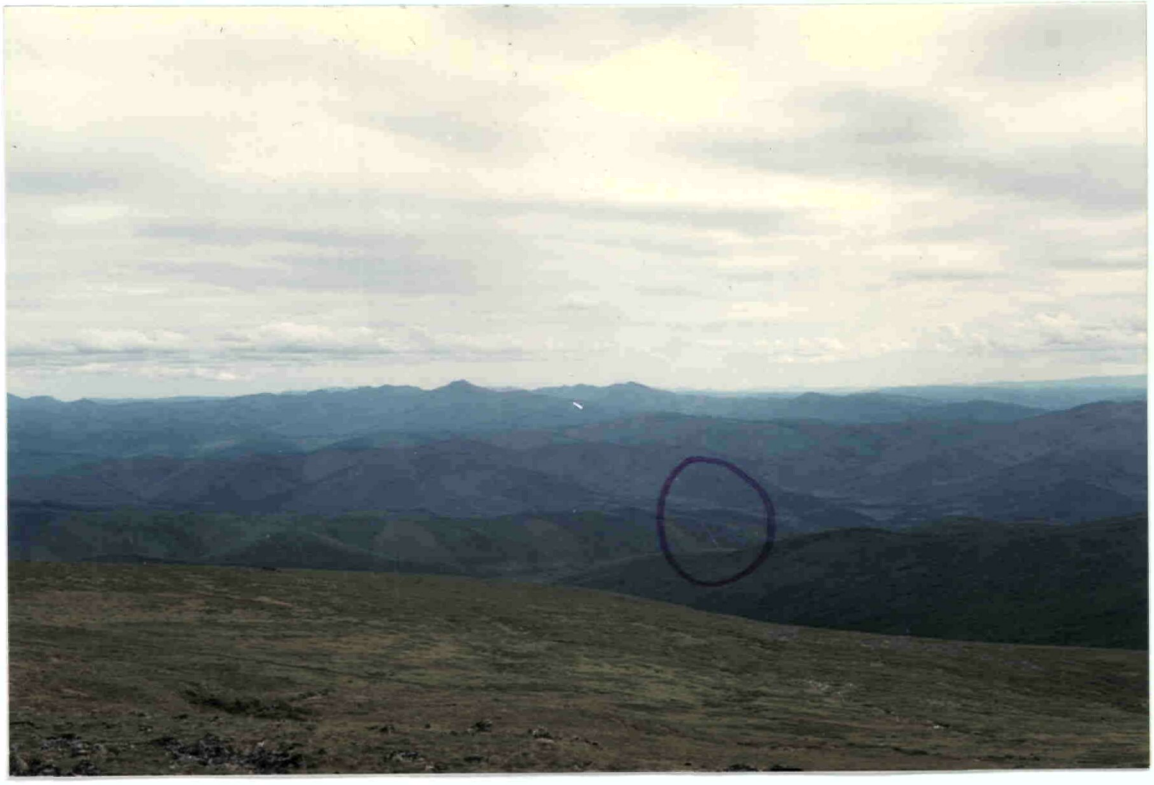
Application #96-041

Todd M. Parsons

October 27, 1996

This is the newest mining activity in our study area. Britannia Pacific Mining on Canadian Creek. Sluicing was to commence in the fall. The wash plant is a 400yrd/hour floater dredge built in Whitehorse. This creek has similar silt geochemistry in the government Regional Geochemical Survey to the samples we collected on the tributary of Coffee. The tributary of Coffee Creek drains the oposite side of the same mountain.

The Casino hardrock mining property is on the left of the photo. The headwaters of Canadian Creek can be seen in the distant valley. On the opposite side of the hill in the distance, at the headwaters of Canadian Creek, is the headwaters of the tributary of Coffee Creek where a large portion of our program was completed. Road building here is very difficult do to the large blocky subcrop and lack of fill material.



Taken near the top of Patton Hill looking south. The north-south azimuth line on the right of a distance ridge is a 10 meter wide cut. The ridge the cut is on separates Casino Creek, on this side, from Dip Creek on the other side. This line was put in during recent hardrock exploration. The next picture is taken near the top of this line looking back to the site of this picture above.

The road in this picture extends from the top of the cut seen in the above picture to a point about 1km along the ridge towards the headwaters of the creeks it separates, Casino and Dip. Note that road building here is much easier with lots of fill and less blocky subcrop. This road also shows little signs of weathering.

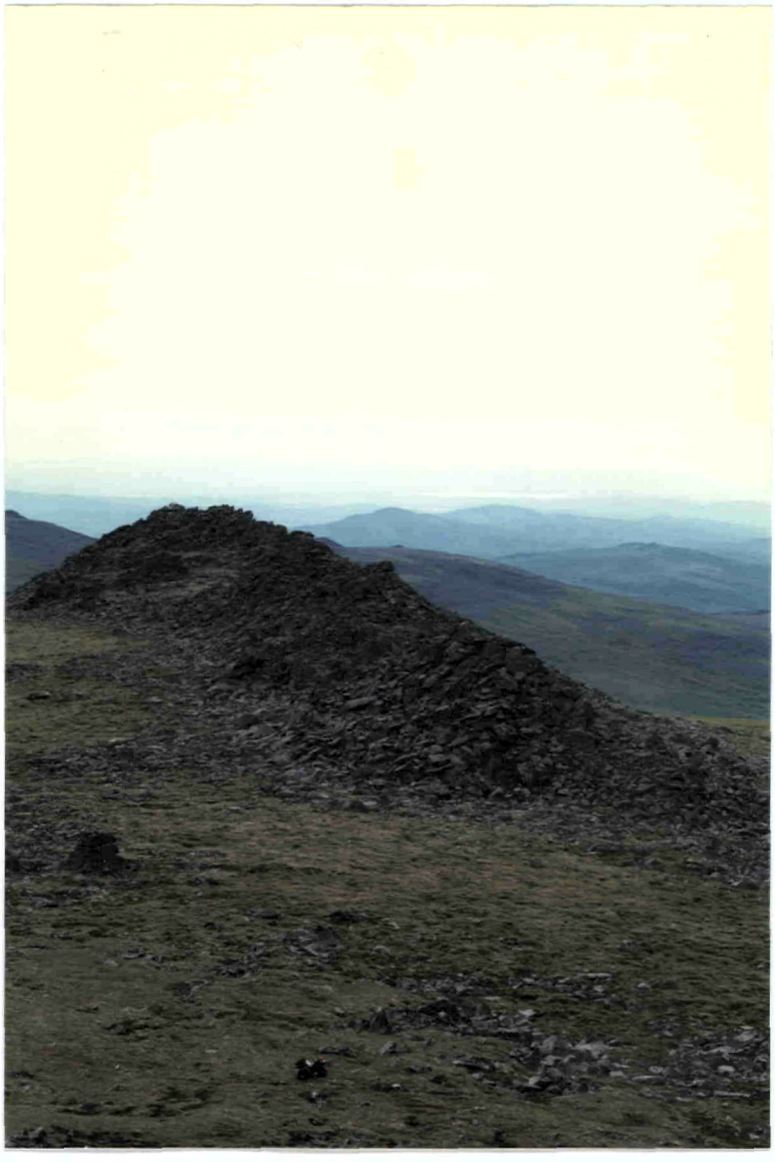
This picture shows the headwaters of the tributary of Coffee Creek we carried out much of our program on. The picture is facing west down the creek. The creek runs west until the far ridge then heads south for few kilometers then west again. This second westerly part of the creek can be seen in the left of the picture below.

This picture also looks west and shows the tributary of Coffee Creek farther downstream. It can be seen on the left of the picture heading away. This part of the creek is the only part that is worthy of further exploration since all the creek bottom above this point is filled with very large blocks of colluvium.

The boat is owned by McCabe Creek Enterprises. They are expediters for the area and deliver fuel to all the miners. This picture is taken at the start of Britannia Creek-Canadian Creek Road on the Yukon River. There is a large loading area here for the equipment barge, known as Jacob's Barge, and the fuel barge in the picture to load and unload.

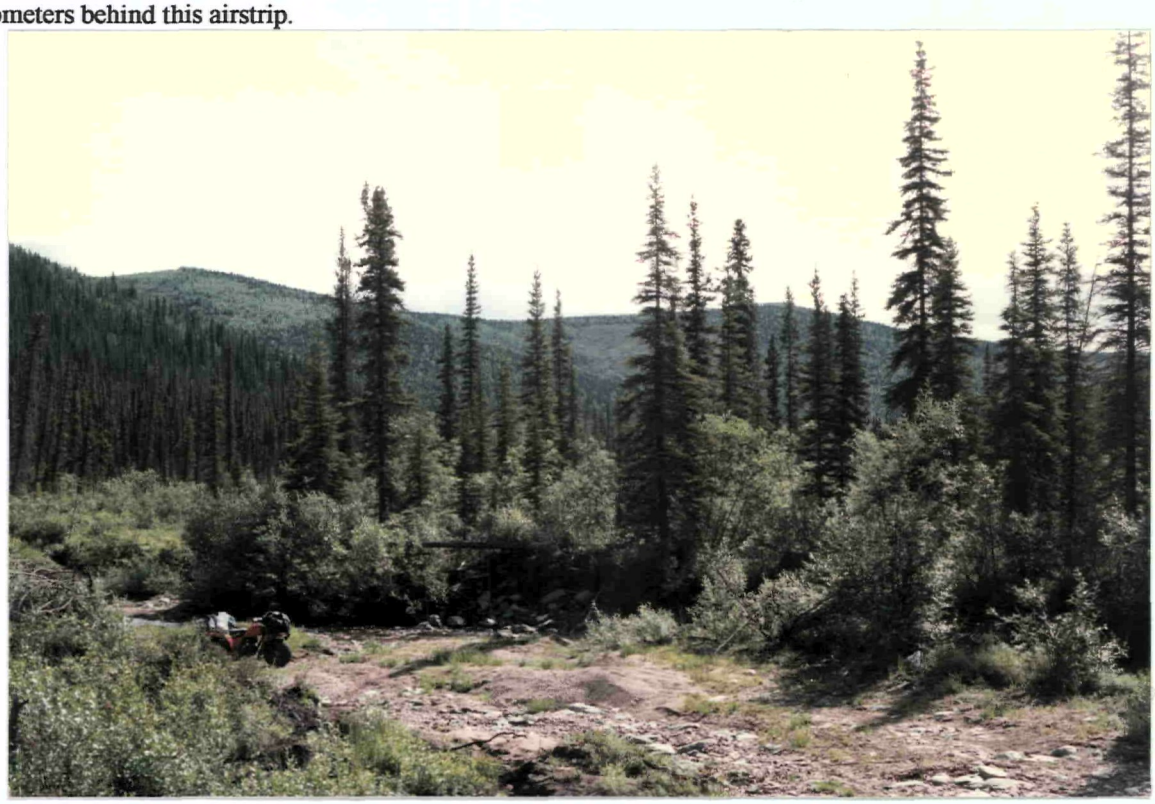
Yukon River at sunset.

Thick vegetation near top of Patton Hill. Ground has 10" of moss over several inches of soil followed by large blocky subcrop or colluvium.



The picture is taken looking southwest near the headwaters of the tributary of Coffee Creek where much of our program was carried out. Here the large blocky subcrop comes to surface. Note ATV in foreground.

This picture is taken looking south and is on the road from the Yukon River to the Casino property. The airstrip at Casino can be seen on the next ridge. The draw between the airstrip and where this picture is taken is the headwaters of Canadian Creek. The picture below is taken of a tributary of Casino Creek that is several kilometers behind this airstrip.



This is the first tributary of Casino Creek we sampled. Samples TP96FS014, TP96S030-031 originate here. Sample TP96FS014 was one of the few samples that had gold values above detection limits although only 10 ppb. This creek has adequate water flow for large scale placer mining and the valley is wide enough that it may contain significant amounts of alluvium.

These pictures are looking southeast from the headwaters of Casino Creek. Behind the next ridge in the distance is Dip Creek and Rude Creek. Rude Creek also has a large airstrip and has been placer mined at a large scale very recently. Fuel to this site had to be flown in for the entire mining operation and made mining very expensive.