

ITEM 1: TITLE PAGE

BC Geological Survey  
Assessment Report  
31662

**TECHNICAL ASSESSMENT REPORT  
GEOCHEMICAL SURVEYS  
GEOPHYSICAL SURVEYS  
KENNEDY RIVER PROPERTY**

PORT ALBERNI MINING DISTRICT  
VANCOUVER ISLAND, BRITISH COLUMBIA

Prepared for  
GONZAGA RESOURCES LTD.

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### **ITEM 3: SUMMARY**

The Kennedy River Property consists of two claim blocks (comprising 1,330.86 hectares) that cover roughly half of the historic Kennedy River Gold District (KRGD) located near Port Alberni on Vancouver Island. In the mid 1980's Teck Exploration, Kerr Addison Mines and various junior mining companies recognized that in addition to the narrow, high grade veins that were explored in the early 1900's the district also has potential for larger stockwork or sheeted vein type deposits. Regional scale soil geochemical surveys in the 1980's identified several areas of interest but most of the targets were never drill tested and the KRGD has seen little recent exploration work. The Kennedy River Property covers several partially explored mineralized zones and is considered an early stage, intrusion related gold exploration project. Gonzaga Resources Ltd. acquired a 100% interest in the Property in April of 2010 for re-imbursement of staking and claim maintenance costs of \$14,355.

The Kennedy River Gold District is arbitrarily defined by a ten kilometer long, north northeast trending series of gold occurrences that straddle the Port Alberni – Ucluelet Highway approximately 60 kilometers from Port Alberni. The British Columbia Ministry of Energy and Mines (BCMÉM) database (Minfile) documents seventeen known gold occurrences which include vein type prospects like the historic Bear, Rose Marie, Leora, Olympic and Titanic and a series of stockwork zones or sheeted vein zones that were identified in the early 1980's (referred to as the Tommy Zone, the Guppy Target (also referred to as the G-1 Target and the Westering 2 Target. Regional geological maps published by the British Columbia Ministry of Energy and Mines indicate that the Kennedy River Gold District is underlain by Triassic aged volcanic rocks and sediments belonging to the Karmutsen and Quatsino Formations that have been intruded by stocks and dykes of granitoid rocks (ranging from quartz diorite to granite) belonging to the Jurassic aged Island Intrusive Complex. This geological environment is typical of intrusion related gold districts.

The most significant mineralization that has been identified to date in the Kennedy River Gold District are the north to northeast trending sheeted vein type occurrences. The G-1 Target and the Westering 2 Target are located within the Kennedy River Property and the Tommy Zone is located on mineral claims owned by unrelated third parties between the claim blocks owned by Gonzaga Resources. The Tommy Zone consists of a 70 to 200 meter wide, north to northeast trending zone of sheeted quartz veins that was identified by Teck Exploration and International Phoenix Energy Corp in the mid 1980's. In 1984, Teck reported trench sample intervals within the sheeted vein zone that included 2.1 g/t gold over 7.5 meters and 3.8 g/t gold over 5 meters. Soil geochemical surveys traced the mineralized zone for over a kilometer and in 1987 the claims were optioned by Kerr Addison Mines. The historic technical information regarding the Tommy Zone is included to demonstrate the characteristics of the mineralization present within the KRGD.

In 1988 Kerr Addison optioned several additional mineral claims in the Kennedy River District, completed a small drill program on the Tommy Claims and expanded the regional scale soil geochemical sampling program. Drill results at the Tommy Zone were disappointing but soil sampling identified the G-1 Target and the Westering 2 Target in the southern part of the Kennedy River District. Preliminary trench sampling by Kerr Addison returned low but significant gold values at the G-1 Target (0.7 g/t gold over 16.6 meters) and additional work was recommended however no further work was reported and the claims were allowed to lapse. The present Kennedy River Property includes the sheeted vein targets

(G-1 and Westering 2 Targets) identified by Kerr Addison in the southern part of the Kennedy River Gold District and covers potential northeast extensions of the Tommy Zone.

In 2010 Gonzaga Resources completed a detailed review of the published technical data for the KRGD and it was noted that the exploration work carried out by Teck and Kerr Addison did not take into account the fact that many of the narrow, high grade vein type occurrences are localized along west to west northwest trending shear zones that are essentially perpendicular to the north northeast trending sheeted vein zones. The intersection points between mineralized structures with different orientations are often an important control on mineralization in intrusion related deposits and it was concluded that the exploration work completed by Teck and Kerr Addison may not have adequately tested the potential of the sheeted vein zones.

To determine if there is a correlation between the sheeted vein type mineralization and the east – west to north west trending vein type occurrences Gonzaga Resources constructed a high resolution ortho-photo mosaic and completed a detailed structural analysis. Results of the structural analysis showed that most of the known gold occurrences within the KRGD are localized along defined structural zones and also showed that there is a significant, mineralized, east west trending structure (referred to as the Au Zone) located adjacent to the eastern boundary of the Kennedy River Property. It is important to note that the projected extension of this zone will intersect the sheeted vein type mineralization in the vicinity of the mineralization identified by Kerr Addison at the G-1 Target.

The preliminary work completed by Kerr Addison showed that the G-1 Target warrants additional evaluation. To delineate the extent of the mineralization at the G-1 Target and to determine if the intersection between the north to northeast trending sheeted vein zones and the east – west trending structures host significant mineralization Gonzaga completed a program of detailed soil sampling, rock sampling and deep penetrating 3D IP geophysical surveys. The exploration work completed by Gonzaga was carried out in April, May and June of 2010 at a cost of \$105,000.

The soil geochemical survey results and the results of the 3D IP survey confirmed there is a co-incident gold in soil and chargeability anomaly associated with the sheeted vein type mineralization at the G-1 Target. Within the core of the anomaly soil sample assays ranged from several tens of ppb to several hundred ppb with spot high values of up to 1,500 and 2,400 ppb. Rock sampling where the sheeted vein zones are exposed in the southern part of the anomalous zone returned 1.245 g/t gold over a 5 meter interval and confirmed the results of previous sampling reported by Kerr Addison Mines. The presence of a chargeability anomaly directly associated with the elevated gold in soil values suggest the G-1 Target is more extensive than previously recognized. The soil geochemical anomaly and the IP anomaly are over 200 meters wide, both are open to the southwest and there is a second chargeability anomaly that has not been explained to the north of the main anomaly. These anomalies may represent a mineralized zone localized at the intersection of two mineralized structural trends and it is recommended that additional detailed soil geochemical surveys and selective trenching be completed to delineate the extent of mineralization.

In addition to the G-1 Target the Kennedy River Property hosts several other target areas including the Westering 2 sheeted vein zone located approximately one kilometer north of the G-1 Target, the western part of the Au Zone (located in the eastern part of the claim area) identified by Teck and

Multinational Minerals and the projected northeast extension of the Tommy Zone into the Gonzaga owned claim block in the northern part of the project area.

In the authors opinion the Kennedy River Property is a Property of merit and warrants additional exploration. Stage 1 should consist of detailed geological mapping and additional soil geochemical surveys in the south western part of the property to delineate possible strike extensions of the G-1 Target , detailed soil geochemical surveys and additional structural modelling to assess the Westering 2 Target, reconnaissance scale geochemical surveys to determine if there are any extensions of the Tommy Zone to the northeast and an examination of the soil geochemical anomalies identified by Teck and Multinational Minerals (referred to as the Au Zone) in the eastern part of the present claim group. The estimated cost of Stage 1 is \$220,000.

In the event that Stage 1 delineates any significant zones of sheeted vein type mineralization a follow up program of 3D IP surveys would be warranted to delineate the extent of the mineralized zones at depth and to prioritize areas for drill testing. The estimated cost of Stage 2 would be \$440,000.



#### **ITEM 4: INTRODUCTION AND TERMS OF REFERENCE**

The author was retained by the Board of Directors of Gonzaga Resources Ltd. to review historic technical reports related to the Kennedy River Property, design and supervise a preliminary exploration program to verify the historic data and if warranted, outline recommendations for a follow-up exploration program. Gonzaga Resources Ltd. intends to utilize this technical report in support of an application to the TSX Venture Exchange for an Initial Public Offering.

This report was prepared in accordance with National Instrument 43-101. The Qualified Person who is the author of this report has supervised various exploration projects in the Province of British Columbia. The author visited the Kennedy River Property between May 5 and May 7, 2010 and again between June 25 and June 27, 2010. The scope of the personal inspection of the property was to assess field conditions and examine reported gold mineralization identified by Kerr Addison Mines at the G-1 target in the south central part of the current Property.

#### **ITEM 5: RELIANCE ON OTHER EXPERTS**

The author has prepared this report based on information which is believed to be accurate but which is not guaranteed. The available technical data for the Kennedy River Property consists of regional geological information compiled by the BC Ministry of Energy and Mines and documentation regarding field investigations completed within the project area by various previous operators including Kerr Addison Mines, Teck Exploration, and various junior mining companies. Sources are listed in the References section of this report and are cited where appropriate in the body of the report. The technical reports listed in the References section of this report appear to have been completed by professional geologists without any promotional or misleading intent and the author has no reason to doubt the accuracy or completeness of the contained information.

To the best of the author's knowledge at the time of writing of this report, the Kennedy River Property is free of any liens or pending legal actions and is not subject to any underlying royalties, back-in rights, payments or other encumbrances other than as disclosed in section 6 of this report. To the best of the author's knowledge, there are no known existing environmental liabilities to which the property is subject, other than the requirement to mitigate any environmental impact on the claims that may arise in the course of normal exploration work and the requirement to remove any camps constructed on the Kennedy River Property or any equipment used in exploration of the claims in the event that exploration work is terminated.

The author conducted an online title search on July 30, 2010 to verify that all of the mineral claims that comprise the Kennedy River Property are in good standing with the BC Ministry of Energy and Mines.

## ITEM 6: PROPERTY DESCRIPTION AND LOCATION

The Kennedy River Property consists of two claim blocks (comprising 1,330.86 hectares) that cover roughly half of the historic Kennedy River Gold District (KRGD) located near Port Alberni on Vancouver Island. Gonzaga Resources Inc. holds a 100% interest in 11 mineral tenures consisting of the Kennedy River North and Kennedy River South Blocks. The Kennedy River North Block consists of one mineral tenure (527.83 hectares). The Kennedy River South claim group consists of 10 contiguous mineral tenures (803.01 hectares). All of the claims which comprise the Kennedy River Property were staked pursuant to the BC Ministry of Energy and Mines MTO system (Mineral Titles Online System). The earliest expiry date of the claim package is December 30<sup>th</sup> 2013. The location of the property relative to other mining claims, local communities, parks and access roads is shown in figure 1. The individual claim tenure numbers are shown in figure 3. The property is located on NTS Mapsheet 92F03.

The mineral cell title claim statistics are summarized in Table 1; note that this claim information is not a legal title opinion but is a compilation of claims data based on the author's review of the government of the British Columbia Mineral Rights inquiry website (BC Mineral Titles July 30<sup>th</sup>, 2010). The mineral claims do not have to be legally surveyed since they are BC Government established cell claims.

Table 1. List of mineral tenures

Tenure Number	Owner	Tenure Type	Good To Date	Area (ha)
<b>Kennedy River South Claim Group</b>				
573141		Mineral	2013/dec/30	169.08
564455		Mineral	2013/dec/30	84.55
564460		Mineral	2013/dec/30	21.14
564457		Mineral	2013/dec/30	21.13
564456		Mineral	2013/dec/30	42.27
564459		Mineral	2013/dec/30	21.13
564458		Mineral	2013/dec/30	42.26
573142		Mineral	2013/dec/30	253.57
606514		Mineral	2013/dec/30	63.39
565598		Mineral	2013/dec/30	84.51
Total: 803.03				
<b>Kennedy River North Claim Group</b>				
767742		Mineral	2013/dec/30	527.83
Total: 527.83				

The Kennedy River Property is owned 100% by Gonzaga Resources Inc. and is not subject to any royalties, back in rights, payments or other agreements. Title to the claims is maintained through the performance of annual assessment filings and payment of required fees. For the first three years a minimum of \$4.00 per hectare in eligible exploration expenditures must be incurred. In subsequent years a total of \$8.00 per hectare in eligible exploration expenses must be incurred.

To the best of the author's knowledge, government permits will be required to carry out the proposed Stage 2 exploration program and for any follow up diamond drilling program recommended after completion of this program. These programs will require application to the Ministry of Energy and Mines for permits and the Issuer may be required to post security equivalent to the estimated costs of any reclamation work which will be required after completion of the proposed exploration work.

To the best of the author's knowledge approval from local First Nations communities may also be required to carry out the proposed Stage 2 exploration program. The reader is cautioned that there is no guarantee that the Issuer will be able to obtain approval from local First Nations. However, the author is not aware of any problems encountered by other junior mining companies in obtaining approval to carry out similar programs in nearby areas nor is the author aware of any instances where local First Nations communities have objected to exploration work in the general project area.

The BC Land Title and Survey Authority (LTSA) cadastre online database indicates that there is a legal surveyed parcel of land, District lot 617 – Clayoqot District, which partially covers the Kennedy River Property. To the best of the author's knowledge the surface rights of District Lot 617 are owned by the Province of British Columbia. The LTSA cadastre online database also indicates that there are Crown Grants that lie within the property. These Crown Grants have been treated as outliers on the Kennedy Lake Property (Figure 3). In the event that a significant mineralized zone is identified an application that includes detailed environmental impact studies must be made to the BC Land Title and Survey Authority (LTSA) for surface rights prior to initiation of any advanced exploration or mining activities. The reader is cautioned that there is no guarantee that areas for potential mine waste disposal, heap leach pads, or areas for processing plants will be available within the subject property.

## **ITEM 7: ACCESSIBILITY, CLIMATE, PHYSIOGRAPHY AND INFRASTRUCTURE**

Access to the property is by Provincial Highway 4 (also referred to as the Pacific Rim Highway) 64 kilometres south east of Port Alberni.. The property on the west side of Kennedy River can be accessed by a logging road that begins at approximately 323612m E / 5445993m N. A steel frame bridge crosses Kennedy River and a number of logging roads cut through the property and give access to the G-1 Target and Westering 2 Zone (Figure 3). The property on the east side of Kennedy River has few access roads, but a number of trails were reportedly cut during the exploration programs carried out by Teck, Kerr Addison mines and various junior mining companies during the mid to late 1980's.

The terrain over the properties consists of moderately steep-sided mountains covered by typical coastal second-growth forest and overgrown clear-cut logged areas. The areas of lower elevation along the creeks and rivers generally have gentle relief and are free of snow during the winter. The climate is cool and wet, with windstorms in late fall. There are typically hot, dry spells during the summer when exploration work may be curtailed because of forest fire hazard. There are number of small lakes and streams within the claim area that would easily provide sufficient water for exploration purposes.

Port Alberni is a resource-based community of about 17,000 people with a sheltered deep sea port accessing the Pacific Ocean, and paved highways accessing the rest of Vancouver Island. An underutilized railway network also exists between all the major communities on the island, including Port Alberni.

## **ITEM 8: EXPLORATION HISTORY**

Gold exploration in the Kennedy Lake District dates back to the early 1900's. During the period 1900 to 1940 gold exploration and development in the Kennedy River gold district is described in B.C. Minister of Mines Annual Reports. This early work was directed toward prospecting for and developing generally east – west trending, narrow, high-grade shear controlled quartz veins such as those of the Bear, Rose Marie, Leora, Olympic, Titanic, and Au Occurrences. Exploration and development was curtailed in the Kennedy River Gold District at the onset of World War II and was not renewed until the 1980's when several companies including Teck Exploration, Kerr Addison Mines, International Phoenix Energy Corp, Discovery Gold Explorations, Multinational Resources, and Rich Lode Gold recognized the potential for larger stockwork and sheeted vein type occurrences. These companies carried out reconnaissance geochemical sampling, geophysical surveys, trenching and limited drilling programs to explore for both high-grade gold -bearing quartz veins and northeast trending zones of sheeted sulphide bearing veinlets which are a persistent regional feature in this area.

The most significant mineralization that has been identified to date in the Kennedy River Gold District are the north to northeast trending sheeted vein type occurrences referred to as the G-1 Target, the Westering 2 target and the Tommy Zone. The G-1 Target and the Westering 2 Target are located within the Kennedy River Property and the Tommy Zone is located between the claim blocks owned by Gonzaga Resources. Immediately east of the Kennedy River Property is an occurrence referred to as the Au Prospect.

The Tommy Zone was originally discovered in 1933. In 1984, Teck and International Phoenix reported trench sample intervals within the sheeted vein zone at the Tommy Prospect that included 2.1 g/t gold over 7.5 meters and 3.8 g/t gold over 5 meters. Soil geochemical surveys traced the mineralized zone for over a kilometer and in 1987 the claims were optioned by Kerr Addison Mines. It is important to note that the Tommy Zone is located adjacent to the Kennedy River Property but does not form part of the Kennedy River Property. The historic technical information regarding the Tommy Zone is included to demonstrate the characteristics of the mineralization present within the Kennedy River Gold District.

In 1988 Kerr Addison optioned additional claims in the Kennedy River District from several local property holders including Walter Guppy, completed a small drill program on the Tommy Zone and expanded the regional scale soil geochemical sampling program. Drill results at the Tommy Zone were disappointing but soil sampling identified the Westering 2 and G-1 Targets in the southern part of the Kennedy River District. Trench sampling by Kerr Addison returned low but significant gold values at the G-1 Target (0.7 g/t gold over 15 meters) and additional work was recommended however, no further work was reported and the claims were allowed to lapse. The present Kennedy River Property includes the sheeted vein targets identified by Kerr Addison in the southern part of the Kennedy Lake District and covers potential northeast extensions of the Tommy Zone but does not include the original Tommy Property.

The Au gold occurrence located to the east of the Kennedy River Property was discovered in 1962 by a prospector named Bus Hensen. The most recent work carried out on the Au occurrence was by Teck and Multinational Resources Inc in 1984 on the Au property (Figure 5). The Au vein was systematically sampled along surface and returned gold assays ranging from 3.54 to 37.58 g/t gold over average widths from 0.3 to 0.4 metres. The Au vein was drilled and intersected a wide alteration zone that contained gold mineralized quartz vein(s). By carrying out a geochemical soil survey (100 metre line spacing with 25 metre stations) Multinational was able to identify other areas of gold mineralization obscured by overburden. Follow up to these geochemical anomalies (12.5m infill stations) led to the discovery of three other gold bearing quartz veins running parallel to the Au mineral occurrence referred to as the . Au North gold occurrence (Minfile no. 92F028). It is important to note that the Au occurrence lies on the east side of Kennedy River approximately 300 metres east of the Kennedy River Property.

The Esther gold occurrence (Minfile no. 92F099) was discovered in 1983 by Rich Lode Gold Corp on their Esther claim (Vincent, 1983) located immediately north of the Kennedy River Property (South Block). The Esther showing consists of a series of sulphide-bearing quartz veinlets which occupy northeasterly trending fractures in Karmutsen volcanics. The fracture density ranges from 3 to 8 fractures per metre. Over an interval of 70 metres there are approximately 60 quartz veinlets ranging in thickness from 0.5 to 6 cm, but averaging 1.5 cm. The veinlets consist of a coarse, milky white, commonly drusy quartz gangue. They persist laterally for over 100 metres along strike where they become obscured by forest cover. Continuous chip samples taken at four locations, ranging from 1 to 1.5 metres in width, where best vein exposures occur in the creek, assayed up to 1.27 g/t gold.

## **ITEM 9:            GEOLOGICAL SETTING**

The Kennedy Lake Project is situated within the Kennedy River Gold District which lies on the western boundary of the Insular Belt, one of the five morphological belts of the Canadian Cordillera. The Insular belt refers to an exotic assemblage of volcanics, intrusions and sedimentary rocks accreted to the North American Cordillera in the Mesozoic.

The regional geology of the project area is taken from BCGS Bulletin 055, Geology of the Kennedy Lake Area by G.E.P. Eastwood (1968). Figure 2 shows the generalized geology of the Kennedy River Gold District. The Kennedy Lake Gold Camp is mostly underlain by Triassic volcanic rocks of the Karmutsen Formation. On a regional scale the Karmutsen commonly exhibits greenstone alteration that includes the development of chlorite, actinolite and epidote in the groundmass. Epidote, quartz and calcite are ubiquitous as veins and other open space fillings. Overlying the Karmutsen are Upper Triassic sediments of the Quatsino Formation composed largely of limestones and calcareous sediments. The Quatsino has been largely eroded and is distributed in isolated patches resting on the basalts. The Island Intrusives of Jurassic age have intruded both the Karmutsen and Quatsino Formations. They are composed of batholiths and stocks of granitoid rocks ranging from quartz diorite to granite.

Prior to the 1980's it was generally believed that gold mineralization was localized along west to northwest trending shear and fault zones (Muller and Carson, 1968). These structures are believed to have been developed during deformation which took place during the Tertiary. Muller's 1977 map of Vancouver Island indicates several divergent and cross faults within the Kennedy River District and this structural setting is believed to be similar to that developed in many of the important epithermal gold districts of the southwestern United States.

According to Henneberry, 1987 two periods of intrusive activity have been documented in the district. The Jurassic aged, Island Intrusion Complex are mainly comprised of granodioritic to quartz dioritic composition. Contact with Karmutsen rocks are generally sharp and well defined. Tertiary aged intrusions consist of small stocks (less than 2 kilometer diameter), dykes and sills of predominantly quartz diorite composition.

Of significance in the dating of structures and mineralization within the Kennedy River Property is an exposure of dacitic lapilli tuff located near the eastern boundary of the property. The rock here is compositionally and texturally similar to rocks of Tertiary age which are recognized by Mueller and Carson to the north of the Kennedy River Gold District. This local lapilli tuff unit is cut by several steeply dipping, north-east striking planar quartz veinlets of the type which make up the auriferous sheeted vein zones on the property.

#### **ITEM 10: DEPOSIT TYPES**

Gold occurrences in the Kennedy Lake area have two distinct settings:

- 1) North to northeast trending, sheeted vein zones consisting of generally narrow (< 10 centimetre wide) northeasterly striking sulphide bearing veinlets in predominantly sheeted zones of the Karmutsen volcanics; and
- 2) Westerly striking sulphide bearing quartz veins (0.15 to 1 metre wide) with steep to moderate dips occupying west to west northwest trending faults in Karmutsen volcanics or intrusive rocks.

Both settings are similar to those that generally host most known intrusion and shear related lode gold deposits.

#### **Shear Hosted Gold-Silver ( $\pm$ polymetallic) Vein deposits**

Kennedy River Gold District mineralization is similar to most shear related lode gold deposits. Mineralization is epigenetic in nature and formed from structurally focussed hydrothermal fluids, which create a system of low sulphide quartz veins, veinlets or stockworks. These deposits are normally associated with major regional scale structural "breaks" or faults. Deposits are often located in or near a plutonic body. Vein systems often occur in the central parts of discrete shear zones within a larger regional fault, where rotational or simple shear strains predominate. Vein systems are tabular, sub vertical structures of varying thickness and lateral extent; where typical thickness is measured in metres and the strike-dip dimensions are measured in tens or hundreds of metres.

The economically viable part of the vein system may be considerably smaller than the whole shear system; often forming discreet shoots of mineralization. Precious metal mineralization often occurs as coarse individual grains, occasionally making this type of deposit difficult to evaluate, due to a “nugget effect” on sample analyses.

Quartz veins usually have sharp contacts with wallrocks and exhibit a variety of textures, including massive, ribboned or banded and stockworks with anastomosing gashes and dilations. Textures may be modified or destroyed by subsequent deformation. Wallrock alteration is characterized by silicification, pyritization and potassium metasomatism generally occurring adjacent to veins (usually within a metre) within a broader zone of carbonate alteration, extending up to tens of metres from the veins. Quartz-carbonate altered rock (listwanite) and pyrite are often the most prominent alteration minerals in the wallrock. Fuchsite, sericite, tourmaline and scheelite are common where veins are associated with felsic to intermediate intrusions.

Ore mineralogy can include: gold, silver, arsenopyrite, chalcopyrite, pyrite, sphalerite, tetrahedrite, argentite, pyrrhotite, galena, tellurides, scheelite, and bismuth. Gangue mineralogy includes: quartz and carbonate (calcite, dolomite, ankerite or siderite), hematite-limonite, mariposite (fuchsite), sericite, muscovite, chlorite, tourmaline, graphite.

Typical geophysical signature: Associated structures may be defined by ground magnetic, very low frequency or electromagnetic surveys. Airborne surveys may identify prospective regional-scale major structures. Recent developments in 3D IP surveying technology appear to provide a viable method for assessing the variability in chargeability and resistivity response. The variability may reflect mineralogical changes within mineralized zones or structures and may aid in selection of drill targets.

## **ITEM 11: MINERALIZATION**

### **Kennedy River Gold District Mineralization**

Published BCMEM technical data indicates that the gold occurrences of the Kennedy River Gold District straddle Highway 4 to the northeast of Kennedy lake. These gold occurrences include east-west to northwest trending discrete gold-quartz veins as well as northeast trending sheeted veinlets containing gold hosted by volcanic rocks of the Karmutsen formation and intrusive rocks of the Island Plutonic Suite.

Quartz veins usually have sharp contacts with wallrocks and exhibit a variety of textures, including massive, ribboned or banded and stockworks with anastomosing gashes and dilations. Textures may be modified or destroyed by subsequent deformation. Wallrock alteration is characterized by silicification, pyritization and potassium metasomatism generally occurring adjacent to veins (usually within a metre) within a broader zone of carbonate alteration, extending up to tens of metres from the veins.

Sheeted veinlets are typically less than 10 cm wide and consist of a coarse, milky-white, commonly drusy quartz gangue. Relatively coarse-grained sulphides occurring within the veins are, in order of abundance: pyrite, pyrrhotite, sphalerite and chalcopyrite. Locally veins occupy steeply dipping northerly and easterly trending shears. They commonly contain visible gold and up to a few percent



sulphides; including arsenopyrite, pyrite, galena, sphalerite, and chalcopyrite. Locally around some of the larger veinlets pyrite occurs as disseminations in the wall-rock for up to 5 cm either side of veinlets. The wall-rock surrounding larger veinlets also shows a slightly sheared and altered (more siliceous) envelope, suggesting veins were emplaced along small faults (Vincent, 1983).

### **Mineralization identified within the Kennedy River Property**

The British Columbia Minfile mineral occurrence database indicates that the Kennedy River Property covers two gold mineral occurrences the Guppy (Minfile no. 92F392: also referred to as the G-1 Target) and the Westering 2 (Minfile no. 92F448). The G-1 Target is described in the BC Minfile database as a zone of sheeted veinlets occurring over a 200 by 800 metre area. The area sampled by Kerr Addison reportedly assayed 0.7 g/t gold across an outcropping sheeted vein zone that has a vein density of 3.8 percent over 16.6 metres. The Westering 2 gold occurrence is described as a zone of sheeted veinlets occurring over a 200 by 400 metre area. The Westering 2 gold occurrence has a vein density of approximately 1%. According to Kerr Addison Mines eight composite samples of vein material assayed from 0.53 to 18.4 g/t gold (Potter, 1987). According to Teck, the mineralization identified at the Au Prospect (located approximately 300 meters to the east of the Kennedy River Property) appears to improve as the veins were traced to the west. In addition, the alteration halo appears related to the Au mineralized veins appears to become wider and more intense towards the volcanic contact (towards the Kennedy River Property boundary).

### **ITEM 12: SUMMARY OF EXPLORATION WORK COMPLETED BY GONZAGA RESOURCES 2010**

In early 2010 Gonzaga Resources completed a review of the published technical data for the Kennedy River Gold District and it was noted that the exploration work carried out by Teck and Kerr Addison did not take into account the fact that the narrow, high grade vein type occurrences are localized along west to west northwest trending shear zones that are essentially perpendicular to the north northeast trending sheeted vein zones. The intersection between mineralized structures are often an important control on mineralization in intrusion related deposits and it was concluded that the exploration work completed by Teck and Kerr Addison did not adequately test the potential of the sheeted vein zones.

After completion of the technical review Gonzaga constructed a high resolution ortho-photo mosaic and correlated known gold prospects with the interpreted structural zones that crosscut the project area. Available technical data showed that there is a mineralized, east west trending structure that localizes several gold bearing veins in the eastern part of the Property (referred to as the Au Zone) and that the projection of this zone would intersect some of the north northeast oriented sheeted vein type mineralization identified by Kerr Addison. This target area is referred to as the G-1 Target and to determine if the intersections between the sheeted vein zones and the gold bearing veins host significant mineralization Gonzaga completed a program of line cutting, detailed soil sampling, rock sampling and deep penetrating 3D IP geophysical surveys. The exploration work was carried out in May and June of 2010 at a cost of \$105,000.

The objectives of this program were to assess the geophysical responses of the G-1 Target area, verify the soil geochemical sampling results reported by Kerr Addison, delineate the extent of mineralization at

the G-1 Target using the soil sampling data and to identify other mineralized areas on the Kennedy Lake Property that have not been previously tested.

The 2010 exploration program carried out by Gonzaga Resources Inc. consisted of a geological review of the Kennedy Lake Gold District, a GIS compilation of all historic technical data within or adjoining the Kennedy Lake Property, a detailed verification and infill soil sampling program designed to evaluate the area referred to as the G-1 Target and an orientation geophysical survey, consisting of ground based mag and IP, over the G-1 Target to evaluate the geophysical response of the mineralization at the G-1 target and determine if there is potential to extend the known mineralization.

A total of 220 soil samples and 27 rock samples were collected during the 2010 exploration program. The location of each soil and rock sample station was noted, in UTM coordinates (NAD83 zone 10), with the aid of a hand-held GPS (Garmin 60CSx) and are shown in Figures x to x and listed in Appendix X.

The geophysical survey grid consisted of three northwest trending lines with 150 metre line spacing with an azimuth of 315 degrees (Figure 8). Stations were flagged at 25 metre intervals along the 1 kilometre lines. The grid covers the G-1 Target and intersects two inactive logging roads. The magnetometer survey was carried out on the centre flagged line (Line 5200N).

**12.2 STATEMENT OF COSTS****(BASED ON EXPENDITURE STATEMENT PROVIDED BY GONZAGA RESOURCES)****SOW 4392311 AND SOW 4719853****Ram Explorations Ltd. (GST #10439 2923 RT0001)**

604-649-5797

ramexplorations@shaw.ca

8888 Shook Rd.

Mission, BC. V2V 5M2

**Attention: Gonzaga Resources Ltd**

Re: Kennedy River Project

For the Period April 15 - June 30, 2010

	CDN	GST
Geological Field Work and Subcontractors - Kennedy River survey control mapping, soil geochemical survey, and 3D IP and magnetics survey	\$ 59,242.56	\$ 2,433.15
Field Equipment Rentals/Expenses	\$ 9,858.97	\$ 492.95
Auxilliary Field Equipment Rentals	\$ 4,848.36	\$ 242.42
Geological, Geophysical and GIS technical mapping	\$ 23,368.40	\$ 1,176.42
Geochemical Analyses	\$ 6,963.46	\$ 338.17
Preparation of 43-101 Technical Report	<i>Pending</i>	<i>Pending</i>
BCMEM Filing Fees and Preparation <i>Filing fees not eligible for FT deduction</i>	\$ 1,865.39	\$ -
<b>Total</b>	<b>\$ 106,147.14</b>	<b>\$ 4,683.11</b>

**TOTAL APPLIED FOR ASSESSMENT CREDIT: SOW 4392311 AND SOW 4719853****104281.75**

Summary of Geological Field Work and Subcontractors

	CDN	GST
<b>Equipment Preparation: 4x4, line cutting and survey control instruments, soil augers and sampling equipment, Project Review with James Thom</b>		
<b>Carl von Einsiedel, PGeo</b> April 22-24, 2010 14 Hours @ \$90	\$ 1,260.00	\$ 63.00
<b>Technician</b> April 15 - 20, 2010 17 Hours @ \$45	\$ 765.00	\$ 38.25
<b>Field Operations, Site Visit, Examination of Kerr Addison "Guppy" zone, soil geochemistry survey</b>		
<b>James Thom</b> April 24 - April 27, 2010 Office Work: 4 Hours @ \$40 Field Work: 4 Days @ \$475	\$ 160.00 \$ 1,900.00	\$ 8.00 \$ 95.00
Accommodation and Travel Expenses	\$ 1,781.97	\$ 72.97
<b>Eugene Larson</b> April 18- 29, 2010 Contractor: 4 Days @ \$350	\$ 1,560.00	
Accommodation and Travel Expenses	\$ 490.85	\$ 22.44
<b>Carl von Einsiedel, PGeo</b> April 25 - 30, 2010 3 Days @ \$600	\$ 1,800.00	\$ 90.00
Accommodation and Travel Expenses, Bear deterrent supplies, Field supplies, crew sampling vests	\$ 3,359.48	\$ 167.97

Summary of Geological Field Work and Subcontractors

	CDN	GST
<b>Kennedy River Project - Soil geochemical survey grid construction, geophysical surveys, and auger sampling program</b>		
<b>Eugene Larson</b> May 1 - May 15, 2010	\$ 2,310.00	
Accommodation and Travel Expenses	\$ 723.00	\$ 36.15
<b>Carl von Einsiedel, PGeo</b> May 1 - 15, 2010 2 Days @ \$600	\$ 1,200.00	\$ 60.00
Accommodation and Travel Expenses	\$ 1,307.41	\$ 65.37
<b>Carl von Einsiedel, PGeo</b> May 16 - 29, 2010 6 Days @ \$600	\$ 3,600.00	\$ 180.00
Accommodation and Travel Expenses	\$ 1,426.18	\$ 71.31
<b>Eugene Larson</b> May 16 - May 29, 2010	\$ 2,345.00	
Accommodation and Travel Expenses	\$ 687.63	\$ 34.38
<b>James Thom</b> June 23 - June 26, 2010 Office Work: 4.5 Hours @ \$40 Field Work: 4 Days @ \$475	\$ 180.00 \$ 1,900.00	\$ 9.00 \$ 95.00
Accommodation and Travel Expenses	\$ 2,835.97	\$ 141.80
<b>Eugene Larson</b> June 23 - 30, 2010	\$ 4,000.00	
Accommodation and Travel Expenses	\$ 931.87	\$ 46.59

Summary of Geological Field Work and Subcontractors

	CDN	GST
<b>SJ Geophysics Ltd</b> 29-Jun-10 Invoice SJ10087	\$ 11,784.56	\$ 589.23
<b>Carl von Einsiedel, PGeo</b> June 25 - June 27, 2010 3 Days @ \$600	\$ 1,800.00	\$ 90.00
Accommodation and Travel Expenses	\$ 2,447.95	\$ 122.40
<b>Sample handling and computer sample log in, delivery to ALS Chemex, North Vancouver (June 29 - 30, 2010)</b>		
<b>Carl von Einsiedel, PGeo</b> 10 hours @ \$90	\$ 900.00	\$ 45.00
<b>Technician</b> 10 hours @ \$40	\$ 400.00	\$ 20.00

Sub-Total \$ 53,856.87  
 Applicable Surcharge @ 10% \$ 5,385.69

Subtotal \$ 59,242.56  
 GST \$ 2,433.15

Total \$ 61,675.70

**Listing of Field Equipment Expenses**

	CDN	GST
<b>Ram Explorations Motorhome Rental</b> 19 Days @ \$130/Day (Discounted 25%)	\$ 1,852.50	\$ 92.63
<b>Vehicle Usage</b> 1314km @ \$0.45	\$ 591.30	\$ 29.57
<b>Ram Explorations Truck Rental</b> <b>2005 F250 4x4 HD extended cab (modified for offroad operations)</b> 38 Days @ \$125/Day	\$ 4,750.00	\$ 237.50
<b>Vehicle Usage</b> 2366km @ \$0.35	\$ 828.10	\$ 41.41
<b>Ram Explorations Truck Rental</b> <b>2007 Ford Ranger 4x4 HD extended cab (modified for offroad operations)</b> 7 Days @ \$95/Day	\$ 665.00	\$ 33.25
<b>Vehicle Usage</b> 788km @ \$0.35	\$ 275.80	\$ 13.79

<b>Sub-Total</b>	\$ 8,962.70
<b>Applicable Surcharge @ 10%</b>	\$ 896.27
<b>Subtotal</b>	\$ 9,858.97
<b>GST</b>	\$ 492.95
<b>Total</b>	\$ 10,351.92

Listing of Ram Explorations Field Equipment Rentals

	CDN	GST
<b>Soil sample augers and extensions</b> 3 complete auger systems: 40 days @ \$25 per day	\$ 1,000.00	\$ 50.00
<b>Navigation equipment, GPS's, SPOT emergency locator (4), VHF radio's (4)</b> GPS, VHF and SPOT GPS emergency locator: 40 days @ \$45 per day	\$ 1,800.00	\$ 90.00
<b>Satellite telephone (emergency use only)</b> Satphone rental: 40 days @ \$20	\$ 800.00	\$ 40.00
<b>Satphone usage (estimated)</b> <i>nil usage (cellphones used on site)</i>	\$ 207.60	\$ 10.38
<b>Field crew labtop and printer</b> complete system: 40 days @ \$15	\$ 600.00	\$ 30.00
<b>Emergency first aid equipment (included in motorhome rental charges)</b>	\$ -	\$ -

<b>Sub-Total</b>	\$ 4,407.60
<b>Applicable Surcharge @ 10%</b>	\$ 440.76
	<hr/>
<b>Subtotal</b>	\$ 4,848.36
<b>GST</b>	\$ 242.42
	<hr/>
<b>Total</b>	\$ 5,090.78
	<hr/>



Summary of Geological, Geophysical and GIS technical mapping consulting fees related to compilation of previous technical work  
by Kerr Addison Mines Ltd. Et all (April 18 to June 30, 2010)

	CDN	GST
<b>Preparation of Field Maps and Field Program Design, Client Liason (April 18 - 24, 2010)</b>		
Carl von Einsiedel, PGeo 13 Hours charges @ \$90	\$ 1,170.00	\$ 58.50
Dorian Leslie 7 Hours charged @ \$60	\$ 420.00	\$ 21.00
<b>Compilation of soil sample and rock sample database (Aris Report No.s 11381 and 18582), geo-referencing technical drawings, digitizing sample locations, data entry for copper, lead, and zinc, tructural modelling using TRIM and detail illustration model (April 15 - June 15, 2010)</b>		
Carl von Einsiedel, PGeo 54 hours charged @ \$90	\$ 4,860.00	\$ 243.00
Dorian Leslie 82 hours charged @ \$60	\$ 4,920.00	\$ 246.00
<b>Dudley Thompson Mapping Corporation Inc.</b> Aerial Photography and Digital Mapping Invoice 505 June 14, 2010	\$ 2,706.00	\$ 135.30

	CDN	GST
<b>Review of Historic Assessment Reports and Compilation of historic Kennedy River claim ownership Maps (June 15 - 30, 2010)</b>		
<b>James Thom</b> 58 Hours @ \$40	\$ 1,880.00	\$ 94.00
<b>Dorian Leslie</b> 36 hours @ \$60	\$ 2,160.00	\$ 108.00
<b>Preparation of technical report for assessment filing with BCMEM as per SOW 4692311 and SOW 4719853 (June 15 - 30, 2010)</b>		
<b>Carl von Einsiedel, PGeo</b> 14 hours @ \$90	\$ 1,260.00	\$ 63.00
<b>Dorian Leslie</b> 11 hours @ \$60	\$ 660.00	\$ 33.00
<b>Large format technical drawings to accompany assessment report</b> 8 large format (2x3') drawings @ \$8.50 per sq. foot	\$ 408.00	\$ 20.40
<b>Integrated Land Management Bureau: Base Map online store</b> Invoice 44372	\$ 400.00	\$ 24.00
Invoice 44357	\$ 200.00	\$ 12.00
Invoice (pending) - Previous Topographic Mapping	\$ 200.00	\$ 12.00

<b>Sub-Total</b>	\$ 21,244.00
<b>Applicable Surcharge @ 10%</b>	\$ 2,124.40
<b>Subtotal</b>	\$ 23,368.40
<b>GST</b>	\$ 1,176.42
<b>Total</b>	\$ 24,544.82

**Listing of Sample Analysis Expenses**

	CDN	GST
<b>ALS Chemex</b>		
Invoice 2103566	\$ 858.54	\$ 42.93
Invoice 2104117	\$ 2,900.99	\$ 145.05
Invoice 2104120	\$ 2,370.89	\$ 118.54
<b>Soil and rock sample bags, consumables etc. from stock</b>		
approx 600 soil samples @ \$0.25, 100 rock samples @ \$0.50	\$ 200.00	\$ 10.00

<b>Sub-Total</b>	\$ 6,330.42
<b>Applicable Surcharge @ 10%</b>	\$ 633.04
<b>Subtotal</b>	\$ 6,963.46
<b>GST</b>	\$ 338.17
<b>Total</b>	\$ 7,301.64

**Listing of BCMEM Filing Fees**

	CDN	GST
<b>BCMEM filing fees</b>		
6/17/2010 SOW 4692311	\$ 321.21	\$ -
6/30/2010 SOW 4719853	\$ 1,374.60	\$ -

<b>Sub-Total</b>	<u>\$ 1,695.81</u>
<b>Applicable Surcharge @ 10%</b>	<u>\$ 169.58</u>
<b>Subtotal</b>	<u>\$ 1,865.39</u>
<b>GST</b>	<u>\$ -</u>
<b>Total</b>	<u><u>\$ 1,865.39</u></u>

**ITEM 13: DRILLING**

No drilling was carried out on the Kennedy River Property by Gonzaga Resources Inc. There has been no historic drilling on the Kennedy Lake Property.

**ITEM 14: SAMPLING METHOD AND APPROACH**

The objective of sampling program carried out by Gonzaga was to verify the presence of the G-1 Target identified by Kerr Addison Mines and to delineate the extent of the overburden covered mineralized zone.

The soil geochemical survey in the area of the G-1 Target covers an area of approximately 2.7 square kilometers. Samples were taken at irregularly spaced intervals in between Kerr Addison's L44+00 N and L 41+00N lines. Samples were collected with conventional soil augers. Samples were collected at stations from depths between 20cm and 50cm. All samples were placed in Kraft paper sample bags, sealed and labeled with a unique sample numbers. The location of each sample was noted, in UTM coordinates (NAD 83 Zone 10), with the aid of a hand-held GPS (Garmin 60Cx; accuracy  $\pm 5m$ ). The samples were then shipped by the author to the ALS Chemex laboratory in North Vancouver. See Section 15 for details on analytical methods.

**ITEM 15: SAMPLE PREPARATION, ANALYSIS AND SECURITY**

The published technical reports which detail previous exploration work on the Kennedy Lake Property indicate that standard QA and QC procedures were implemented by the laboratories that analyzed the samples and that the variability of all reported analyses are within acceptable industry standards.

The samples collected during the 2010 program were collected by independent geologists and field technicians. During the field program samples were stored in vehicles that were used in completion of the field work and were transported to the authors residence in Mission BC by the project geologist James Thom. All samples were checked for sample identification numbers and overall quality by the author and were transported by the author to the ALS Chemex facility in North Vancouver.

All samples collected during the 2010 exploration program were submitted to ALS Chemex, of North Vancouver, for analysis. The -80 micrometer mesh sieved fraction of the soil samples was dissolved in an aqua regia solution (3:1 mixture of hydrochloric and nitric acid) and analyzed for a series of elements by ICP-AES. The Elements analyzed for and the detection limits are listed in Table 12.5.1. ALS Chemex employs standard QA and QC protocols on all sample analyses including inserting one blank, reference standard and duplicate analysis in every twenty samples analyzed. Based on the fact that the sampling program was designed to verify and follow up previous exploration work completed by Kerr Addison in

1987 no additional QA and QC procedures were implemented as part of the program. Sample Certificates from the 2010 exploration program are included in Appendix 2.

In the authors opinion the sample security employed by the field personnel involved in the sample collection and the sample preparation and analytical procedures employed by ALS Chemex are adequate for the exploration program carried out by Gonzaga Resources Inc. on the Kennedy Lake Property.

Table 2: Elements analyzed by ICP-AES and their lower detection limit

Element	LDL	Element	LDL	Element	LDL	Element	LDL	Element	LDL
Cd	0.5 ppm	K	0.01 %	Ni	1.0 ppm	Al	0.01 %	Zn	2 ppm
Co	1.0 ppm	La	10 ppm	P	10 ppm	Th	20 ppm	As	2 ppm
Cr	1.0 ppm	Mg	0.01 %	Pb	2.0 ppm	Ti	0.01 %	B	10 ppm
Cu	1.0 ppm	Ag	0.2 ppm	S	0.01 %	Tl	10 ppm	Ba	10 ppm
Fe	0.01 %	Mn	5.0 ppm	Sb	2 ppm	U	10 ppm	Be	0.5 ppm
Ga	10 ppm	Mo	1.0 ppm	Sc	1 ppm	V	1 ppm	Bi	2 ppm
Hg	1.0 ppm	Na	0.01%	Sr	1 ppm	W	10 ppm	Ca	0.01 %

ALS Vancouver is in compliance for the requirements of ISO 9001:2000 through February 12, 2011 (ALS Laboratory Group, 2010). ALS Vancouver is accredited through the Standards Council of Canada (SCC) for Metallic Ores and Products Mineral Analysis testing for several techniques including Fire Assay with an Atomic Absorption (AA) finish, Fire Assay with a gravimetric finish and ICP-AES using a four acid digestion.

**ITEM 16: DATA VERIFICATION**

The present Kennedy River Property covers the soil geochemical survey grids completed by Kerr Addison (including the G-1 and Westering 2 gold occurrences), possible strike extensions of several nearby gold occurrences (including the Au Prospect, the Esther Prospect and the Tommy Zone). Kerr Addison Mines reported anomalous soil sample results and anomalous rock sample results from sampling completed within the G-1 Target Area. Soil and rock sampling completed by Gonzaga Resources has verified the results reported by Kerr Addison and in the author’s opinion the historic technical data can reasonably be incorporated into the database for the Kennedy River Project.

The compilation work carried out by Gonzaga Resource Corp. involved geo-referencing the historic technical maps from Kerr Addison, digitizing the UTM locations of the reported soil and rock sample sites and entering the historic assay data into a GIS database. A total of 220 new soil samples were incorporated into the database for the Kennedy Lake property. The soil sample assay results appear to be consistent between the results reported by Kerr Addison in 1987 and the results reported by ALS Chemex during the 2010 exploration program. It is the authors' opinion that the Kerr Addison soil sampling data can be reasonably incorporated into the database for the Kennedy Lake Property.

#### **ITEM 17: ADJACENT PROPERTIES**

The Kennedy Lake Property is located in the Kennedy River Gold District. Regional geological maps published by the BC Ministry of Energy and Mines (BCMEM) show that the claim area covers a northwest trending package of Triassic aged Karmutsen volcanics and sedimentary rocks cut by a series of northwest and east-west trending shear zones and northeast trending sheeted fractures. According to the BCMEM Minfile database the project area hosts numerous gold occurrences. Figure 4 shows the ownership of the adjoining mineral claims relative to known mineral occurrences in the KRGD.

The **G4G Resources property** covers both east and west sides of Kennedy River and lies between the Kennedy River Property North and South Properties. The G4G property is underlain by the Karmutsen Formation of the Vancouver Group. A number of structures cut these volcanic rocks some of which are known to host mineralization. Ten of these mineralized structures have seen periodic development and production are known in the Minfile records as Tommy K (Minfile no. 92F033), Shack (Minfile no. 92F045), Bear (Minfile no. 92F044), TB (Minfile no. 92F096), Ruth (Minfile no. 92F049), Gold Queen (Minfile no. 92F052), Grant (Minfile no. 92F048), Jo Jo (Minfile no. 92F047), Bessie B (Minfile no. 92F050), Esther (Minfile no. 92F099), VRL-10 (Minfile no. 92F480) mineral occurrences.

The **Crossfire Ventures property** is located on the east side of Kennedy River at the south eastern end of the Kennedy River Property. The Crossfire Ventures property is underlain by the Karmutsen Formation of the Vancouver Group. A number of structures cut these volcanic rocks some of which are known to host mineralization. Three mineralized structures that have seen periodic development and production are known in the Minfile records as Leora (MinFile no. 92F031), Au (Minfile no. 92F121) and Au north (Minfile no. 92F028) mineral occurrences.

#### **ITEM 18: MINERAL PROCESSING AND METALLURGICAL TESTING**

There is no mineral processing or metallurgical testing data available from the Kennedy Lake Property.

**ITEM 19: MINERAL RESOURCE AND MINERAL RESERVE ESTIMATE**

There is no mineral resource compliant with CIM Standards on Mineral Resources and Reserves (CIM, 2000) and therefore no NI 43-101 compliant resource for the Kennedy Lake Property.

**ITEM 20: OTHER RELEVANT DATA AND INFORMATION**

There is no other relevant data or information concerning the Kennedy Lake Property.



## **ITEM 21: INTERPRETATION AND CONCLUSIONS**

The geology of the Kennedy River Gold District is prospective for intrusion related gold deposits comprising wide zones of northeast oriented quartz veins and narrow east west trending, discrete quartz veins. Previous exploration work completed by Teck Exploration and Kerr Addison Mines identified several mineralized zones that have not been systematically tested.

The most significant target area within the Kennedy River Property is referred to as the G-1 Zone. Between April and June of 2010 Gonzaga Resources compiled the historic technical data for the project area and completed a program of soil sampling, rock sampling and deep penetrating 3D IP geophysical surveys to evaluate the G-1 Zone.

The soil geochemical survey results and the results of the 3D IP survey confirmed there is a co-incident gold in soil and chargeability anomaly associated with the sheeted vein type mineralization at the G-1 Target. Within the core of the anomaly soil sample assays ranged from several tens of ppb to several hundred ppb with spot high values of up to 1,455 and 2,030 ppb. Rock sampling where the sheeted vein zones are exposed in the southern part of the anomalous zone returned 1.245 g/t gold over a 5 meter interval and confirmed the results of previous sampling reported by Kerr Addison Mines. The presence of a chargeability anomaly directly associated with the elevated gold in soil values suggest the G-1 Target is more extensive than previously recognized. The soil geochemical anomaly and the IP anomaly are over 200 meters wide, both are open to the southwest and there is a second chargeability anomaly that has not been explained to the north of the main anomaly. These anomalies may represent a mineralized zone localized at the intersection of two structural trends that both host gold mineralization and it is recommended that additional detailed soil geochemical surveys and small scale trenching be completed to delineate the extent of mineralization.

In addition to the G-1 Target the current Property hosts several other target areas including the Westering 2 sheeted vein zone located approximately one kilometer north of the G-1 Target, the western part of the Au Zone (located in the eastern part of the claim area) and the projected northeast extension of the Tommy Zone into the claim block in the northern part of the project area.

**ITEM 22:       RECOMMENDATIONS**

In the authors opinion the Kennedy River Property is a Property of merit and warrants additional exploration. Stage 1 should consist of detailed geological mapping and additional soil geochemical surveys in the south western part of the property to delineate possible strike extensions of the G-1 Target to the southwest, detailed soil geochemical surveys and additional structural modelling to assess the Westering 2 Target, reconnaissance scale geochemical surveys to determine if there are any extensions of the Tommy Zone to the northeast and an examination of the soil geochemical anomalies identified by Teck and Multinational Minerals (referred to as the Au Zone) in the eastern part of the present claim group. The estimated cost of Stage 1 is \$220,000.

In the event that Stage 1 delineates any significant new zones of sheeted vein type mineralization a follow up program of 3D IP surveys would be warranted to delineate the extent of the mineralized zones at depth and to prioritize areas for drill testing. The estimated cost of Stage 2 would be \$440,000.

Proposed Stage 1 Exploration Program

Engineering and project supervision, reports	\$ 25,000
Field costs, vehicle rentals	12,500
Crew travel expenses, accommodation	12,500
Reconnaissance soil survey grids (G-1 Target)	
-soil sample collection for 1,000 samples	50,000
-soil sample assays	25,000
Reconnaissance soil surveys (Westering, Au and Tommy Ext.)	
-soil sample collection for 1,000 samples	50,000
-soil sample assays	25,000
Contingency @ 10%	20,000
	_____
Total estimated cost of Stage 1	\$220,000

Proposed Stage 2 Exploration Program

Engineering and project supervision, reports	\$ 25,000
Field costs, vehicle rentals accommodation	25,000
Geological mapping, supervision of trenching program	50,000
-trenching allowance	75,000
Ground geophysical surveys (3D IP)	
-allowance for up to 3 survey grids @ \$75,000	225,000
Contingency @ 10%	40,000
	_____
Total estimated cost of Stage 2	\$440,000

**ITEM 24:      DATE AND SIGNATURE PAGE**

\_\_\_\_\_  
Carl von Einsiedel, P.Geo.

Dated at Vancouver, B.C. this 30<sup>th</sup> day of July, 2010

## ITEM 23: SOURCES OF INFORMATION

ALS Laboratory Group, 2010. ALS Website showing ISO 9001:2000 accreditation, <http://www.alsglobal.com/mineralQualityAssurance.aspx>. Accessed April 19 2010.

BC Ministry of Energy and Mines online database and BCMEM Minfile Listing: <http://www.empr.gov.bc.ca/Mining/Geoscience/geoData/Pagers/default.aspx>

EMPR AR 1935-F48

EMPR AR 1927-C343

EMPR AR 1916-K329

EMPR AR 1913-K278

Folk, P., 1984. Report on the geological, geochemical, magnetometer surveys, and diamond drilling conducted on the AU 1-8 Claim. Assessment Report Indexing System: 12725.

Henneberry, R.T., 1987. Economic potential of the Kennedy River Gold Camp, Vancouver Island, BC. Assessment Report No.15935 for Nationwide Gold Mines Corp. : Aug. 10, 1987

Keyser, H.J., 1984. Status report on the 1984 exploration work on the Lost Canyon Property. Assessment Report Indexing System: 15956.

Mueller, J.E., and Carson, D.J.T., 1968, Geology and Mineral Deposits of the Alberni Map Area (092F). Geological Survey of Canada Paper 68-50.

Olfert, E., 1985. Diamond drilling report on the Lost Canyon property. Assessment Report Indexing System: 15842.

Pawliuk, D.J., 1989. Drilling, geology and geophysical surveys on the Giant Bear Mineral Claim and the Captain Hook Mineral Claim. Assessment Report Indexing System: 18693.

Potter, R.P., 1987. Assessment report geological mapping and geochemical survey on the Westering Claim Group. Assessment Report Indexing System: 16729.

Potter, R.P., 1987. Assessment report geological mapping and diamond drilling on the United Tommy Claim Group.

Spilsbury, T.W., 1984. Report on the geological, geochemical, electromagnetic, and magnetometer surveys conducted on the Tommy, Golden Gate, and Waterfall Claims. Assessment Report Indexing System: 12767.

Spilsbury, T.W., Folk, P.G., Lovang, G., 1985. Report on trenching and sampling program on the Tommy Mineral Claim. Assessment Report Indexing System: 14279.

**ITEM 24: DATE AND SIGNATURE PAGE**

**CERTIFICATE OF QUALIFIED PERSON, CARL A. VON EINIEDEL**

I, Carl A. von Einsiedel, PGeo. hereby certify that:

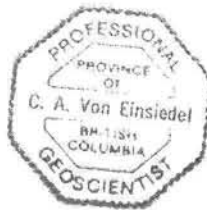
- 1) I am an independent consulting geologist with a business address at #907-609 Granville St., Vancouver, British Columbia V6C-1V5.
- 2) I am a graduate of Carleton University, Ottawa, Ontario (1989) with a B.Sc. in Geology.
- 3) I am a registered Professional Geologist in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC – License no. 21474).
- 4) I have worked as a geologist for a total of 21 years since graduation from university. I have work experience in most parts of Canada, as well as the United States and Mexico. I have gold deposit exploration experience in British Columbia and Mexico.
- 5) I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirement to be a "qualified person" for the purposes of NI 43-101.
- 6) I am responsible for all sections of the technical report titled "43-101 REVIEW OF TECHNICAL INFORMATION AND PROPOSED EXPLORATION PROGRAM FOR THE KENNEDY RIVER PROPERTY" prepared for Gonzaga Resources Ltd. dated July 30, 2010 (the "Technical Report") relating to the Kennedy River Property. I visited the property between May 5 and May 7, 2010 and again between June 25 and June 27, 2010.
- 7) I have not had prior involvement with the property that is the subject of the Technical Report.
- 8) I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
- 9) I am fully independent of the issuer applying all of the tests in section 1.4 of National Instrument 43-101
- 10) I have read National Instrument 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
- 11) I consent to the public filing of the Technical Report with the Ontario Securities Commission, the Alberta Securities Commission, and the British Columbia Securities Commission, any stock exchange and any other regulatory authority and any publication by them for regulatory purposes, including SEDAR filings and electronic publication in the public company files on their websites accessible by the public, of the Technical Report and to extracts from, or a summary of,

the Technical Report in the written disclosure being filed, by Gonzaga Resources Ltd. , in public information documents so being filed including any offering memorandum, preliminary prospectus and final prospectus provided that I am given the opportunity to read the written disclosure being filed and that it fairly and accurately represents the information in the Technical Report that supports the disclosure.

- 12) As of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.



Carl von Einsiedel, P.Geol.



Dated at Vancouver, B.C. this 30<sup>th</sup> day of July, 2010

## **APPENDIX 1: LIST OF REPORT FIGURES**

Fig. 1: REGIONAL LOCATOR MAP SHOWING PROPERTY LOCATION, EXISTING CLAIMS, PARKS, LOCAL COMMUNITIES AND ACCESS ROADS

Fig. 2: REGIONAL GEOLOGICAL MAP SHOWING BCMEM MINFILE EXPLORATION PROSPECTS

Fig. 3: PROJECT AREA MAP SHOWING TOPOGRAPHY, MINERAL TENURE REFERENCE NUMBERS AND LOCAL ACCESS ROADS

Fig. 4: PROJECT AREA MAP SHOWING BCMEM MINFILE PROSPECTS AND ADJOINING PROPERTY OWNERS

Fig.5: COMPILATION MAP SHOWING HISTORIC AND 2010 GEOCHEMICAL SURVEY GRIDS, HISTORIC PROPERTY BOUNDARIES AND CURRENT PROPERTY OUTLINE

Fig. 6: COMPILATION MAP SHOWING ORTHO-PHOTO CONTROL MAPPING COMPLETED IN 2010, INTERPRETED STRUCTURAL ZONES AND LOCATION OF MINFILE PROSPECTS

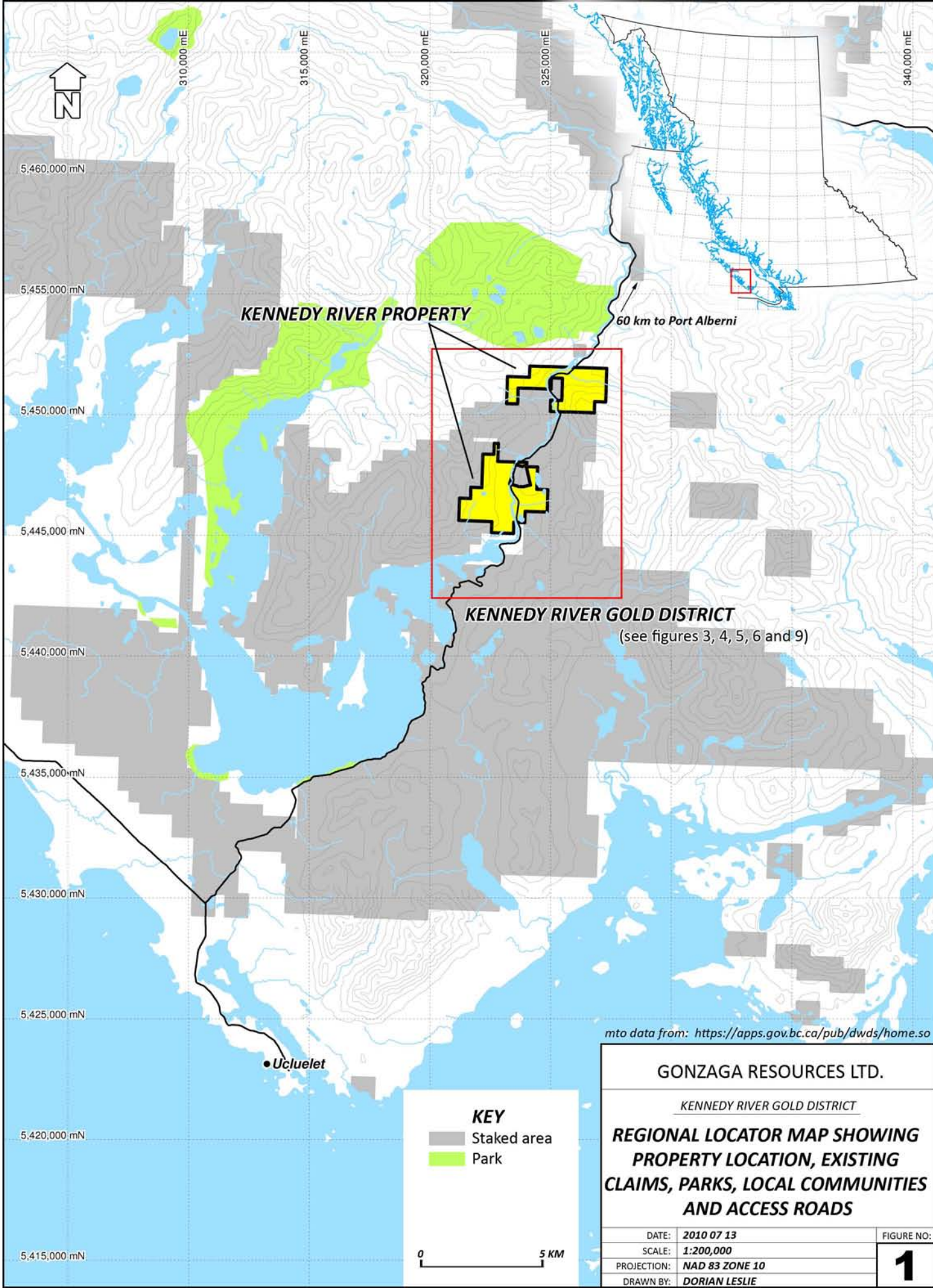
Fig. 7: DETAIL MAP OF THE SOUTH BLOCK SHOWING COMBINED HISTORIC AND 2010 SOIL GEOCHEMICAL DATA (GOLD) FOR THE G-1, AU AND WESTERING 2 TARGETS

Fig. 8: DETAIL MAP OF THE G-1 TARGET SHOWING COMBINED HISTORIC AND 2010 SOIL GEOCHEMICAL DATA AND INTERPRETED IP ANOMALIES

Fig. 9: PROJECT AREA MAP SHOWING PROPOSED STAGE 1 GEOCHEMICAL SURVEY GRIDS

### **LARGE FORMAT FIGURES**

LF1: LARGE FORMAT MAP SHOWING HISTORIC AND 2010 SOIL SAMPLES IN THE G1 TARGET AREA (1:2000 SCALE)



**KENNEDY RIVER PROPERTY**

60 km to Port Alberni

**KENNEDY RIVER GOLD DISTRICT**  
(see figures 3, 4, 5, 6 and 9)

• Ucluelet

**KEY**  
 ■ Staked area  
 ■ Park

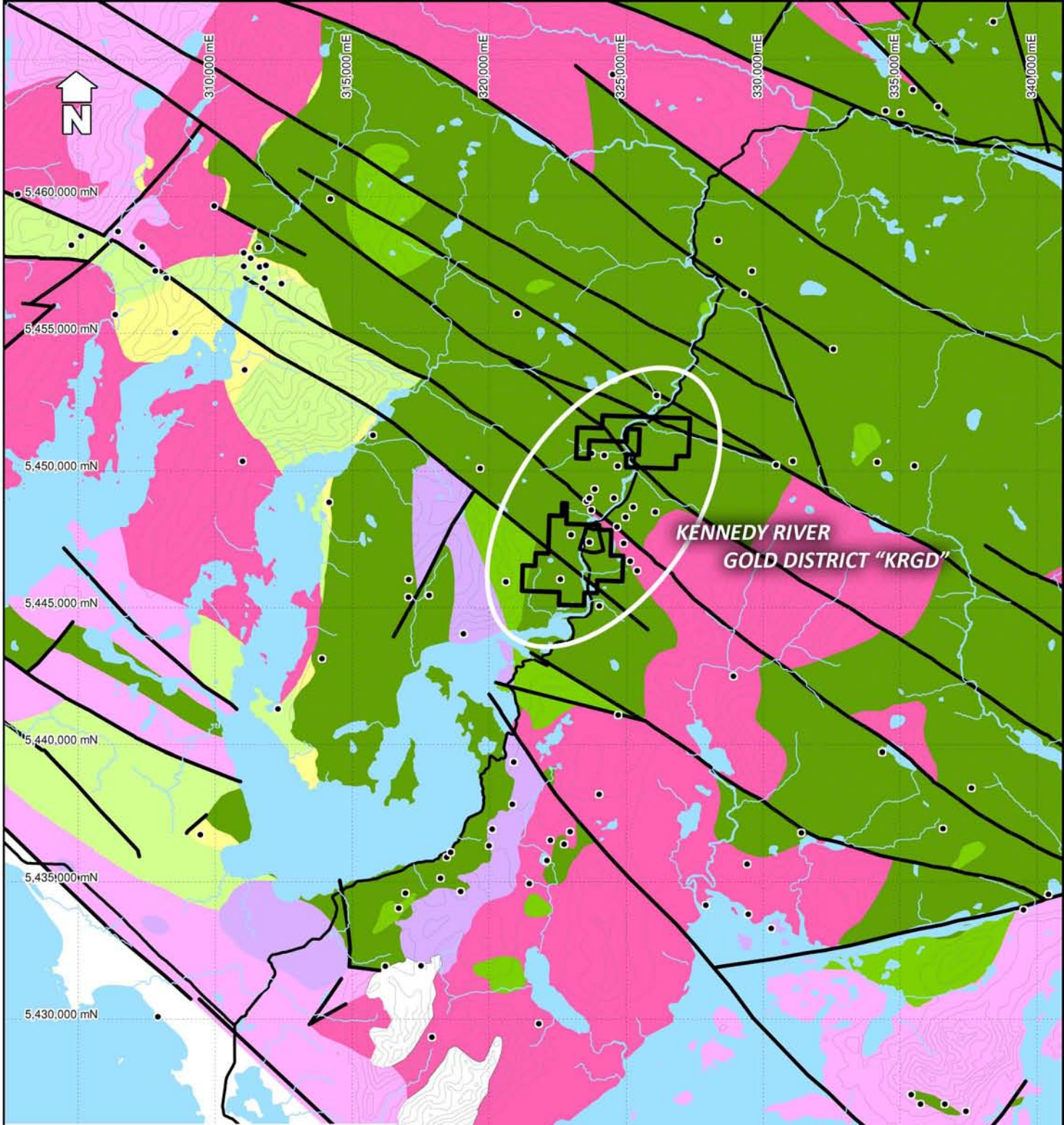
0 5 KM

mto data from: <https://apps.gov.bc.ca/pub/dwds/home.so>

**GONZAGA RESOURCES LTD.**  
 KENNEDY RIVER GOLD DISTRICT  
**REGIONAL LOCATOR MAP SHOWING  
 PROPERTY LOCATION, EXISTING  
 CLAIMS, PARKS, LOCAL COMMUNITIES  
 AND ACCESS ROADS**

DATE:	2010 07 13	FIGURE NO:	1
SCALE:	1:200,000		
PROJECTION:	NAD 83 ZONE 10		
DRAWN BY:	DORIAN LESLIE		





**KENNEDY RIVER  
GOLD DISTRICT "KRGD"**

**GEOLOGICAL LEGEND BY ROCK TYPE AND SUITE**

**Intrusive Rocks**

- Westcoast Crystalline Complex
- Clayoquot Plutonic Suite
- Island Plutonic Suite

**Volcanic and Sedimentary Rocks**

- Bonanza Group
- Sicker Group
- Vancouver Group
- Buttle Lake Group

• Minfile location

map data from: [www.mapplace.ca](http://www.mapplace.ca)

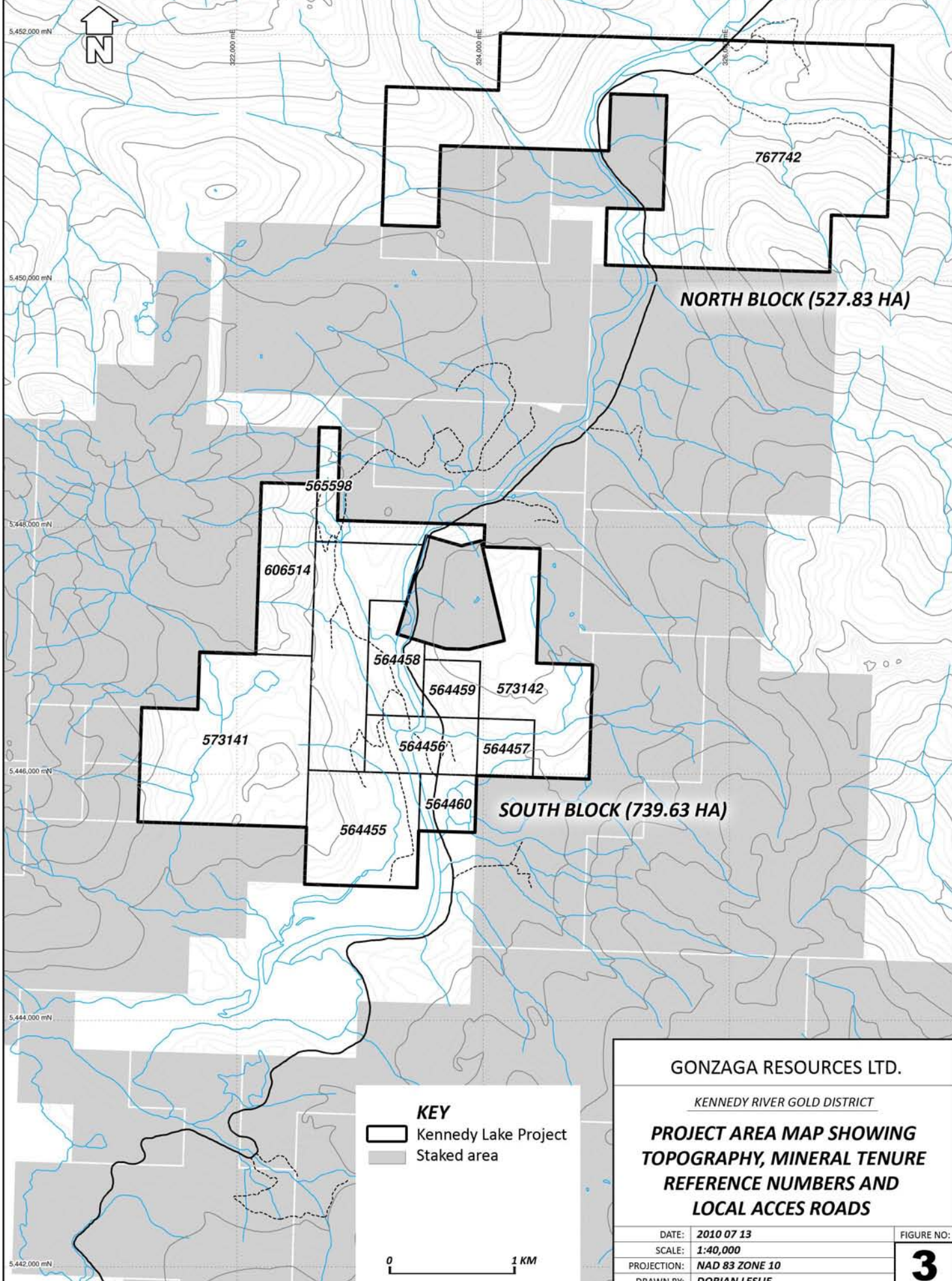
**GONZAGA RESOURCES LTD.**

*KENNEDY RIVER GOLD DISTRICT*

**REGIONAL GEOLOGICAL MAP  
SHOWING BCMEM MINFILE  
EXPLORATION PROSPECTS**

DATE:	2010 07 13	FIGURE NO:
SCALE:	1:200,000	<b>2</b>
PROJECTION:	NAD 83 ZONE 10	
DRAWN BY:	DORIAN LESLIE	

60 km to Port Alberni



**NORTH BLOCK (527.83 HA)**

**SOUTH BLOCK (739.63 HA)**

**KEY**

- Kennedy Lake Project
- Staked area



**GONZAGA RESOURCES LTD.**

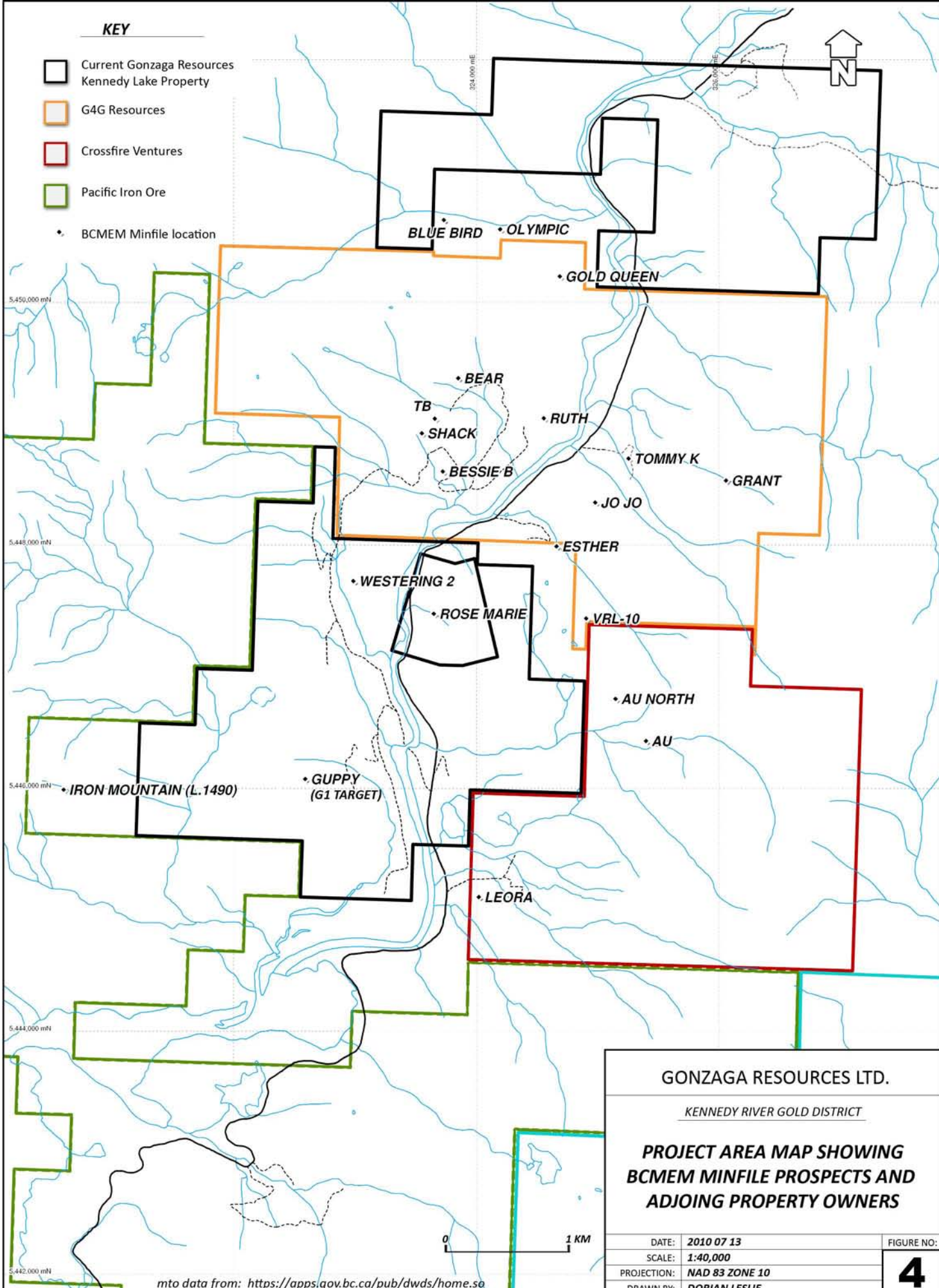
*KENNEDY RIVER GOLD DISTRICT*

**PROJECT AREA MAP SHOWING  
TOPOGRAPHY, MINERAL TENURE  
REFERENCE NUMBERS AND  
LOCAL ACCES ROADS**

DATE:	2010 07 13	FIGURE NO:	<b>3</b>
SCALE:	1:40,000		
PROJECTION:	NAD 83 ZONE 10		
DRAWN BY:	DORIAN LESLIE		

**KEY**

- Current Gonzaga Resources Kennedy Lake Property
- G4G Resources
- Crossfire Ventures
- Pacific Iron Ore
- BCMEM Minfile location



**GONZAGA RESOURCES LTD.**

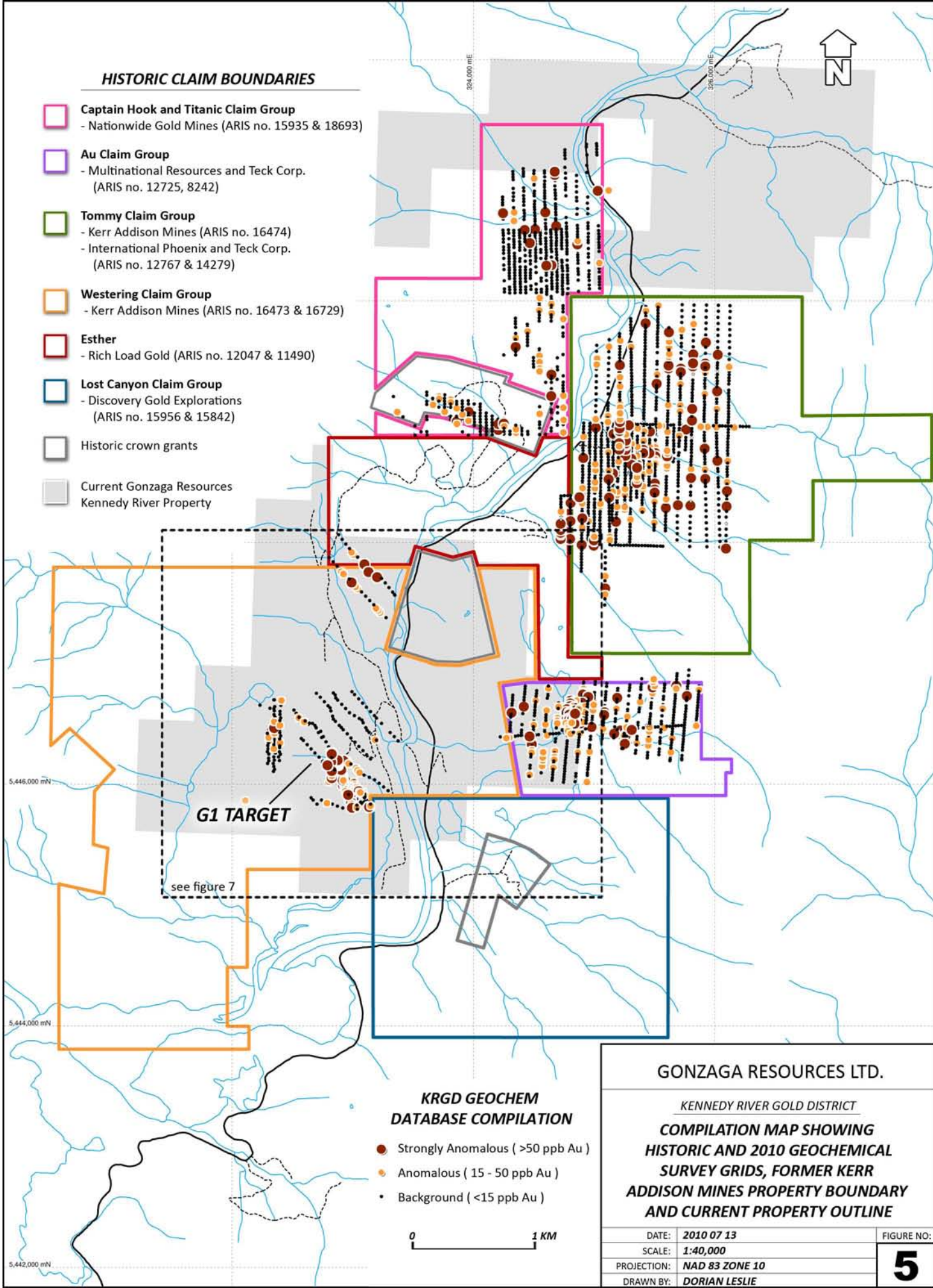
*KENNEDY RIVER GOLD DISTRICT*

**PROJECT AREA MAP SHOWING  
BCMEM MINFILE PROSPECTS AND  
ADJOINING PROPERTY OWNERS**

DATE:	2010 07 13	FIGURE NO:
SCALE:	1:40,000	<b>4</b>
PROJECTION:	NAD 83 ZONE 10	
DRAWN BY:	DORIAN LESLIE	

**HISTORIC CLAIM BOUNDARIES**

- Captain Hook and Titanic Claim Group**  
- Nationwide Gold Mines (ARIS no. 15935 & 18693)
- Au Claim Group**  
- Multinational Resources and Teck Corp.  
(ARIS no. 12725, 8242)
- Tommy Claim Group**  
- Kerr Addison Mines (ARIS no. 16474)  
- International Phoenix and Teck Corp.  
(ARIS no. 12767 & 14279)
- Westering Claim Group**  
- Kerr Addison Mines (ARIS no. 16473 & 16729)
- Esther**  
- Rich Load Gold (ARIS no. 12047 & 11490)
- Lost Canyon Claim Group**  
- Discovery Gold Explorations  
(ARIS no. 15956 & 15842)
- Historic crown grants
- Current Gonzaga Resources  
Kennedy River Property



**KRGD GEOCHEM  
DATABASE COMPILATION**

- Strongly Anomalous (>50 ppb Au)
- Anomalous (15 - 50 ppb Au)
- Background (<15 ppb Au)



**GONZAGA RESOURCES LTD.**

*KENNEDY RIVER GOLD DISTRICT*  
**COMPILATION MAP SHOWING  
HISTORIC AND 2010 GEOCHEMICAL  
SURVEY GRIDS, FORMER KERR  
ADDISON MINES PROPERTY BOUNDARY  
AND CURRENT PROPERTY OUTLINE**

DATE: 2010 07 13

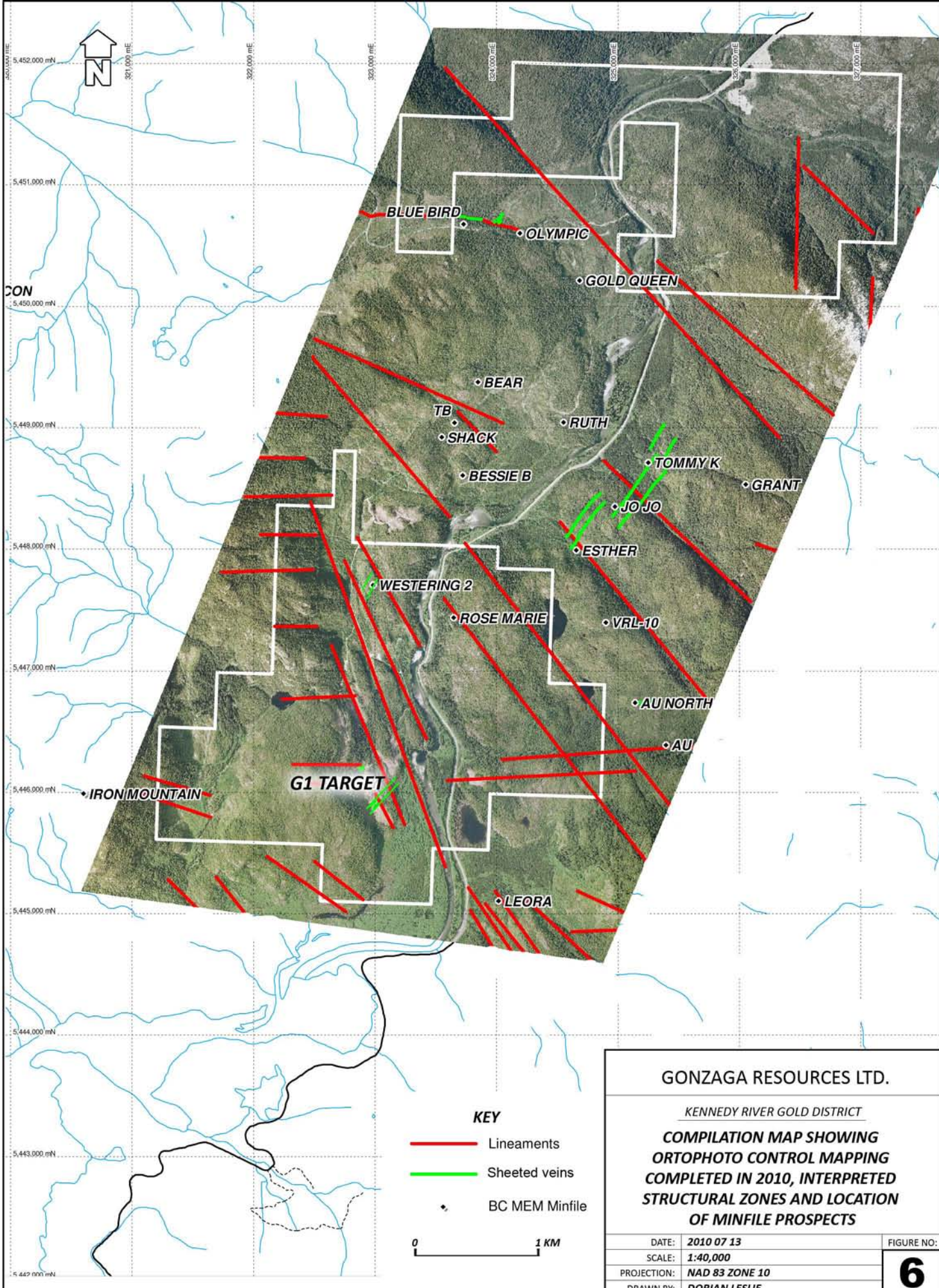
SCALE: 1:40,000

PROJECTION: NAD 83 ZONE 10

DRAWN BY: DORIAN LESLIE

FIGURE NO:

**5**



- KEY**
- Lineaments
  - Sheeted veins
  - BC MEM Minfile

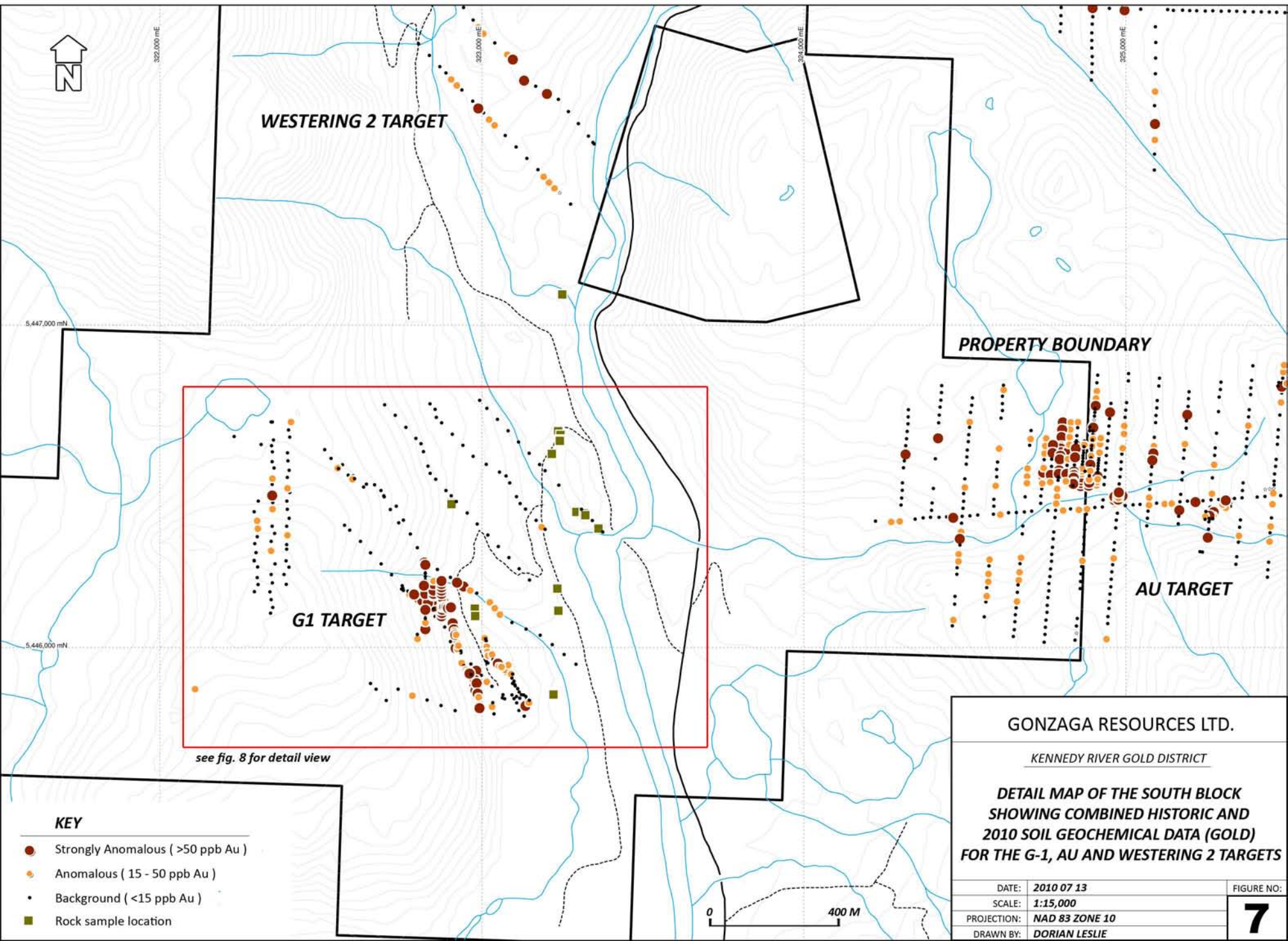


**GONZAGA RESOURCES LTD.**

*KENNEDY RIVER GOLD DISTRICT*

**COMPILATION MAP SHOWING  
ORTOPHOTO CONTROL MAPPING  
COMPLETED IN 2010, INTERPRETED  
STRUCTURAL ZONES AND LOCATION  
OF MINFILE PROSPECTS**

DATE:	2010 07 13	FIGURE NO:
SCALE:	1:40,000	<b>6</b>
PROJECTION:	NAD 83 ZONE 10	
DRAWN BY:	DORIAN LESLIE	



**WESTERING 2 TARGET**

**PROPERTY BOUNDARY**

**G1 TARGET**

**AU TARGET**

*see fig. 8 for detail view*

**KEY**

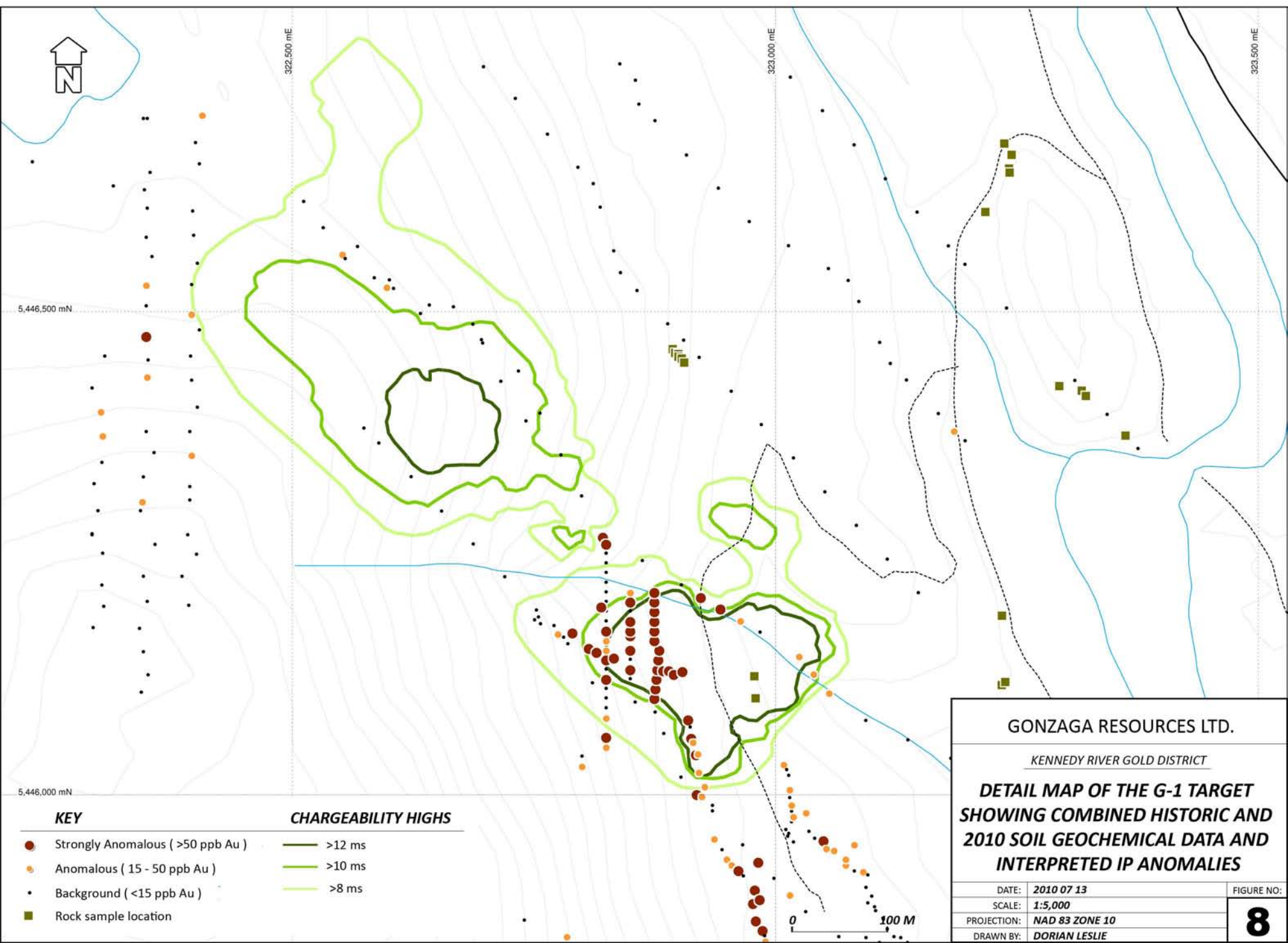
- Strongly Anomalous ( >50 ppb Au )
- Anomalous ( 15 - 50 ppb Au )
- Background ( <15 ppb Au )
- Rock sample location

**GONZAGA RESOURCES LTD.**

*KENNEDY RIVER GOLD DISTRICT*

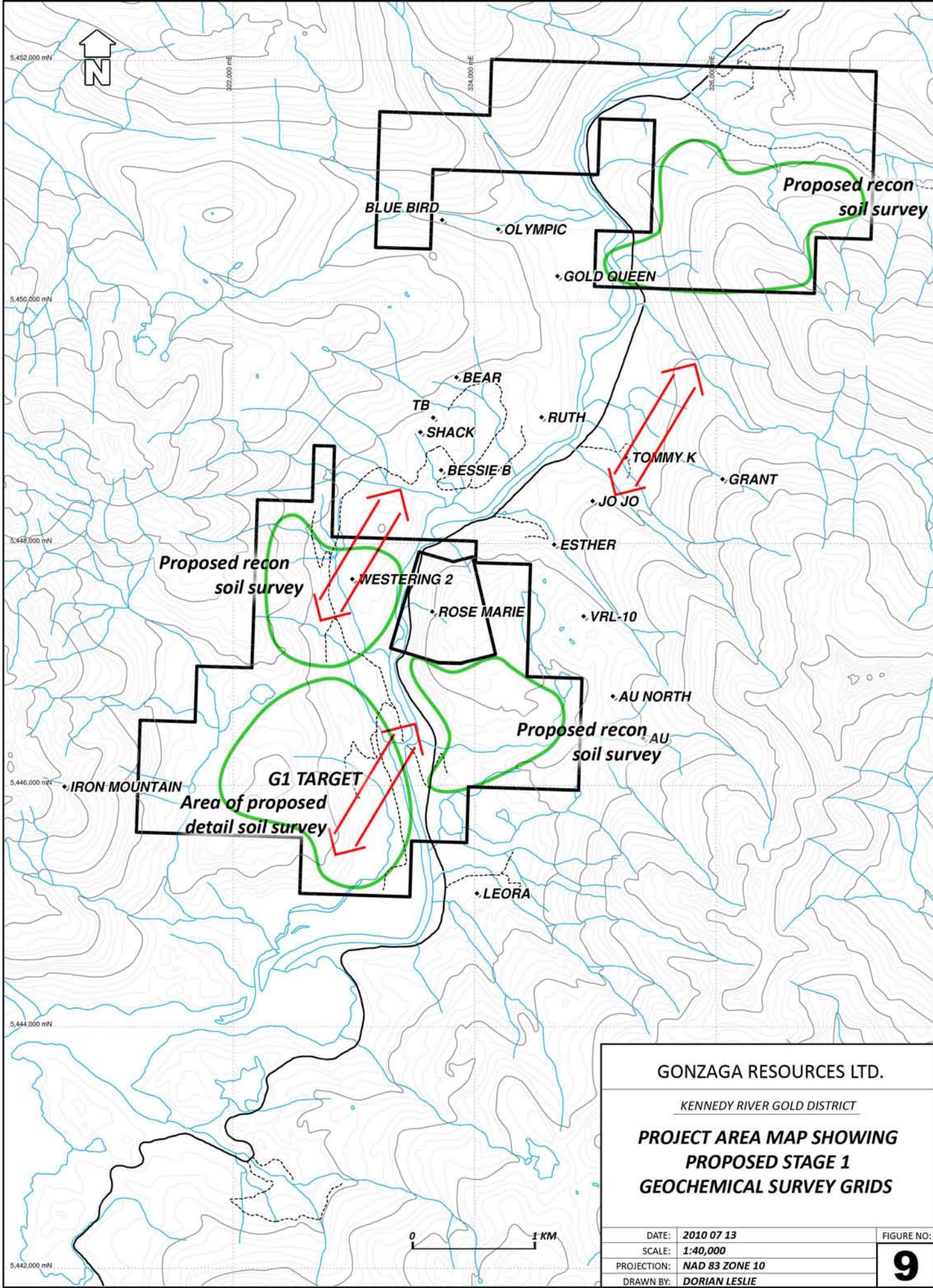
**DETAIL MAP OF THE SOUTH BLOCK  
SHOWING COMBINED HISTORIC AND  
2010 SOIL GEOCHEMICAL DATA (GOLD)  
FOR THE G-1, AU AND WESTERING 2 TARGETS**

DATE:	2010 07 13	FIGURE NO:
SCALE:	1:15,000	<b>7</b>
PROJECTION:	NAD 83 ZONE 10	
DRAWN BY:	DORIAN LESLIE	



KEY		CHARGEABILITY HIGHS	
<span style="color: red;">●</span>	Strongly Anomalous (>50 ppb Au)	<span style="color: darkgreen;">—</span>	>12 ms
<span style="color: orange;">●</span>	Anomalous (15 - 50 ppb Au)	<span style="color: lightgreen;">—</span>	>10 ms
<span style="color: black;">●</span>	Background (<15 ppb Au)	<span style="color: yellow;">—</span>	>8 ms
<span style="color: green;">■</span>	Rock sample location		

<b>GONZAGA RESOURCES LTD.</b>		
<i>KENNEDY RIVER GOLD DISTRICT</i>		
<b>DETAIL MAP OF THE G-1 TARGET SHOWING COMBINED HISTORIC AND 2010 SOIL GEOCHEMICAL DATA AND INTERPRETED IP ANOMALIES</b>		
DATE:	2010 07 13	FIGURE NO:
SCALE:	1:5,000	<b>8</b>
PROJECTION:	NAD 83 ZONE 10	
DRAWN BY:	DORIAN LESLIE	



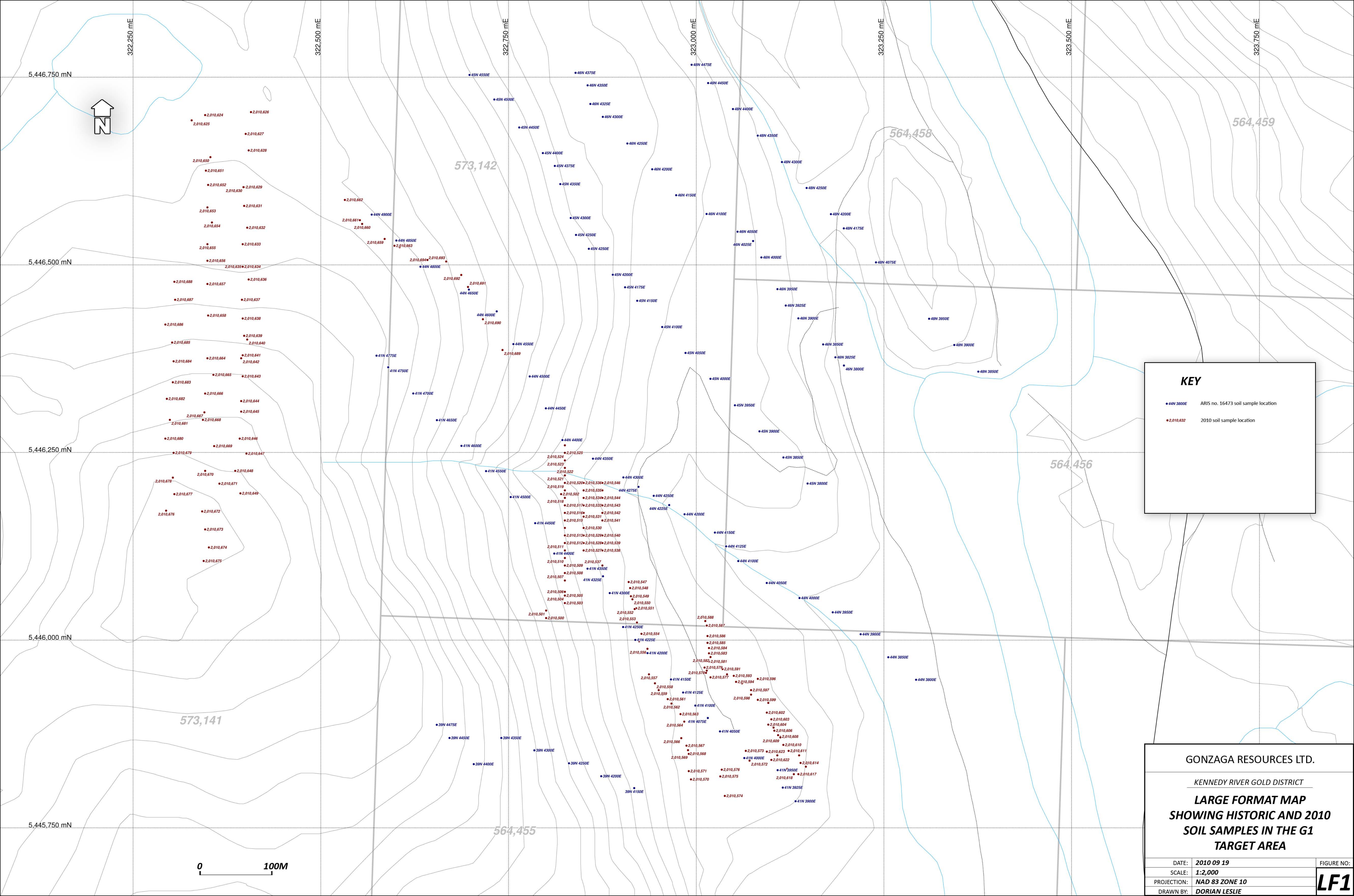
GONZAGA RESOURCES LTD.

KENNEDY RIVER GOLD DISTRICT

**PROJECT AREA MAP SHOWING  
PROPOSED STAGE 1  
GEOCHEMICAL SURVEY GRIDS**

DATE:	2010 07 13	FIGURE NO.:	<b>9</b>
SCALE:	1:40,000		
PROJECTION:	NAD 83 ZONE 10		
DRAWN BY:	DORIAN LESLIE		





**KEY**

- 44N 3800E ARIS no. 16473 soil sample location
- 2,010,632 2010 soil sample location

GONZAGA RESOURCES LTD.

KENNEDY RIVER GOLD DISTRICT

**LARGE FORMAT MAP  
SHOWING HISTORIC AND 2010  
SOIL SAMPLES IN THE G1  
TARGET AREA**

DATE:	2010 09 19	FIGURE NO:	
SCALE:	1:2,000		
PROJECTION:	NAD 83 ZONE 10		
DRAWN BY:	DORIAN LESLIE		

**LF1**



5446600 N

5446400 N

5446200 N

5446000 N

5445800 N

329000 E

329000 E

329000 E

329000 E

329000 E

329000 E

329000 E

329000 E

573142

564,458

564459

573141

564456

564455

564460

**KEY**

**Chargeability Highs**

- >12 ms
- >10 ms
- >8 ms

Claim boundary

**2010 and Historic Soil Geochemistry**

- >50 ppb Au
- 15 to 50 ppb Au
- <15 ppb Au
- all others

Access road

River

TRIM contour

0 100M

GONZAGA RESOURCES LTD.

KENNEDY RIVER GOLD DISTRICT

**LARGE FORMAT MAP  
SHOWING HISTORIC AND 2010  
SOIL SAMPLES IN THE G1  
TARGET AREA BY GOLD PPB**

DATE:	2010 09 19	FIGURE NO:	LF2
SCALE:	1:2,000		
PROJECTION:	NAD 83 ZONE 10		
DRAWN BY:	DORIAN LESLIE		

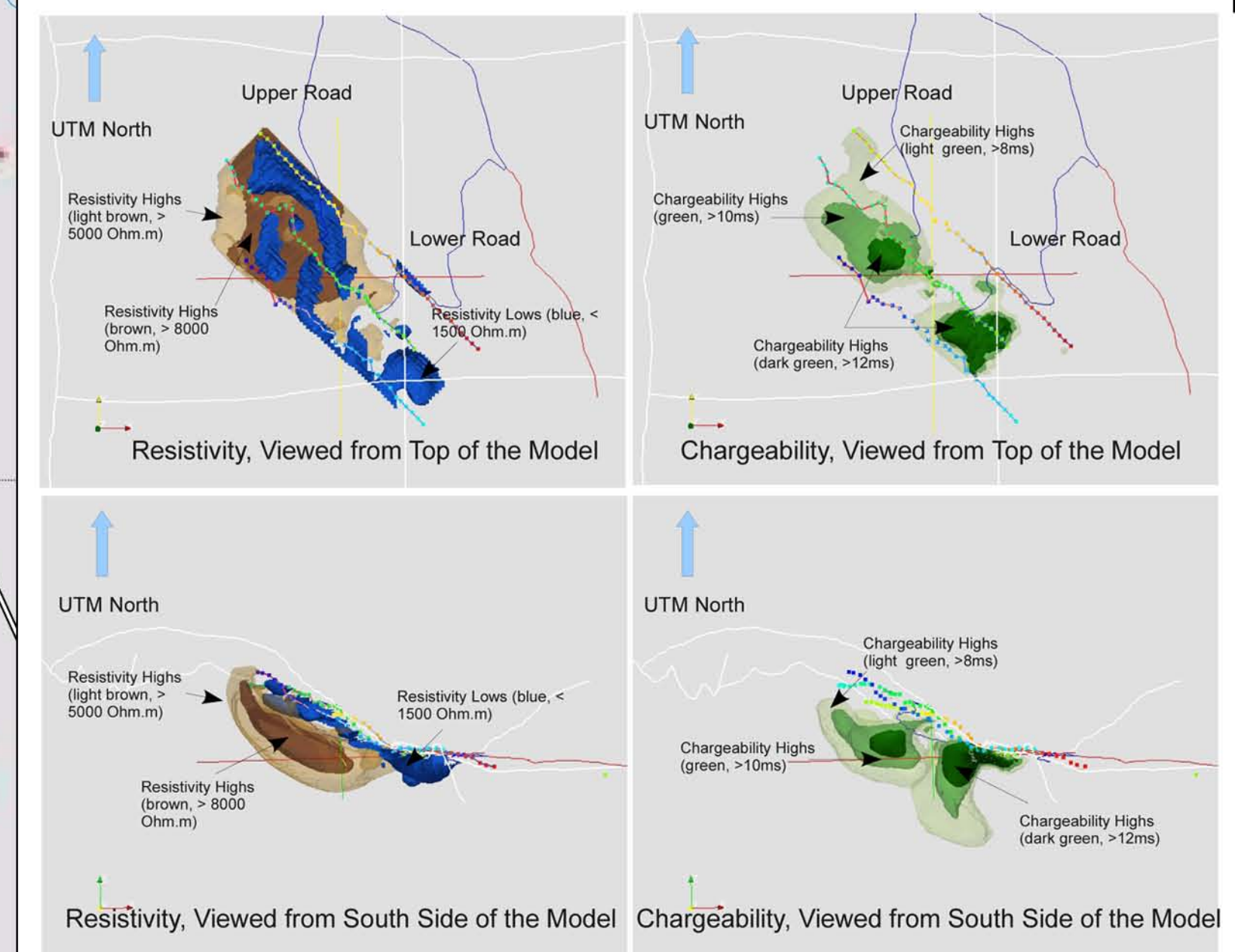
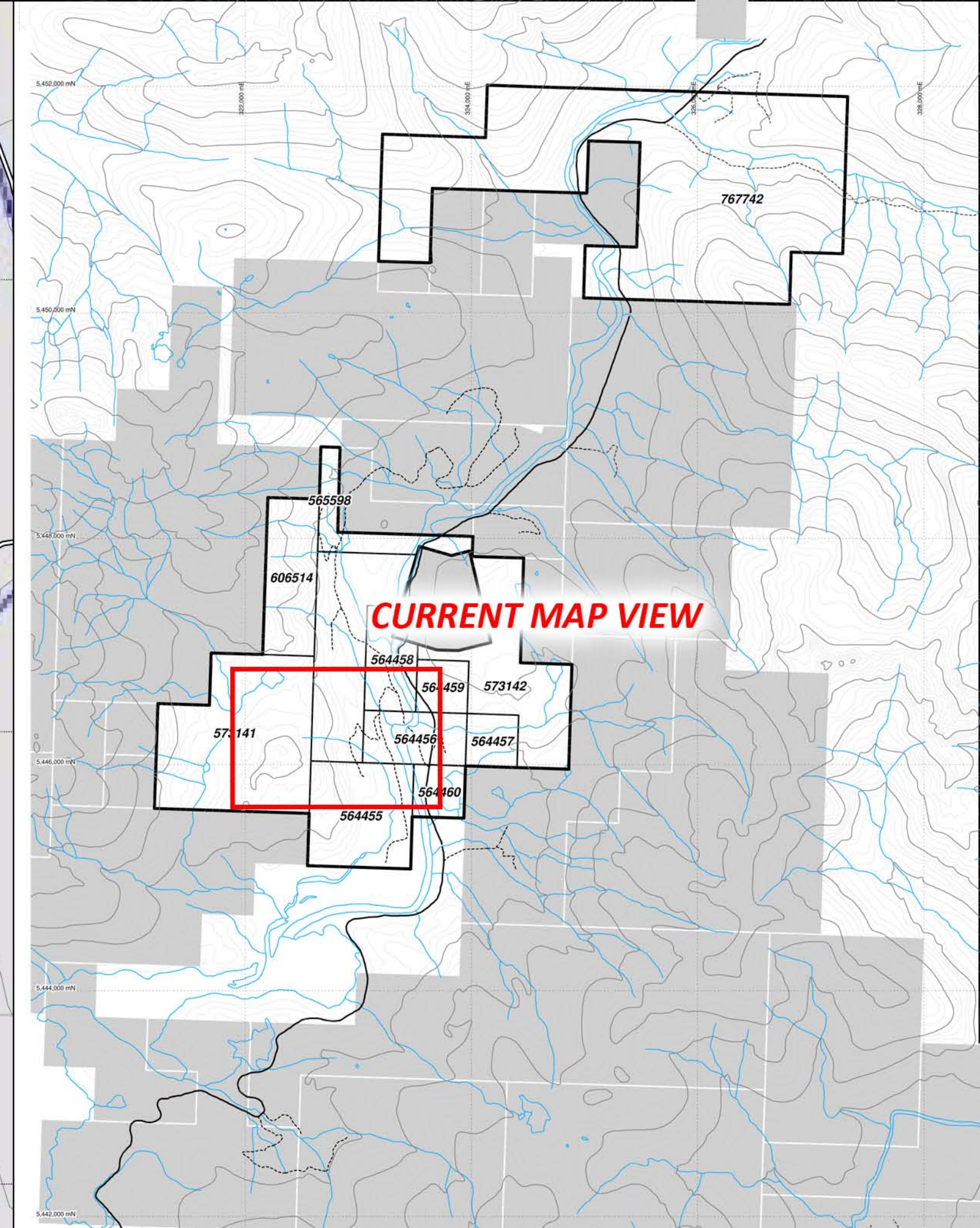
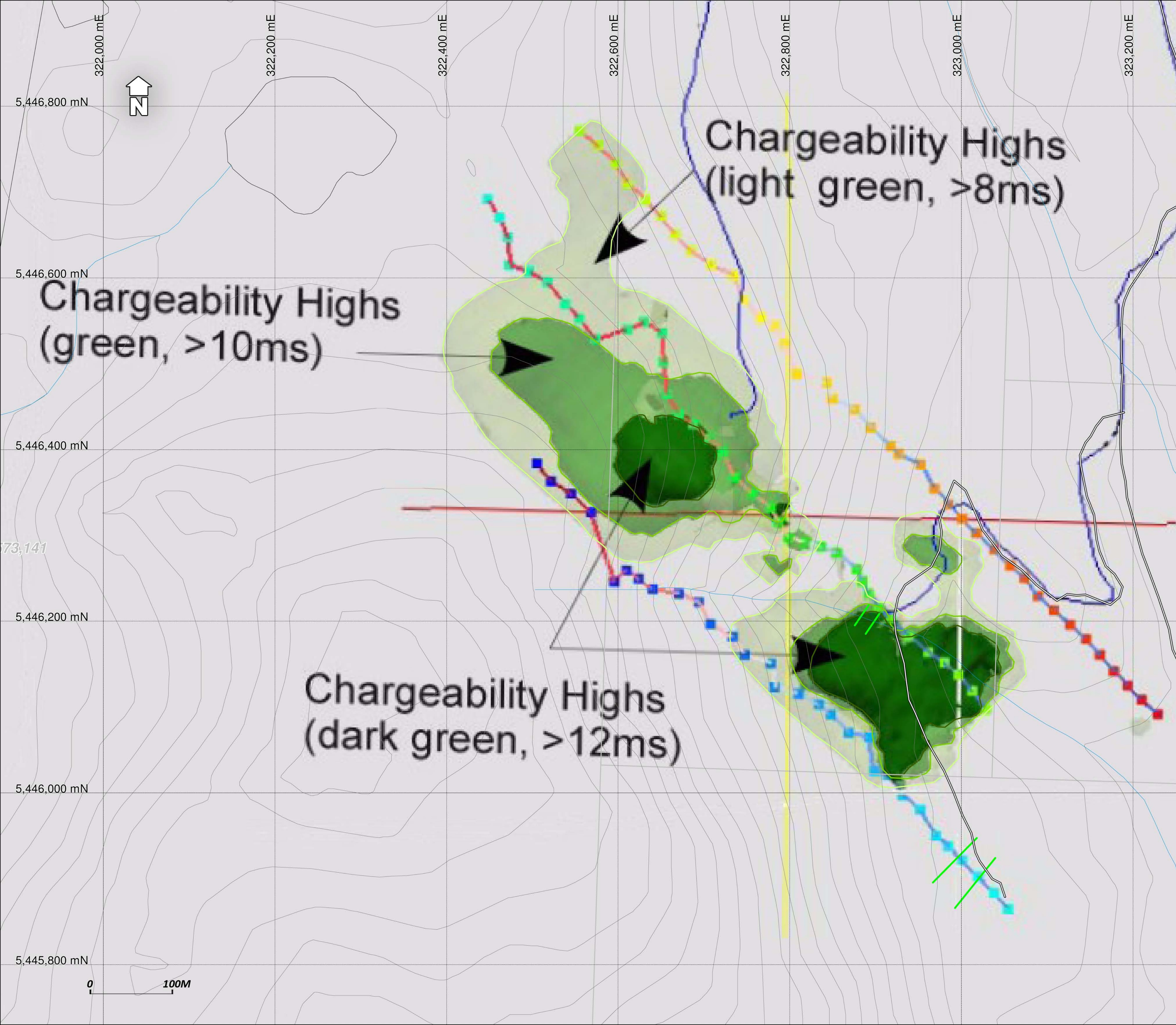


Figure 3: Inversion Models (Resistivity and Chargeability separated)  
 Note: for reference see the following appendices  
 Appendix 3.1: Kennedy River Project 3D IP Data Processing Memo, SJ Geophysics July 12th 2010  
 Appendix 3.2: Kennedy River Project Logistical Report, SJ Geophysics July 12th 2010

GONZAGA RESOURCES LTD.

KENNEDY RIVER GOLD DISTRICT

**LARGE FORMAT MAP  
 SHOWING 2010 CHARGEABILITY  
 SURVEY RESULTS IN PLAN VIEW**

DATE:	2010 09 19	FIGURE NO:
SCALE:	1:2,000	<b>LF3</b>
PROJECTION:	NAD 83 ZONE 10	
DRAWN BY:	DORIAN LESLIE	

Appendix 2.1: ALS Certificate No. VA10090449



# ALS Chemex

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North Vancouver BC V7H 0A7

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8888 SHOOK ROAD

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Page: 1

Finalized Date: 15-JUL-2010

This copy reported on 16-JUL-2010

Account: PJA

## CERTIFICATE VA10090449

Project: KENNEDY LAKE

P.O. No.:

This report is for 93 Soil samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2010.

The following have access to data associated with this certificate:

CARL V. EINSIEDEL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rod w/o BarCode
SCR-41	Screen to -180um and save both

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: RAM EXPLORATION LTD.  
ATTN: CARL V. EINSIEDEL  
8888 SHOOK ROAD  
MISSION BC V2V 7N1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Plus Appendix Pages

Finalized Date: 15-JUL-2010

Account: PJA

Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Au Check	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
2109E 5874N		0.28	0.023		<0.2	1.02	<2	<10	<10	<0.5	<2	0.07	<0.5	2	11	6
2751E 6181N		0.40	0.008		<0.2	2.77	<2	<10	<10	<0.5	<2	0.14	<0.5	9	29	8
2755E 6184N		0.26	<0.005		<0.2	1.45	2	<10	<10	<0.5	<2	0.14	<0.5	4	14	6
2757E 6177N		0.32	<0.005		<0.2	7.90	14	<10	<10	<0.5	<2	0.09	<0.5	7	31	26
2771E 6175N		0.32	NSS		<0.2	3.24	<2	<10	10	<0.5	<2	0.17	<0.5	8	20	12
2775E 6167N		0.28	0.046		0.2	4.56	2	<10	20	0.5	<2	0.31	<0.5	14	16	15
2781E 6163N		0.36	NSS		0.3	5.27	8	<10	10	0.6	<2	0.31	<0.5	15	20	20
2790E 6168N		0.26	0.069		0.3	4.61	<2	<10	20	0.9	<2	0.46	<0.5	36	17	24
2800E 6030N		0.34	0.022		<0.2	1.96	2	<10	<10	<0.5	<2	0.29	<0.5	7	18	11
2800E 6040N		0.06	0.010		0.2	1.80	<2	<10	20	<0.5	<2	0.28	<0.5	9	14	12
2807E 6152N		0.24	0.069		<0.2	4.69	14	<10	10	<0.5	<2	0.14	<0.5	13	27	16
2815E 6148N		0.24	0.160		<0.2	2.52	2	<10	10	<0.5	<2	0.27	<0.5	13	21	15
2820E 6195N		0.12	0.154		<0.2	1.19	4	<10	<10	<0.5	<2	0.19	<0.5	5	18	7
2833E 6142N		0.38	0.351		0.2	3.25	6	<10	20	<0.5	<2	0.25	<0.5	9	16	21
2884E 6129N		0.44	0.251		0.2	2.37	7	<10	20	<0.5	<2	0.32	<0.5	8	21	15
2890E 6129N		0.36	0.350		0.4	4.37	8	<10	10	<0.5	<2	0.28	<0.5	10	28	27
2895E 6125N		0.24	0.199		0.5	5.53	35	<10	110	1.8	<2	1.50	1.0	30	31	54
2904E 6128N		0.20	0.222		<0.2	2.20	8	<10	<10	<0.5	<2	0.15	<0.5	8	17	21
2910E 6078N		0.20	0.144		0.3	6.80	15	<10	50	1.4	<2	0.76	<0.5	20	26	37
2912E 6071N		0.22	NSS		<0.2	9.48	20	<10	50	1.5	<2	0.79	<0.5	22	24	58
2914E 6059N		0.18	0.050		0.2	7.56	13	<10	50	1.4	<2	0.74	<0.5	30	20	49
2918E 6054N		0.16	0.027		0.5	11.05	19	<10	80	1.7	<2	0.75	0.6	31	25	67
2920E 6040N		0.18	0.050		0.3	9.46	15	<10	60	1.6	<2	0.63	<0.5	38	21	53
2920E 6043N		0.20	0.029		0.5	9.90	9	<10	90	1.6	2	0.90	<0.5	43	22	63
2921E 6010N		0.12	0.042		0.3	8.31	6	<10	60	1.5	<2	0.70	<0.5	43	21	50
2923E 6023N		0.20	0.033		<0.2	7.27	10	<10	30	1.1	<2	0.17	0.5	42	19	52
2925E 5998N		0.22	0.033		0.3	6.29	6	<10	40	1.4	<2	0.27	<0.5	34	24	42
2933E 5988N		0.16	0.014		<0.2	4.38	5	<10	40	0.9	<2	0.23	<0.5	44	18	63
2937E 5955N		0.34	0.036		0.2	5.58	3	<10	40	1.0	<2	0.19	<0.5	47	18	72
2945E 5943N		0.40	0.011		0.2	3.58	4	<10	30	0.7	<2	0.20	<0.5	11	22	30
2950E 5934N		0.36	0.026		<0.2	4.92	5	<10	20	0.6	<2	0.13	<0.5	9	31	40
2955E 5928N		0.28	0.041		0.3	6.37	3	<10	50	1.3	<2	0.72	<0.5	43	15	39
2962E 5920N		0.26	0.209		0.3	8.01	10	<10	50	1.3	<2	0.55	<0.5	28	24	70
2967E 5916N		0.22	NSS		0.3	6.95	7	<10	40	1.1	<2	0.44	0.5	52	18	48
2977E 5888N		0.16	0.053		0.3	6.65	7	<10	30	1.3	<2	0.19	0.5	49	16	49
2979E 5870N		0.26	0.078		0.2	6.07	6	<10	40	1.2	2	0.33	<0.5	23	24	67
2982E 5902N		0.16	0.202		0.5	7.80	14	<10	70	1.3	<2	0.62	<0.5	27	29	85
2984E 5892N		0.28	0.094		<0.2	9.43	10	<10	20	1.6	<2	0.06	<0.5	39	24	79
2987E 5860N		0.34	0.091		<0.2	3.90	7	<10	30	0.9	<2	0.24	<0.5	13	26	62
2989E 5854N		0.16	NSS		0.3	6.37	10	<10	30	1.3	<2	0.21	<0.5	28	27	58



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Page: 2 - B

Total # Pages: 4 (A - C)

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Finalized Date: 15-JUL-2010

Account: PJA

Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
2109E 5874N		0.33	10	<1	0.02	<10	0.05	47	1	<0.01	<1	260	7	0.04	<2	1
2751E 6181N		6.18	10	1	0.02	<10	0.54	366	1	<0.01	7	270	3	0.02	<2	4
2755E 6184N		4.19	10	<1	0.02	<10	0.21	156	2	<0.01	1	220	4	0.01	<2	3
2757E 6177N		4.60	10	<1	0.01	<10	0.15	257	2	<0.01	5	720	<2	0.07	<2	10
2771E 6175N		5.44	10	<1	0.02	<10	0.26	252	3	<0.01	2	270	3	0.03	<2	4
2775E 6167N		5.18	10	<1	0.02	<10	0.19	517	3	<0.01	3	450	3	0.04	<2	5
2781E 6163N		5.05	10	1	0.02	<10	0.17	372	3	<0.01	4	510	2	0.07	4	6
2790E 6168N		4.70	10	<1	0.02	<10	0.12	956	3	0.01	7	490	4	0.05	<2	5
2800E 6030N		5.99	20	<1	0.02	<10	0.31	302	2	<0.01	3	240	6	0.01	<2	3
2800E 6040N		4.04	10	<1	0.03	<10	0.32	331	2	0.01	4	390	8	0.05	<2	2
2807E 6152N		5.45	10	<1	0.02	<10	0.34	396	3	<0.01	5	540	2	0.06	<2	5
2815E 6148N		6.00	10	<1	0.02	<10	0.99	569	2	<0.01	6	320	3	0.02	<2	4
2820E 6195N		3.41	10	<1	0.02	<10	0.15	190	2	<0.01	3	260	3	0.02	<2	2
2833E 6142N		5.68	10	<1	0.02	<10	0.37	234	2	<0.01	3	330	<2	0.03	<2	4
2884E 6129N		6.87	20	<1	0.02	<10	0.32	347	4	<0.01	1	260	6	0.01	<2	4
2890E 6129N		6.30	20	1	0.02	<10	0.49	403	2	<0.01	6	340	4	0.03	2	6
2895E 6125N		4.82	10	<1	0.02	10	0.48	7290	6	0.01	12	840	5	0.10	<2	6
2904E 6128N		6.06	10	<1	0.01	<10	0.15	182	2	<0.01	2	240	2	0.02	<2	4
2910E 6078N		5.87	10	1	0.03	<10	0.25	390	4	<0.01	10	480	6	0.06	<2	6
2912E 6071N		2.15	<10	1	0.01	10	0.16	2800	2	<0.01	11	1560	2	0.13	<2	9
2914E 6059N		2.25	<10	1	0.02	10	0.11	4090	2	<0.01	10	1640	4	0.17	<2	5
2918E 6054N		2.02	<10	2	0.01	10	0.08	3380	2	<0.01	12	2080	3	0.13	<2	11
2920E 6040N		2.68	<10	2	0.02	10	0.09	3940	3	<0.01	10	1730	3	0.13	<2	8
2920E 6043N		2.39	<10	2	0.02	10	0.09	3820	2	<0.01	14	1750	4	0.13	<2	10
2921E 6010N		3.13	10	1	0.02	10	0.14	5340	3	<0.01	10	1480	4	0.12	<2	6
2923E 6023N		2.45	<10	2	0.01	10	0.08	4400	4	<0.01	7	1530	6	0.13	<2	5
2925E 5998N		3.61	10	1	0.02	10	0.22	3570	2	<0.01	10	980	4	0.10	<2	5
2933E 5988N		4.13	10	<1	0.03	<10	0.34	9710	4	<0.01	7	950	6	0.10	<2	3
2937E 5955N		4.12	10	<1	0.02	10	0.14	2780	3	<0.01	3	1060	3	0.11	<2	4
2945E 5943N		5.59	10	2	0.02	<10	0.23	941	3	<0.01	5	530	8	0.06	<2	4
2950E 5934N		6.20	10	1	0.02	<10	0.26	417	4	<0.01	4	720	5	0.08	<2	8
2955E 5928N		2.86	10	2	0.02	10	0.08	4510	2	<0.01	5	1460	8	0.15	<2	4
2962E 5920N		3.97	<10	1	0.02	10	0.37	2460	2	<0.01	14	1610	6	0.11	<2	6
2967E 5916N		3.55	10	2	0.02	10	0.09	5590	3	<0.01	6	1610	6	0.15	<2	4
2977E 5888N		3.43	10	1	0.02	10	0.11	7140	4	<0.01	6	1630	7	0.14	<2	4
2979E 5870N		3.92	10	<1	0.02	10	0.28	2860	2	<0.01	9	1060	4	0.08	<2	5
2982E 5902N		4.52	<10	1	0.03	10	0.50	2750	1	<0.01	17	1890	6	0.11	<2	6
2984E 5892N		4.38	10	2	0.02	10	0.11	2070	5	<0.01	3	1540	4	0.16	<2	13
2987E 5860N		4.99	10	1	0.02	10	0.21	1285	2	<0.01	8	780	7	0.06	<2	5
2989E 5854N		5.27	10	2	0.02	10	0.31	3400	3	<0.01	10	1010	5	0.08	<2	6

\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*



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Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
2109E 5874N		6	<20	0.11	<10	<10	41	<10	7
2751E 6181N		14	<20	0.27	<10	<10	185	<10	28
2755E 6184N		13	<20	0.21	<10	<10	125	<10	15
2757E 6177N		6	<20	0.16	<10	<10	96	<10	29
2771E 6175N		16	<20	0.19	<10	<10	132	<10	30
2775E 6167N		16	<20	0.17	<10	<10	119	<10	59
2781E 6163N		14	<20	0.17	<10	<10	115	<10	42
2790E 6168N		17	<20	0.14	<10	<10	105	<10	107
2800E 6030N		16	<20	0.37	<10	<10	200	<10	21
2800E 6040N		17	<20	0.22	<10	<10	131	<10	27
2807E 6152N		11	<20	0.16	<10	<10	114	<10	48
2815E 6148N		19	<20	0.33	<10	<10	169	<10	45
2820E 6195N		17	<20	0.31	<10	<10	150	<10	14
2833E 6142N		17	<20	0.24	<10	<10	186	<10	26
2884E 6129N		22	<20	0.27	<10	<10	225	<10	28
2890E 6129N		19	<20	0.23	<10	<10	175	<10	36
2895E 6125N		31	<20	0.13	<10	<10	86	<10	122
2904E 6128N		14	<20	0.28	<10	<10	255	<10	12
2910E 6078N		25	<20	0.19	<10	<10	151	<10	95
2912E 6071N		18	<20	0.07	<10	<10	40	<10	67
2914E 6059N		18	<20	0.06	<10	<10	45	<10	107
2918E 6054N		18	<20	0.06	<10	<10	32	<10	92
2920E 6040N		15	<20	0.07	<10	<10	45	<10	105
2920E 6043N		20	<20	0.07	<10	<10	41	<10	115
2921E 6010N		19	<20	0.08	<10	<10	57	<10	109
2923E 6023N		7	<20	0.08	<10	<10	51	<10	83
2925E 5998N		11	<20	0.13	<10	<10	80	<10	108
2933E 5988N		11	<20	0.10	<10	<10	95	<10	92
2937E 5955N		13	<20	0.10	<10	<10	64	<10	54
2945E 5943N		12	<20	0.23	<10	<10	126	<10	53
2950E 5934N		8	<20	0.28	<10	<10	145	<10	48
2955E 5928N		19	<20	0.07	<10	<10	51	<10	103
2962E 5920N		19	<20	0.10	<10	<10	71	<10	109
2967E 5916N		12	<20	0.07	<10	<10	59	<10	77
2977E 5888N		8	<20	0.08	<10	<10	64	<10	104
2979E 5870N		10	<20	0.13	<10	<10	81	<10	112
2982E 5902N		20	<20	0.09	<10	<10	72	<10	121
2984E 5892N		5	<20	0.12	<10	<10	73	<10	63
2987E 5860N		12	<20	0.23	<10	<10	124	<10	83
2989E 5854N		10	<20	0.19	<10	<10	103	<10	107

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Account: PJA

Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
2990E 5826N		0.42	0.017		<0.2	5.28	6	<10	20	<0.5	<2	0.11	<0.5	11	38	47
2991E 5849N		0.28	0.028		<0.2	2.95	2	<10	40	0.6	<2	0.86	<0.5	12	11	30
2993E 5815N		0.24	0.078		<0.2	4.54	9	<10	40	0.7	<2	0.39	<0.5	16	26	57
3009E 6032N		0.14	0.017		<0.2	0.64	4	<10	10	<0.5	2	0.17	<0.5	2	8	3
3011E 5026N		0.24	0.009		<0.2	0.74	2	<10	10	<0.5	<2	0.10	<0.5	1	9	5
3011E 5964N		0.18	0.010		<0.2	0.77	2	<10	10	<0.5	<2	0.08	<0.5	1	4	1
3014E 5960N		0.14	0.007		<0.2	1.58	2	<10	10	<0.5	<2	0.15	<0.5	8	7	5
3014E 6020N		0.30	0.009		<0.2	1.64	<2	<10	10	<0.5	2	0.20	<0.5	7	6	5
3015E 5997N		0.18	0.010		<0.2	0.62	3	<10	10	<0.5	<2	0.03	<0.5	<1	3	<1
3016E 6006N		0.36	0.020		<0.2	1.69	3	<10	10	<0.5	<2	0.10	<0.5	3	9	7
3017E 5983N		0.28	0.009		<0.2	0.34	<2	<10	10	<0.5	<2	0.03	<0.5	1	2	1
3017E 5990N		0.22	0.005		<0.2	0.38	3	<10	10	<0.5	<2	0.06	<0.5	<1	4	2
3018E 5977N		0.32	0.005		<0.2	0.92	2	<10	10	<0.5	<2	0.16	<0.5	1	3	2
3018E 5951N		0.18	0.020		<0.2	0.79	2	<10	10	<0.5	<2	0.10	<0.5	2	4	2
3020E 5978N		0.30	0.047		<0.2	1.25	2	<10	10	<0.5	<2	0.13	<0.5	2	14	7
3032E 5819N		0.32	0.032		0.2	1.85	4	<10	10	<0.5	<2	0.13	<0.5	2	26	11
3032E 5982N		0.16	0.026		<0.2	1.51	<2	<10	10	<0.5	<2	0.13	<0.5	3	6	2
3034E 5828N		0.22	NSS	0.3	1.77	3	<10	10	<0.5	<2	0.26	<0.5	4	14	11	
3035E 5962N		0.32	0.014	0.4	3.14	2	<10	10	<0.5	<2	0.15	<0.5	2	29	12	
3039E 5793N		0.18	0.005	0.3	1.32	2	<10	10	<0.5	<2	0.16	<0.5	7	29	10	
3041E 5955N		0.34	<0.005	<0.005	<0.2	1.24	<2	<10	10	<0.5	<2	0.07	<0.5	4	4	4
3051E 5953N		0.30	0.219	0.154	<0.2	0.68	<2	<10	<10	<0.5	<2	0.11	<0.5	2	5	2
3053E 5945N		0.24	0.015	0.019	<0.2	1.30	<2	<10	10	<0.5	<2	0.09	<0.5	6	10	4
3060E 5943N		0.14	0.034		<0.2	0.91	<2	<10	10	<0.5	<2	0.20	<0.5	6	5	8
3066E 5853N		0.40	0.010	0.3	3.90	4	<10	10	<0.5	<2	0.10	<0.5	2	41	32	
3071E 5840N		0.30	<0.005	0.2	1.10	<2	<10	10	<0.5	<2	0.13	<0.5	2	30	6	
3072E 5934N		0.20	0.019		<0.2	1.37	2	<10	10	<0.5	<2	0.16	<0.5	2	9	3
3073E 5928N		0.26	0.021		<0.2	1.38	<2	<10	10	<0.5	<2	0.19	<0.5	4	6	2
3082E 5921N		0.32	0.007		<0.2	1.03	<2	<10	10	<0.5	<2	0.11	<0.5	4	2	5
3083E 5949N		0.26	0.017		<0.2	1.50	<2	<10	20	<0.5	<2	0.14	<0.5	3	10	6
3090E 2888N		0.34	0.021		<0.2	0.68	<2	<10	10	<0.5	<2	0.07	<0.5	<1	2	<1
3092E 5921N		0.38	0.008		<0.2	0.67	<2	<10	10	<0.5	<2	0.06	<0.5	1	3	<1
3094E 5094N		0.18	<0.005		<0.2	1.20	2	<10	20	<0.5	<2	0.17	<0.5	2	5	<1
3094E 5852N		0.24	<0.005		<0.2	0.81	<2	<10	<10	<0.5	<2	0.12	<0.5	<1	2	<1
3097E 5917N		0.30	0.007		<0.2	1.86	<2	<10	10	<0.5	<2	0.15	<0.5	1	18	6
3100E 5841N		0.10	NSS		<0.2	0.68	<2	<10	10	<0.5	<2	0.20	<0.5	1	5	1
3101E 5895N		0.08	0.007		<0.2	0.37	<2	<10	10	<0.5	<2	0.19	<0.5	1	5	2
3102E 5884N		0.24	0.014		<0.2	0.46	<2	<10	10	<0.5	<2	0.06	<0.5	<1	2	<1
3104E 5880N		0.16	<0.005		<0.2	0.72	<2	<10	10	<0.5	<2	0.08	<0.5	<1	3	<1
3108E 5847N		0.18	<0.005		<0.2	0.50	<2	<10	10	<0.5	<2	0.08	<0.5	1	3	<1



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## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
2990E 5826N		6.25	10	1	0.02	<10	0.25	479	3	<0.01	3	820	4	0.12	<2	10
2991E 5849N		1.71	<10	1	0.02	<10	0.22	2670	1	<0.01	8	740	3	0.09	<2	1
2993E 5815N		4.52	10	<1	0.03	<10	0.61	2960	1	<0.01	12	1230	9	0.09	<2	3
3009E 6032N		1.09	10	<1	0.02	<10	0.12	95	<1	<0.01	3	240	12	0.04	<2	1
3011E 5026N		0.36	10	<1	0.02	<10	0.02	38	<1	<0.01	2	230	9	0.04	<2	1
3011E 5964N		1.10	10	<1	0.01	<10	0.11	95	<1	<0.01	1	90	8	0.02	<2	1
3014E 5960N		3.65	10	<1	0.02	<10	0.49	362	1	<0.01	4	220	6	0.03	<2	3
3014E 6020N		3.34	10	1	0.02	<10	0.38	327	<1	<0.01	2	150	8	0.02	<2	2
3015E 5997N		0.48	10	<1	0.01	<10	0.02	43	<1	<0.01	<1	70	6	0.02	<2	1
3016E 6006N		5.13	20	<1	0.02	<10	0.19	264	1	<0.01	<1	170	7	0.02	<2	2
3017E 5983N		0.29	10	<1	0.01	<10	0.01	29	<1	<0.01	<1	70	5	0.01	<2	1
3017E 5990N		0.61	10	<1	0.03	<10	0.03	34	<1	<0.01	<1	210	9	0.04	<2	1
3018E 5977N		0.84	10	1	0.03	<10	0.05	58	1	<0.01	<1	150	13	0.02	<2	2
3018E 5951N		1.33	10	<1	0.02	<10	0.19	133	<1	<0.01	1	160	12	0.03	<2	2
3020E 5978N		5.87	20	<1	0.02	<10	0.10	129	1	0.01	3	210	7	0.01	<2	2
3032E 5819N		6.04	20	1	0.02	<10	0.14	134	<1	0.01	2	310	6	0.01	<2	3
3032E 5982N		2.83	10	<1	0.02	<10	0.20	166	<1	0.01	2	140	2	<0.01	<2	2
3034E 5828N		5.81	20	1	0.02	<10	0.39	299	1	0.02	2	350	6	0.02	<2	3
3035E 5962N		6.12	20	1	0.02	<10	0.13	126	3	0.02	2	390	5	0.02	<2	5
3039E 5793N		5.70	20	<1	0.02	<10	0.29	178	<1	0.02	4	190	4	0.01	<2	3
3041E 5955N		2.43	10	<1	0.02	<10	0.28	180	<1	0.01	<1	150	<2	<0.01	<2	2
3051E 5953N		1.82	10	<1	0.01	<10	0.04	60	<1	0.01	<1	100	2	<0.01	<2	1
3053E 5945N		3.65	10	<1	0.02	<10	0.40	297	<1	0.01	2	170	3	0.01	<2	3
3060E 5943N		1.54	10	<1	0.02	<10	0.09	83	<1	0.02	2	140	2	0.01	<2	2
3066E 5853N		8.13	20	<1	0.02	<10	0.16	166	3	0.01	4	460	4	0.05	<2	7
3071E 5840N		5.01	20	<1	0.02	<10	0.15	147	<1	0.01	1	150	6	<0.01	<2	3
3072E 5934N		5.63	20	<1	0.02	<10	0.08	83	<1	0.02	<1	250	6	0.01	<2	2
3073E 5928N		3.65	20	<1	0.02	<10	0.24	207	<1	0.02	<1	160	6	0.01	<2	2
3082E 5921N		1.25	10	<1	0.01	<10	0.06	49	<1	0.01	<1	110	2	<0.01	<2	1
3083E 5949N		4.51	10	<1	0.03	<10	0.19	174	<1	0.01	<1	330	6	0.02	<2	2
3090E 2888N		0.42	10	<1	0.02	<10	0.03	36	<1	0.01	<1	100	3	<0.01	<2	1
3092E 5921N		1.00	10	<1	0.01	<10	0.06	52	<1	0.01	<1	70	2	<0.01	<2	1
3094E 5094N		1.69	10	<1	0.03	<10	0.17	118	<1	0.01	<1	160	6	<0.01	<2	2
3094E 5852N		0.55	10	<1	0.02	<10	0.04	44	<1	0.01	<1	180	6	0.01	<2	1
3097E 5917N		4.30	30	1	0.03	<10	0.18	130	1	0.01	1	160	11	0.02	<2	2
3100E 5841N		0.59	10	<1	0.04	<10	0.05	66	<1	0.02	<1	520	5	0.07	<2	2
3101E 5895N		0.69	<10	<1	0.04	<10	0.05	69	<1	0.03	1	250	6	0.02	<2	1
3102E 5884N		0.31	10	<1	0.01	<10	0.03	34	<1	0.01	<1	80	5	<0.01	<2	1
3104E 5880N		0.14	10	<1	0.03	<10	0.02	17	<1	0.02	<1	310	4	0.03	<2	1
3108E 5847N		0.73	10	<1	0.02	<10	0.04	45	<1	0.01	<1	100	<2	<0.01	<2	1



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Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
2990E 5826N		7	<20	0.32	<10	<10	146	<10	49
2991E 5849N		21	<20	0.07	<10	<10	34	<10	74
2993E 5815N		15	<20	0.14	<10	<10	76	<10	79
3009E 6032N		14	<20	0.22	<10	<10	127	<10	8
3011E 5026N		8	<20	0.16	<10	<10	70	<10	4
3011E 5964N		6	<20	0.21	<10	<10	108	<10	7
3014E 5960N		17	<20	0.27	<10	<10	177	<10	23
3014E 6020N		19	<20	0.34	<10	<10	231	<10	27
3015E 5997N		3	<20	0.09	<10	<10	67	<10	2
3016E 6006N		9	<20	0.30	<10	<10	376	<10	13
3017E 5983N		3	<20	0.05	<10	<10	30	<10	2
3017E 5990N		4	<20	0.11	<10	<10	43	<10	4
3018E 5977N		26	<20	0.20	<10	<10	133	<10	6
3018E 5951N		8	<20	0.24	<10	<10	126	<10	10
3020E 5978N		10	<20	0.29	<10	<10	211	<10	12
3032E 5819N		9	<20	0.33	<10	<10	235	<10	15
3032E 5982N		14	<20	0.12	<10	<10	138	<10	15
3034E 5828N		13	<20	0.39	<10	<10	218	<10	21
3035E 5962N		12	<20	0.30	<10	<10	206	<10	20
3039E 5793N		10	<20	0.50	<10	<10	260	<10	14
3041E 5955N		8	<20	0.12	<10	<10	88	<10	10
3051E 5953N		12	<20	0.17	<10	<10	87	<10	3
3053E 5945N		10	<20	0.18	<10	<10	129	<10	20
3060E 5943N		20	<20	0.07	<10	<10	82	<10	8
3066E 5853N		7	<20	0.42	<10	<10	244	<10	18
3071E 5840N		9	<20	0.48	<10	<10	255	<10	10
3072E 5934N		18	<20	0.32	<10	<10	256	<10	7
3073E 5928N		18	<20	0.31	<10	<10	245	<10	22
3082E 5921N		11	<20	0.11	<10	<10	70	<10	22
3083E 5949N		12	<20	0.18	<10	<10	177	<10	14
3090E 2888N		7	<20	0.06	<10	<10	66	<10	2
3092E 5921N		5	<20	0.17	<10	<10	68	<10	4
3094E 5094N		14	<20	0.12	<10	<10	122	<10	8
3094E 5852N		13	<20	0.17	<10	<10	48	<10	7
3097E 5917N		13	<20	0.37	<10	<10	244	<10	12
3100E 5841N		18	<20	0.22	<10	<10	50	<10	17
3101E 5895N		12	<20	0.05	<10	<10	37	<10	9
3102E 5884N		5	<20	0.18	<10	<10	60	<10	2
3104E 5880N		6	<20	0.05	<10	<10	33	<10	5
3108E 5847N		8	<20	0.08	<10	<10	47	<10	4



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**CERTIFICATE OF ANALYSIS VA10090449**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Au Check	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
3112E 5871N		0.02	0.010	0.005	<0.2	0.63	<2	<10	10	<0.5	<2	0.12	<0.5	1	4	<1
3112E 5872N		0.20	<0.005		<0.2	0.70	<2	<10	<10	<0.5	<2	0.10	<0.5	<1	4	<1
3013E 5957N		0.10	0.009		<0.2	0.28	<2	<10	10	<0.5	<2	0.13	<0.5	2	3	1
3117E 5861N		0.08	<0.005		<0.2	0.48	<2	<10	10	<0.5	<2	0.07	<0.5	1	3	<1
3118E 5842N		0.28	<0.005		<0.2	0.97	<2	<10	10	<0.5	<2	0.13	<0.5	2	5	<1
3122E 5853N		0.18	<0.005		<0.2	0.84	<2	<10	10	<0.5	<2	0.11	<0.5	2	2	1
3129E 5822N		0.12	0.014		<0.2	0.77	<2	<10	10	<0.5	<2	0.16	<0.5	3	3	2
3130E 5852N		0.26	0.005		<0.2	1.06	<2	<10	10	<0.5	<2	0.11	<0.5	1	6	1
3135E 5822N		0.16	0.057		<0.2	0.19	<2	<10	<10	<0.5	<2	0.10	<0.5	<1	2	<1
3137E 5847N		0.32	0.013		<0.2	0.24	<2	<10	10	<0.5	<2	0.05	<0.5	1	3	<1
3139E 5837N		0.10	<0.005		<0.2	0.53	<2	<10	10	<0.5	<2	0.10	<0.5	2	4	2
3147E 5832N		0.08	0.016		0.2	0.68	2	<10	10	<0.5	<2	0.08	<0.5	3	3	4
3148E 5836N		0.24	0.006		<0.2	0.52	<2	<10	<10	<0.5	<2	0.09	<0.5	1	6	2



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## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
3112E 5871N		0.54	10	<1	0.02	<10	0.05	59	<1	0.01	<1	190	5	0.02	<2	1
3112E 5872N		0.20	10	<1	0.02	<10	0.02	31	<1	0.01	<1	190	4	0.02	<2	1
3013E 5957N		0.47	<10	<1	0.03	<10	0.04	60	<1	0.02	<1	180	6	0.01	<2	1
3117E 5861N		0.52	10	<1	0.02	<10	0.03	25	<1	0.01	<1	140	5	0.01	<2	1
3118E 5842N		0.81	10	<1	0.02	<10	0.04	45	<1	0.01	1	90	3	<0.01	<2	1
3122E 5853N		0.81	10	<1	0.02	<10	0.07	53	<1	0.01	<1	110	3	<0.01	<2	1
3129E 5822N		1.86	10	<1	0.02	<10	0.13	100	<1	0.01	<1	160	4	<0.01	<2	1
3130E 5852N		1.63	10	<1	0.03	<10	0.04	40	<1	0.01	<1	210	2	0.01	<2	1
3135E 5822N		0.20	<10	<1	0.02	<10	0.02	14	<1	0.01	<1	100	4	<0.01	<2	1
3137E 5847N		0.44	<10	<1	0.01	<10	0.01	21	<1	0.01	<1	70	<2	<0.01	<2	<1
3139E 5837N		0.55	<10	<1	0.02	<10	0.09	55	<1	0.01	2	160	6	0.01	<2	1
3147E 5832N		1.75	10	<1	0.03	<10	0.18	202	<1	0.01	2	210	6	0.02	<2	2
3148E 5836N		1.31	10	<1	0.01	<10	0.04	52	<1	0.01	2	80	5	0.01	2	1



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## CERTIFICATE OF ANALYSIS VA10090449

Sample Description	Method Analyte Units LDR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr	Th	Ti	Ti	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10	2
3112E 5871N		11	<20	0.15	<10	<10	71	<10	8
3112E 5872N		8	<20	0.09	<10	<10	54	<10	3
3013E 5957N		8	<20	0.06	<10	<10	46	<10	5
3117E 5861N		6	<20	0.21	<10	<10	67	<10	5
3118E 5842N		12	<20	0.06	<10	<10	88	<10	7
3122E 5853N		11	<20	0.18	<10	<10	61	<10	6
3129E 5822N		14	<20	0.20	<10	<10	92	<10	13
3130E 5852N		11	<20	0.06	<10	<10	68	<10	5
3135E 5822N		7	<20	0.12	<10	<10	29	<10	3
3137E 5847N		6	<20	0.05	<10	<10	30	<10	2
3139E 5837N		7	<20	0.03	<10	<10	23	<10	10
3147E 5832N		3	<20	0.12	<10	<10	64	<10	25
3148E 5836N		6	<20	0.12	<10	<10	108	<10	4

Appendix 2.2: ALS Certificate No. VA10091131



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## CERTIFICATE VA10091131

Project: KENNEDY LAKE

P.O. No.:

This report is for 117 Soil samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2010.

The following have access to data associated with this certificate:

CARL V. EINSIEDEL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: RAM EXPLORATION LTD.  
ATTN: CARL V. EINSIEDEL  
8888 SHOOK ROAD  
MISSION BC V2V 7N1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2825E-6050N		0.32	0.043	0.2	2.72	3	<10	20	<0.5	<2	0.15	<0.5	7	15	14	5.38
2825E-6060N		0.24	NSS	0.4	2.17	<2	<10	20	<0.5	<2	0.18	<0.5	19	12	18	2.49
2825E-6060N A		0.24	2.03	0.2	2.36	2	<10	40	<0.5	<2	0.21	<0.5	14	14	24	7.03
2825E-6080N		0.22	0.036	0.3	3.17	<2	<10	50	0.7	<2	0.47	<0.5	37	21	26	4.59
2825E-6090N		0.14	<0.005	<0.2	1.68	2	<10	40	<0.5	<2	0.38	<0.5	18	12	9	3.61
2825E-6100N		0.22	0.007	0.2	6.38	5	<10	20	0.7	<2	0.35	<0.5	15	20	23	3.00
2825E-6110N		0.26	NSS	0.3	3.94	9	<10	60	0.9	<2	0.95	<0.5	26	9	21	1.95
2825E-6120N		0.16	0.126	<0.2	2.28	4	<10	20	<0.5	<2	0.21	<0.5	9	13	16	5.49
2825E-6130N		0.18	0.011	0.2	2.78	6	<10	30	<0.5	<2	0.18	<0.5	8	19	16	4.55
2825E-6140N		0.28	0.184	<0.2	2.48	3	<10	20	<0.5	<2	0.22	<0.5	11	16	15	5.50
2825E-6150N		0.16	0.017	0.3	4.57	5	<10	20	0.7	<2	0.13	<0.5	51	18	25	3.99
2825E-6160N		0.10	0.038	0.2	5.20	2	<10	30	0.7	<2	0.19	<0.5	26	21	28	4.75
2825E-6170N		0.30	0.061	<0.2	2.90	4	<10	30	<0.5	<2	0.26	<0.5	12	17	11	5.93
2825E-6180N		0.14	NSS	0.2	3.57	7	<10	40	0.6	<2	0.34	<0.5	32	9	15	1.61
2825E-6190N		0.12	NSS	0.2	5.31	5	<10	40	0.8	<2	0.55	<0.5	34	24	26	4.56
2825E-6200N		0.20	<0.005	<0.2	1.16	<2	<10	10	<0.5	<2	0.19	<0.5	4	26	1	2.37
2825E-6210N		0.16	<0.005	0.2	5.12	6	<10	30	0.7	<2	0.34	<0.5	21	29	20	3.96
2825E-6220N		0.18	NSS	<0.2	4.40	2	<10	30	<0.5	<2	0.45	<0.5	28	93	21	4.99
2825E-6230N		0.22	0.005	0.2	4.17	6	<10	30	<0.5	<2	0.30	<0.5	6	19	16	4.34
2825E-6240N		0.28	<0.005	0.2	2.43	4	<10	20	<0.5	<2	0.56	<0.5	12	23	19	3.42
2825E-6250N		0.20	<0.005	<0.2	1.80	15	<10	20	<0.5	<2	0.17	<0.5	5	28	10	4.97
2825E-6260N		0.20	0.157	<0.2	2.71	5	<10	10	<0.5	<2	0.17	<0.5	6	25	18	7.20
2850E-6120N		0.22	NSS	0.2	3.11	3	<10	40	0.6	<2	0.96	<0.5	22	12	19	3.07
2850E-6130N		0.12	0.649	0.3	6.43	9	<10	20	0.5	<2	0.16	<0.5	19	30	46	5.15
2850E-6140N		0.32	NSS	0.2	3.09	7	<10	20	<0.5	<2	0.36	<0.5	7	15	16	3.07
2850E-6150N		0.30	0.102	0.3	5.09	2	<10	20	<0.5	<2	0.13	<0.5	5	18	23	3.99
2850E-6165N		0.28	0.342	0.2	3.92	6	<10	40	0.6	<2	0.38	<0.5	20	18	26	6.13
2850E-6170N		0.34	0.150	0.2	3.98	4	<10	30	<0.5	<2	0.16	<0.5	12	19	23	6.22
2850E-6180N		0.38	0.273	<0.2	1.69	4	<10	30	<0.5	<2	0.18	0.8	9	11	15	5.15
2850E-6190N		0.16	NSS	0.2	5.09	102	<10	50	0.8	<2	0.56	0.8	26	28	40	3.48
2850E-6200N		0.38	0.166	0.2	3.61	5	<10	30	0.5	2	0.23	1.0	25	25	22	5.29
2850E-6210N		0.26	0.017	0.4	3.04	9	<10	20	0.5	<2	0.34	0.6	10	15	16	2.16
2850E-6220N		0.22	<0.005	0.3	4.70	2	<10	30	0.8	<2	0.21	0.6	36	18	22	2.69
2875E-6100N		0.08	0.091	0.2	3.80	5	<10	20	0.5	<2	0.15	1.1	14	22	22	6.13
2875E-6110N		0.34	0.219	0.2	5.28	17	<10	20	0.7	2	0.19	0.7	19	30	35	5.51
2875E-6120N		0.14	0.093	0.2	4.75	25	<10	40	0.9	<2	0.22	0.8	11	28	30	5.08
2875E-6130N		0.16	0.211	<0.2	1.92	4	<10	10	<0.5	<2	0.23	0.8	8	19	18	5.58
2875E-6140N		0.26	0.195	<0.2	2.34	5	<10	20	<0.5	<2	0.30	0.9	13	22	16	5.61
2875E-6150N		0.34	0.299	0.2	3.76	8	<10	20	<0.5	2	0.16	1.3	8	36	28	7.63
2875E-6160N		0.22	0.098	0.2	3.84	5	<10	40	0.5	<2	0.51	0.8	33	24	26	3.56



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Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ca ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
2825E-6050N		10	<1	0.02	<10	0.20	191	1	0.02	2	320	<2	0.04	<2	3	13
2825E-6060N		<10	1	0.04	<10	0.08	415	<1	0.02	4	720	4	0.09	<2	2	12
2825E-6060N A		10	<1	0.03	<10	0.22	1110	12	0.02	2	610	4	0.05	<2	3	14
2825E-6080N		10	<1	0.03	<10	0.48	5410	4	0.02	7	520	3	0.06	<2	4	21
2825E-6090N		10	<1	0.02	<10	0.32	785	2	0.02	2	300	7	0.04	<2	2	25
2825E-6100N		<10	1	0.02	10	0.21	335	1	0.02	2	540	<2	0.05	<2	6	10
2825E-6110N		<10	1	0.03	10	0.09	3270	1	0.03	8	940	6	0.12	<2	2	23
2825E-6120N		10	<1	0.02	<10	0.57	335	1	0.02	<1	370	4	0.02	<2	5	17
2825E-6130N		10	<1	0.03	<10	0.25	693	1	0.02	2	400	5	0.04	<2	4	13
2825E-6140N		10	<1	0.02	<10	0.68	391	<1	0.02	2	330	2	0.02	<2	4	17
2825E-6150N		10	1	0.02	<10	0.15	2310	1	0.02	2	810	4	0.10	<2	4	8
2825E-6160N		10	1	0.02	<10	0.26	727	1	0.02	5	610	4	0.07	<2	6	12
2825E-6170N		10	<1	0.02	<10	0.23	579	2	0.02	2	330	5	0.03	<2	3	17
2825E-6180N		<10	1	0.02	10	0.11	1475	<1	0.02	4	670	8	0.10	<2	2	13
2825E-6190N		10	1	0.03	<10	0.38	1770	1	0.03	9	550	<2	0.07	<2	6	17
2825E-6200N		10	<1	0.02	<10	0.28	159	<1	0.02	7	130	2	0.01	<2	2	14
2825E-6210N		10	1	0.02	<10	0.46	636	<1	0.03	12	520	<2	0.05	<2	5	21
2825E-6220N		10	1	0.02	<10	2.01	1545	<1	0.03	81	370	<2	0.03	<2	6	17
2825E-6230N		10	1	0.03	<10	0.29	200	1	0.02	2	220	5	0.04	<2	4	20
2825E-6240N		10	<1	0.02	<10	0.77	825	<1	0.02	10	310	<2	0.03	<2	4	15
2825E-6250N		10	<1	0.03	<10	0.35	214	1	0.02	6	170	<2	0.02	<2	3	13
2825E-6260N		20	1	0.01	<10	0.25	200	2	0.02	<1	320	2	0.04	<2	4	15
2850E-6120N		10	<1	0.02	10	0.10	1995	1	0.03	5	620	3	0.10	<2	3	19
2850E-6130N		10	1	0.02	<10	0.36	912	1	0.02	5	990	2	0.10	<2	8	12
2850E-6140N		10	<1	0.02	<10	0.14	722	2	0.02	1	610	3	0.08	<2	3	15
2850E-6150N		10	1	0.01	<10	0.17	158	<1	0.01	1	490	<2	0.07	<2	5	9
2850E-6165N		10	<1	0.02	<10	0.26	966	2	0.02	3	360	2	0.04	<2	5	20
2850E-6170N		10	<1	0.02	<10	0.26	520	2	0.02	2	430	2	0.05	<2	5	13
2850E-6180N		10	<1	0.03	<10	0.09	367	2	0.02	5	280	10	0.03	<2	2	12
2850E-6190N		<10	1	0.03	10	0.38	2930	1	0.02	18	1100	7	0.14	<2	3	22
2850E-6200N		10	1	0.02	<10	0.31	1355	2	0.02	9	580	8	0.08	<2	4	14
2850E-6210N		<10	1	0.03	10	0.11	341	2	0.03	5	810	10	0.12	<2	2	15
2850E-6220N		<10	1	0.02	10	0.20	2060	<1	0.02	7	900	6	0.11	<2	3	11
2875E-6100N		10	1	0.02	<10	0.16	418	2	0.02	8	440	5	0.06	<2	5	11
2875E-6110N		10	1	0.01	<10	0.27	501	4	0.02	6	500	3	0.07	<2	7	12
2875E-6120N		10	1	0.02	10	0.19	417	5	0.02	5	510	7	0.07	<2	5	14
2875E-6130N		10	1	0.02	<10	0.47	364	1	0.02	5	230	6	0.03	<2	4	16
2875E-6140N		10	<1	0.03	<10	0.87	523	<1	0.02	6	330	7	0.04	<2	4	13
2875E-6150N		10	<1	0.02	<10	0.46	307	<1	0.02	9	320	4	0.06	<2	5	14
2875E-6160N		10	<1	0.02	<10	0.49	2530	<1	0.03	12	640	8	0.10	<2	4	24



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## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
2825E-6050N		<20	0.21	<10	<10	147	<10	24
2825E-6060N		<20	0.09	<10	<10	56	<10	18
2825E-6060N A		<20	0.21	<10	<10	244	<10	46
2825E-6080N		<20	0.19	<10	<10	111	<10	89
2825E-6090N		<20	0.23	<10	<10	105	<10	36
2825E-6100N		<20	0.14	<10	<10	74	<10	29
2825E-6110N		<20	0.06	<10	<10	38	<10	120
2825E-6120N		<20	0.36	<10	<10	238	<10	26
2825E-6130N		<20	0.22	<10	<10	133	<10	36
2825E-6140N		<20	0.35	<10	<10	201	<10	33
2825E-6150N		<20	0.11	<10	<10	83	<10	49
2825E-6160N		<20	0.15	<10	<10	111	<10	68
2825E-6170N		<20	0.27	<10	<10	197	<10	39
2825E-6180N		<20	0.07	<10	<10	39	<10	48
2825E-6190N		<20	0.20	<10	<10	82	<10	99
2825E-6200N		<20	0.18	<10	<10	104	<10	14
2825E-6210N		<20	0.16	<10	<10	84	<10	86
2825E-6220N		<20	0.26	<10	<10	113	<10	170
2825E-6230N		<20	0.26	<10	<10	91	<10	40
2825E-6240N		<20	0.20	<10	<10	78	<10	50
2825E-6250N		<20	0.32	<10	<10	125	<10	26
2825E-6260N		<20	0.28	<10	<10	267	<10	18
2850E-6120N		<20	0.13	<10	<10	69	<10	79
2850E-6130N		<20	0.17	<10	<10	99	<10	55
2850E-6140N		<20	0.15	<10	<10	83	<10	33
2850E-6150N		<20	0.14	<10	<10	88	<10	28
2850E-6165N		<20	0.18	<10	<10	188	<10	82
2850E-6170N		<20	0.18	<10	<10	207	<10	44
2850E-6180N		<20	0.15	<10	<10	129	<10	30
2850E-6190N		<20	0.06	<10	<10	52	<10	129
2850E-6200N		<20	0.20	<10	<10	103	<10	65
2850E-6210N		<20	0.08	<10	<10	45	<10	40
2850E-6220N		<20	0.07	<10	<10	48	<10	70
2875E-6100N		<20	0.24	<10	<10	118	<10	57
2875E-6110N		<20	0.17	<10	<10	124	<10	56
2875E-6120N		<20	0.14	<10	<10	123	<10	75
2875E-6130N		<20	0.40	<10	<10	229	<10	25
2875E-6140N		<20	0.30	<10	<10	186	<10	40
2875E-6150N		<20	0.23	<10	<10	167	<10	30
2875E-6160N		<20	0.12	<10	<10	83	<10	97



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## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units Lor	WEI-21	AU-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
2875E-6170N		0.32	0.184	0.2	3.09	8	<10	30	<0.5	<2	0.27	1.0	40	20	27	5.94
2875E-6180N		0.26	0.121	<0.2	3.35	7	<10	30	<0.5	<2	0.38	0.9	28	19	27	5.22
2875E-6190N		0.14	0.655	0.3	2.99	5	<10	40	<0.5	<2	0.27	0.7	23	13	30	3.63
2875E-6200N		0.50	1.455	0.4	5.61	7	<10	30	0.6	3	0.20	0.9	24	19	69	5.19
2875E-6210N		0.24	0.094	0.2	3.49	3	<10	40	0.6	<2	0.48	0.6	25	22	20	3.13
22300-46100		0.06	NSS	<0.2	0.84	<2	<10	10	<0.5	<2	0.13	<0.5	3	11	5	0.97
22300-46175		0.24	0.008	<0.2	0.77	<2	<10	10	<0.5	<2	0.18	<0.5	<1	5	<1	0.42
22300-46200		0.20	<0.005	<0.2	0.48	2	<10	10	<0.5	<2	0.10	<0.5	2	14	6	1.96
22300-46225		0.10	<0.005	<0.2	0.23	2	<10	10	<0.5	<2	0.09	<0.5	<1	6	1	0.21
22300-46250		0.28	<0.005	0.2	1.13	2	<10	10	<0.5	<2	0.07	0.6	4	21	9	4.43
22300-46275		0.34	<0.005	0.3	2.61	2	<10	20	<0.5	<2	0.10	1.3	3	14	9	9.40
22300-46275A		0.28	<0.005	0.2	1.72	<2	<10	10	<0.5	<2	0.22	0.6	9	23	5	3.37
22300-46300		0.26	<0.005	<0.2	1.49	<2	<10	10	<0.5	<2	0.15	0.5	2	9	4	3.55
22300-46325		0.12	NSS	<0.2	1.85	<2	<10	10	<0.5	<2	0.21	0.9	4	14	11	6.64
22300-46350		0.14	<0.005	<0.2	0.76	2	<10	10	<0.5	<2	0.09	<0.5	1	11	3	0.84
22300-46375		0.28	0.025	<0.2	0.90	2	<10	10	<0.5	<2	0.16	<0.5	2	14	3	2.36
22300-46400		0.18	0.020	<0.2	0.62	<2	<10	10	<0.5	<2	0.15	<0.5	3	4	4	1.68
22300-46425		0.16	0.012	<0.2	0.70	2	<10	10	<0.5	<2	0.10	<0.5	<1	7	3	0.50
22300-46450		0.18	0.010	<0.2	0.49	3	<10	10	<0.5	<2	0.04	0.6	1	21	<1	3.91
22350-46125		0.12	<0.005	<0.2	1.61	<2	<10	20	<0.5	<2	0.23	<0.5	4	10	5	2.22
22350-46150		0.20	<0.005	<0.2	0.93	<2	<10	20	<0.5	<2	0.11	<0.5	3	9	3	1.77
22350-46175		0.08	NSS	<0.2	1.27	<2	<10	20	<0.5	<2	0.18	<0.5	<1	18	9	0.36
22350-46200		0.20	<0.005	<0.2	0.83	<2	<10	20	<0.5	<2	0.12	<0.5	1	7	2	0.90
22350-46225		0.20	<0.005	<0.2	0.87	<2	<10	10	<0.5	<2	0.09	<0.5	3	7	7	1.32
22350-46250		0.20	<0.005	<0.2	1.48	2	<10	10	<0.5	<2	0.21	<0.5	2	14	7	1.84
22350-46275		0.34	<0.005	<0.2	0.74	2	<10	10	<0.5	<2	0.09	<0.5	<1	10	2	0.45
22350-46300		0.28	0.025	<0.2	0.81	<2	<10	10	<0.5	<2	0.09	<0.5	1	5	3	1.46
22350-46325		0.20	<0.005	<0.2	1.06	<2	<10	10	<0.5	<2	0.14	<0.5	5	13	9	1.74
22350-46350		0.14	0.005	<0.2	0.81	<2	<10	30	<0.5	<2	0.18	<0.5	3	10	6	0.89
22350-46375		0.26	0.008	<0.2	0.95	2	<10	10	<0.5	<2	0.10	<0.5	5	27	2	2.55
22350-46425		0.28	0.030	<0.2	0.36	<2	<10	10	<0.5	<2	0.07	<0.5	1	12	<1	0.49
22350-46450		0.24	<0.005	<0.2	0.73	2	<10	10	<0.5	<2	0.12	<0.5	<1	12	2	0.76
22350-46475		0.18	0.069	0.2	1.92	4	<10	10	<0.5	<2	0.08	0.9	8	20	26	6.02
22350-46500		0.28	<0.005	<0.2	0.67	<2	<10	10	<0.5	<2	0.13	<0.5	1	13	2	0.87
22350-46525		0.16	0.025	<0.2	3.52	4	<10	10	<0.5	<2	0.21	<0.5	19	40	12	7.49
22350-46550		0.46	0.006	<0.2	0.53	2	<10	<10	<0.5	<2	0.05	<0.5	<1	6	2	0.50
22350-46575		0.20	<0.005	<0.2	0.63	<2	<10	10	<0.5	<2	0.06	<0.5	2	4	1	0.63
22350-46600		0.26	<0.005	<0.2	1.07	2	<10	10	<0.5	<2	0.11	<0.5	1	5	2	0.66
22350-46625		0.16	<0.005	<0.2	0.42	2	<10	<10	<0.5	<2	0.15	<0.5	1	1	2	0.52
22350-46650		0.30	<0.005	<0.2	0.79	4	<10	10	<0.5	<2	0.23	<0.5	<1	4	1	1.24



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR	10	1	0.01	10	0.01	5	1	0.01	0.01	1	10	2	0.01	2	1	1
2875E-6170N		10	1	0.03	<10	0.48	1340	2	0.02	6	590	7	0.09	<2	4	19
2875E-6180N		10	1	0.03	<10	0.99	1905	<1	0.02	8	590	10	0.07	<2	5	22
2875E-6190N		10	1	0.03	<10	0.40	1485	1	0.02	7	700	7	0.08	<2	3	15
2875E-6200N		10	1	0.03	<10	0.21	522	1	0.02	5	680	4	0.08	<2	6	10
2875E-6210N		10	<1	0.02	<10	0.28	1935	1	0.02	12	740	6	0.10	<2	3	18
22300-46100		10	<1	0.03	<10	0.23	125	<1	0.02	5	360	7	0.06	<2	2	12
22300-46175		10	<1	0.01	<10	0.08	58	<1	0.01	1	150	10	0.03	<2	1	13
22300-46200		10	<1	0.02	<10	0.10	103	<1	0.01	2	150	6	0.02	<2	1	9
22300-46225		<10	<1	0.03	<10	0.02	75	<1	0.02	1	250	5	0.05	<2	1	9
22300-46250		10	<1	0.03	<10	0.28	193	<1	0.01	3	120	6	0.02	<2	4	8
22300-46275		30	<1	0.03	<10	0.30	229	1	0.02	1	240	8	0.03	<2	4	10
22300-46275A		10	<1	0.04	<10	0.61	279	<1	0.02	6	170	9	0.04	<2	3	18
22300-46300		20	<1	0.03	<10	0.16	141	<1	0.01	2	170	13	0.03	<2	3	15
22300-46325		20	<1	0.03	<10	0.43	217	<1	0.02	3	210	9	0.04	<2	3	14
22300-46350		10	<1	0.04	<10	0.05	60	<1	0.02	3	270	7	0.05	<2	2	8
22300-46375		20	<1	0.02	<10	0.20	127	<1	0.01	1	80	7	0.01	<2	2	14
22300-46400		10	<1	0.02	<10	0.30	133	<1	0.01	1	150	8	0.02	<2	2	12
22300-46425		10	<1	0.02	<10	0.06	43	<1	0.01	2	190	10	0.04	<2	1	8
22300-46450		<10	<1	0.04	<10	0.12	72	<1	0.01	3	150	7	0.03	<2	2	3
22350-46125		10	<1	0.03	<10	0.23	177	<1	0.02	2	130	5	0.02	<2	3	29
22350-46150		10	<1	0.04	<10	0.24	159	<1	0.02	2	150	6	0.03	<2	3	7
22350-46175		10	1	0.03	<10	0.05	48	<1	0.02	7	650	8	0.13	<2	1	11
22350-46200		10	<1	0.03	<10	0.07	64	<1	0.01	2	120	6	0.02	<2	1	11
22350-46225		10	<1	0.02	<10	0.17	100	<1	0.01	3	150	5	0.02	<2	3	8
22350-46250		10	<1	0.02	<10	0.16	88	<1	0.01	7	90	8	0.02	<2	3	19
22350-46275		10	<1	0.02	<10	0.05	26	<1	0.01	2	120	5	0.02	<2	2	8
22350-46300		10	<1	0.01	<10	0.11	74	<1	0.01	<1	70	7	0.01	<2	2	7
22350-46325		10	<1	0.02	<10	0.15	67	<1	0.01	2	100	6	0.01	<2	3	12
22350-46350		10	<1	0.03	<10	0.14	77	<1	0.01	5	140	6	0.02	<2	1	16
22350-46375		10	<1	0.02	<10	0.39	145	<1	0.01	4	130	4	0.02	<2	3	10
22350-46425		<10	<1	0.01	<10	0.12	52	<1	0.01	2	110	15	0.02	<2	2	6
22350-46450		10	<1	0.03	<10	0.06	37	<1	0.01	2	170	11	0.03	<2	2	12
22350-46475		10	1	0.04	<10	0.61	257	<1	0.02	5	330	7	0.11	<2	4	7
22350-46500		10	<1	0.02	<10	0.14	64	<1	0.02	1	190	10	0.04	<2	2	13
22350-46525		20	<1	0.03	<10	1.26	330	6	0.03	14	310	6	0.09	<2	6	7
22350-46550		10	<1	0.02	<10	0.03	29	<1	0.01	<1	80	9	0.01	<2	1	5
22350-46575		10	<1	0.02	<10	0.09	67	<1	0.01	<1	120	9	0.02	<2	1	6
22350-46600		10	<1	0.03	<10	0.09	64	<1	0.01	1	160	10	0.02	<2	2	11
22350-46625		<10	<1	0.01	<10	0.06	42	<1	0.01	<1	110	7	0.01	<2	1	12
22350-46650		20	<1	0.01	<10	0.06	42	<1	0.01	<1	70	8	0.01	<2	2	12



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Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
2875E-6170N		<20	0.18	<10	<10	131	<10	41
2875E-6180N		<20	0.19	<10	<10	130	<10	71
2875E-6190N		<20	0.07	<10	<10	75	<10	63
2875E-6200N		<20	0.08	<10	<10	93	<10	72
2875E-6210N		<20	0.10	<10	<10	60	<10	87
22300-46100		<20	0.10	<10	<10	53	<10	15
22300-46175		<20	0.18	<10	<10	73	<10	5
22300-46200		<20	0.19	<10	<10	112	<10	8
22300-46225		<20	0.06	<10	<10	28	<10	8
22300-46250		<20	0.23	<10	<10	189	<10	13
22300-46275		<20	0.22	<10	<10	363	<10	22
22300-46275A		<20	0.34	<10	<10	149	<10	35
22300-46300		<20	0.27	<10	<10	174	<10	14
22300-46325		<20	0.33	<10	<10	200	<10	23
22300-46350		<20	0.11	<10	<10	68	<10	10
22300-46375		<20	0.38	<10	<10	263	<10	12
22300-46400		<20	0.28	<10	<10	168	<10	15
22300-46425		<20	0.22	<10	<10	73	<10	7
22300-46450		<20	0.23	<10	<10	102	<10	9
22350-46125		<20	0.17	<10	<10	103	<10	12
22350-46150		<20	0.14	<10	<10	112	<10	12
22350-46175		<20	0.02	<10	<10	29	<10	20
22350-46200		<20	0.10	<10	<10	64	<10	6
22350-46225		<20	0.11	<10	<10	118	<10	11
22350-46250		<20	0.11	<10	<10	107	<10	13
22350-46275		<20	0.06	<10	<10	49	<10	4
22350-46300		<20	0.24	<10	<10	123	<10	5
22350-46325		<20	0.13	<10	<10	111	<10	9
22350-46350		<20	0.14	<10	<10	53	<10	10
22350-46375		<20	0.16	<10	<10	142	<10	15
22350-46425		<20	0.18	<10	<10	54	<10	7
22350-46450		<20	0.24	<10	<10	124	<10	6
22350-46475		<20	0.34	<10	<10	196	<10	32
22350-46500		<20	0.29	<10	<10	110	<10	9
22350-46525		<20	0.06	<10	<10	176	<10	63
22350-46550		<20	0.19	<10	<10	76	<10	5
22350-46575		<20	0.22	<10	<10	75	<10	9
22350-46600		<20	0.13	<10	<10	107	<10	8
22350-46625		<20	0.15	<10	<10	78	<10	6
22350-46650		<20	0.31	<10	<10	170	<10	3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Account: PJA

Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
22350-46700		0.20	0.005	<0.2	0.86	2	<10	10	<0.5	<2	0.22	<0.5	1	6	2	0.98
22400-46200		0.20	0.010	<0.2	0.35	3	<10	10	<0.5	<2	0.13	<0.5	<1	3	1	0.28
22400-46225		0.22	0.006	<0.2	1.58	3	<10	10	<0.5	<2	0.07	<0.5	1	10	3	0.72
22400-46250		0.28	<0.005	<0.2	0.40	<2	<10	<10	<0.5	<2	0.08	<0.5	1	3	1	0.34
22400-46275		0.14	0.006	<0.2	0.99	<2	<10	10	<0.5	<2	0.31	<0.5	1	9	3	0.86
22400-46300		0.16	<0.005	<0.2	0.93	3	<10	20	<0.5	<2	0.11	<0.5	1	6	1	0.32
22400-46325		0.22	<0.005	<0.2	0.80	2	<10	10	<0.5	<2	0.22	<0.5	2	17	2	1.63
22400-46350		0.32	0.016	<0.2	2.12	2	<10	10	<0.5	<2	0.19	0.5	2	30	14	5.24
22400-46375		0.26	<0.005	<0.2	0.83	<2	<10	10	<0.5	<2	0.11	<0.5	2	5	2	0.70
22400-46400		0.26	0.006	<0.2	1.53	2	<10	10	<0.5	<2	0.14	<0.5	1	17	4	3.06
22400-46425		0.28	0.010	<0.2	1.39	3	<10	20	<0.5	<2	0.24	<0.5	4	11	2	2.48
22400-46450		0.26	0.008	<0.2	1.45	2	<10	20	<0.5	<2	0.24	0.5	10	14	4	3.15
22400-46475		0.26	NSS	<0.2	1.63	<2	<10	10	<0.5	<2	0.06	0.7	16	20	15	4.77
22400-46500		0.14	0.024	0.2	1.72	4	<10	10	<0.5	<2	0.14	0.6	3	17	7	4.69
22400-46525		0.22	0.012	<0.2	0.78	3	<10	10	<0.5	<2	0.09	<0.5	1	3	3	1.09
22400-46550		0.02	NSS	<0.2	1.53	<2	<10	<10	<0.5	<2	0.46	<0.5	11	3	2	2.94
22400-46575		0.14	0.010	<0.2	1.38	<2	<10	10	<0.5	<2	0.12	<0.5	2	5	5	2.34
22400-46650		0.14	0.007	<0.2	0.77	2	<10	10	<0.5	<2	0.16	<0.5	3	5	2	1.22
22400-46675		0.26	<0.005	<0.2	1.25	<2	<10	10	<0.5	<2	0.10	<0.5	1	10	4	2.60
22400-46700		0.08	0.025	<0.2	0.22	<2	<10	10	<0.5	<2	0.11	<0.5	<1	2	1	0.18
322400-446600		0.30	0.005	<0.2	1.16	2	<10	10	<0.5	<2	0.11	0.6	<1	13	6	5.19
5200-4425		0.18	<0.005	<0.2	3.14	3	<10	30	<0.5	<2	0.21	0.8	20	36	19	5.92
5200-4450		0.22	0.009	<0.2	1.53	3	<10	20	<0.5	<2	0.25	0.5	2	12	7	4.17
5200-4475		0.10	0.026	0.2	2.64	3	<10	20	<0.5	2	0.11	0.9	10	16	16	7.59
5200-4500		0.08	0.005	<0.2	0.78	2	<10	10	<0.5	<2	0.39	<0.5	7	7	9	1.30
5200-4525		0.12	<0.005	<0.2	1.08	<2	<10	20	<0.5	<2	0.26	<0.5	4	5	5	1.05
5200-4550		0.14	0.025	<0.2	2.10	2	<10	30	<0.5	<2	0.27	<0.5	5	11	8	3.52
5200-4575		0.24	<0.005	<0.2	1.21	<2	<10	10	<0.5	<2	0.29	0.5	3	13	5	3.29
5200-4600		0.10	0.012	<0.2	0.72	<2	<10	10	<0.5	<2	0.23	<0.5	3	8	5	2.66
5200-4625		0.20	<0.005	<0.2	0.93	<2	<10	10	<0.5	<2	0.32	<0.5	3	10	3	1.63
5200-4650		0.20	<0.005	<0.2	0.56	2	<10	10	<0.5	<2	0.11	<0.5	<1	9	2	0.88
5200-4675		0.24	NSS	<0.2	0.94	3	<10	10	<0.5	<2	0.16	<0.5	3	8	2	1.16
5200-4700		0.20	0.011	0.2	4.99	<2	<10	40	0.5	<2	0.17	<0.5	13	37	89	1.02
5200-4725		0.12	<0.005	<0.2	1.01	<2	<10	10	<0.5	<2	0.10	<0.5	4	9	2	1.23
46700-22350		0.32	<0.005	<0.2	1.43	2	<10	10	<0.5	<2	0.09	<0.5	4	10	4	1.91
22315-46630N		0.22	<0.005	<0.2	1.36	<2	<10	10	<0.5	<2	0.08	<0.5	1	14	6	1.03
0322231-5446655		0.16	0.006	0.2	13.55	12	<10	10	<0.5	<2	0.03	<0.5	2	30	70	7.42



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Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
22350-46700		10	<1	0.02	<10	0.09	81	<1	0.01	<1	90	9	0.02	<2	2	17
22400-46200		10	<1	0.02	<10	0.03	26	<1	0.01	<1	210	11	0.03	<2	2	11
22400-46225		20	<1	0.02	<10	0.07	55	<1	0.01	<1	70	9	0.03	<2	2	7
22400-46250		<10	<1	0.01	<10	0.04	27	<1	0.01	<1	100	4	0.01	<2	1	7
22400-46275		10	<1	0.02	<10	0.12	75	<1	0.01	2	100	7	0.02	<2	2	26
22400-46300		10	<1	0.04	<10	0.06	30	<1	0.01	1	130	8	0.02	<2	2	12
22400-46325		10	<1	0.01	<10	0.14	83	<1	0.01	2	80	6	0.01	<2	2	19
22400-46350		20	<1	0.03	<10	0.22	113	<1	0.01	3	190	8	0.03	<2	3	18
22400-46375		10	<1	0.02	<10	0.16	76	<1	0.01	<1	160	8	0.02	<2	3	10
22400-46400		20	<1	0.02	<10	0.16	92	<1	0.01	1	100	9	0.02	<2	3	13
22400-46425		10	<1	0.02	<10	0.24	178	<1	0.01	1	90	7	0.01	<2	2	18
22400-46450		10	<1	0.03	<10	0.50	305	<1	0.01	4	140	6	0.02	<2	3	27
22400-46475		10	<1	0.02	<10	0.73	262	<1	0.02	4	200	2	0.03	<2	5	5
22400-46500		20	<1	0.03	<10	0.28	150	<1	0.02	3	300	9	0.07	<2	3	14
22400-46525		10	<1	0.02	<10	0.08	96	<1	0.02	<1	150	6	0.04	<2	1	9
22400-46550		10	<1	0.01	<10	0.97	408	<1	0.02	2	200	7	0.01	<2	4	30
22400-46575		10	<1	0.03	<10	0.16	127	<1	0.02	1	150	4	0.02	<2	3	10
22400-46650		10	<1	0.02	<10	0.21	103	<1	0.01	1	130	4	0.02	<2	2	15
22400-46675		10	<1	0.02	<10	0.13	69	<1	0.01	1	100	6	0.02	<2	2	13
22400-46700		<10	<1	0.03	<10	0.03	43	<1	0.02	<1	140	6	0.02	<2	1	11
322400-446600		20	<1	0.02	<10	0.07	58	<1	0.01	4	150	9	0.03	<2	2	11
5200-4425		10	<1	0.03	<10	0.23	1225	<1	0.02	5	450	7	0.03	<2	4	20
5200-4450		20	<1	0.02	<10	0.09	98	<1	0.01	2	170	7	0.02	<2	3	24
5200-4475		10	<1	0.05	<10	0.10	434	<1	0.02	3	630	7	0.08	<2	3	10
5200-4500		10	<1	0.02	<10	0.26	187	<1	0.02	5	270	9	0.02	<2	3	27
5200-4525		10	<1	0.03	<10	0.11	90	<1	0.01	1	140	8	0.02	<2	3	25
5200-4550		10	<1	0.04	<10	0.32	220	<1	0.01	3	190	7	0.02	<2	3	33
5200-4575		20	<1	0.01	<10	0.25	139	<1	0.01	3	150	9	0.02	<2	3	21
5200-4600		10	<1	0.02	<10	0.19	118	<1	0.01	1	170	8	0.02	<2	3	17
5200-4625		10	<1	0.02	<10	0.19	116	<1	0.01	2	110	7	0.02	<2	4	31
5200-4650		10	<1	0.02	<10	0.04	45	1	0.03	1	100	9	0.06	<2	1	7
5200-4675		10	<1	0.03	<10	0.13	91	<1	0.03	1	120	5	0.06	<2	2	19
5200-4700		10	<1	0.02	10	0.24	156	<1	0.03	10	1540	7	0.13	<2	7	10
5200-4725		10	<1	0.02	<10	0.15	86	<1	0.03	2	110	3	0.05	<2	2	8
46700-22350		20	<1	0.02	<10	0.25	117	1	0.03	1	90	5	0.05	<2	3	9
22315-46630N		20	<1	0.03	<10	0.05	41	2	0.03	2	150	11	0.06	<2	2	7
0322231-5446655		10	2	0.01	<10	0.09	71	1	0.03	1	360	<2	0.85	3	31	2





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## CERTIFICATE OF ANALYSIS VA10091131

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
22350-46700		<20	0.31	<10	<10	127	<10	6
22400-46200		<20	0.54	<10	<10	47	<10	8
22400-46225		<20	0.09	<10	<10	92	<10	6
22400-46250		<20	0.10	<10	<10	41	<10	4
22400-46275		<20	0.16	<10	<10	99	<10	7
22400-46300		<20	0.09	<10	<10	57	<10	6
22400-46325		<20	0.21	<10	<10	115	<10	10
22400-46350		<20	0.38	<10	<10	217	<10	16
22400-46375		<20	0.12	<10	<10	77	<10	8
22400-46400		<20	0.32	<10	<10	191	<10	10
22400-46425		<20	0.25	<10	<10	157	<10	15
22400-46450		<20	0.31	<10	<10	183	<10	24
22400-46475		<20	0.01	<10	<10	172	<10	26
22400-46500		<20	0.20	<10	<10	185	<10	17
22400-46525		<20	0.20	<10	<10	41	<10	11
22400-46550		<20	0.52	<10	<10	118	<10	47
22400-46575		<20	0.22	<10	<10	177	<10	11
22400-46650		<20	0.08	<10	<10	78	<10	12
22400-46675		<20	0.25	<10	<10	145	<10	9
22400-46700		<20	0.09	<10	<10	33	<10	6
322400-446600		<20	0.17	<10	<10	202	<10	9
5200-4425		<20	0.17	<10	<10	152	<10	36
5200-4450		<20	0.37	<10	<10	244	<10	9
5200-4475		<20	0.22	<10	<10	176	<10	16
5200-4500		<20	0.21	<10	<10	88	<10	15
5200-4525		<20	0.17	<10	<10	105	<10	7
5200-4550		<20	0.18	<10	<10	158	<10	15
5200-4575		<20	0.59	<10	<10	325	<10	17
5200-4600		<20	0.41	<10	<10	242	<10	10
5200-4625		<20	0.28	<10	<10	159	<10	9
5200-4650		<20	0.43	<10	<10	207	<10	6
5200-4675		<20	0.16	<10	<10	102	<10	9
5200-4700		<20	0.09	<10	<10	44	<10	24
5200-4725		<20	0.17	<10	<10	71	<10	11
46700-22350		<20	0.24	<10	<10	133	<10	13
22315-46630N		<20	0.29	<10	<10	109	<10	6
0322231-5446655		<20	0.19	<10	<10	52	<10	12

Appendix 2.3: ALS Certificate No. VA10091132



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Finalized Date: 14-JUL-2010

This copy reported on 16-JUL-2010

Account: PJA

**CERTIFICATE VA10091132**

Project: KENNEDY LAKE

P.O. No.:

This report is for 27 Rock samples submitted to our lab in Vancouver, BC, Canada on 6-JUL-2010.

The following have access to data associated with this certificate:

CARL V. EINSIEDEL

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: RAM EXPLORATION LTD.  
ATTN: CARL V. EINSIEDEL  
8888 SHOOK ROAD  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Total # Pages: 2 (A - C)  
Finalized Date: 14-JUL-2010  
Account: PJA

Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10091132

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CVE 001		0.20	0.028	<0.2	0.57	2	<10	40	<0.5	<2	0.04	<0.5	12	43	4	2.15
CVE 002		0.18	<0.005	<0.2	1.09	3	<10	30	<0.5	<2	0.05	<0.5	7	14	49	2.72
CVE 003		0.16	<0.005	<0.2	1.37	2	<10	50	<0.5	<2	0.50	<0.5	8	11	28	2.40
CVE 004		0.50	0.206	<0.2	0.16	3	<10	10	<0.5	<2	0.01	<0.5	3	8	13	0.71
CVE 004A		0.76	0.167	<0.2	0.18	<2	<10	10	<0.5	<2	0.01	<0.5	2	7	12	0.60
CVE 005		0.42	0.010	0.4	2.13	3	<10	60	<0.5	<2	1.56	<0.5	29	20	261	3.35
CVE 006		0.06	<0.005	<0.2	3.19	<2	<10	10	<0.5	<2	0.53	<0.5	25	64	15	5.55
CVE 007		0.16	0.264	<0.2	0.14	<2	<10	20	<0.5	<2	0.01	<0.5	1	6	5	0.78
CVE 008		0.62	0.082	<0.2	0.73	2	<10	90	<0.5	<2	0.09	<0.5	8	18	7	1.61
CVE 009		0.06	0.005	<0.2	1.04	7	<10	10	<0.5	<2	0.74	<0.5	9	19	24	2.43
CVE 010		0.38	<0.005	<0.2	0.17	6	<10	10	<0.5	<2	>25.0	<0.5	1	1	16	0.15
CVE 011		0.12	0.032	<0.2	2.65	3	<10	30	<0.5	<2	2.41	<0.5	16	121	1	3.04
CVE 012		0.20	0.005	<0.2	2.68	18	<10	20	<0.5	<2	5.29	<0.5	18	14	77	4.24
QT2-5		2.22	0.093	<0.2	0.18	<2	<10	10	<0.5	<2	0.06	<0.5	6	15	2	1.21
QT2-6-1		0.78	0.081	7.3	0.13	3	<10	10	<0.5	13	0.02	3.2	2	13	97	1.85
QT2-6-2		0.48	0.081	6.6	0.22	4	<10	10	<0.5	9	0.02	5.2	4	8	405	2.90
QT2-6A-1		0.16	<0.005	0.8	0.15	<2	<10	10	<0.5	3	0.03	<0.5	1	9	12	0.77
QT2-6A-2		0.62	<0.005	0.3	0.24	<2	<10	10	<0.5	4	0.03	<0.5	1	9	15	0.87
QT2-6A-3		0.12	<0.005	<0.2	0.56	<2	<10	10	<0.5	<2	0.06	<0.5	3	11	15	0.95
QT2-6A-4		0.14	0.006	<0.2	1.43	4	<10	130	<0.5	<2	0.18	<0.5	10	41	15	2.44
QT2-6B-1		0.38	0.025	2.1	0.38	3	<10	20	<0.5	16	0.05	<0.5	3	16	42	0.89
QT2-6B-2		0.50	0.015	1.4	0.23	2	<10	10	<0.5	21	0.03	<0.5	1	9	31	0.49
KL 1 HW		0.82	0.005	<0.2	3.14	<2	<10	30	<0.5	<2	1.73	<0.5	12	2	30	4.69
KL 2		1.20	0.332	1.1	1.14	<2	<10	40	<0.5	<2	0.37	<0.5	8	11	379	2.15
KL 2 HW		2.26	0.041	0.3	3.73	2	<10	40	<0.5	<2	1.45	<0.5	22	13	22	5.65
KL 3-Q		2.04	<0.005	<0.2	0.26	2	<10	20	<0.5	<2	0.05	<0.5	1	9	2	0.71
KL 4-Q		0.98	1.245	3.2	0.27	<2	<10	10	<0.5	<2	0.01	<0.5	3	8	580	1.20



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Finalized Date: 14-JUL-2010

Account: PJA

Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10091132

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CVE 001		<10	<1	0.07	<10	0.39	219	<1	<0.01	13	160	2	0.54	<2	1	1
CVE 002		<10	<1	0.09	<10	0.56	264	<1	0.01	3	270	<2	<0.01	2	2	<1
CVE 003		<10	<1	0.12	<10	0.54	314	<1	0.02	4	90	3	0.05	2	4	54
CVE 004		<10	<1	0.03	<10	0.05	222	<1	<0.01	1	20	2	0.01	<2	<1	<1
CVE 004A		<10	<1	0.04	<10	0.04	215	<1	<0.01	1	20	2	<0.01	<2	<1	<1
CVE 005		10	<1	0.16	<10	0.85	828	<1	0.20	5	730	3	0.56	<2	5	60
CVE 006		10	<1	0.03	<10	2.30	1140	<1	0.04	12	300	<2	0.01	<2	12	25
CVE 007		<10	<1	0.06	<10	0.01	98	<1	<0.01	1	20	2	<0.01	<2	<1	<1
CVE 008		<10	<1	0.15	<10	0.40	218	<1	0.01	6	230	3	0.19	<2	2	1
CVE 009		<10	<1	0.02	<10	0.40	320	<1	0.01	11	120	2	<0.01	<2	4	121
CVE 010		<10	<1	<0.01	<10	0.05	84	<1	0.01	1	110	2	<0.01	<2	<1	838
CVE 011		10	<1	0.02	<10	1.73	475	<1	0.20	42	1210	<2	<0.01	<2	4	134
CVE 012		10	<1	0.03	<10	1.16	581	<1	0.03	12	730	7	0.06	2	4	126
QT2-5		<10	<1	0.01	<10	0.13	129	<1	<0.01	4	50	<2	0.15	<2	1	<1
QT2-6-1		<10	<1	0.03	<10	0.02	58	<1	<0.01	2	30	13	0.18	<2	<1	<1
QT2-6-2		<10	<1	0.05	<10	0.06	82	<1	<0.01	2	70	24	0.85	<2	<1	<1
QT2-6A-1		<10	<1	0.02	<10	0.04	89	<1	<0.01	2	20	4	<0.01	<2	<1	<1
QT2-6A-2		<10	<1	0.03	<10	0.09	176	<1	<0.01	2	40	4	<0.01	<2	1	<1
QT2-6A-3		<10	<1	0.02	<10	0.12	142	<1	0.01	4	80	4	0.01	<2	1	2
QT2-6A-4		<10	<1	0.20	<10	0.71	3550	<1	0.01	29	480	5	<0.01	2	5	3
QT2-6B-1		<10	<1	0.04	<10	0.11	143	<1	<0.01	4	50	9	<0.01	<2	1	<1
QT2-6B-2		<10	<1	0.02	<10	0.07	79	<1	<0.01	3	30	8	<0.01	<2	1	<1
KL 1 HW		10	<1	0.12	10	1.48	1290	<1	0.06	<1	1860	<2	<0.01	2	6	53
KL 2		<10	<1	0.11	<10	0.51	913	<1	0.02	6	190	2	0.09	<2	3	6
KL 2 HW		10	<1	0.14	10	1.97	1435	<1	0.03	18	1310	<2	0.07	<2	9	18
KL 3-Q		<10	<1	0.04	<10	0.10	161	<1	<0.01	1	80	<2	<0.01	<2	1	1
KL 4-Q		<10	<1	0.03	<10	0.09	407	<1	0.01	1	60	2	0.10	<2	1	<1



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Finalized Date: 14-JUL-2010

Account: PJA

Project: KENNEDY LAKE

## CERTIFICATE OF ANALYSIS VA10091132

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CVE 001		<20	0.01	<10	<10	18	<10	21
CVE 002		<20	0.07	<10	<10	27	<10	25
CVE 003		<20	0.09	<10	<10	70	<10	24
CVE 004		<20	<0.01	<10	<10	5	<10	3
CVE 004A		<20	<0.01	<10	<10	4	<10	3
CVE 005		<20	0.18	<10	<10	85	<10	62
CVE 006		<20	0.38	<10	<10	219	<10	88
CVE 007		<20	0.01	<10	<10	3	<10	<2
CVE 008		<20	0.05	<10	<10	22	<10	16
CVE 009		<20	0.10	<10	<10	75	<10	13
CVE 010		<20	0.01	<10	10	5	<10	28
CVE 011		<20	0.28	<10	<10	97	<10	29
CVE 012		<20	0.18	<10	<10	107	<10	83
QT2-5		<20	<0.01	<10	<10	7	<10	6
QT2-6-1		<20	0.01	<10	<10	5	<10	219
QT2-6-2		<20	0.03	<10	<10	7	<10	347
QT2-6A-1		<20	0.01	<10	<10	4	<10	30
QT2-6A-2		<20	0.02	<10	<10	7	<10	41
QT2-6A-3		<20	0.06	<10	<10	22	<10	26
QT2-6A-4		<20	0.06	<10	<10	27	<10	35
QT2-6B-1		<20	0.03	<10	<10	11	<10	136
QT2-6B-2		<20	0.02	<10	<10	6	<10	124
KL 1 HW		<20	0.02	<10	<10	54	<10	102
KL 2		<20	<0.01	<10	<10	17	<10	40
KL 2 HW		<20	0.01	<10	<10	54	<10	145
KL 3-Q		<20	<0.01	<10	<10	8	<10	7
KL 4-Q		<20	<0.01	<10	<10	9	<10	8

Appendix 3.1: Kennedy River Project 3D IP Data Processing Memo, SJ Geophysics July 12<sup>th</sup> 2010



***SJ Geophysics Ltd.***  
***S.J.V. Consultants Ltd.***



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www.sjgeophysics.com

**MEMORANDUM**

Date: July 12, 2010  
From: Brian Chen  
To: Carl Von Einsiedel, Ram Explorations Ltd

**SUBJECT: 3D IP and Magnetometer Survey and Data Processing**

**1. Introduction**

The purpose of this memo is to briefly summarize the field logistics of the geophysical survey performed by SJ Geophysics Ltd. between June 23<sup>rd</sup> and June 25<sup>th</sup>, 2010 for Ram Explorations Ltd on its Kennedy Lake project. This memo will also discuss the data processing stage that took place at the offices of S.J.V. Consultants Ltd., a summary of the survey results and recommendations as to how to move forward with respect to exploration in the Kennedy Lake area. For more detailed information on the survey logistics and parameters, please refer to the logistical report.

The survey grid consisted of three northwest trending lines (5000N, 5200E, and 5400N) with 140m line spacing with an azimuth of 315° (Figure 1). Stations (4000E to 5000E) were flagged at 25m intervals along the 1km long lines. The grid is located in an inactive logging area and fallen logs, tree stumps and rotten branches can be seen scattered on the ground. There are two inactive logging roads intersecting the grid, one of which is located at the foot of a hill. To the east of this road is the lower elevation portion of the grid, which is relatively flat and covered in dense shrubbery. To the west of the road is the side of the hill with a few cliffs. The second road was found while the crew was marking stations and intersects the central and northeastern lines. A four-wheel drive truck can be driven up to the end of this road to station 4425E on the central line 5200N. Walking northwest along the survey lines, starting from station 5000E,



approximately 200m of the lines was located in the lower flat ground with dense shrub, while the rest of the grid was on the side of a steep hill. The lines were uncut at the time of the survey.

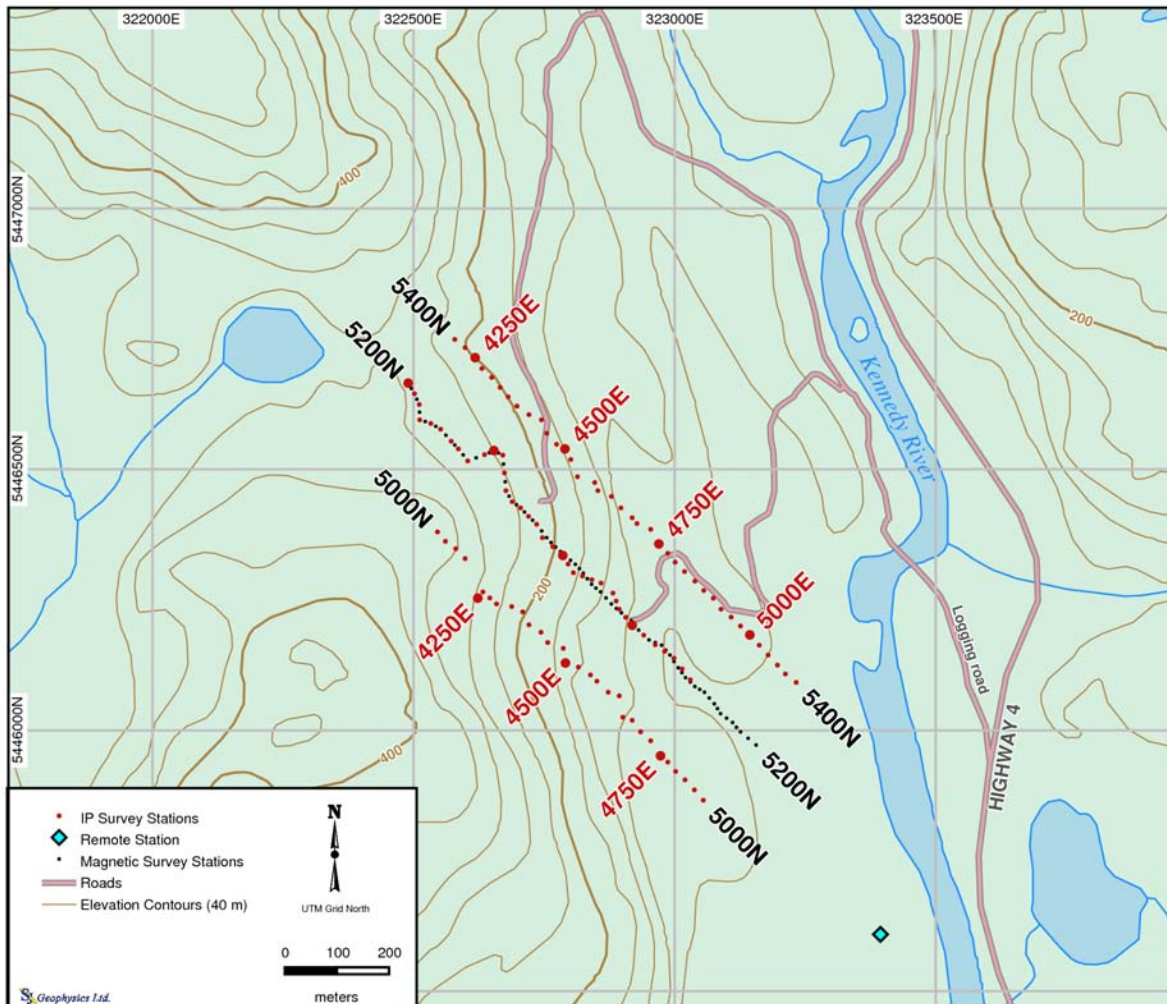


Figure 1: Grid Map.

Originally, the crew had planned to survey the grid with three geophysical methods: three-dimensional induced polarization (3DIP), magnetometer, and horizontal loop EM (MaxMin). However, due to the steep terrain and thick bush coverage, the MaxMin survey was cancelled.

## 2. Magnetometer survey

Two magnetometers were used in the survey. One unit was used as a stationary base station to measure the diurnal variations of the earth's magnetic field. One reading was taken every 10

seconds to ensure the maximum accuracy possible. The other unit was used as mobile unit which moved along survey line and acquired data at 12.5m intervals. The base station and mobile units were time synchronized in order to be able to apply the diurnal correction at each point in time mobile data was taken. The formula used for diurnal correction is as follows:

$$DC = MR - BS + Datum$$

Where DC is the diurnally corrected reading, MR is the mobile reading, BS is the base station reading taken at the same time as the mobile reading and Datum is a constant total magnetic field strength chosen based on the area in which the survey takes place. In the case of this survey, the datum used was 55270 nT. The corrected total field magnetic intensity profile with a preliminary interpretation is shown below in Figure 2.

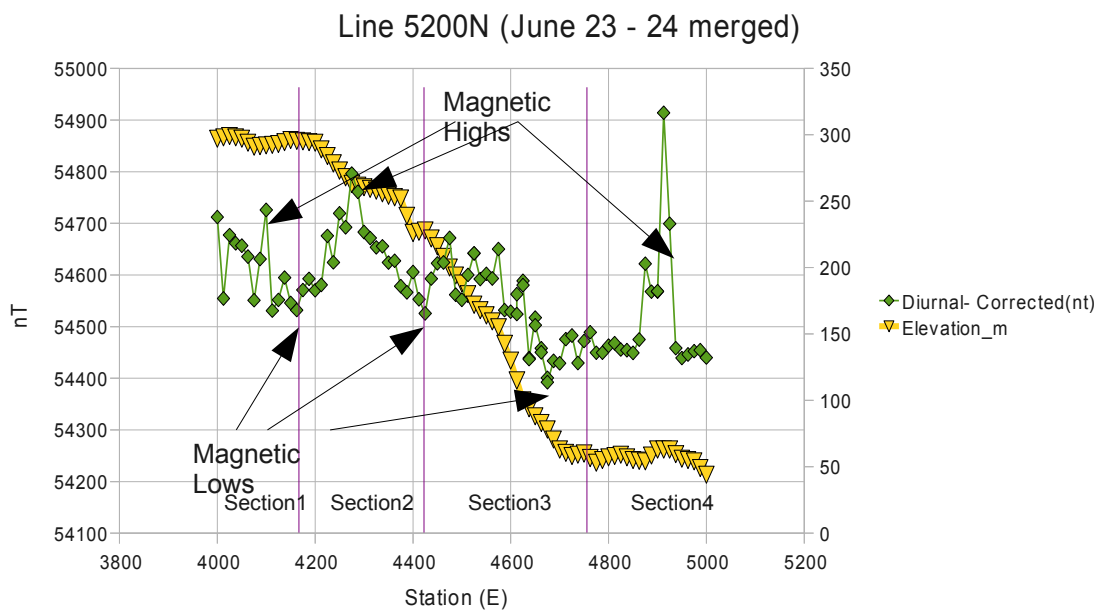


Figure 2: Total Field Magnetic Intensity Profile

The total field magnetic intensity profile can be roughly divided into four sections, which are bound by magnetic lows and a change in magnetic response pattern. These sections may be related to different geological units, as magnetic lows are often caused by faults, contacts or both. The magnetic highs, like the interesting one in section four, may suggest the existence of magnetic minerals like magnetite.

### **3. 3DIP survey**

#### **3.1 Data Collection**

The IP receiver was setup on the central line (5200N) with 16 dipoles spaced 50 m apart. One current remote was placed about 400m off the south end of the grid. The overburden was about 0-0.2m in thickness at the higher elevation portion of the survey area. At quite a few stations, the crew had to move electrodes to get good ground contact on both the receiver and current lines. With a single 3.6KW GDD transmitter, the injected current values ranged from 65 to 1100 mA. The IP signals were quite strong, considering the low current injection. For example, with injection current values of 65mA, the  $V_p$  of the far end dipole was above 8mV. These strong IP signals suggest that future IP surveys conducted in the area have a good chance of acquiring high quality data. Steep terrain caused the decay curves of some of the dipoles to be abnormal, but this problem could be easily solved by using multiple electrodes. The suspicious decay curves were deleted and excluded from the inversion process. The quality-controlled data were then inverted with the UBC GIF IP inversion program.

#### **3.2 Summary of the Inversion Results**

Figure 3 on the next page shows portions of the inversion models. There is a resistivity contact zone running across the grid around the foot of the hill. Northwest of this contact, the ground is characterized by high resistivity with multiple linear low-resistivity features running through it. The ground resistivity is lower to the southeast of the contact. The survey reveals two chargeability highs near the ends of both the lower and upper roads. The chargeability highs near the lower road is situated in the resistivity contact zone and coincides with magnetic highs. It is an interesting feature worth further exploration (Figure 4).

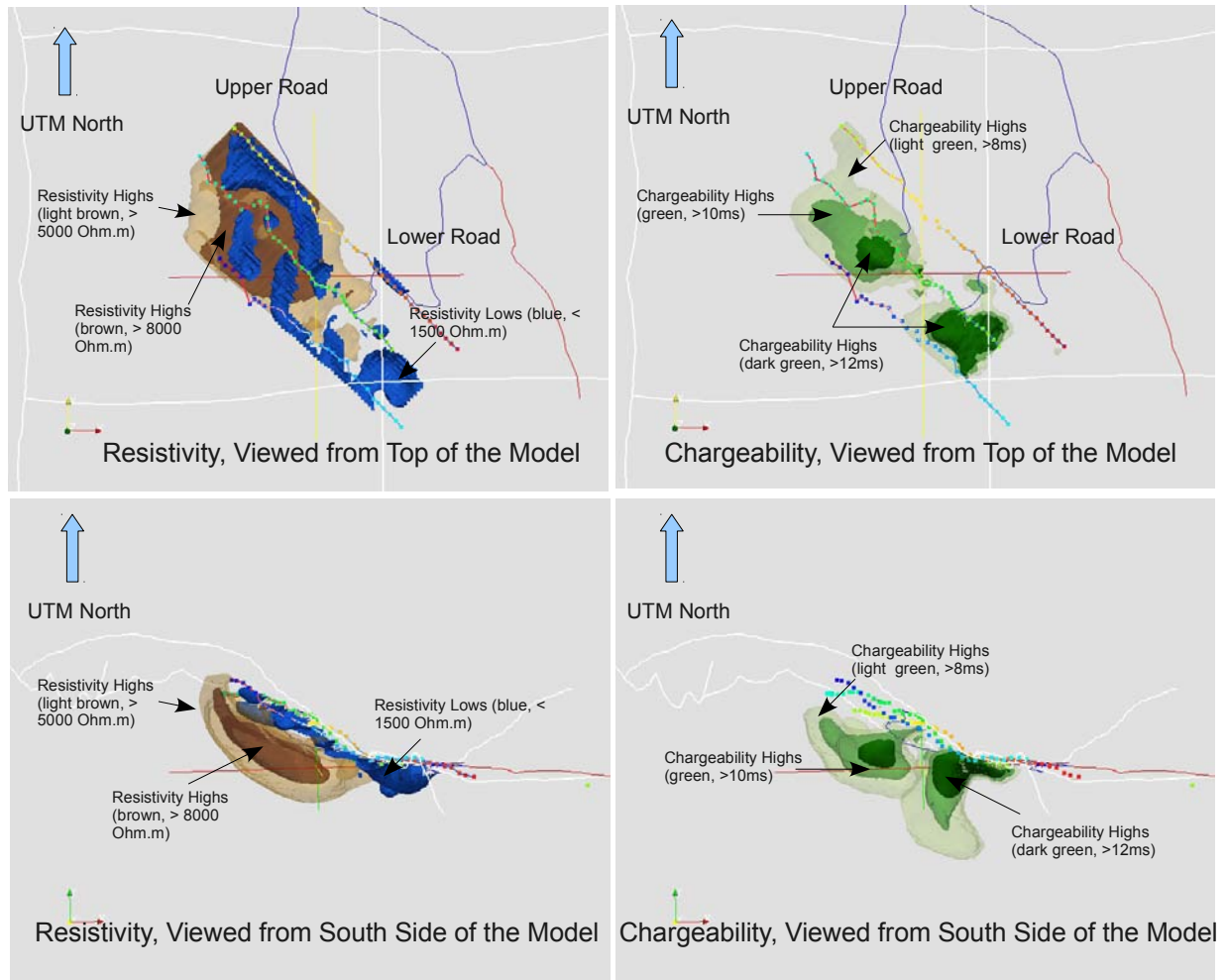


Figure 3: Inversion Models (Resistivity and Chargeability separated)

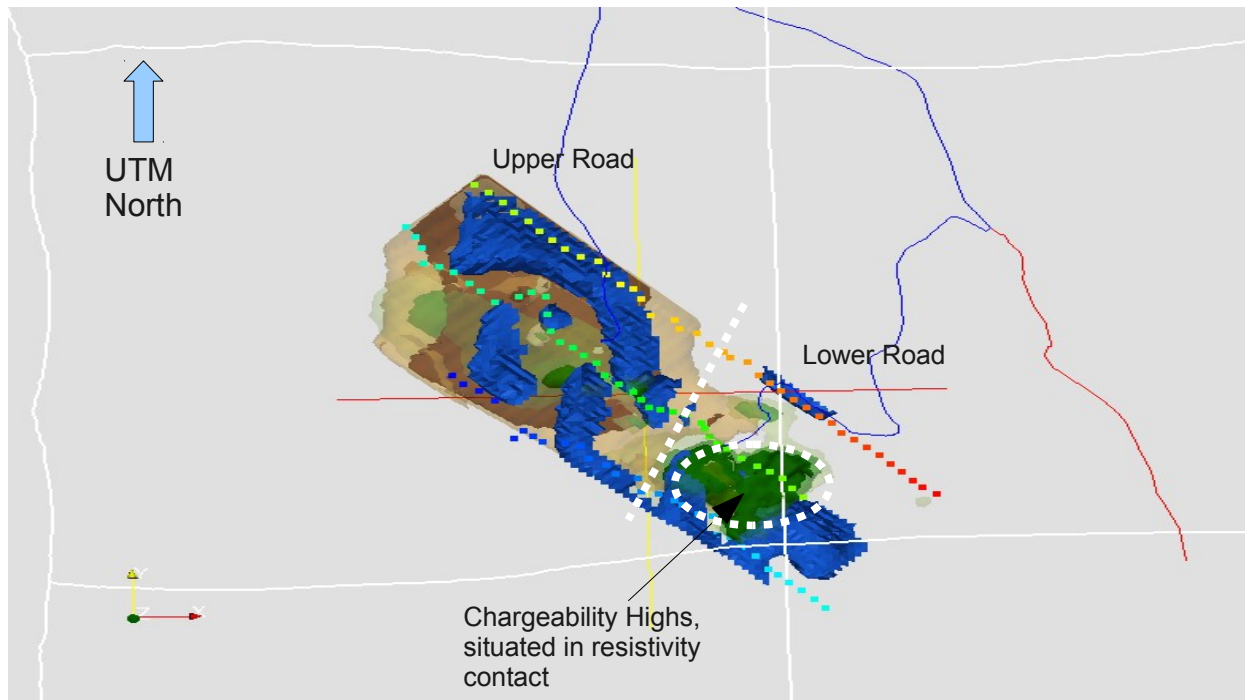


Figure 4: Inversion Models (Resistivity and Chargeability Combined)

#### 4. Conclusion and Recommendations

Both the ground magnetometer and 3DIP surveys showed good geophysical responses over the grid and confirmed that the area is worth further exploration. On particular interest is the area near the lower road where the high chargeability anomaly coincides with the high resistivity contact zone.

A survey using the above two geophysical surveying methods, with more stations and covering a larger area, would be beneficial for future exploration in the area.

Recommendations are as follows:

1. Due to the steep terrain and thick bush coverage, it is recommended to have the lines cut to speed up the production.
2. Better GPS system is also suggested to acquire more precise location data.
3. Multiple electrodes should be used in the IP survey to improve ground contact.

Subject: 3D IP and Magnetometer Survey and Data Processing

Respectfully submitted,  
per S.J.V. Consultants Ltd.

Brian Chen, PGeo.

Appendix 3.2: Kennedy River Project Logistical Report, SJ Geophysics July 12<sup>th</sup> 2010

**LOGISTICAL REPORT**  
**3DIP & MAGNETIC SURVEYS**  
**ON**  
**KENNEDY LAKE PROJECT**  
**FOR**  
**RAM EXPLORATIONS LTD.**

*GRID LOCATION: 49° 8' 36" N, 125° 25' 32" W – NAD83, ZONE 10*  
KENNEDY LAKE, VANCOUVER ISLAND, BRITISH COLUMBIA, CANADA

**SURVEY CONDUCTED BY**  
**SJ GEOPHYSICS LTD.**  
**JUNE 2010**

**REPORT WRITTEN BY**  
**BRIAN CHEN**  
**EMMA HELMERS**  
**SJ GEOPHYSICS LTD.**  
**JULY 2010**



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## ***1. INTRODUCTION***

A three-dimensional induced polarization (3DIP) and a magnetometer survey were conducted for Ram Explorations Ltd. near Kennedy Lake on Vancouver Island by SJ Geophysics Ltd. between June 23<sup>rd</sup> and June 26<sup>th</sup>, 2010. During this period, three lines totalling 2.55 kilometres with a 25m station spacing were surveyed with 3DIP while one line one kilometre in length with a 12.5m station spacing was surveyed with magnetometers. Initial data quality control was performed on site by the field geophysicist. The processing and inversion was then carried out in the offices of S.J.V. Consultants Ltd. in Delta, BC.

The surveying program was designed to test the geophysical responses over a gold veinlet system showing. The results from the test survey will help when choosing the appropriate survey method(s) for the future exploration of the area and its holdings.

This logistical report summarizes the operational aspects of the survey and the survey methodologies used. This report does not discuss any interpretation of the results of the geophysical survey.

## ***2. LOCATION AND GRID INFORMATION***

### ***2.1. Property Access and Information***

The Kennedy Lake grid is located to the north of Kennedy Lake, approximately 21km northeast of Ucluelet and west of Highway 4 on Vancouver Island. To access the grid by car from Ucluelet, drive northeast along Highway 4, make a left turn off Highway 4 onto an inactive logging road and drive a few hundred metres.

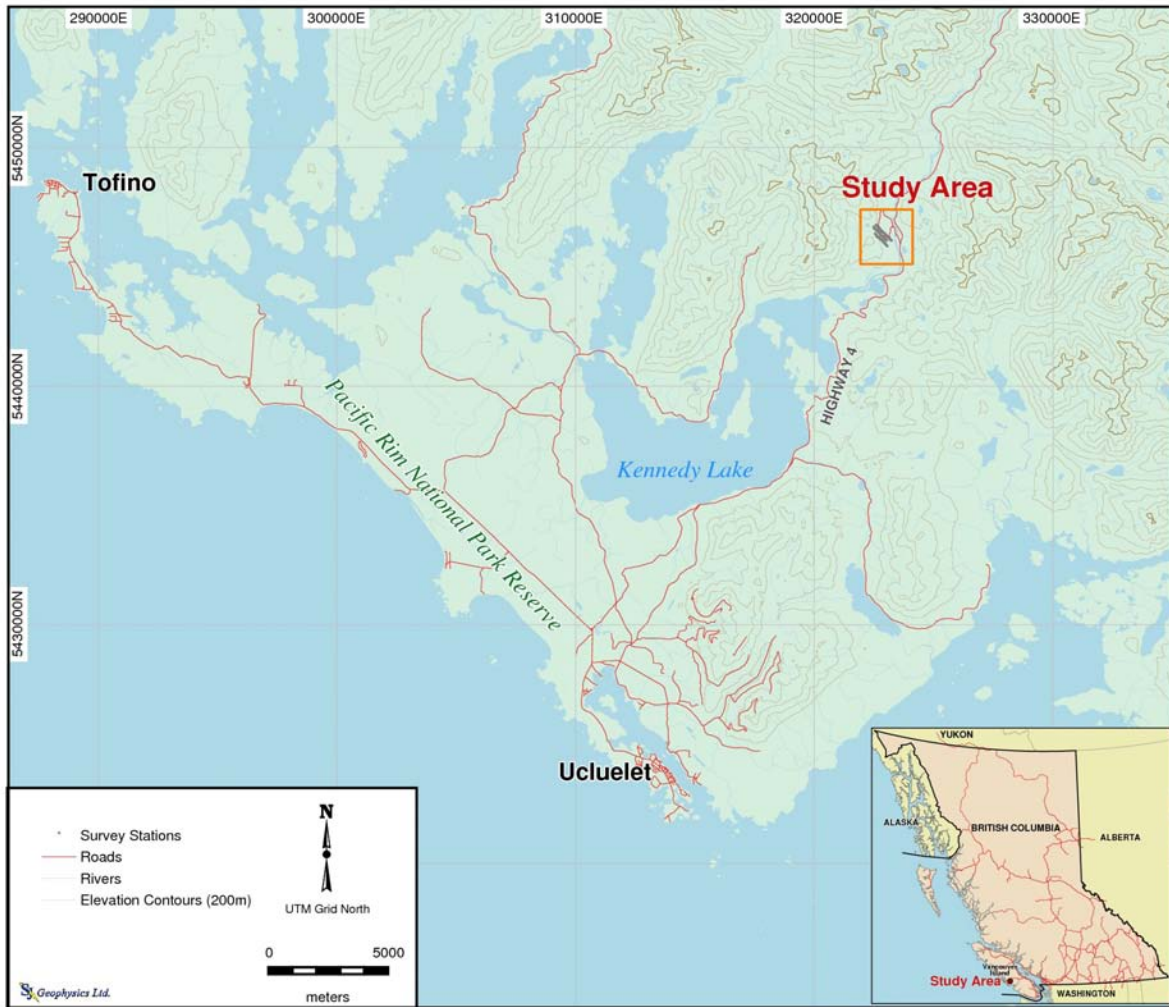


Figure 1: Location of the Kennedy Lake Project

The area houses a diverse wildlife population including bears, squirrels and many types of birds. The weather was humid and cool during the survey period (June). The surrounding vegetation consists of mostly tall coniferous trees on hills and dense shrubs in low areas.

## 2.2. Grid Information

The survey grid consisted of three lines with an azimuth of 315°, ranging in length from 725m to 925m, totalling 2.55km. The lines were spaced 140m apart and flagged with stations at 25m intervals. The topography of the grid was steep in northwest part. The lowest station was at 20m elevation on line 5400N and the highest station was at 396m elevation on line 5000N. 3DIP

data was gathered on all three lines at 25m station increments. Magnetic data was gathered one line (5200N) at 12.5m station increments.

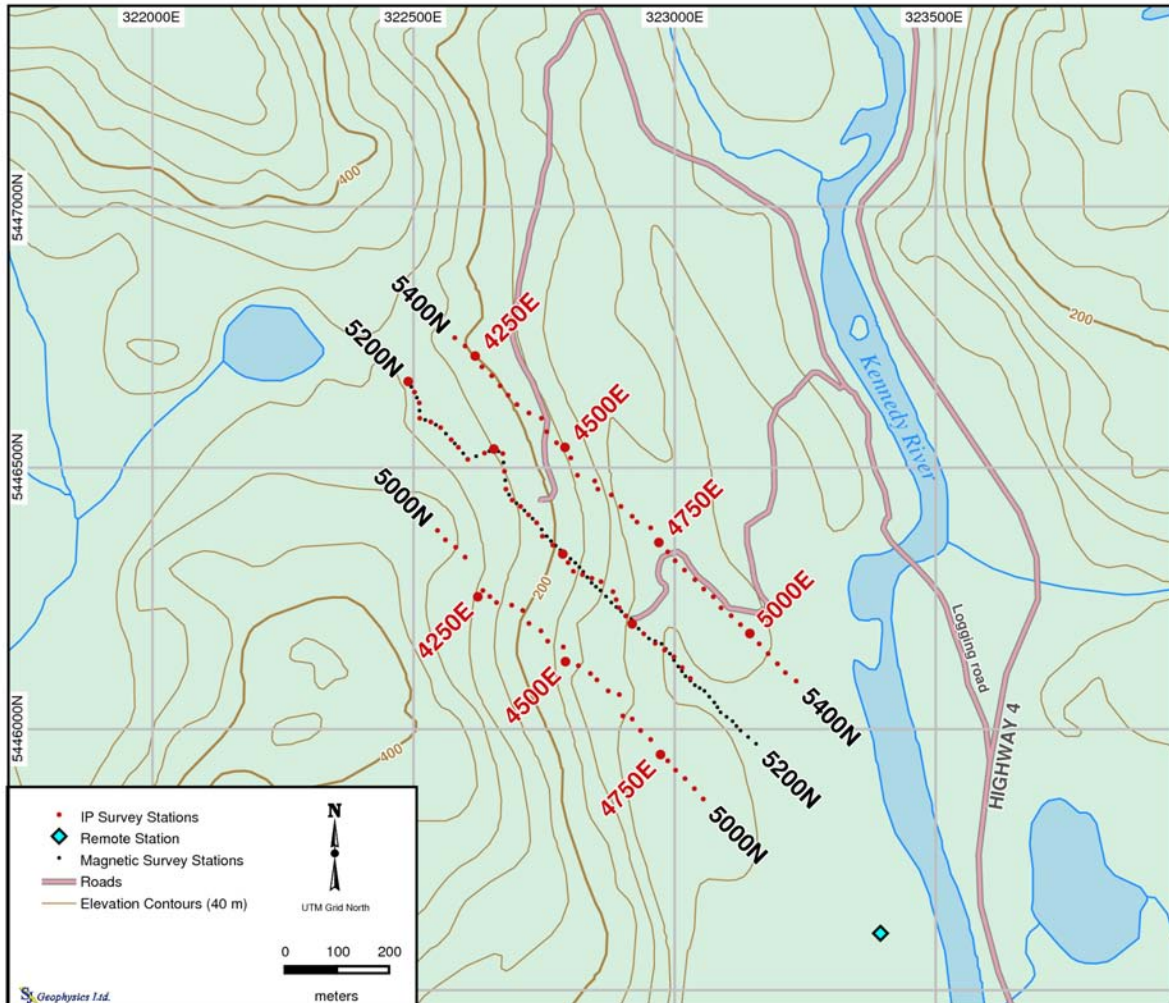


Figure 2: Kennedy Lake Grip Map

### 3. FIELD LOGISTICS AND INSTRUMENTATION

#### 3.1 Field Logistics

The SJ Geophysics Ltd. survey crew consisted of Thomas Campagne (geophysicist) and Brian Chen (geophysicist). The following workers were provided by the client: Dean Laar,

Eugene Larsen and James Thom.

On June 23<sup>rd</sup>, Brian and Thomas mobilized from the office of SJ Geophysics Ltd. in Delta, BC, to the Tsawassen ferry terminal en route to Kennedy Lake on Vancouver Island, BC. They met the client's workers and began the magnetic survey. The remote station for the IP survey was also installed. The magnetic survey was finished on the next day and IP measurements began in the afternoon. Production was affected by the steep terrain and uncut lines on the 25<sup>th</sup>, but the survey was finished. All IP equipment was removed and packed, and Brian and Thomas demobilized to Vancouver on June 26th.

## ***3.2 Survey parameters and Instrumentation***

### ***3.2.1 GPS Marking***

Location data was measured at stations at 12.5m spacing along the survey lines by the crew using Garmin hand held GPS receivers with an accuracy of approximately 6m in the horizontal axis. All locations were collected using the NAD83 Datum with a UTM projection, Zone 10. This information was used during the data-processing stage for both the magnetic and IP surveys.

### ***3.2.2 Magnetic Survey***

Magnetic intensity measurements are taken along survey traverses (normally on a regular grid) and are used to identify metallic mineralization related to magnetic materials in the ground (e.g., magnetite and/or pyrrhotite). Magnetic data are also used as a mapping tool to distinguish rock types and to identify faults, bedding, structure and alteration zones. Line and station intervals are usually determined by the size and depth of the exploration targets.

The magnetic field has both an amplitude and a direction. The most common technique used in mineral exploration is to measure just the amplitude component using an Overhauser magnetometer sensor. The instrument digitally records the survey line, station, total magnetic

field and time of day at each station. After each day of surveying, data are downloaded to a computer for archiving and further processing.

The earth's magnetic field is continually changing, so field measurements must be calibrated to these variations. The most accurate technique to account for this is to establish a stationary magnetometer (base station) to continually monitor and record the magnetic field over the course of a day. The base station and field magnetometers are time-synchronized and computer software is used to correct the field data for the diurnal variations.

GEM magnetometers were used to take magnetic field measurements. One mobile magnetometer and one base station magnetometer were used. The middle line of the grid was surveyed with a station spacing of 12.5m.

### ***3.2.3 IP Survey***

The time domain IP technique energizes the ground surface with an alternating square wave pulse via a pair of current electrodes. On most surveys, such as this one, the IP/Resistivity measurements are made on a regular grid of stations along survey lines.

After the transmitter (Tx) pulse has been transmitted into the ground via the current electrodes, the IP effect is measured as a time diminishing voltage at the receiver electrodes. The IP effect is a measure of the amount of polarizable materials in the subsurface rock. Under ideal circumstances, IP chargeability responses are a measure of the amount of disseminated metallic sulfides in the subsurface rocks.

Three dimensional IP surveys are designed to take advantage of the interpretative functionality offered by 3D inversion techniques. Unlike conventional IP, the electrode arrays are no longer restricted to in-line geometry. Typically, current electrodes and receiver electrodes are located on adjacent lines. Under these conditions, multiple current locations can be applied to a single receiver electrode array and data acquisition rates can be significantly improved over conventional surveys.

In a common 3DIP configuration, a receiver array is established, end-to-end along a

survey line while current electrodes are located on two adjacent lines. The survey typically starts at one end of the line and proceeds to the other end. A typical 12 dipole array normally consists of four 100m dipoles, followed by eight 50m dipoles. In some areas these spacings are modified to compensate for local conditions such as inaccessible sites, streams, and overall conductivity of the ground. Current electrodes are advanced along the adjacent lines at 50m increments. Receiver arrays are typically established on every second line (200m apart).

The modified pole-dipole 3DIP configuration array used in this survey consisted of 16 dipoles with 50m separations. The IP data was collected using SJ Geophysics' SJ-24 Full Waveform receiver. The current was injected with a two second ON/OFF-time duty cycle into the ground via a transmitter. A GDD Tx II IP transmitter was used for the duration of the survey.

For the production phase, the 3D configuration consisted of two current lines being recorded into the receiver line. The current lines were located on either side of the receiver line, while the subsequent lines were surveyed with a single current line overlap.

The potential array was implemented using specialized 8-conductor IP cables configured with 50m takeouts for the potential electrodes. At each current station, electrodes consisted of two 1.0m stainless steel rods, 15mm in diameter. For the potential line, the electrodes consisted of 50cm stainless steel rods, which were lying on the ground. For the entire grid, one IP remote station was used; it was located off the southeastern corner of the grid. The remote current station consisted of four 1m stainless steel rods, 15mm in diameter. The exact location of the remote current station was acquired by GPS for use in the geophysical calculations.

Respectfully submitted,

per S.J.V. Consultants Ltd.

Brian Chen

Emma Helmers

***APPENDIX A: KENNEDY LAKE SURVEY SUMMARY TABLES***

3DIP Line Information

<b><i>Line</i></b>	<b><i>Series</i></b>	<b><i>Start station</i></b>	<b><i>End Station</i></b>	<b><i>Surveyed length</i></b>
5000	N	4150	4875	725
5200	N	4000	4900	900
5400	N	4200	5125	925

Total linear meters = 2550

Magnetic Line Information

<b><i>Line</i></b>	<b><i>Series</i></b>	<b><i>Start station</i></b>	<b><i>End Station</i></b>	<b><i>Surveyed length</i></b>
5200	N	4000	5000	1000



## ***APPENDIX B: INSTRUMENT SPECIFICATIONS***

### ***SJ-24 full waveform digital IP receiver***

#### **Technical:**

Input impedance:	10 $\Omega$
Input overvoltage protection:	up to 1000V
External memory:	Unlimited readings
Number of dipoles:	4 to 16 +, expandable
Synchronization:	Software signal post-processing user selectable
Common mode rejection:	More than 100 dB (for Rs=0)
Self potential (Sp):	Range: -5V to +5V Resolution: 0.1mV Proprietary intelligent stacking process rejecting strong non-linear SP drifts.
Primary voltage:	Range: 1 $\mu$ V – 10V (24bit) Resolution: 1 $\mu$ V Accuracy: typ. <1.0%
Chargeability:	Resolution: 1 $\mu$ V/V Accuracy: typ. <1.0%

#### **General (4 dipole unit):**

Dimensions:	18x16x9cm
Weight:	1.1kg
Battery:	12V external
Operating temperature range:	-20°C to 40°C

### ***GDD Tx II IP Transmitter***

Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	3.6 kW maximum.
Output voltage:	150 to 2400 Volts
Output current:	0.030 to 10Amperes
Time domain:	1,2,4,8 second on/off cycle.
Operating temp. range:	-40 <sup>0</sup> to +65 <sup>0</sup> C
Display:	Digital LCD read to 0.001A
Dimensions (h w d):	34 x 21 x 39 cm
Weight:	20kg.

### **GEM Systems GSM-19 magnetometer**

Resolution:	0.01 nT, magnetic field and gradient.
Accuracy:	0.2 nT over operating range.
Gradient Tolerance:	up to 5000 nT/metre.
Operating Interval:	4 seconds minimum, faster optional.
Reading:	Initiated by keyboard depression, external trigger or carriage return via RS-232C.
Input/Output:	6 Pin weatherproof connector, RS-232C, and optional analog output
Power Requirements:	12v 300 mA peak(during polarization), 35 mA standby, 600 mA peak in gradiometer
Power Source:	Internal 12v, 1.9ah sealed lead-acid battery standard, other optional External 12v power source can be used.
Battery Charger:	Input: 110/220 VAC, 50/60 Hz and/or 12VDC. Output: 12v dual level charging.
Operating Ranges	-40o C to +60o C
Temperature:	
Battery Voltage:	10v min. to 15v max.
<b>Dimensions:</b>	223 x 69 x 240 mm.
Console:	
Sensor staff:	4 x 450 mm sections.
Sensor:	170 x 71 mm diameter.
<b>Weights:</b>	2.1 kg
Console:	
Staff:	0.9 kg.
Sensor:	1.1 kg each.

Appendix 4.1: Compilation of Kerr Addison Soil Geochemical Data ARIS report No. 16473

**Appendix 4.1: Compilation of Kerr Addison Soil Geochemical Data ARIS report No. 16473**

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
44N 4250E	322,943	5,446,193	135
44N 4275E	322,923	5,446,205	75
44N 4225E	322,964	5,446,180	35
44N 4150E	323,025	5,446,144	30
44N 4125E	323,040	5,446,125	45
44N 4100E	323,056	5,446,106	25
58N 4575E	322,889	5,447,784	10
58N 4650E	322,904	5,447,768	40
58N 4625E	322,922	5,447,749	35
58N 4450E	323,039	5,447,625	20
58N 4475E	323,022	5,447,643	45
58N 4525E	322,989	5,447,678	50
58N 4150E	323,242	5,447,412	1,820
58N 4175E	323,226	5,447,430	20
58N 4200E	323,209	5,447,447	30
58N 4225E	323,192	5,447,465	25
60N 4625E	322,988	5,447,929	25
60N 4600E	323,004	5,447,910	15
60N 4500E	323,079	5,447,845	15
60N 4475E	323,097	5,447,829	60
60N 4400E	323,131	5,447,764	85
60N 4350E	323,167	5,447,743	10
60N 4300E	323,202	5,447,722	155
45N 4400E	322,796	5,446,649	10
45N 3800E	323,148	5,446,209	10
48N 4075E	323,239	5,446,504	5
44N 4050E	323,094	5,446,077	10
45N 4550E	322,698	5,446,754	5
45N 4500E	322,731	5,446,721	5
45N 4450E	322,764	5,446,684	5
45N 4375E	322,812	5,446,632	5
45N 4350E	322,819	5,446,608	5
45N 4300E	322,833	5,446,563	5
45N 4250E	322,840	5,446,540	5
45N 4250E	322,857	5,446,522	5
45N 4200E	322,889	5,446,487	5
45N 4175E	322,905	5,446,471	5
45N 4150E	322,921	5,446,453	5
45N 4100E	322,955	5,446,418	5
45N 4050E	322,986	5,446,383	5
45N 4000E	323,019	5,446,349	5
45N 3950E	323,052	5,446,313	5
45N 3900E	323,084	5,446,279	5
45N 3850E	323,116	5,446,244	5

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
41N 4775E	322,574	5,446,379	5
41N 4750E	322,590	5,446,364	5
41N 4700E	322,623	5,446,329	5
41N 4650E	322,655	5,446,294	5
41N 4600E	322,687	5,446,259	5
41N 4550E	322,720	5,446,226	5
41N 4500E	322,753	5,446,191	5
41N 4450E	322,785	5,446,156	5
41N 4400E	322,811	5,446,116	5
41N 4350E	322,855	5,446,096	5
41N 4325E	322,876	5,446,086	5
41N 4300E	322,885	5,446,063	5
41N 4250E	322,903	5,446,018	5
41N 4225E	322,919	5,446,001	70
41N 4200E	322,935	5,445,983	5
41N 4150E	322,966	5,445,948	5
41N 4125E	322,983	5,445,931	75
41N 4100E	322,999	5,445,913	5
41N 4075E	323,015	5,445,897	40
41N 4050E	323,032	5,445,879	5
41N 4000E	323,064	5,445,843	5
41N 3950E	323,108	5,445,827	5
41N 3925E	323,115	5,445,804	5
41N 3900E	323,132	5,445,786	5
44N 4900E	322,568	5,446,567	5
44N 4850E	322,601	5,446,533	5
44N 4800E	322,633	5,446,498	5
44N 4650E	322,697	5,446,468	5
44N 4600E	322,734	5,446,439	5
44N 4550E	322,756	5,446,395	5
44N 4500E	322,778	5,446,352	5
44N 4450E	322,800	5,446,309	5
44N 4400E	322,822	5,446,267	50
44N 4350E	322,862	5,446,242	5
44N 4300E	322,903	5,446,217	5
44N 4200E	322,984	5,446,168	5
44N 4000E	323,138	5,446,057	5
44N 3950E	323,182	5,446,038	5
44N 3900E	323,219	5,446,008	5
44N 3850E	323,256	5,445,978	5
44N 3800E	323,293	5,445,948	5
39N 4475E	322,654	5,445,888	5
39N 4450E	322,671	5,445,870	5
39N 4400E	322,704	5,445,835	5
39N 4350E	322,740	5,445,870	5
39N 4300E	322,784	5,445,854	25

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
39N 4250E	322,831	5,445,836	5
39N 4200E	322,873	5,445,819	5
39N 4150E	322,917	5,445,803	5
46N 4375E	322,839	5,446,756	5
46N 4350E	322,855	5,446,740	5
46N 4325E	322,859	5,446,715	5
46N 4300E	322,876	5,446,698	5
46N 4250E	322,908	5,446,662	5
46N 4200E	322,941	5,446,628	5
46N 4150E	322,973	5,446,593	5
46N 4100E	323,014	5,446,568	5
46N 4050E	323,055	5,446,545	5
46N 4025E	323,076	5,446,532	5
46N 4000E	323,087	5,446,510	5
46N 3950E	323,108	5,446,468	5
46N 3925E	323,119	5,446,446	5
46N 3900E	323,136	5,446,429	5
46N 3850E	323,169	5,446,394	5
46N 3825E	323,185	5,446,377	20
46N 3800E	323,197	5,446,366	5
48N 4475E	322,994	5,446,767	5
48N 4450E	323,016	5,446,743	5
48N 4400E	323,049	5,446,708	5
48N 4350E	323,082	5,446,673	5
48N 4300E	323,114	5,446,638	5
48N 4250E	323,147	5,446,603	5
48N 4200E	323,179	5,446,568	5
48N 4175E	323,197	5,446,549	5
48N 3950E	323,310	5,446,429	5
48N 3900E	323,344	5,446,394	5
48N 3850E	323,376	5,446,358	5

Appendix 4.2 Compilation of Teck – International Phoenix Soil Geochemical Data ARIS no. 12767

Appendix 4.2 Compilation of Teck – International Phoenix Soil Geochemical Data ARIS no. 12767

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840001	324720	5447997	0
19840002	324721	5448015	0
19840003	324722	5448039	120
19840004	324722	5448064	30
19840005	324723	5448090	160
19840006	324722	5448114	75
19840007	324721	5448139	15
19840008	324722	5448164	120
19840009	324724	5448189	730
19840010	324725	5448213	2350
19840011	324725	5448241	0
19840012	324724	5448265	25
19840013	324725	5448291	0
19840014	324724	5448314	0
19840015	324725	5448336	0
19840016	324724	5448362	0
19840017	324725	5448384	0
19840018	324754	5448388	0
19840019	324781	5448388	0
19840020	324805	5448387	0
19840021	324804	5448362	0
19840022	324805	5448337	310
19840023	324804	5448315	0
19840024	324802	5448289	0
19840025	324803	5448265	0
19840026	324804	5448239	0
19840027	324802	5448212	0
19840028	324803	5448187	65
19840029	324802	5448161	0
19840030	324800	5448137	0
19840031	324799	5448112	0
19840032	324799	5448089	0
19840033	324799	5448061	0
19840034	324800	5448038	275
19840035	324800	5448012	0
19840036	324799	5447987	0
19840037	324799	5447962	0
19840038	324799	5447937	0
19840039	324796	5447912	0
19840040	324894	5447761	0
19840041	324895	5447786	0
19840042	324896	5447812	0
19840043	324896	5447835	0
19840044	324895	5447861	0



<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840045	324895	5447885	0
19840046	324895	5447909	0
19840047	324896	5447936	0
19840048	324898	5447958	0
19840049	324897	5447989	50
19840050	324897	5448011	0
19840051	324897	5448034	0
19840052	324897	5448059	0
19840053	324898	5448085	0
19840054	324899	5448109	0
19840055	324901	5448135	20
19840056	324900	5448157	0
19840057	324900	5448186	0
19840058	324901	5448210	50
19840059	324901	5448237	35
19840060	324901	5448260	0
19840061	324902	5448287	0
19840062	324901	5448310	0
19840063	324901	5448334	15
19840064	324904	5448360	0
19840065	324904	5448382	0
19840066	324904	5448409	15
19840067	324904	5448435	0
19840068	324904	5448461	30
19840069	324903	5448485	0
19840070	324904	5448510	0
19840071	324904	5448534	0
19840072	324906	5448560	0
19840073	324906	5448585	0
19840074	324906	5448609	0
19840075	324905	5448635	0
19840076	324907	5448660	0
19840077	324908	5448684	0
19840078	324910	5448708	200
19840079	324909	5448735	0
19840080	324908	5448759	0
19840081	324907	5448782	0
19840082	324909	5448810	0
19840083	324910	5448836	0
19840084	324912	5448856	0
19840085	324912	5448886	20
19840086	324911	5448910	0
19840087	324913	5448937	0
19840088	324914	5448961	0
19840089	324913	5448988	0
19840090	324967	5448986	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840091	324965	5448962	0
19840092	324965	5448935	0
19840093	324966	5448911	0
19840094	324965	5448885	0
19840095	324964	5448858	0
19840096	324963	5448835	0
19840097	324963	5448810	0
19840098	324962	5448785	0
19840099	324963	5448760	0
19840100	324962	5448734	0
19840101	324961	5448708	0
19840102	324960	5448683	0
19840103	324961	5448658	0
19840104	324959	5448632	0
19840105	324959	5448608	0
19840106	324959	5448586	0
19840107	324959	5448562	0
19840108	324958	5448536	0
19840109	324958	5448509	0
19840110	324957	5448483	0
19840111	324957	5448459	0
19840112	324957	5448433	0
19840113	324955	5448407	0
19840114	324954	5448383	0
19840115	324953	5448359	0
19840116	324955	5448334	0
19840117	324953	5448311	0
19840118	324952	5448289	0
19840119	324952	5448260	0
19840120	324953	5448236	0
19840121	324952	5448210	0
19840122	324953	5448186	20
19840123	324951	5448158	0
19840124	324951	5448134	0
19840125	324950	5448107	0
19840126	324951	5448085	0
19840127	324950	5448059	0
19840128	324949	5448034	0
19840129	324948	5448011	0
19840130	324949	5447984	0
19840131	324997	5447982	80
19840132	324999	5448008	40
19840133	324999	5448027	145
19840134	325000	5448057	15
19840135	324998	5448085	0
19840136	324999	5448107	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840137	325000	5448135	0
19840138	325002	5448158	0
19840139	325000	5448184	0
19840140	325002	5448209	0
19840141	325002	5448234	0
19840142	325001	5448258	0
19840143	325003	5448288	0
19840144	325002	5448310	0
19840145	325004	5448330	0
19840146	325003	5448358	0
19840147	325004	5448408	0
19840148	325005	5448434	0
19840149	325004	5448459	30
19840150	325006	5448483	0
19840151	325007	5448508	20
19840152	325007	5448534	0
19840153	325009	5448559	0
19840154	325009	5448584	0
19840155	325009	5448607	25
19840156	325009	5448658	20
19840157	325008	5448683	0
19840158	325009	5448708	0
19840159	325011	5448733	0
19840160	325009	5448757	0
19840161	325011	5448783	0
19840162	325012	5448810	0
19840163	325011	5448835	0
19840164	325011	5448857	0
19840165	325011	5448882	0
19840166	325013	5448907	0
19840167	325014	5448935	0
19840168	325014	5448960	55
19840169	325011	5449031	30
19840170	325014	5449083	0
19840171	325014	5449132	0
19840172	325016	5449178	0
19840173	325018	5449231	0
19840174	325017	5449281	0
19840175	325019	5449330	0
19840176	325018	5449380	0
19840177	325019	5449433	0
19840178	325020	5449483	25
19840179	325023	5449532	20
19840180	325021	5449583	0
19840181	325023	5449631	0
19840182	325125	5449679	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840183	325123	5449632	20
19840184	325122	5449579	0
19840185	325123	5449529	0
19840186	325121	5449483	0
19840187	325120	5449432	0
19840188	325119	5449381	0
19840189	325119	5449329	0
19840190	325116	5449280	0
19840191	325116	5449230	0
19840192	325116	5449156	0
19840193	325114	5449131	0
19840194	325114	5449105	0
19840195	325114	5449081	0
19840196	325114	5449057	15
19840197	325113	5449032	0
19840198	325113	5449008	45
19840199	325113	5448985	0
19840200	325113	5448958	0
19840201	325113	5448934	0
19840202	325113	5448907	0
19840203	325112	5448883	0
19840204	325111	5448855	0
19840205	325114	5448832	0
19840206	325114	5448806	0
19840207	325116	5448783	0
19840208	325117	5448756	35
19840209	325116	5448733	0
19840210	325117	5448708	0
19840211	325119	5448682	0
19840212	325117	5448656	0
19840213	325118	5448632	0
19840214	325120	5448605	20
19840215	325121	5448582	0
19840216	325120	5448533	150
19840217	325121	5448508	0
19840218	325122	5448482	0
19840219	325123	5448456	0
19840220	325124	5448430	0
19840221	325124	5448408	0
19840222	325123	5448381	300
19840223	325124	5448355	0
19840224	325122	5448331	0
19840225	325125	5448308	0
19840226	325125	5448286	0
19840227	325125	5448259	0
19840228	325125	5448234	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840229	325126	5448206	0
19840230	325126	5448182	0
19840231	325128	5448153	0
19840232	325128	5448131	0
19840233	325128	5448104	0
19840234	325128	5448081	0
19840235	325129	5448055	30
19840236	325128	5448031	30
19840237	325130	5448005	0
19840238	325130	5447981	0
19840239	325047	5447982	0
19840240	325047	5448007	0
19840241	325048	5448032	0
19840242	325048	5448058	0
19840243	325049	5448085	0
19840244	325047	5448106	0
19840245	325049	5448132	0
19840246	325049	5448155	0
19840247	325047	5448183	0
19840248	325048	5448207	0
19840249	325050	5448233	0
19840250	325051	5448255	0
19840251	325050	5448285	0
19840252	325051	5448309	20
19840253	325052	5448330	30
19840254	325053	5448355	0
19840255	325052	5448382	0
19840256	325053	5448407	0
19840257	325053	5448430	0
19840258	325052	5448457	0
19840259	325053	5448480	0
19840260	325052	5448508	0
19840261	325056	5448532	0
19840262	325055	5448558	0
19840263	325057	5448584	0
19840264	325058	5448607	0
19840265	325057	5448634	0
19840266	325057	5448658	0
19840267	325059	5448681	0
19840268	325059	5448707	0
19840269	325058	5448733	0
19840270	325058	5448756	0
19840271	325059	5448782	0
19840272	325061	5448808	0
19840273	325059	5448833	0
19840274	325060	5448855	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840275	325061	5448883	0
19840276	325062	5448910	0
19840277	325063	5448934	0
19840278	325063	5448960	0
19840279	325063	5448985	0
19840280	325162	5448981	0
19840281	325159	5448959	0
19840282	325159	5448933	0
19840283	325161	5448907	200
19840284	325158	5448883	0
19840285	325158	5448854	0
19840286	325159	5448830	0
19840287	325158	5448804	0
19840288	325158	5448781	0
19840289	325159	5448753	0
19840290	325157	5448731	0
19840291	325157	5448704	0
19840292	325157	5448680	0
19840293	325158	5448655	0
19840294	325157	5448631	0
19840295	325156	5448605	0
19840296	325157	5448580	100
19840297	325155	5448555	0
19840298	325154	5448529	0
19840299	325153	5448505	0
19840300	325153	5448480	0
19840301	325153	5448454	0
19840302	325153	5448430	25
19840303	325152	5448403	0
19840304	325152	5448379	0
19840305	325152	5448355	0
19840306	325152	5448329	0
19840307	325150	5448305	0
19840308	325149	5448283	0
19840309	325149	5448260	0
19840310	325148	5448232	0
19840311	325149	5448205	0
19840312	325150	5448183	0
19840313	325177	5447979	0
19840314	325178	5448004	0
19840315	325181	5448029	0
19840316	325179	5448055	0
19840317	325179	5448080	0
19840318	325182	5448103	0
19840319	325181	5448131	0
19840320	325184	5448153	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840321	325182	5448181	50
19840322	325185	5448204	0
19840323	325185	5448231	0
19840324	325187	5448255	0
19840325	325188	5448281	0
19840326	325189	5448305	30
19840327	325190	5448329	0
19840328	325190	5448352	0
19840329	325192	5448376	0
19840330	325192	5448404	15
19840331	325193	5448430	25
19840332	325194	5448455	0
19840333	325195	5448506	0
19840334	325197	5448529	0
19840335	325198	5448555	0
19840336	325198	5448579	0
19840337	325197	5448604	0
19840338	325199	5448630	0
19840339	325202	5448652	0
19840340	325202	5448680	15
19840341	325202	5448703	0
19840342	325205	5448754	0
19840343	325207	5448779	60
19840344	325207	5448807	20
19840345	325207	5448830	55
19840346	325209	5448854	45
19840347	325208	5448880	0
19840348	325209	5448906	15
19840349	325210	5448932	90
19840350	325212	5448955	95
19840351	325212	5448980	0
19840352	325213	5449006	80
19840353	325213	5449029	20
19840354	325214	5449054	0
19840355	325214	5449079	30
19840356	325214	5449128	45
19840357	325214	5449155	40
19840358	325214	5449178	0
19840359	325212	5449205	0
19840360	325212	5449227	0
19840361	325214	5449252	0
19840362	325214	5449278	0
19840363	325214	5449302	25
19840364	325213	5449328	0
19840365	325214	5449355	0
19840366	325214	5449379	20

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840367	325214	5449404	0
19840368	325214	5449477	150
19840369	325213	5449504	0
19840370	325214	5449528	0
19840371	325212	5449554	0
19840372	325213	5449578	0
19840373	325214	5449603	0
19840374	325213	5449629	0
19840375	325214	5449653	0
19840376	325215	5449681	40
19840377	325211	5449705	0
19840378	325212	5449729	0
19840379	325303	5449854	0
19840380	325305	5449829	0
19840381	325304	5449803	0
19840382	325305	5449779	0
19840383	325305	5449753	0
19840384	325306	5449727	0
19840385	325306	5449653	0
19840386	325307	5449628	40
19840387	325307	5449601	0
19840388	325307	5449576	0
19840389	325308	5449552	0
19840390	325307	5449528	0
19840391	325308	5449503	0
19840392	325307	5449480	0
19840393	325309	5449457	0
19840394	325310	5449429	0
19840395	325310	5449402	0
19840396	325311	5449377	0
19840397	325312	5449351	0
19840398	325312	5449325	0
19840399	325312	5449300	0
19840400	325312	5449276	0
19840401	325310	5449251	0
19840402	325313	5449225	0
19840403	325312	5449203	0
19840404	325314	5449177	0
19840405	325313	5449153	0
19840406	325314	5449128	0
19840407	325314	5449102	0
19840408	325314	5449078	0
19840409	325314	5449053	0
19840410	325315	5449004	0
19840411	325315	5448982	0
19840412	325314	5448956	0



<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840413	325314	5448930	0
19840414	325313	5448903	0
19840415	325312	5448879	0
19840416	325312	5448851	0
19840417	325310	5448826	20
19840418	325311	5448804	0
19840419	325310	5448779	0
19840420	325309	5448754	0
19840421	325310	5448727	0
19840422	325309	5448703	75
19840423	325307	5448677	0
19840424	325307	5448653	100
19840425	325307	5448628	0
19840426	325307	5448603	0
19840427	325307	5448578	0
19840428	325305	5448554	0
19840429	325305	5448528	0
19840430	325305	5448503	0
19840431	325304	5448478	0
19840432	325304	5448453	0
19840433	325304	5448426	0
19840434	325302	5448403	0
19840435	325302	5448375	0
19840436	325303	5448351	0
19840437	325300	5448277	0
19840438	325300	5448252	0
19840439	325300	5448228	0
19840440	325300	5448200	15
19840441	325300	5448177	0
19840442	325298	5448150	0
19840443	325298	5448128	0
19840444	325297	5448100	0
19840445	325298	5448078	0
19840446	325297	5448051	0
19840447	325296	5448027	0
19840448	325295	5448004	0
19840449	325297	5447976	0
19840450	325252	5448282	20
19840451	325252	5448304	30
19840452	325254	5448329	2000
19840453	325254	5448353	0
19840454	325254	5448377	0
19840455	325254	5448404	25
19840456	325255	5448428	0
19840457	325255	5448454	20
19840458	325255	5448478	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840459	325256	5448503	0
19840460	325257	5448528	0
19840461	325257	5448555	0
19840462	325256	5448579	0
19840463	325258	5448604	0
19840464	325259	5448629	0
19840465	325258	5448654	0
19840466	325259	5448677	0
19840467	325259	5448702	0
19840468	325260	5448728	200
19840469	325260	5448753	0
19840470	325260	5448777	80
19840471	325262	5448804	25
19840472	325261	5448829	50
19840473	325262	5448854	75
19840474	325262	5448880	0
19840475	325263	5448904	45
19840476	325263	5448931	0
19840477	325267	5448956	180
19840478	325264	5448981	85
19840479	325352	5448374	0
19840480	325352	5448401	0
19840481	325353	5448425	0
19840482	325354	5448453	0
19840483	325354	5448476	0
19840484	325355	5448500	80
19840485	325353	5448526	20
19840486	325354	5448551	20
19840487	325354	5448577	0
19840488	325355	5448602	15
19840489	325355	5448628	305
19840490	325356	5448653	60
19840491	325356	5448676	6500
19840492	325358	5448701	1050
19840493	325356	5448728	20
19840494	325359	5448752	940
19840495	325357	5448777	0
19840496	325358	5448803	45
19840497	325357	5448828	0
19840498	325358	5448851	0
19840499	325358	5448879	0
19840500	325361	5448928	0
19840501	325361	5448955	15
19840502	325360	5448977	0
19840503	325429	5449953	0
19840504	325428	5449927	15

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840505	325427	5449899	0
19840506	325428	5449874	0
19840507	325428	5449852	0
19840508	325426	5449825	60
19840509	325426	5449800	0
19840510	325426	5449776	0
19840511	325424	5449750	0
19840512	325424	5449726	0
19840513	325424	5449701	0
19840514	325424	5449677	0
19840515	325424	5449652	0
19840516	325423	5449626	0
19840517	325423	5449600	0
19840518	325421	5449575	0
19840519	325422	5449550	0
19840520	325421	5449524	0
19840521	325420	5449501	0
19840522	325419	5449477	0
19840523	325419	5449455	0
19840524	325419	5449426	0
19840525	325418	5449402	0
19840526	325418	5449377	0
19840527	325417	5449349	0
19840528	325418	5449325	0
19840529	325418	5449299	0
19840530	325417	5449273	0
19840531	325415	5449251	0
19840532	325417	5449226	0
19840533	325415	5449201	0
19840534	325414	5449174	0
19840535	325415	5449150	0
19840536	325413	5449126	0
19840537	325414	5449099	0
19840538	325414	5449074	0
19840539	325411	5449049	0
19840540	325411	5449026	0
19840541	325411	5449003	925
19840542	325412	5448980	0
19840543	325410	5448954	0
19840544	325411	5448930	35
19840545	325410	5448902	0
19840546	325408	5448877	0
19840547	325410	5448850	30
19840548	325407	5448825	0
19840549	325406	5448801	0
19840550	325407	5448777	95

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840551	325406	5448751	450
19840552	325406	5448725	0
19840553	325407	5448701	0
19840554	325407	5448673	0
19840555	325405	5448651	0
19840556	325405	5448626	0
19840557	325405	5448599	0
19840558	325404	5448575	20
19840559	325403	5448551	0
19840560	325403	5448526	0
19840561	325404	5448499	0
19840562	325404	5448475	23
19840563	325402	5448449	15
19840564	325401	5448424	0
19840565	325401	5448402	0
19840566	325400	5448376	0
19840567	325398	5448350	0
19840568	325398	5448324	0
19840569	325398	5448300	0
19840570	325398	5448275	35
19840571	325399	5448250	0
19840572	325455	5448474	0
19840573	325455	5448500	0
19840574	325455	5448523	0
19840575	325456	5448550	0
19840576	325456	5448575	0
19840577	325457	5448600	20
19840578	325456	5448624	0
19840579	325457	5448650	35
19840580	325457	5448674	0
19840581	325458	5448698	0
19840582	325460	5448725	25
19840583	325457	5448749	70
19840584	325459	5448773	0
19840585	325458	5448801	35
19840586	325459	5448825	0
19840587	325460	5448848	0
19840588	325459	5448874	0
19840589	325460	5448899	0
19840590	325462	5448927	50
19840591	325462	5448951	0
19840592	325463	5448976	0
19840593	325531	5449972	30
19840594	325530	5449948	0
19840595	325528	5449923	0
19840596	325529	5449898	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840597	325529	5449873	0
19840598	325529	5449848	0
19840599	325528	5449824	0
19840600	325528	5449799	0
19840601	325528	5449774	0
19840602	325527	5449748	0
19840603	325526	5449725	0
19840604	325525	5449698	0
19840605	325525	5449674	0
19840606	325524	5449648	0
19840607	325524	5449621	0
19840608	325523	5449572	0
19840609	325521	5449500	0
19840610	325522	5449476	0
19840611	325520	5449426	0
19840612	325521	5449400	25
19840613	325519	5449374	0
19840614	325517	5449351	0
19840615	325517	5449323	450
19840616	325517	5449299	0
19840617	325517	5449274	0
19840618	325517	5449247	0
19840619	325516	5449201	0
19840620	325515	5449173	0
19840621	325515	5449148	0
19840622	325514	5449122	0
19840623	325513	5449098	0
19840624	325512	5449023	0
19840625	325512	5449001	0
19840626	325510	5448978	0
19840627	325510	5448950	0
19840628	325508	5448926	0
19840629	325508	5448900	0
19840630	325508	5448848	0
19840631	325507	5448822	510
19840632	325507	5448798	25
19840633	325507	5448771	100
19840634	325506	5448749	60
19840635	325507	5448723	350
19840636	325505	5448698	15
19840637	325506	5448672	20
19840638	325505	5448663	15
19840639	325504	5448648	0
19840640	325505	5448624	0
19840641	325504	5448599	0
19840642	325503	5448574	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840643	325504	5448549	0
19840644	325502	5448522	0
19840645	325503	5448497	130
19840646	325501	5448473	0
19840647	325501	5448448	50
19840648	325502	5448422	400
19840649	325501	5448397	0
19840650	325499	5448372	0
19840651	325500	5448346	15
19840652	325499	5448322	0
19840653	325499	5448299	0
19840654	325499	5448273	0
19840655	325498	5448248	0
19840656	325499	5448225	0
19840657	325499	5448199	0
19840658	325497	5448173	20
19840659	325496	5448147	0
19840660	325497	5448126	0
19840661	325496	5448101	0
19840662	325590	5448095	0
19840663	325591	5448117	0
19840664	325592	5448144	0
19840665	325592	5448171	0
19840666	325593	5448194	0
19840667	325593	5448221	0
19840668	325594	5448248	0
19840669	325593	5448271	0
19840670	325595	5448296	350
19840671	325594	5448322	0
19840672	325595	5448344	0
19840673	325597	5448368	30
19840674	325595	5448396	0
19840675	325596	5448421	0
19840676	325598	5448446	0
19840677	325598	5448469	0
19840678	325598	5448494	0
19840679	325598	5448520	0
19840680	325600	5448545	0
19840681	325600	5448598	0
19840682	325600	5448622	40
19840683	325603	5448646	30
19840684	325603	5448673	0
19840685	325605	5448699	20
19840686	325605	5448723	90
19840687	325604	5448747	30
19840688	325602	5448770	40

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840689	325603	5448796	0
19840690	325604	5448821	0
19840691	325605	5448843	0
19840692	325606	5448872	0
19840693	325606	5448896	0
19840694	325608	5448925	30
19840695	325608	5448948	0
19840696	325610	5448973	0
19840697	325608	5449000	0
19840698	325609	5449022	0
19840699	325610	5449048	0
19840700	325611	5449070	0
19840701	325612	5449097	0
19840702	325612	5449120	0
19840703	325612	5449148	25
19840704	325613	5449173	0
19840705	325613	5449198	0
19840706	325612	5449221	0
19840707	325613	5449245	0
19840708	325615	5449271	0
19840709	325615	5449297	0
19840710	325616	5449323	0
19840711	325616	5449348	0
19840712	325617	5449373	0
19840713	325618	5449400	0
19840714	325617	5449422	0
19840715	325617	5449450	150
19840716	325617	5449475	65
19840717	325617	5449497	0
19840718	325618	5449521	0
19840719	325619	5449547	15
19840720	325621	5449571	20
19840721	325619	5449595	0
19840722	325620	5449622	15
19840723	325620	5449648	0
19840724	325620	5449674	15
19840725	325620	5449698	0
19840726	325620	5449724	20
19840727	325620	5449750	180
19840728	325620	5449777	0
19840729	325729	5449968	0
19840730	325727	5449919	0
19840731	325728	5449869	0
19840732	325727	5449821	0
19840733	325727	5449771	20
19840734	325724	5449721	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840735	325724	5449695	0
19840736	325724	5449648	0
19840737	325723	5449621	0
19840738	325722	5449570	0
19840739	325720	5449521	0
19840740	325719	5449472	0
19840741	325718	5449449	65
19840742	325718	5449421	500
19840743	325716	5449396	0
19840744	325716	5449371	0
19840745	325716	5449347	0
19840746	325715	5449321	20
19840747	325715	5449295	0
19840748	325713	5449270	0
19840749	325713	5449245	0
19840750	325714	5449218	0
19840751	325713	5449196	0
19840752	325713	5449169	0
19840753	325712	5449145	20
19840754	325711	5449120	0
19840755	325711	5449094	20
19840756	325710	5449070	0
19840757	325709	5449046	0
19840758	325709	5449021	0
19840759	325708	5448996	0
19840760	325708	5448975	0
19840761	325706	5448945	0
19840762	325705	5448922	0
19840763	325705	5448893	30
19840764	325704	5448870	0
19840765	325705	5448843	0
19840766	325703	5448819	0
19840767	325703	5448795	0
19840768	325702	5448743	0
19840769	325700	5448720	0
19840770	325699	5448669	0
19840771	325700	5448644	0
19840772	325700	5448619	0
19840773	325698	5448594	0
19840774	325697	5448567	0
19840775	325698	5448545	0
19840776	325696	5448517	0
19840777	325696	5448493	0
19840778	325697	5448467	0
19840779	325696	5448421	0
19840780	325695	5448368	0



<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840781	325693	5448317	60
19840782	325692	5448269	0
19840783	325690	5448220	0
19840784	325689	5448168	0
19840785	325689	5448118	0
19840786	325689	5448073	0
19840787	325688	5448019	0
19840788	325792	5447966	0
19840789	325794	5448014	0
19840790	325794	5448067	0
19840791	325795	5448118	0
19840792	325796	5448165	0
19840793	325797	5448217	0
19840794	325796	5448266	0
19840795	325798	5448315	410
19840796	325798	5448341	870
19840797	325800	5448390	0
19840798	325800	5448416	0
19840799	325800	5448466	0
19840800	325800	5448490	0
19840801	325801	5448515	0
19840802	325803	5448543	60
19840803	325803	5448564	0
19840804	325803	5448592	0
19840805	325803	5448617	20
19840806	325803	5448641	0
19840807	325802	5448667	0
19840808	325805	5448689	0
19840809	325806	5448715	0
19840810	325806	5448743	0
19840811	325806	5448769	0
19840812	325806	5448793	0
19840813	325808	5448815	0
19840814	325806	5448841	0
19840815	325807	5448867	3950
19840816	325807	5448892	0
19840817	325809	5448917	0
19840818	325810	5448942	0
19840819	325811	5448970	0
19840820	325810	5448996	0
19840821	325811	5449019	60
19840822	325810	5449044	0
19840823	325811	5449068	0
19840824	325812	5449091	0
19840825	325813	5449116	125
19840826	325813	5449142	550

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840827	325813	5449167	0
19840828	325813	5449194	0
19840829	325814	5449217	0
19840830	325813	5449242	0
19840831	325816	5449267	0
19840832	325815	5449292	0
19840833	325817	5449317	0
19840834	325817	5449344	0
19840835	325819	5449395	1200
19840836	325818	5449419	0
19840837	325818	5449444	0
19840838	325818	5449469	145
19840839	325820	5449493	80
19840840	325822	5449568	55
19840841	325822	5449621	0
19840842	325821	5449669	0
19840843	325823	5449719	0
19840844	325825	5449767	0
19840845	325824	5449819	45
19840846	325825	5449867	0
19840847	325827	5449917	0
19840848	325827	5449966	0
19840849	325931	5449965	0
19840850	325929	5449917	0
19840851	325928	5449865	0
19840852	325928	5449817	0
19840853	325927	5449767	0
19840854	325925	5449718	0
19840855	325926	5449666	180
19840856	325925	5449616	0
19840857	325923	5449566	0
19840858	325922	5449518	35
19840859	325922	5449491	450
19840860	325921	5449468	60
19840861	325922	5449446	0
19840862	325919	5449418	25
19840863	325920	5449392	0
19840864	325919	5449369	0
19840865	325918	5449342	0
19840866	325917	5449316	0
19840867	325918	5449290	0
19840868	325918	5449264	0
19840869	325915	5449240	35
19840870	325915	5449214	0
19840871	325915	5449193	0
19840872	325915	5449165	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840873	325915	5449141	0
19840874	325914	5449115	0
19840875	325912	5449092	0
19840876	325913	5449066	0
19840877	325911	5449042	0
19840878	325911	5449018	0
19840879	325912	5448993	0
19840880	325913	5448968	0
19840881	325912	5448944	0
19840882	325915	5448915	0
19840883	325912	5448889	0
19840884	325912	5448865	0
19840885	325914	5448841	0
19840886	325916	5448813	0
19840887	325915	5448788	210
19840888	325915	5448764	0
19840889	325916	5448738	0
19840890	325916	5448713	0
19840891	325918	5448689	0
19840892	325918	5448663	0
19840893	325918	5448639	0
19840894	325918	5448612	25
19840895	325919	5448587	0
19840896	325921	5448564	0
19840897	325922	5448537	50
19840898	325922	5448513	0
19840899	325921	5448487	0
19840900	325922	5448463	0
19840901	325923	5448413	0
19840902	325924	5448360	0
19840903	325926	5448311	0
19840904	325927	5448263	0
19840905	325928	5448214	0
19840906	325930	5448162	0
19840907	325932	5448111	0
19840908	325932	5448060	0
19840909	325933	5448013	0
19840910	325935	5447964	0
19840911	326043	5447960	0
19840912	326043	5448008	0
19840913	326042	5448059	0
19840914	326040	5448109	0
19840915	326038	5448159	0
19840916	326037	5448211	0
19840917	326035	5448260	0
19840918	326032	5448312	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840919	326032	5448360	0
19840920	326030	5448409	0
19840921	326029	5448461	0
19840922	326027	5448486	0
19840923	326027	5448511	0
19840924	326027	5448535	0
19840925	326025	5448587	0
19840926	326025	5448611	0
19840927	326022	5448634	0
19840928	326023	5448660	0
19840929	326021	5448686	130
19840930	326020	5448711	0
19840931	326019	5448734	0
19840932	326019	5448760	0
19840933	326016	5448786	0
19840934	326016	5448812	0
19840935	326015	5448835	0
19840936	326015	5448861	0
19840937	326015	5448886	0
19840938	326015	5448912	0
19840939	326013	5448937	0
19840940	326013	5448965	25
19840941	326013	5448992	0
19840942	326012	5449015	0
19840943	326013	5449039	0
19840944	326014	5449063	0
19840945	326014	5449089	0
19840946	326016	5449114	20
19840947	326015	5449138	0
19840948	326015	5449163	0
19840949	326015	5449191	0
19840950	326018	5449212	0
19840951	326017	5449238	0
19840952	326020	5449262	400
19840953	326018	5449288	0
19840954	326019	5449315	0
19840955	326020	5449338	0
19840956	326018	5449364	0
19840957	326021	5449390	0
19840958	326021	5449417	4600
19840959	326021	5449442	0
19840960	326020	5449466	0
19840961	326023	5449487	0
19840962	326023	5449514	0
19840963	326023	5449537	0
19840964	326024	5449564	110

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19840965	326024	5449614	0
19840966	326025	5449665	0
19840967	326026	5449716	0
19840968	326026	5449763	0
19840969	326028	5449813	0
19840970	326027	5449864	0
19840971	326029	5449915	0
19840972	326029	5449964	0
19840973	326126	5449960	0
19840974	326127	5449914	0
19840975	326125	5449861	0
19840976	326123	5449812	0
19840977	326124	5449762	0
19840978	326124	5449715	0
19840979	326121	5449663	0
19840980	326123	5449614	0
19840981	326122	5449560	0
19840982	326120	5449515	0
19840983	326118	5449465	30
19840984	326118	5449441	0
19840985	326119	5449414	0
19840986	326119	5449389	0
19840987	326118	5449363	0
19840988	326118	5449339	0
19840989	326116	5449312	0
19840990	326116	5449261	0
19840991	326115	5449238	0
19840992	326116	5449212	0
19840993	326116	5449188	0
19840994	326114	5449161	0
19840995	326114	5449137	0
19840996	326113	5449113	0
19840997	326114	5449085	0
19840998	326114	5449063	0
19840999	326114	5449039	0
19841000	326113	5449013	0
19841001	326111	5448992	0
19841002	326111	5448964	0
19841003	326112	5448936	0
19841004	326111	5448910	0
19841005	326110	5448884	0
19841006	326110	5448860	0
19841007	326108	5448832	0
19841008	326108	5448809	0
19841009	326108	5448785	0
19841010	326106	5448759	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19841011	326107	5448734	0
19841012	326108	5448709	0
19841013	326106	5448684	20
19841014	326105	5448657	0
19841015	326104	5448632	0
19841016	326103	5448608	0
19841017	326103	5448584	0
19841018	326104	5448559	0
19841019	326102	5448534	0
19841020	326101	5448509	20
19841021	326101	5448483	0
19841022	326101	5448460	0
19841023	326101	5448434	90
19841024	326099	5448386	0
19841025	326099	5448357	0
19841026	326099	5448333	0
19841027	326097	5448308	100
19841028	326097	5448257	0
19841029	326094	5448210	0
19841030	326094	5448157	800
19841031	326093	5448110	0
19841032	326093	5448057	0
19841033	326092	5448007	0
19841034	326092	5447959	200
19841035	325569	5447968	0
19841036	325548	5447970	0
19841037	325520	5447970	0
19841038	325495	5447971	0
19841039	325469	5447972	0
19841040	325446	5447973	0
19841041	325421	5447974	0
19841042	325396	5447974	0
19841043	325369	5447974	0
19841044	325345	5447976	0
19841045	325321	5447976	0
19841046	325271	5447977	0
19841047	325247	5447976	0
19841048	325220	5447977	0
19841049	325199	5447978	0
19841050	325148	5447978	0
19841051	325092	5447927	0
19841052	325093	5447878	0
19841053	325093	5447830	0
19841054	325092	5447781	0
19841055	325091	5447730	15
19841056	325090	5447682	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19841057	325091	5447629	100
19841058	325090	5447580	20
19841059	325090	5447532	0
19841060	325089	5447482	0
19841061	326284	5448959	0
19841062	326260	5448960	0
19841063	326234	5448960	0
19841064	326209	5448961	0
19841065	326186	5448961	0
19841066	326160	5448962	15
19841067	326134	5448963	0
19841068	326088	5448963	0
19841069	326062	5448964	0
19841070	326039	5448965	0
19841071	325989	5448966	0
19841072	325961	5448966	0
19841073	325938	5448966	20
19841074	325882	5448968	25
19841075	325785	5448971	0
19841076	325762	5448970	0
19841077	325735	5448971	0
19841078	325659	5448973	0
19841079	325635	5448972	0
19841080	325585	5448973	0
19841081	325560	5448975	45
19841082	325537	5448976	20
19841083	325487	5448976	0
19841084	325436	5448977	0
19841085	325387	5448978	0
19841086	325337	5448980	0
19841087	325288	5448980	85
19841088	325237	5448982	0
19841089	325187	5448983	0
19841090	325136	5448983	0
19841091	325663	5448947	0
19841092	325661	5448922	0
19841093	325661	5448896	0
19841094	325661	5448872	0
19841095	325659	5448844	0
19841096	325660	5448820	0
19841097	325660	5448796	0
19841098	325658	5448770	0
19841099	325659	5448745	0
19841100	325658	5448695	0
19841101	325656	5448668	0
19841102	325755	5448767	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19841103	325758	5448793	0
19841104	325759	5448817	0
19841105	325758	5448843	0
19841106	325760	5448869	0
19841107	325759	5448893	0
19841108	325762	5448919	0
19841109	325762	5448945	120
19841110	324830	5448386	0
19841111	324854	5448385	25
19841112	324878	5448385	50



Appendix 4.3 Compilation of Teck – Multinational Resources Inc. Soil Geochemical Data Aris no. 12725

**Appendix 4.3 Compilation of Teck – Multinational Resources Inc. Soil Geochemical Data Aris no. 1271**

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725001	324,324	5,446,694	1
12725002	324,321	5,446,671	2
12725003	324,320	5,446,648	1
12725004	324,317	5,446,626	1
12725005	324,316	5,446,603	58
12725006	324,313	5,446,579	1
12725007	324,310	5,446,558	4
12725008	324,307	5,446,511	4
12725009	324,306	5,446,488	1
12725010	324,304	5,446,464	1
12725011	324,302	5,446,442	8
12725012	324,298	5,446,395	25
12725013	324,324	5,446,716	1
12725014	324,325	5,446,738	2
12725015	324,429	5,446,813	1
12725016	324,428	5,446,791	3
12725017	324,426	5,446,768	1
12725018	324,424	5,446,747	2
12725019	324,421	5,446,722	2
12725020	324,419	5,446,697	1
12725021	324,417	5,446,653	95
12725022	324,409	5,446,586	13
12725023	324,402	5,446,494	1
12725024	324,399	5,446,448	1
12725025	324,397	5,446,426	1
12725026	324,394	5,446,404	2
12725027	324,223	5,446,392	1
12725028	324,271	5,446,393	19
12725029	324,346	5,446,398	2
12725030	324,371	5,446,402	1
12725031	324,421	5,446,404	3
12725032	324,444	5,446,405	3
12725033	324,465	5,446,406	54
12725034	324,492	5,446,407	2
12725035	324,516	5,446,408	8
12725036	324,524	5,446,775	1
12725037	324,522	5,446,752	1
12725038	324,518	5,446,730	1
12725039	324,515	5,446,704	46
12725040	324,515	5,446,684	2
12725041	324,513	5,446,660	7
12725042	324,508	5,446,613	1
12725043	324,511	5,446,639	2
12725044	324,506	5,446,592	1

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725045	324,505	5,446,569	1
12725046	324,500	5,446,523	1
12725047	324,500	5,446,500	44
12725048	324,497	5,446,477	4
12725049	324,497	5,446,453	1
12725050	324,495	5,446,432	1
12725051	324,490	5,446,385	7
12725052	324,488	5,446,363	36
12725053	324,484	5,446,341	56
12725054	324,485	5,446,318	10
12725055	324,481	5,446,293	15
12725056	324,480	5,446,271	16
12725057	324,476	5,446,247	1
12725058	324,476	5,446,227	1
12725059	324,470	5,446,158	3
12725060	324,468	5,446,134	2
12725061	324,464	5,446,089	18
12725062	324,462	5,446,067	2
12725063	324,561	5,446,095	1
12725064	324,566	5,446,141	6
12725065	324,568	5,446,163	17
12725066	324,569	5,446,186	4
12725067	324,573	5,446,208	18
12725068	324,574	5,446,232	26
12725069	324,575	5,446,253	7
12725070	324,577	5,446,277	15
12725071	324,540	5,446,411	1
12725072	324,589	5,446,413	12
12725073	324,611	5,446,416	28
12725074	324,637	5,446,418	2
12725075	324,660	5,446,418	5
12725076	324,591	5,446,438	11
12725077	324,591	5,446,460	3
12725078	324,596	5,446,506	16
12725079	324,600	5,446,530	2
12725080	324,600	5,446,553	1
12725081	324,602	5,446,575	3
12725082	324,606	5,446,621	22
12725083	324,613	5,446,712	7
12725084	324,617	5,446,735	2
12725085	324,617	5,446,757	2
12725086	324,617	5,446,780	1
12725087	324,621	5,446,803	15
12725088	324,620	5,446,814	11
12725089	324,706	5,446,673	14
12725090	324,704	5,446,651	22

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725091	324,702	5,446,627	1
12725092	324,695	5,446,559	38
12725093	324,694	5,446,535	19
12725094	324,693	5,446,514	23
12725095	324,687	5,446,467	8
12725096	324,686	5,446,421	6
12725097	324,681	5,446,377	3
12725098	324,679	5,446,353	1
12725099	324,674	5,446,282	19
12725100	324,672	5,446,260	1
12725101	324,670	5,446,237	20
12725102	324,668	5,446,213	15
12725103	324,666	5,446,194	5
12725104	324,664	5,446,171	14
12725105	324,662	5,446,147	24
12725106	324,660	5,446,123	1
12725107	324,657	5,446,101	1
12725108	324,656	5,446,079	1
12725109	324,654	5,446,055	1
12725110	324,651	5,446,034	1
12725111	324,747	5,446,016	3
12725112	324,750	5,446,040	4
12725113	324,751	5,446,062	1
12725114	324,752	5,446,084	1
12725115	324,756	5,446,109	9
12725116	324,757	5,446,130	6
12725117	324,758	5,446,154	1
12725118	324,761	5,446,176	1
12725119	324,761	5,446,198	1
12725120	324,765	5,446,220	1
12725121	324,767	5,446,243	1
12725122	324,769	5,446,267	3
12725123	324,770	5,446,289	6
12725124	324,773	5,446,311	5
12725125	324,775	5,446,337	4
12725126	324,777	5,446,359	3
12725127	324,781	5,446,403	3
12725128	324,782	5,446,426	6
12725129	324,758	5,446,425	8
12725130	324,708	5,446,423	5
12725131	324,736	5,446,447	3
12725132	324,736	5,446,470	5
12725133	324,739	5,446,492	2
12725134	324,740	5,446,513	25
12725135	324,740	5,446,525	46
12725136	324,743	5,446,537	270

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725137	324,743	5,446,546	88
12725138	324,745	5,446,561	23
12725139	324,747	5,446,583	3
12725140	324,748	5,446,606	20
12725141	324,750	5,446,629	17
12725142	324,752	5,446,653	25
12725143	324,805	5,446,702	55
12725144	324,830	5,446,703	15
12725145	324,851	5,446,703	24
12725146	324,851	5,446,682	2
12725147	324,828	5,446,680	26
12725148	324,802	5,446,679	105
12725149	324,801	5,446,657	130
12725150	324,826	5,446,657	22
12725151	324,848	5,446,657	8
12725152	324,800	5,446,634	48
12725153	324,798	5,446,621	56
12725154	324,799	5,446,610	65
12725155	324,797	5,446,599	105
12725156	324,795	5,446,588	90
12725157	324,774	5,446,632	50
12725158	324,773	5,446,607	55
12725159	324,770	5,446,585	3
12725160	324,770	5,446,562	4
12725161	324,767	5,446,539	120
12725162	324,765	5,446,517	36
12725163	324,793	5,446,553	60
12725164	324,792	5,446,542	270
12725165	324,791	5,446,529	11
12725166	324,790	5,446,519	7
12725167	324,787	5,446,496	45
12725168	324,786	5,446,472	22
12725169	324,784	5,446,451	26
12725170	324,805	5,446,429	15
12725171	324,829	5,446,430	4
12725172	324,854	5,446,431	43
12725173	324,880	5,446,433	15
12725174	324,904	5,446,435	9
12725175	324,927	5,446,436	2
12725176	324,999	5,446,440	3
12725177	325,023	5,446,442	3
12725178	325,045	5,446,444	4
12725179	325,072	5,446,445	26
12725180	325,096	5,446,448	8
12725181	325,069	5,446,423	2
12725182	325,067	5,446,401	4

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725183	325,121	5,446,449	45
12725184	325,142	5,446,450	38
12725185	325,168	5,446,452	7
12725186	325,166	5,446,429	61
12725187	325,165	5,446,407	1
12725188	325,163	5,446,384	3
12725189	325,192	5,446,454	1
12725190	325,217	5,446,455	68
12725191	325,240	5,446,456	2
12725192	325,265	5,446,458	2
12725193	325,289	5,446,459	2
12725194	325,302	5,446,459	8
12725195	325,313	5,446,461	960
12725196	325,326	5,446,462	1
12725197	325,338	5,446,462	1
12725198	325,361	5,446,464	4
12725199	325,408	5,446,467	6
12725200	325,326	5,446,449	2
12725201	325,325	5,446,439	2
12725202	325,313	5,446,448	3
12725203	325,310	5,446,437	39
12725204	325,301	5,446,447	31
12725205	325,263	5,446,435	1
12725206	325,262	5,446,424	1
12725207	325,273	5,446,424	55
12725208	325,272	5,446,413	22
12725209	325,260	5,446,412	90
12725210	325,247	5,446,411	38
12725211	325,249	5,446,422	1
12725212	325,246	5,446,398	2
12725213	325,259	5,446,400	1
12725214	325,271	5,446,399	3
12725215	325,259	5,446,390	1
12725216	325,257	5,446,367	12
12725217	325,255	5,446,345	175
12725218	325,351	5,446,350	32
12725219	325,350	5,446,326	5
12725220	325,354	5,446,373	2
12725221	325,356	5,446,396	1
12725222	325,363	5,446,487	5
12725223	325,365	5,446,511	1
12725224	325,373	5,446,601	6
12725225	325,375	5,446,624	3
12725226	325,376	5,446,648	4
12725227	325,379	5,446,669	3
12725228	325,381	5,446,692	48

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725229	325,382	5,446,716	6
12725230	325,384	5,446,738	3
12725231	325,388	5,446,785	8
12725232	325,389	5,446,806	1
12725233	325,391	5,446,830	1
12725234	325,395	5,446,874	1
12725235	325,296	5,446,824	10
12725236	325,294	5,446,801	4
12725237	325,290	5,446,777	4
12725238	325,288	5,446,732	7
12725239	325,282	5,446,665	3
12725240	325,278	5,446,619	1
12725241	325,276	5,446,596	1
12725242	325,274	5,446,571	38
12725243	325,270	5,446,526	3
12725244	325,268	5,446,481	42
12725245	324,877	5,446,414	4
12725246	324,876	5,446,389	1
12725247	324,873	5,446,365	6
12725248	324,871	5,446,343	6
12725249	324,870	5,446,320	2
12725250	324,867	5,446,296	8
12725251	324,865	5,446,273	18
12725252	324,864	5,446,251	4
12725253	324,861	5,446,228	5
12725254	324,860	5,446,204	12
12725255	324,859	5,446,183	9
12725256	324,850	5,446,090	3
12725257	324,847	5,446,066	1
12725258	324,847	5,446,045	780
12725259	324,843	5,446,023	1
12725260	324,940	5,446,029	17
12725261	324,944	5,446,074	5
12725262	324,945	5,446,095	1
12725263	324,948	5,446,121	1
12725264	324,950	5,446,143	4
12725265	324,951	5,446,165	4
12725266	324,954	5,446,188	3
12725267	324,955	5,446,212	13
12725268	324,957	5,446,234	12
12725269	324,960	5,446,257	5
12725270	324,962	5,446,280	16
12725271	324,963	5,446,303	1
12725272	324,965	5,446,325	2
12725273	324,969	5,446,371	3
12725274	324,971	5,446,395	2

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725275	324,974	5,446,417	10
12725276	324,965	5,446,450	28
12725277	324,964	5,446,461	283
12725278	324,965	5,446,471	495
12725279	324,977	5,446,462	85
12725280	324,989	5,446,463	3
12725281	324,990	5,446,474	50
12725282	324,977	5,446,473	110
12725283	324,977	5,446,467	36
12725284	324,979	5,446,485	50
12725285	324,980	5,446,507	2
12725286	324,982	5,446,530	8
12725287	324,985	5,446,553	7
12725288	324,986	5,446,576	1
12725289	324,988	5,446,601	1
12725290	324,990	5,446,623	24
12725291	324,994	5,446,667	29
12725292	324,995	5,446,692	16
12725293	324,998	5,446,714	10
12725294	325,000	5,446,737	7
12725295	325,003	5,446,761	3
12725296	325,008	5,446,828	5
12725297	325,009	5,446,851	6
12725298	324,913	5,446,846	8
12725299	324,911	5,446,822	14
12725300	324,910	5,446,800	28
12725301	324,908	5,446,777	32
12725302	324,907	5,446,754	85
12725303	324,905	5,446,742	1
12725304	324,904	5,446,730	1
12725305	324,955	5,446,758	12
12725306	324,951	5,446,734	50
12725307	324,903	5,446,718	1
12725308	324,902	5,446,707	680
12725309	324,890	5,446,694	6
12725310	324,901	5,446,695	1
12725311	324,899	5,446,686	65
12725312	324,888	5,446,684	1
12725313	324,888	5,446,672	12
12725314	324,899	5,446,672	6
12725315	324,898	5,446,661	10
12725316	324,897	5,446,651	42
12725317	324,897	5,446,644	10
12725318	324,896	5,446,639	5
12725319	324,896	5,446,634	4
12725320	324,895	5,446,629	16



<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725321	324,895	5,446,626	1
12725322	324,894	5,446,616	3
12725323	324,894	5,446,607	1
12725324	324,893	5,446,598	20
12725325	324,892	5,446,589	5
12725326	324,891	5,446,579	1
12725327	324,890	5,446,571	120
12725328	324,890	5,446,561	2
12725329	324,820	5,446,589	48
12725330	324,822	5,446,612	105
12725331	324,824	5,446,633	48
12725332	324,818	5,446,565	4
12725333	324,816	5,446,543	230
12725334	324,839	5,446,549	134
12725335	324,839	5,446,546	16
12725336	324,839	5,446,539	178
12725337	324,839	5,446,530	138
12725338	324,838	5,446,521	32
12725339	324,814	5,446,520	24
12725340	324,837	5,446,511	310
12725341	324,836	5,446,502	2
12725342	324,860	5,446,504	84
12725343	324,861	5,446,514	91
12725344	324,862	5,446,523	74
12725345	324,862	5,446,532	59
12725346	324,863	5,446,542	25
12725347	324,864	5,446,551	20
12725348	324,864	5,446,559	39
12725349	324,865	5,446,568	4
12725350	324,841	5,446,567	3
12725351	324,867	5,446,577	1
12725352	324,867	5,446,588	2
12725353	324,843	5,446,586	5
12725354	324,842	5,446,589	2
12725355	324,843	5,446,594	120
12725356	324,868	5,446,596	2
12725357	324,844	5,446,604	29
12725358	324,869	5,446,605	6
12725359	324,869	5,446,614	2
12725360	324,845	5,446,612	3
12725361	324,845	5,446,621	65
12725362	324,847	5,446,629	75
12725363	324,846	5,446,635	1
12725364	324,847	5,446,642	1
12725365	324,872	5,446,641	1
12725366	324,871	5,446,633	32

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725367	324,870	5,446,623	1
12725368	324,885	5,446,503	27
12725369	324,885	5,446,506	77
12725370	324,909	5,446,507	40
12725371	324,912	5,446,517	25
12725372	324,887	5,446,515	55
12725373	324,886	5,446,525	25
12725374	324,912	5,446,526	15
12725375	324,912	5,446,535	50
12725376	324,913	5,446,544	3
12725377	324,887	5,446,533	12
12725378	324,888	5,446,543	2
12725379	324,874	5,446,547	8
12725380	324,889	5,446,552	15
12725381	324,914	5,446,554	6
12725382	324,914	5,446,564	1
12725383	324,915	5,446,573	5
12725384	324,916	5,446,581	6
12725385	324,917	5,446,590	2
12725386	324,918	5,446,599	9
12725387	324,918	5,446,609	29
12725388	324,920	5,446,617	1
12725389	324,920	5,446,627	6
12725390	324,920	5,446,635	25
12725391	324,921	5,446,645	10
12725392	324,922	5,446,654	20
12725393	324,950	5,446,710	1
12725394	324,948	5,446,687	1
12725395	324,946	5,446,664	5
12725396	324,944	5,446,642	1
12725397	324,942	5,446,619	1
12725398	324,940	5,446,596	4
12725399	324,938	5,446,573	1
12725400	324,936	5,446,551	6
12725401	324,935	5,446,528	6
12725402	324,933	5,446,505	4
12725403	324,930	5,446,458	9
12725404	325,105	5,446,836	2
12725405	325,103	5,446,812	1
12725406	325,098	5,446,767	1
12725407	325,097	5,446,744	1
12725408	325,094	5,446,720	1
12725409	325,093	5,446,698	8
12725410	325,089	5,446,652	1
12725411	325,087	5,446,629	16
12725412	325,086	5,446,606	56

<b><u>Sample ID</u></b>	<b><u>Easting</u></b>	<b><u>Northing</u></b>	<b><u>Au ppb</u></b>
12725413	325,083	5,446,584	85
12725414	325,081	5,446,561	5
12725415	325,079	5,446,537	1
12725416	325,077	5,446,514	2
12725417	325,075	5,446,491	1
12725418	325,072	5,446,469	24
12725419	325,066	5,446,377	1
12725420	325,231	5,446,297	1
12725421	325,238	5,446,296	1
12725422	325,345	5,446,281	2
12725423	325,342	5,446,258	6
12725424	325,440	5,446,218	4
12725425	325,442	5,446,241	2
12725426	325,444	5,446,264	1
12725427	325,447	5,446,332	15
12725428	325,448	5,446,356	2
12725429	325,450	5,446,380	19
12725430	325,453	5,446,402	1
12725431	325,455	5,446,448	33
12725432	325,433	5,446,469	2
12725433	325,482	5,446,471	4
12725434	325,506	5,446,474	10
12725435	325,530	5,446,476	9
12725436	325,554	5,446,477	1
12725437	325,579	5,446,478	15
12725438	325,603	5,446,480	1
12725439	325,628	5,446,481	2
12725440	325,651	5,446,483	2
12725441	325,676	5,446,485	3
12725442	325,699	5,446,486	2
12725443	325,724	5,446,487	5
12725444	325,749	5,446,490	5
12725445	325,746	5,446,467	4
12725446	325,745	5,446,444	6
12725447	325,743	5,446,422	5
12725448	325,742	5,446,399	7
12725449	325,739	5,446,375	9
12725450	325,738	5,446,352	4
12725451	325,736	5,446,330	5
12725452	325,733	5,446,306	8
12725453	325,732	5,446,283	3
12725454	325,728	5,446,238	2
12725455	325,726	5,446,215	1
12725456	325,726	5,446,203	8
12725457	325,628	5,446,195	3
12725458	325,629	5,446,208	3

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725459	325,632	5,446,231	5
12725460	325,632	5,446,253	5
12725461	325,634	5,446,276	16
12725462	325,637	5,446,299	4
12725463	325,638	5,446,323	2
12725464	325,641	5,446,345	1
12725465	325,643	5,446,368	6
12725466	325,645	5,446,391	15
12725467	325,646	5,446,416	2
12725468	325,648	5,446,437	1
12725469	325,650	5,446,460	2
12725470	325,653	5,446,506	2
12725471	325,655	5,446,529	4
12725472	325,656	5,446,552	3
12725473	325,659	5,446,574	1
12725474	325,662	5,446,598	1
12725475	325,662	5,446,619	1
12725476	325,665	5,446,642	2
12725477	325,668	5,446,666	1
12725478	325,669	5,446,689	1
12725479	325,672	5,446,711	1
12725480	325,672	5,446,733	1
12725481	325,675	5,446,757	6
12725482	325,678	5,446,803	37
12725483	325,680	5,446,827	62
12725484	325,682	5,446,848	6
12725485	325,683	5,446,870	3
12725486	325,686	5,446,895	7
12725487	325,688	5,446,916	4
12725488	325,584	5,446,832	2
12725489	325,583	5,446,819	6
12725490	325,582	5,446,798	7
12725491	325,580	5,446,773	2
12725492	325,576	5,446,729	1
12725493	325,574	5,446,705	1
12725494	325,570	5,446,659	2
12725495	325,567	5,446,637	15
12725496	325,565	5,446,613	1
12725497	325,562	5,446,567	4
12725498	325,557	5,446,521	5
12725499	325,557	5,446,500	1
12725500	325,554	5,446,453	2
12725501	325,551	5,446,431	12
12725502	325,548	5,446,386	5
12725503	325,544	5,446,361	2
12725504	325,545	5,446,339	4

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725505	325,540	5,446,293	3
12725506	325,538	5,446,269	3
12725507	325,537	5,446,246	4
12725508	325,458	5,446,482	20
12725509	325,459	5,446,494	800
12725510	325,447	5,446,492	1,200
12725511	325,433	5,446,491	705
12725512	325,461	5,446,505	7
12725513	325,461	5,446,517	1
12725514	325,463	5,446,539	1
12725515	325,465	5,446,562	1
12725516	325,467	5,446,583	1
12725517	325,471	5,446,631	2
12725518	325,473	5,446,653	8
12725519	325,474	5,446,676	2
12725520	325,479	5,446,722	9
12725521	325,482	5,446,765	15
12725522	325,484	5,446,790	8
12725523	325,472	5,446,801	5
12725524	325,484	5,446,802	5
12725525	325,497	5,446,803	5
12725526	325,499	5,446,813	10
12725527	325,485	5,446,813	320
12725528	325,472	5,446,812	5
12725529	325,476	5,446,822	5
12725530	325,487	5,446,823	5
12725531	325,500	5,446,824	30
12725532	325,488	5,446,836	3
12725533	325,489	5,446,859	26
12725534	325,492	5,446,881	18
12725535	325,197	5,446,794	2
12725536	325,195	5,446,772	1
12725537	325,194	5,446,748	4
12725538	325,191	5,446,726	80
12725539	325,189	5,446,704	1
12725540	325,188	5,446,681	1
12725541	325,184	5,446,635	20
12725542	325,181	5,446,613	2
12725543	325,180	5,446,588	1
12725544	325,176	5,446,543	11
12725545	325,175	5,446,520	2
12725546	325,171	5,446,475	1
12725547	324,900	5,446,680	480
12725548	325,311	5,446,460	315
12725549	325,756	5,446,580	1
12725550	325,755	5,446,557	2

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
12725551	325,752	5,446,534	1
12725552	325,751	5,446,512	6
12725553	325,853	5,446,586	9
12725554	325,851	5,446,564	3
12725555	325,849	5,446,541	7
12725556	325,846	5,446,518	6
12725557	325,845	5,446,495	16
12725558	325,786	5,446,947	10
12725559	325,782	5,446,901	1
12725560	325,779	5,446,855	1
12725561	325,778	5,446,833	2
12725562	325,773	5,446,809	4
12725563	325,773	5,446,786	3
12725564	325,869	5,446,814	1
12725565	325,869	5,446,792	24
12725566	325,868	5,446,769	6
12725567	325,768	5,446,742	51
12725568	325,768	5,446,717	3
12725569	325,765	5,446,695	4
12725570	325,762	5,446,651	1
12725571	325,762	5,446,626	1
12725572	325,866	5,446,746	3
12725573	325,864	5,446,722	4
12725574	325,862	5,446,700	5
12725575	325,860	5,446,679	6
12725576	325,859	5,446,654	1
12725577	325,858	5,446,632	3
12725578	325,758	5,446,603	2
12725579	325,854	5,446,609	11

Appendix 4.4 Compilation of Nationwide Gold Mines Soil Geochemical Data ARIS no. 15935

**Appendix 4.4 Compilation of Nationwide Gold Mines Soil Geochemical Data ARIS no. 15935**

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870001	323368	5449089	20
19870002	323417	5449039	0
19870003	323515	5448965	0
19870004	323517	5448887	0
19870005	323565	5448915	0
19870006	323616	5448890	0
19870007	323614	5448917	0
19870008	323615	5449017	0
19870009	323614	5449043	0
19870010	323614	5449142	0
19870011	323613	5449168	0
19870012	323613	5449218	0
19870013	323613	5449244	0
19870014	323662	5449194	0
19870015	323662	5449169	0
19870016	323665	5449118	0
19870017	323664	5449149	15
19870018	323713	5449219	25
19870019	323714	5449198	15
19870020	323712	5449170	0
19870021	323713	5449121	0
19870022	323761	5449091	25
19870023	323761	5449119	0
19870024	323762	5449145	0
19870025	323760	5449169	0
19870026	323761	5449193	0
19870027	323762	5449222	0
19870028	323811	5449194	35
19870029	323812	5449170	15
19870030	323812	5449145	0
19870031	323811	5449120	0
19870032	323811	5449044	0
19870033	323811	5449017	0
19870034	323862	5449013	300
19870035	323862	5448991	35
19870036	323910	5448916	0
19870037	323910	5449027	0
19870038	323909	5449048	0
19870039	323861	5449045	0
19870040	323859	5449092	0
19870041	323860	5449120	15
19870042	323861	5449146	0
19870043	323860	5449168	0
19870044	323908	5449172	0



<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870045	323908	5449147	0
19870046	323909	5449121	0
19870047	323908	5449095	0
19870048	323908	5449070	30
19870049	323957	5449173	0
19870050	323959	5449146	0
19870051	323960	5449091	65
19870052	323959	5449070	0
19870053	323957	5449046	0
19870054	323958	5449018	30
19870055	323958	5448889	0
19870056	324007	5448967	0
19870057	324007	5448996	0
19870058	324007	5449021	0
19870059	324006	5449046	0
19870060	324008	5449071	0
19870061	324007	5449146	0
19870062	324057	5449146	0
19870063	324056	5449122	0
19870064	324057	5449097	0
19870065	324057	5449070	0
19870066	324056	5449045	0
19870067	324057	5449020	0
19870068	324057	5448995	0
19870069	324058	5448967	0
19870070	324056	5448943	0
19870071	324056	5448917	0
19870072	324058	5448891	0
19870073	324106	5448893	0
19870074	324107	5448919	0
19870075	324106	5448944	0
19870076	324107	5448968	0
19870077	324105	5448994	0
19870078	324105	5449019	0
19870079	324105	5449045	0
19870080	324106	5449072	0
19870081	324155	5449046	0
19870082	324156	5449019	0
19870083	324155	5448994	0
19870084	324155	5448970	0
19870085	324155	5448944	0
19870086	324156	5448920	0
19870087	324155	5448893	0
19870088	324205	5448891	0
19870089	324204	5448920	15
19870090	324205	5448941	65

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870091	323337	5449209	0
19870092	324204	5448970	0
19870093	324205	5448991	60
19870094	324204	5449020	0
19870095	324251	5449022	20
19870096	324251	5448993	70
19870097	324253	5448972	20
19870098	324253	5448946	0
19870099	324253	5448920	0
19870100	324254	5448896	0
19870101	324302	5448922	0
19870102	324303	5448896	0
19870103	324401	5448946	0
19870104	324401	5448922	0
19870105	324401	5448894	0
19870106	324352	5448894	0
19870107	324352	5448920	20
19870108	324352	5448947	15
19870109	324351	5448971	0
19870110	324450	5448920	0
19870111	324451	5448895	0
19870112	324549	5448894	0
19870113	324548	5448946	0
19870114	324548	5448974	0
19870115	324548	5448998	0
19870116	324548	5449048	0
19870117	324547	5449075	20
19870118	324548	5449124	0
19870119	324647	5449151	0
19870120	324647	5449098	0
19870121	324647	5449075	0
19870122	324648	5449024	0
19870123	324645	5448948	0
19870124	324645	5448923	0
19870125	324597	5448896	0
19870126	324696	5448972	0
19870127	324695	5448999	0
19870128	324697	5449073	0
19870129	324696	5449122	0
19870130	324745	5448899	0
19870131	324745	5448921	40
19870132	324744	5448975	0
19870133	324745	5449024	35
19870134	324744	5449125	45
19870135	324744	5449225	15
19870136	324744	5449253	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870137	324743	5449277	0
19870138	324743	5449302	0
19870139	324744	5449328	0
19870140	324744	5449379	0
19870141	324742	5449556	0
19870142	324743	5449707	0
19870143	324743	5449733	0
19870144	324741	5449783	0
19870145	324744	5449861	30
19870146	324743	5449910	0
19870147	324742	5449938	0
19870148	324743	5449961	0
19870149	324644	5450036	0
19870150	324646	5450012	0
19870151	324644	5449983	25
19870152	324646	5449962	0
19870153	324644	5449935	0
19870154	324646	5449908	30
19870155	324644	5449884	0
19870156	324644	5449862	0
19870157	324645	5449834	0
19870158	324547	5450035	15
19870159	324546	5450010	0
19870160	324545	5449984	0
19870161	324546	5449960	0
19870162	324545	5449932	20
19870163	324545	5449909	0
19870164	324546	5449884	0
19870165	324545	5449859	0
19870166	324545	5449834	0
19870167	324446	5449807	0
19870168	324447	5449781	0
19870169	324449	5449757	15
19870170	324448	5449729	0
19870171	324447	5449706	0
19870172	324448	5449681	0
19870173	324449	5449657	0
19870174	324448	5449631	0
19870175	324348	5449857	0
19870176	324349	5449832	0
19870177	324349	5449810	0
19870178	324350	5449781	0
19870179	324349	5449730	0
19870180	324349	5449704	25
19870181	324348	5449681	0
19870182	324349	5449655	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870183	324349	5449628	75
19870184	324350	5449602	0
19870185	324349	5449579	0
19870186	324349	5449553	0
19870187	324252	5449553	0
19870188	324546	5449603	0
19870189	324544	5449580	0
19870190	324546	5449556	15
19870191	324545	5449532	15
19870192	324547	5449503	25
19870193	324547	5449451	25
19870194	324547	5449426	20
19870195	324498	5449530	0
19870196	324497	5449503	0
19870197	324496	5449477	0
19870198	324498	5449452	0
19870199	324647	5449428	20
19870200	324647	5449400	60
19870201	324646	5449379	0
19870202	324645	5449354	0
19870203	324694	5449352	0
19870204	324695	5449529	0
19870205	324695	5449455	0
19870206	324696	5449429	0
19870207	324647	5449325	0
19870208	324599	5449326	0
19870209	324646	5449274	0
19870210	324644	5449222	480
19870211	324606	5450055	0
19870212	324740	5450055	0
19870213	324780	5450059	0
19870214	324300	5450065	0
19870215	324345	5450067	0
19870216	324434	5450067	0
19870217	324520	5450068	0
19870218	324390	5450069	0
19870219	324564	5450071	0
19870220	324257	5450074	0
19870221	324740	5450075	0
19870222	324607	5450075	0
19870223	324694	5450076	0
19870224	324871	5450079	0
19870225	324300	5450092	0
19870226	324344	5450093	0
19870227	324390	5450093	0
19870228	324432	5450093	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870229	324520	5450095	0
19870230	324477	5450096	0
19870231	324563	5450096	0
19870232	324608	5450098	0
19870233	324738	5450098	0
19870234	324652	5450099	0
19870235	324256	5450100	0
19870236	324694	5450101	0
19870237	324961	5450101	0
19870238	324782	5450102	0
19870239	325046	5450105	0
19870240	324343	5450115	0
19870241	324300	5450115	0
19870242	324432	5450116	0
19870243	324391	5450117	0
19870244	324652	5450120	0
19870245	324694	5450121	0
19870246	324607	5450122	0
19870247	324736	5450124	0
19870248	324477	5450125	0
19870249	324960	5450131	0
19870250	325045	5450133	0
19870251	324342	5450138	0
19870252	324389	5450139	0
19870253	324519	5450140	0
19870254	324650	5450144	0
19870255	324694	5450145	0
19870256	324782	5450145	0
19870257	324738	5450148	0
19870258	325044	5450157	0
19870259	324432	5450160	0
19870260	324389	5450160	0
19870261	324342	5450161	0
19870262	324561	5450164	0
19870263	324255	5450167	0
19870264	324650	5450168	0
19870265	324606	5450168	0
19870266	324781	5450169	0
19870267	324738	5450169	0
19870268	324959	5450171	0
19870269	324868	5450172	0
19870270	324693	5450174	0
19870271	325044	5450183	0
19870272	324341	5450186	0
19870273	324298	5450186	0
19870274	324432	5450186	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870275	324388	5450186	0
19870276	324472	5450187	0
19870277	324561	5450189	0
19870278	324649	5450192	0
19870279	324738	5450193	0
19870280	324780	5450193	0
19870281	324957	5450199	0
19870282	324693	5450199	0
19870283	325044	5450200	0
19870284	324298	5450208	0
19870285	324431	5450209	0
19870286	324388	5450210	0
19870287	324472	5450210	0
19870288	324343	5450210	0
19870289	324604	5450212	0
19870290	324693	5450215	0
19870291	324738	5450217	0
19870292	324780	5450217	0
19870293	324869	5450219	0
19870294	324651	5450220	0
19870295	324957	5450221	0
19870296	324297	5450231	0
19870297	324341	5450232	0
19870298	324387	5450232	0
19870299	324431	5450233	0
19870300	324472	5450234	0
19870301	324519	5450235	0
19870302	324603	5450236	0
19870303	324692	5450238	0
19870304	325043	5450240	0
19870305	324868	5450243	0
19870306	324649	5450244	0
19870307	324739	5450248	0
19870308	324779	5450248	0
19870309	324957	5450250	0
19870310	324387	5450255	0
19870311	324297	5450256	0
19870312	324343	5450257	0
19870313	324431	5450258	0
19870314	324473	5450258	0
19870315	324254	5450260	0
19870316	324603	5450261	0
19870317	324691	5450262	0
19870318	324867	5450267	0
19870319	324646	5450269	0
19870320	325043	5450269	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870321	324780	5450272	0
19870322	324735	5450272	0
19870323	324298	5450276	0
19870324	324341	5450279	0
19870325	324431	5450280	0
19870326	324387	5450280	0
19870327	324517	5450281	0
19870328	324602	5450283	0
19870329	324691	5450285	0
19870330	324734	5450289	0
19870331	325042	5450291	0
19870332	324648	5450293	0
19870333	324777	5450294	0
19870334	324252	5450296	0
19870335	324340	5450300	0
19870336	324296	5450302	0
19870337	324604	5450303	60
19870338	324472	5450305	0
19870339	324646	5450306	60
19870340	324691	5450307	0
19870341	324866	5450312	0
19870342	324954	5450316	0
19870343	324734	5450318	0
19870344	325043	5450324	25
19870345	324296	5450324	0
19870346	324341	5450324	0
19870347	324384	5450327	0
19870348	324430	5450327	0
19870349	324516	5450328	0
19870350	324472	5450333	0
19870351	324691	5450333	0
19870352	324776	5450336	0
19870353	324732	5450336	0
19870354	324866	5450337	0
19870355	324296	5450348	0
19870356	324385	5450350	0
19870357	324341	5450350	0
19870358	324600	5450350	0
19870359	324557	5450352	0
19870360	324251	5450352	0
19870361	324517	5450353	0
19870362	324690	5450353	0
19870363	324864	5450361	0
19870364	324953	5450362	0
19870365	324646	5450362	0
19870366	324295	5450371	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870367	324340	5450371	0
19870368	324470	5450373	0
19870369	324515	5450374	0
19870370	324604	5450374	0
19870371	324429	5450376	0
19870372	324689	5450380	0
19870373	324865	5450382	0
19870374	324775	5450388	0
19870375	324953	5450391	0
19870376	324250	5450394	0
19870377	324340	5450395	0
19870378	324294	5450395	0
19870379	324604	5450398	0
19870380	324515	5450399	0
19870381	324469	5450400	0
19870382	324558	5450400	0
19870383	324688	5450405	0
19870384	324647	5450407	0
19870385	324775	5450408	0
19870386	325041	5450409	0
19870387	324865	5450412	0
19870388	324294	5450418	0
19870389	324384	5450420	0
19870390	324427	5450420	0
19870391	324250	5450421	0
19870392	324469	5450421	0
19870393	324602	5450423	0
19870394	324515	5450423	0
19870395	324558	5450424	0
19870396	324644	5450429	0
19870397	324687	5450430	0
19870398	324775	5450430	0
19870399	324866	5450431	0
19870400	324732	5450432	0
19870401	324952	5450432	0
19870402	325040	5450439	0
19870403	324293	5450442	0
19870404	324336	5450442	0
19870405	324383	5450443	0
19870406	324470	5450444	0
19870407	324429	5450446	0
19870408	324513	5450447	0
19870409	324250	5450447	0
19870410	324601	5450447	0
19870411	324864	5450453	35
19870412	324644	5450454	0



<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870413	324775	5450456	0
19870414	324731	5450457	0
19870415	324687	5450458	0
19870416	325040	5450461	0
19870417	324337	5450465	0
19870418	324292	5450465	0
19870419	324385	5450467	0
19870420	324428	5450469	0
19870421	324601	5450472	0
19870422	324556	5450472	0
19870423	324514	5450472	0
19870424	324468	5450473	0
19870425	324645	5450477	0
19870426	324686	5450477	0
19870427	324862	5450477	90
19870428	324731	5450480	0
19870429	324774	5450480	0
19870430	324950	5450482	0
19870431	324248	5450486	0
19870432	325040	5450486	0
19870433	324467	5450488	60
19870434	324336	5450489	0
19870435	324383	5450491	0
19870436	324427	5450491	0
19870437	324555	5450493	0
19870438	324512	5450494	0
19870439	324601	5450495	0
19870440	324689	5450496	0
19870441	324644	5450498	0
19870442	324951	5450502	0
19870443	324773	5450502	0
19870444	324730	5450504	0
19870445	324863	5450505	30
19870446	324335	5450510	0
19870447	324248	5450512	0
19870448	325040	5450512	0
19870449	324294	5450514	0
19870450	324426	5450515	0
19870451	324554	5450517	0
19870452	324511	5450518	0
19870453	324468	5450518	0
19870454	324599	5450519	0
19870455	324383	5450520	0
19870456	324689	5450521	0
19870457	324732	5450525	0
19870458	324643	5450527	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870459	324951	5450529	0
19870460	324864	5450530	0
19870461	324775	5450530	0
19870462	325040	5450531	0
19870463	324335	5450537	0
19870464	324425	5450539	0
19870465	324467	5450540	0
19870466	324248	5450541	0
19870467	324555	5450541	0
19870468	324382	5450541	0
19870469	324511	5450541	0
19870470	324687	5450546	0
19870471	324731	5450547	0
19870472	324863	5450550	0
19870473	324773	5450551	0
19870474	324642	5450553	0
19870475	325039	5450555	0
19870476	324952	5450558	0
19870477	324291	5450559	0
19870478	324601	5450560	0
19870479	324246	5450561	0
19870480	324382	5450561	0
19870481	324427	5450561	0
19870482	324555	5450562	0
19870483	324335	5450563	0
19870484	324512	5450564	0
19870485	324470	5450565	0
19870486	324772	5450568	0
19870487	324730	5450569	0
19870488	324641	5450569	0
19870489	324685	5450569	0
19870490	324863	5450573	0
19870491	325038	5450581	0
19870492	324427	5450583	0
19870493	324553	5450583	0
19870494	324335	5450584	0
19870495	324246	5450586	0
19870496	324380	5450586	0
19870497	324470	5450586	0
19870498	324512	5450587	0
19870499	324291	5450587	0
19870500	324641	5450587	0
19870501	324685	5450591	0
19870502	324730	5450591	0
19870503	324600	5450594	0
19870504	324771	5450595	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870505	324949	5450597	0
19870506	324424	5450598	340
19870507	324863	5450599	0
19870508	324511	5450602	500
19870509	324599	5450614	0
19870510	324771	5450616	0
19870511	324949	5450620	0
19870512	325036	5450621	0
19870513	324861	5450624	0
19870514	324685	5450630	380
19870515	324510	5450631	0
19870516	324598	5450641	0
19870517	324770	5450645	0
19870518	324949	5450646	0
19870519	324510	5450658	0
19870520	324682	5450666	0
19870521	324334	5450672	30
19870522	324420	5450674	0
19870523	324597	5450675	0
19870524	324247	5450677	0
19870525	324510	5450679	0
19870526	324682	5450682	0
19870527	324767	5450691	0
19870528	324420	5450699	0
19870529	324334	5450701	30
19870530	324247	5450702	0
19870531	324510	5450703	0
19870532	324597	5450705	0
19870533	324683	5450713	0
19870534	324334	5450717	0
19870535	324859	5450717	0
19870536	324947	5450720	0
19870537	324422	5450726	0
19870538	324508	5450729	0
19870539	324682	5450734	0
19870540	324244	5450736	110
19870541	324596	5450742	220
19870542	324336	5450743	30
19870543	324420	5450749	0
19870544	324507	5450754	0
19870545	324682	5450759	0
19870546	324860	5450763	0
19870547	324947	5450763	0
19870548	324593	5450771	0
19870549	324333	5450772	0
19870550	324506	5450777	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870551	324681	5450780	0
19870552	324418	5450791	0
19870553	324593	5450794	0
19870554	324241	5450795	0
19870555	324506	5450800	0
19870556	324680	5450804	0
19870557	324945	5450808	0
19870558	324241	5450814	0
19870559	324591	5450818	0
19870560	324418	5450821	0
19870561	324507	5450825	0
19870562	324856	5450827	0
19870563	324329	5450833	0
19870564	324241	5450837	0
19870565	324418	5450844	0
19870566	324680	5450844	0
19870567	324590	5450848	0
19870568	324855	5450856	0
19870569	324242	5450860	0
19870570	324947	5450860	0
19870571	324332	5450863	0
19870572	324590	5450868	0
19870573	324504	5450870	0
19870574	324766	5450870	0
19870575	324680	5450871	0
19870576	324416	5450871	0
19870577	324504	5450888	0
19870578	324591	5450891	0
19870579	324331	5450893	0
19870580	324678	5450893	0
19870581	324854	5450902	0
19870582	324505	5450909	0
19870583	324417	5450909	0
19870584	324590	5450914	0
19870585	324677	5450918	0
19870586	324763	5450919	0
19870587	325031	5450920	220
19870588	325118	5450925	15
19870589	324329	5450931	0
19870590	324416	5450937	0
19870591	324764	5450942	0
19870592	324589	5450942	0
19870593	324854	5450948	0
19870594	324675	5450951	0
19870595	324503	5450959	0
19870596	324589	5450964	0

<u>Sample ID</u>	<u>Easting</u>	<u>Northing</u>	<u>Au ppb</u>
19870597	324763	5450967	0
19870598	324503	5450980	0
19870599	324854	5450990	0
19870600	324589	5450992	0
19870601	324676	5450997	0
19870602	324504	5451002	0
19870603	324329	5451003	0
19870604	324763	5451015	0
19870605	324676	5451021	0
19870606	324502	5451025	40
19870607	324327	5451025	0
19870608	324590	5451028	0
19870609	324414	5451033	0
19870610	324854	5451040	0
19870611	324327	5451047	0
19870612	324415	5451053	0
19870613	324673	5451053	360
19870614	324500	5451054	0
19870615	324763	5451057	0
19870616	324589	5451057	0
19870617	324939	5451063	0
19870618	324414	5451069	0
19870619	324326	5451071	0
19870620	324589	5451076	0
19870621	324503	5451078	0
19870622	324674	5451080	50
19870623	324413	5451095	0
19870624	324757	5451105	0
19870625	324938	5451123	0
19870626	324759	5451178	0
19870627	324758	5451204	0
19870628	325023	5451208	0
19870629	324940	5451209	0
19870630	324758	5451228	0
19870631	325021	5451231	0
19870632	324758	5451250	0
19870633	325021	5451255	0
19870634	324935	5451274	0
19870635	325022	5451281	0
19870636	324937	5451296	0
19870637	325021	5451301	0