GEOLOGICAL & GEOCHEMICAL REPORT

MAPPING AND SOIL SURVEYS

On the

Cantung Block

CANEAST 1 – 40: YD132681 - YD132720
Long: 128°17'11.66"W Lat: 61°55'38.86"N; NTS: 105 H/16

ELF 1 – 11, 13, 15, 17, 19, 21 – 68: YC72419 - YC72429, YC72431, YC72433, YC72435, YC72437, YD130157 - YD130204
Long: 127°55'30.19"W Lat: 61°19'38.16"N; NTS: 095 E/05

HORN 1-146: YC29189 – YC29204, YC31965 – YC31978, YD130041 – YD130156
Long: 128°51'22.49"W Lat: 61°58'43.50"N; NTS: 105 H/15 & 105 I/02

Registered Owners: 45127 YUKON INC. 30% Ryan Gold Corp. 70%

WATSON MINING DISTRICT

Work Performed: August 19th to August 27th
Date of Report: 5 December 2012

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Executive Summary

Ryan Gold Corp.'s Cantung property block comprises a discontinuous grouping of three prospects situated in the Loagn mountains area of the Yukon Territory, on the western flank of the Mackenzie Mountains approximately 210 km north of the community of Watson Lake. The property falls wholly within the Watson Lake mining division. The properties comprise 249 semi-contiguous claim units collectively covering an area of approximately 5,156 hectares.

The three properties are jointly owned by Ryan Gold which holds a 70% share, while 45127 Yukon Inc. holds a 30% share in the properties. The Cantung properties were staked from 2005-2010 by Shawn Ryan, the previous owner of the claims. Mr. Ryan performed minor soil geochemical reconnaissance work on the properties between 2006 and 2010. Prior to this only grass roots soil geochemical profiling had been conducted on the Horn and Elf properties by the Hudson bay company in 1999, who defined only spotty gold in soil geochemical anomalies after following up regional stream sediment surveys.

The 2012 Ryan Gold Corp. exploration program focused on further continuing, and better developing, prospect foci identified during previous exploration campaigns. To that end a total of 202 rock chip samples, 751 geological observations, and 423 soil samples were taken, as well as detailed airborne magnetic and radiometric geophysical surveys. Strong indicator geology, geochemistry and geophysics, in these recent workings vector toward quartz+gold style mineralization somewhere within the property block. Most prospectively the Horn prospect was identified as having the greatest potential for hosting significant auriferous mineralization potentially related to quartz+gold saddle reef mineralized systems within board refolded regional antiforms. Further boots-on-ground work is required to refine the extent and intensity of mineralization at each of the prospect foci, most especially at the Horn prospect.

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1.0 Introduction

The Cantung Property block hosts sporadic gold occurrences and weak multi-element soil geochemical anomalies. The property comprises three discontinuous prospects located in southwest Yukon adjacent to the Nahanni Range Road ≈200 km north of Watson Lake. This report summarizes the geological observations, geochemical rock, and soil samples collected on the Cantung prospects during the summer of 2012.

This report describes exploration work that was conducted between the 18th of August until the 29th of August by Ryan Gold Corp staff. The work was focused on three prospect areas; CanEast, Elf, and Horn. The work included the collection of 202 rock chip samples and 751 geological observations, as well as the collection from the CanEast and Horn prospects, of 423 soil samples by an independent contractor; GroundTruth Exploration ltd. All rock geochemical samples were submitted to ALS labs in Vancouver, while all soil geochemical samples were submitted to Acme Labs also in Vancouver.

No site works were undertaken on the property during the 2012 field season, work was conducted from a temporary camp located along the Nahanni Range rd., and no mechanized works were conducted on any of the properties. The author participated in, and managed the program. His Statement of Qualifications appears in Appendix A.

2.0 Location & Access

The Cantung properties are situated in southeast Yukon near the border with the Northwest Territories, within the Watson Lake Mining District (Figure 1). The three claim blocks fall within NTS map sheets NTS: 105H/15-16, 105I/02 & 095E/05. All properties are in the tributaries of the Hyland River, each of the properties lies within 20km the Nahanni Range Road (aka: Tungsten Road) and is ≈144-210 km north of Watson Lake in the traditional territory of the Kaska Dena First Nation. Access to the property area from the Nahanni Range Road is by helicopter or on foot, or via snowmobile during snowbound months.

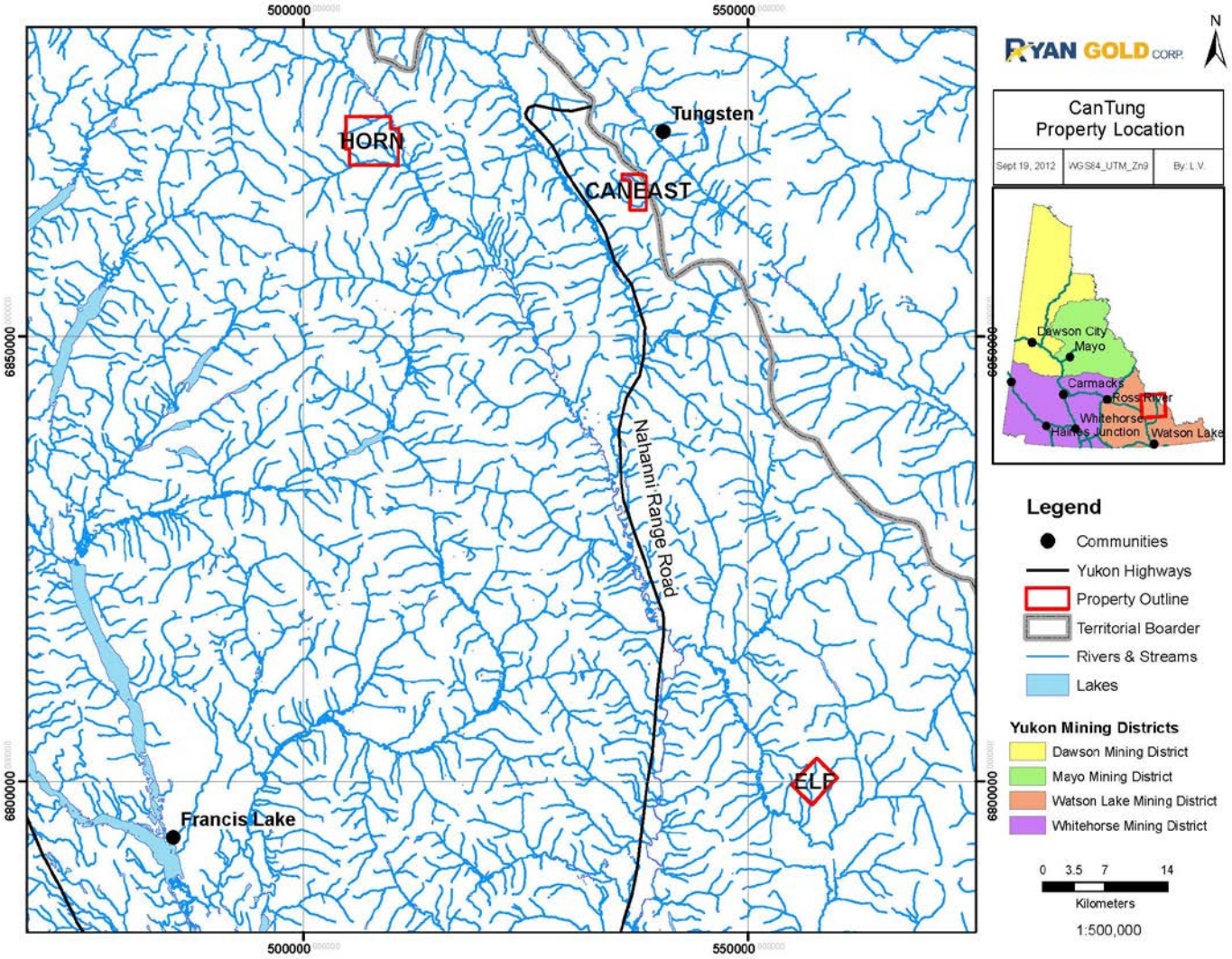


Figure 1: Cantung block properties location map.

3.0 Claim Information

The total number of 'active' claims and leases in accordance with the Quartz Mining Act as of the date of this report for the three property blocks is 249 for a total of 5,156 hectares of property. Table 1 summarizes the basic claim data, and location information. Ownership of the prospects is 45127 YUKON INC. 30% and Ryan Gold Corp. 70%. The reader is referred to Appendix C for a complete listing of the claim disposition.

Table 1: Summary location data for the Cantung Block prospects.

Prospect	No Claims	Area (ha)	Latitude	Longitude	NTS Map Sheet	Distance to Watson lake (km)
CanEast	40	789	61°55'38.86"N	128°17'11.66"W	105 H/16	209
Elf	63	1307	61°19'38.16"N	127°55'30.19"W	095 E/05	144
Horn	146	3060	61°58'43.50"N	128°51'22.49"W	105 H/15 & 105 I/02	210
	249	5156				

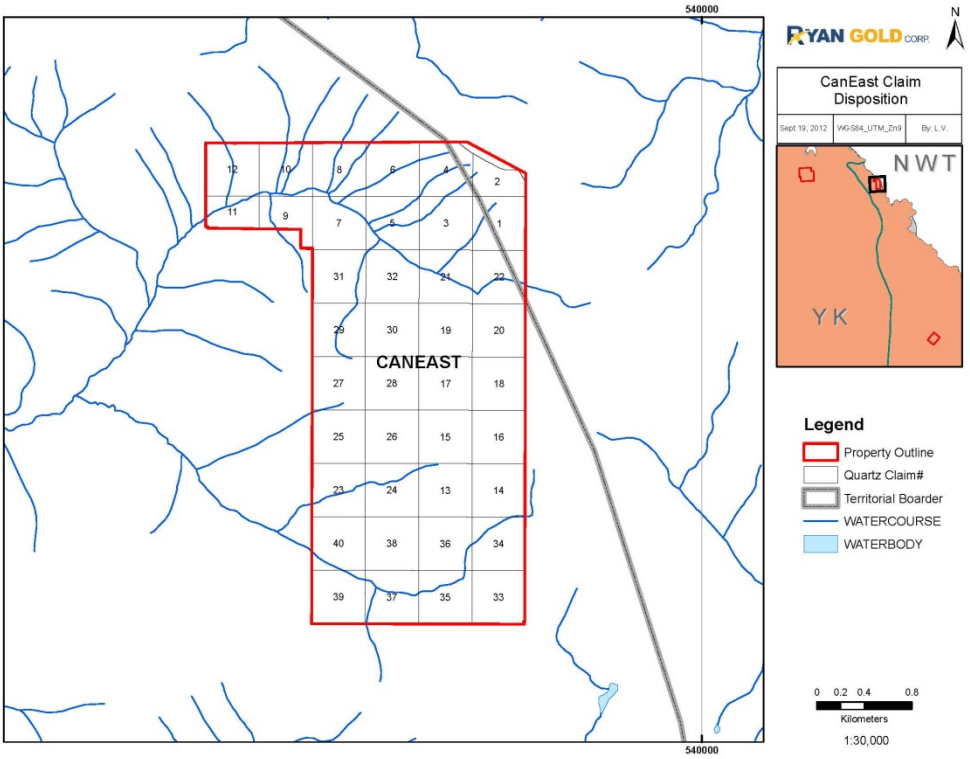


Figure 2: CanEast claim disposition.

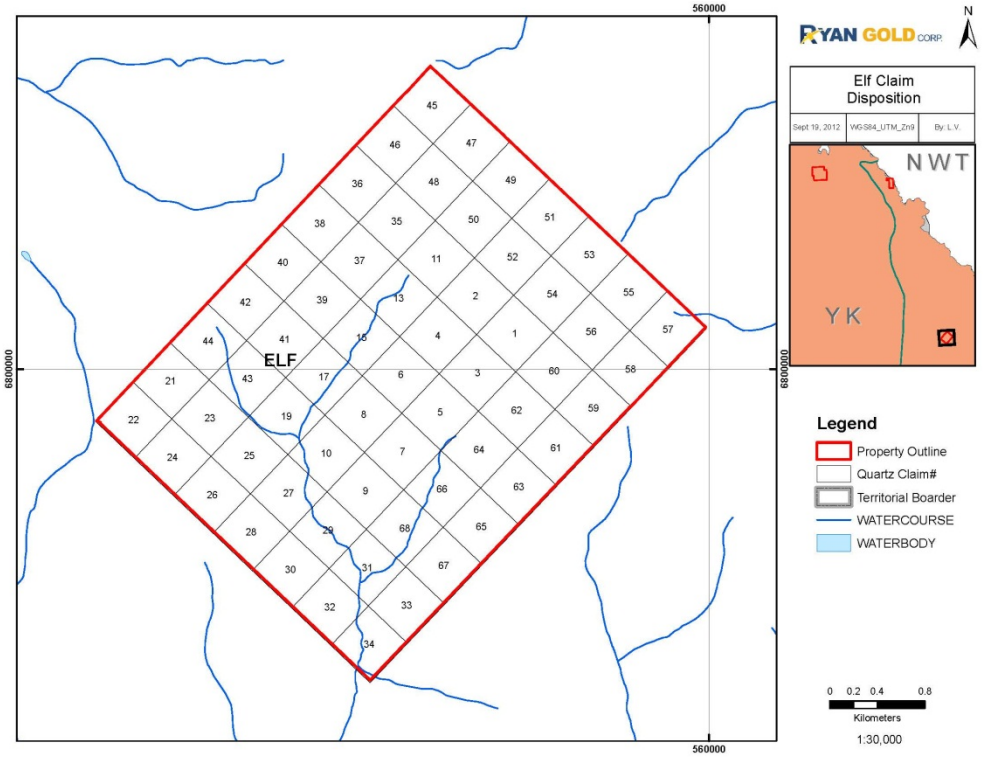


Figure 3: Elf claim disposition.

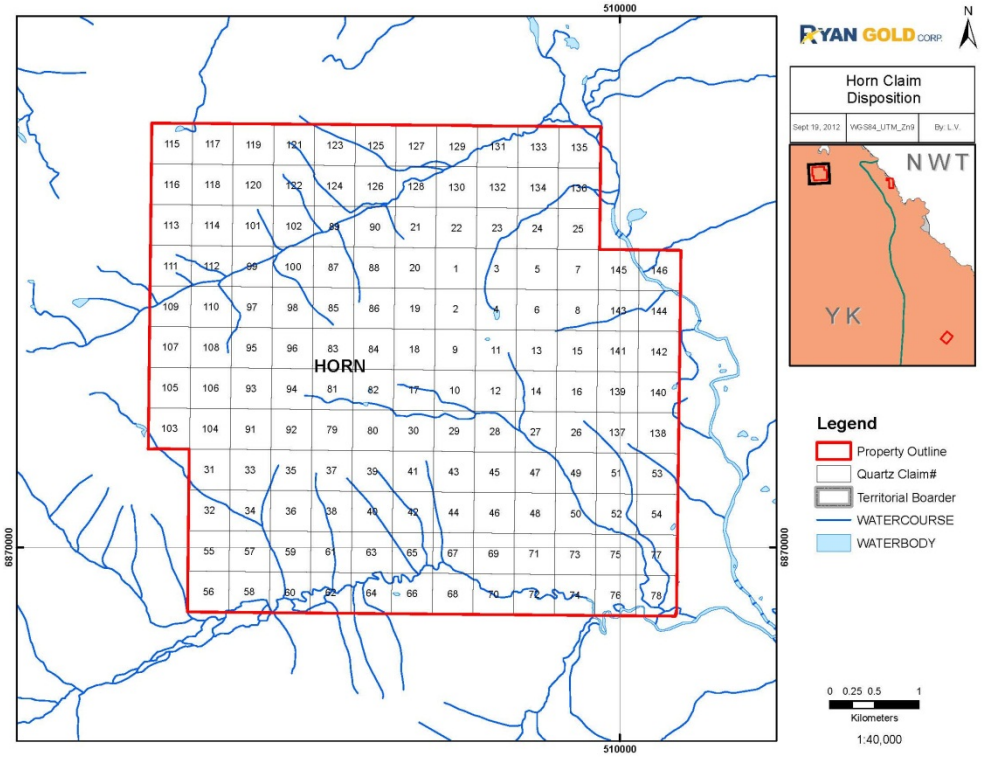


Figure 4: Horn claim disposition.

4.0 Physiography & Climate

The properties of the Cantung Block are located in the Logan Mountains and southern Mackenzie Mountains that span the Yukon-Northwest Territories border. Local terrain is characterized by steep mountains and narrow valley bottoms, where elevations vary from ≈800m ASL to >2,200m ASL. Creeks and Streams on the properties drain into the Hyland River, which ultimately drains into the Liard and Mackenzie Rivers.

The area is characterized by alpine tundra at upper elevations and by subalpine open woodland vegetation at lower elevations. Alpine vegetation consists of crustose lichens, mountain avens, dwarf willow, and ericaceous shrubs; sedge and cottongrass are associated with wetter sites. Barren talus slopes are common. Subalpine vegetation consists of discontinuous open stands of stunted white spruce, and occasional alpine fir and lodgepole pine, in a matrix of willow, dwarf birch, and northern Labrador tea with a ground cover of moss and lichen (after Fitzpatrick 2011).

Climatic conditions vary strongly with elevation. The mean annual temperature for major valley systems is approximately -4.5°C, with a summer mean of 9.5°C and a winter mean of -19.5°C. Mean annual precipitation is highly variable, ranging from 600 mm at lower elevation on the perimeter of the Selwyn Mountains region up to 750 mm at high elevation. Locally in the cantung area, severe winter conditions prevail from October to May with temperatures as low as -40°C and substantial snowfall. Total annual precipitation locally is 650 mm, half as rain and half as snow, with an average 1.27m snow accumulation in the valley (after Fitzpatrick 2011).

The Horn claims in particular are situated in an area of moderate to rugged topographic relief with elevations ranging from 1600m to 2200m. Vegetation on the property is variable consisting of conifer trees, willows and alders in the valleys and minor scrub brush, abundant mosses, lichens and grasses on the hill tops. Outcrop is best observed on the hilltops, the steeper slopes, and in creeks that radially drain the property (Buchanan 2000b). The cirque that occupies the central portion of that claim block presents excellent and extensive out cropping rocks that have been scoured clean by recent glaciation.

5.0 Exploration History

1998: The Hudson Bay Exploration & Development Co. Ltd claimed the Elf and Horn property blocks in 1998 in response to favorable results of a Regional Stream and Water Geochemical survey undertaken by the Geological Survey of Canada.

1999: A geochemical survey was conducted on the Elf claims. As a result of the survey a total of 253 geochemical soil/talus fine samples were collected from flagged grid and traverse lines. Results of the geochemical survey outlined a 1200m x 400m multi-element soil anomaly (Buchanan 1999a), with peak values of 676.7 ppb Au, 639.3 As, and 323.4 Bi. These form the focus of the 2012 investigations.

1999: Similarly a geochemical survey was conducted on the Horn claims. As a result of the survey a total of 217 geochemical soil/silt fine samples were collected from flagged grid and traverse lines. Results of the geochemical survey outlined two areas with elevated gold, arsenic and other elements in the soil. (Buchanan 1999b).

2011: Reconnaissance mapping and sampling of the Horn prospect was conducted by Ryan gold staff, no significant results were obtained from the brief field program.

There is no recorded exploration history for the CanEast, despite the property abutting the CanTung mine.

6.0 Geology

6.1 Regional Geology

The Cantung Properties lay within the Selwyn Basin in eastern Yukon, described by Abbott et al (1986) as comprised of Upper Proterozoic to Tertiary clastic, carbonate, volcanic, ultrabasic and granitic rocks. The sedimentary basin was active from the late Proterozoic to the Middle Jurassic time. Sedimentation ceased in the Middle Jurassic in the outer miogeocline with the collision of a Mesozoic island-arc, the Yukon-Tanana terrane. The Teslin fault or suture is believed to define the boundary between the North American miogeocline and the Yukon-Tanana terrane. The collision spread eastward with the miogeocline being over thrust by oceanic rocks and the entire package being deformed.

The Selwyn Fold Belt consists of a series of northwest-trending and -plunging, northeast-verging folds with strike lengths of 30 to 40 kilometres and amplitudes of one to two kilometres. All three of the Cantung properties are underlain by a key component of this fold belt, the Neoproterozoic to Lower Cambrian Hyland Group meta-sedimentary rocks. The Hyland Group consists of greater than 3000 meter thickness of siliciclastic and bioclastic, platformal and continental margin sedimentary rocks. The upper section of the Hyland Group (the Narchilla, Formation) consists largely of shale (phyllites) and slates with lesser carbonates. The lower section is comprised the Yusezyu Formation and consists of quartzite, quartz grit, and quartz pebble conglomerate units interbedded with lower greenschist metamorphosed phyllites. Limestone beds are also present in the section.

Cross-cutting the Hyland Group meta-sedimentary rocks are Cretaceous intrusions of the Tay River and Tungsten Plutonic Suite. These intrusive suites are two of a series of similarly-aged, metallogenically-linked, lithophile-enriched intrusive suites that stretch in a broad arc from southeastern Yukon to southwest Alaska. This arc, informally named the Tintina Gold Belt, is host to Au deposits at Donlin Creek, Fort Knox, Pogo, Dublin Gulch and Brewery Creek. The Cantung and Mactung W-skarn deposits are directly related to Tungsten Suite Cretaceous intrusions in the southeast Yukon. Heffernan and Mortensen (2000) have established U-Pb ages of 98-96 Ma for Tay River Suite intrusions and 97-92 Ma for Tungsten Suite intrusions. In southeast Yukon, the Tungsten and Tay River Plutonic Suites are associated with W-Mo-Cu and W-Mo-Cu-Pb-Zn metallogenic trends.

Faults are of diverse orientation, although north- to northeast- and northwest trending faults with steep dips are prevalent. Several roughly north-south structures are evident in the drainage patterns and apparent left-lateral offset can be deduced from the magnetic maps. The Hyland and Little Hyland Rivers occupy large, linear, northwest trending valleys which may represent major strike slip or thrust faults.

6.2 Property Geology

6.2.1 CanEast & Elf prospect geology.

The area of the CanEast claim examined consists of a very fine grain, siliceous phyllitic mudstone. The mudstone is highly micaceous and has a distinct wave pattern in foliation. preferred location of mineralization are observed as intercalated, variably siliceous beds with disseminated pyrite (<1%). Beds strike approximately 130 degrees and dipping between 56 and 90 degrees. The background phyllite is not mineralized extensively but does contain quartz veining with minor boxwork which cross cuts the bedding. There are numerous metamorphic sweat veins parallel to the bedding which is occasionally extensive, but consistently un-mineralized. The phyllite is cross cut by several felsic quartz porphyry dykes in several places which oxidizes the iron within the phyllite forming a gossan containing 1-3% pyrite-arsenopyrite mineralization. The paragenesis between the felsic porphyry dykes and the cross cutting quartz veins is not known. Mineralization is prominent near oxidized regions adjacent to quartz porphyry dykes, near quartz veins which cross cut the bedding and some veins which are parallel to bedding. The jointing trends north-south and post-dates all mineralization.

The Elf claim is composed dominantly of an intercalated metamorphosed sedimentary package of sandstone and siltstone. Quartz veining is dominantly parallel to bedding with <1% pyrite and boxwork along the vein selvage. Occasionally veining can be observed cross-cutting bedding along joint sets within the meta-sedimentary package.

6.2.2 Horn prospect geology.

The Horn property lies within the Selwyn Basin in eastern Yukon, described by Abbott et al (1986) as comprised of Upper Proterozoic to Tertiary clastic, carbonate, volcanic, and granitic rocks. The Hyland Group, a Neoproterozoic to lower Cambrian assemblage of the Selwyn Basin, consists of greater than 3000 meters thickness of siliciclastic and bioclastic, platformal and continental margin sedimentary rocks. The upper section of the Hyland Group (the Narchilla Formation) consists largely of shale (phyllites) and slates with lesser carbonates.

The dominant assemblage at Horn is an intercalated meta-sedimentary package consisting of polydeformed phyllites, sandstones, quartzites and siltstones. The primary meta-sedimentary rock observed is a variably hornfelsed, fine grained, grey-green phyllite with an overlying quartzite cap rock. Generally the phyllite has less than one percent pyrite but can have between 3-5% pyrite-arsenopyrite along the bedding panes with quartzites and sandstones.

There are numerous quartz veins which vary from parallel to subparallel to the metamorphic fabric to cross cutting the all rocks at varying angles. The quartz veining stockwork is folded, appears aplitic in texture and varies from a few centimeters to 10m wide. The largest veins are concentrated within the fold hinges. Polyphase mineralization is observed as a cross cutting stockwork of druzy pyrite±arsenopyrite veins with vugs and associated boxwork along the vein margin.

The meta-sedimentary package trends approximately 305 and dips 40-70 degrees, with tight southeast verging folds and < 0.5% disseminated pyrite. A quartzite unit overlies the polydeformed meta-sedimentary package and is then folded as evidenced by the numerous folded quartz vein sets cross cutting the meta-sedimentary package with jointing sets parallel to the axial plane of the folds. The Horn property displays characteristic sheath fold to refolded fold structure, there are also multiple cross cutting brittle faults, the greater horn cirque area resembles the morphology of a saddle reef environment.

7.0 Exploration Program 2012

The focus of 2012 explorations at the Cantung property block was to follow up via reconnaissance style prospecting, and geological mapping and sampling on previously identified anomalous soil geochemistry.

Work on the Cantung Property block in 2012 comprised field work which lasted 12 days from the 18th of August until the 29th of August, where time on the property block was divided between the aforementioned areas of interest.

Due to the nature of the reconnaissance mapping and sampling program via helicopter, there was little to no disturbance of the project areas. A temporary fly camp was constructed along the Nahani Range Rd in accordance with the issued Class 1 permit, and all site operations were based out of the fly camp.

Reconnaissance mapping and sampling of the various prospects comprised data collection via a hand held Pidion device loaded with GeoInfoMobile for data collection, conventional geochemical sample data was collected for rock chip and grab samples, and entered to the device at the sample location; while conventional mapping techniques were employed in an attempt to better constrain local prospect geology at each of the three foci for exploration.

Soil sampling was conducted on parts of the Horn and CanEast prospects, these soil surveys were overseen by Ground Truth Exploration Inc. (GT), with one three person field crew. Concurrent with reconnaissance mapping etc, 423 soils were collected in kraft bags at 50 m intervals (see Table 2 for details). To ensure that samples were taken from the 'C' soil horizon, soils were collected from holes drilled with hand augers to depths of ≈40-70 cm. Photographs and details of each sample location are recorded in GT's company database. For highlights of Au in soil results, the reader is referred to geological maps presented in Appendix E and F, and the summary of results discussed in the section below.

Table 2: Summary break down of samples collected.

Prospect	No of Geochem Samples	No of Geological Observations	No of Soil Samples
CanEast	62	170	215
Elf	27	76	0
Horn	113	511	208
Total	**202**	**751**	**423**

As part of the exploration program in the Cantung area airborne geophysical surveys of the three properties were conducted by Precision Geophysics Inc. Radiometric data were collected simultaneously along with the acquisition of magnetic data, a total of 572 line kilometers were flown across the three prospects between 12th and 16th of August. The details of these surveys are summarized in table 3 below. The reader is referred to appendix G for report details of the geophysical surveys.

Table 3: Cantung properties geophysical survey acquisition specifications.

Survey Bolck	Line Spacing (m)	Planned Survey Line km	Planned Tie Line km	Total Planned Line km	Total Actual Flown km	Survey Line Orientation	Normal Survey Height (m)
CanEast	100	79	9	88	88	000°/180°	35
Elf	100	131	14	145	146	000°/180°	35
Horn	100	307	28	335	338	000°/180°	35
Total				568	572		

8.0 Sampling Procedures

8.1 Rock chip sample collection and Geochemical Analytical Procedures

Selective samples were taken from rock outcrop across all the properties assessed; sampling followed a methodical set of procedures from initial sample collection to final database recording. Samples were typically chipped away from outcrop showings, using a standard Estwing rock hammer, into polyurethane bags and recorded digitally using a Pidion/IPAQ handheld PDA device utilizing GeoInfoMobile software. Before sealing the bag with a cable tie, an ALS Chemex supplied sample tag was placed inside the bag and then another sample tag was wrapped inside the `snout` of the bag before being folded over on itself and sealed, the sample number was also marked on the bag using a permanent felt. Sample numbers and descriptions were uploaded to a database on a daily basis and the samples were securely stored until a batch shipment was prepared. The on-site project geologist was responsible for creating the chain of custody and shipment forms. Samples were placed in a sample string with a systematic pattern of standards and blanks to ensure QA/QC, grouped in rice bags and secured with security tags. The batch shipments would be transported via expeditor or Ryan Gold personnel to ALS Chemex in Whitehorse, where the samples were prepped and shipped to their Vancouver lab for assaying and QA/QC checks. Throughout the shipment process, a chain of custody paperwork trail was maintained to ensure sample security.

Once in at the ALS Lab in Whitehorse the samples are received, weighed and logged. Samples are then crushed until 80% or better passes through a 2 mm mesh screen. This resulting material is put through a riffle splitter, where a 1000 g sample is isolated and the rest is collected as reject. The sample is pulverized further until 85% or better passes through a 75 micron mesh screen. After this step the pulp material is shipped to the North Vancouver lab for analysis. The remaining reject material is stored in Whitehorse.

The material that is shipped to the North Vancouver lab is split using a riffle splitter where a 50 g sample is isolated. The reject material from this process is stored at the lab. This 50 g sample is now subjected to ICP22 and ME-MS41 assaying methods. The ICP22 is a fire assay and ICP-AES method to assay for gold, and can detect values between 0.01 ppm and 10 ppm. ME-MS41 is a 51 element analysis by aqua regia digestion and a combination of ICP-MS and ICP-AES assaying. Assays for Au, Ag, Cu, Pb, As, Zn and Sb that are above detection are then finished using a gravity method to obtain true value. Final results using the methods above are reported to Ryan Gold electronically, consisting of an excel spreadsheet and a PDF certificate of work.

8.2 Rock chip sample collection and Geochemical Analytical Procedures

Soil sampling was conducted by a 3rd party contractor; Groundtruth Exploration. The following text describes the sampling protocol and data handling procedures as well as sample preparation and analysis, and is sourced directly from GroundTruth Exploration reports unedited:

8.2.1 Sampling Protocol and Data Handling Procedures

All sampling traverses are pre-planned, with pre -specified sampling intervals, typically 50m. Field technicians navigate to sample site using handheld GPS units. The soil sampler arrives at each sample site, identifies the most appropriate location to collect the sample and lays out a sheet of plastic (12”x20” ore bag). The soil sample is taken using an Eijklcamp brand hand auger at a depth of between 20cm and 110cm. Samplers strive to consistently collect C-Horizon sample material. Where necessary (rocky or frozen ground) a prospector's pick ('mattock') is used to obtain the sample. The soil is laid out on the sheet of plastic in the order it was recovered from the sample hole. Standardized photos are taken of the sample site- across slope, 5m from sample hole with auger inserted. With the necessary amount of soil (400-500 grams) has been collected, the deepest soil is taken and placed in a bag labeled

with the 3-letter project and tagged with a unique barcode ID tag containing a unique 7 digit sample identification number. An aluminum metal tag inscribed with the sample identification number is attached to a rock or branch in a visible area at the sample site along with a length of pink flagging tape.

A field duplicate sample is taken once for every 25 samples. Both samples are given unique Sample identification number. The data for both samples is recorded and a note is made indicating the duplicate and its corresponding sample identification number.

A weather-proof handheld device equipped with a barcode scanner is used in the field to record the descriptive attributes of the sample collected. This includes: sample identification number (scanned into device at sample site), soil colour, soil horizon, slope, sample depth, ground and tree vegetation and sample quality and any other relevant information. As well, the GPS coordinates are entered into the handheld device as a secondary backup in case of GPS failure.

Each night in the field, the GPS and Palm PDA devices are downloaded to a laptop computer. The data is verified and mapped on a sampler-by-sampler basis in proprietary database auditing and mapping software. At the end of each day, the crew boss inspects all samples for size and consistency as a quality check. Each sampler then repackages all samples for shipping- barcode scanning them as they are placed into a rice bag which is sealed with a barcoded security zip tie. Samples are shipped from the field to the lab on a daily basis, tracked by the unique ID on each security seal.

8.2.2 Sample Preparation and Analysis

Samples were processed by Acme Labs in Vancouver with Aqua Regia digestion and analyzed with ICP-MS for 36 elements (Acme Labs 1DX-15 gram). Samples are dried at 60°C, sieved at -80 mesh.

9.0 Exploration Results 2012

The 2012 exploration program results for the Cantung area are summarized in narrative with brief geological context described; the reader is referred to Appendix E for details on sample location data from rock chip sampling, soil sampling and geological observations. Appendix D describes the laboratory certificates from the Soil and Rock chip sampling. Appendix F contains all the map figures with corresponding rock geochemistry sample locations, and sampling locations showing anomalous gold geochemistry, and also illustrates geological observation locations and structural data. Appendix G contains detailed descriptions of the airborne geophysical surveys conducted by Precision Geophysics Inc.

9.1 CanEast prospect Exploration Results.

A total of 13.1km of reconnaissance mapping and prospecting traverses were made at the CanEast prospect. Dominantly the geology consisted of lower greenschist facies metamorphosed phyllites of the Hyland group, foliation was predominantly steeply northwest dipping overprinting a southwest dipping primary bedding fabric. Occasional felsic dyking was observed as well as occasional zones of steeply dipping N-S sheeted veins. Large areas of anatectic (metamorphic sweat) buck quartz were distributed across the property; these were extensively sampled to test for grade.

A total of 62 rock chip samples were collected from the CanEast prospect, none of these samples returned significant grade for any of the major trace element geochemistry. The reader is referred to appendix D for detailed geochemical results.

The airborne radiometrics and magnetics geophysical survey conducted on the property yielded the following image for Total Magnetic Intensity at the CanEast property. The reader is referred to appendix G for complete results of the Geophysical survey.

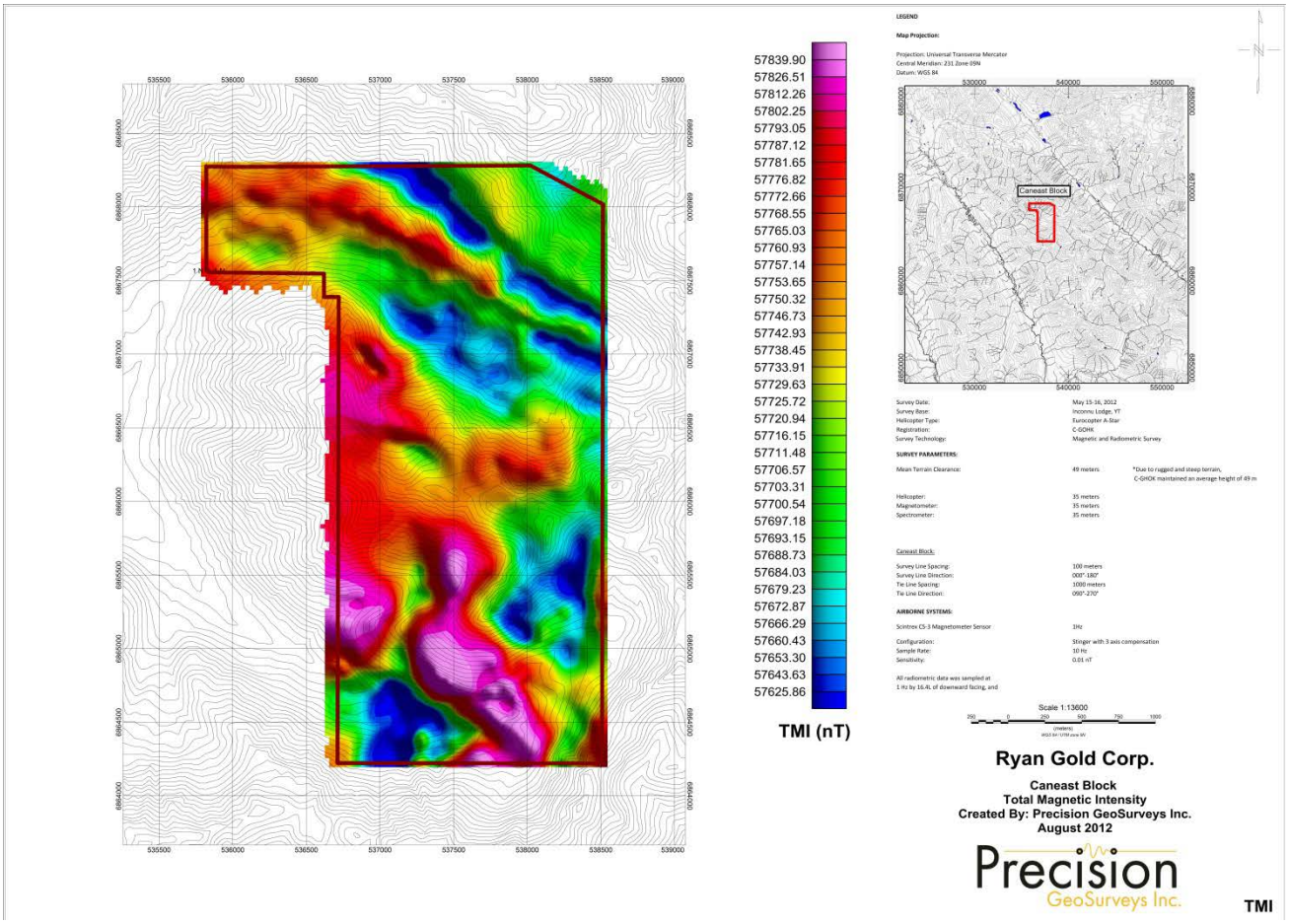


Figure 5: CanEast property Total Magnetic Intensity.

Soil sampling at the CanEast property comprised the collection of 215 samples along ridge lines and break slopes reconnaissance traverses. Occasional anomalous (<100ppb) values for gold were detected; however no significant mineralized trend was detected. The reader is referred to appendix D, E and F for details of the soil sampling survey data.

9.2 Elf prospect Exploration Results.

A total of 3.5km of reconnaissance mapping and prospecting traverses were made at the Elf prospect. Dominantly the geology consisted of lower greenschist facies metamorphosed phyllites of the Hyland group, foliation was predominantly steeply northwest dipping overprinting a southwest dipping primary bedding fabric. Occasional felsic dyking was observed as well as occasional zones of steeply dipping N-S sheeted veins. Large patches of anatectic (metamorphic sweat), and buck quartz are widespread across the property; these were extensively sampled to test for grade.

A total of 27 rock chip samples were collected from the CanEast prospect, one sample (summarized below in table 4) returned weak gold mineralization from a metamorphic sweat/vein sample. The reader is referred to appendix D, E and F for details of the sampling data.

Table 4: Summarized significant results from rock chip/grab sampling at Elf

Sample ID	Prospect	Z9 Easting	Z9 Northing	Au (Gold) g/t	Ag (Silver) ppm	As (Arsenic) ppm	Cu (Copper) ppm	Mo (Moly) ppm	Ni (Nickel) ppm	Pb (Lead) ppm	Zn (Zinc) ppm
45432	Elf	557380.25	6799536	1.305	0.23	1.7	118	0.5	10.7	3.7	4

The airborne radiometrics and magnetics geophysical survey conducted on the property yielded the following image for Total Magnetic Intensity at the Elf property. The reader is referred to appendix G for complete results of the Geophysical survey.

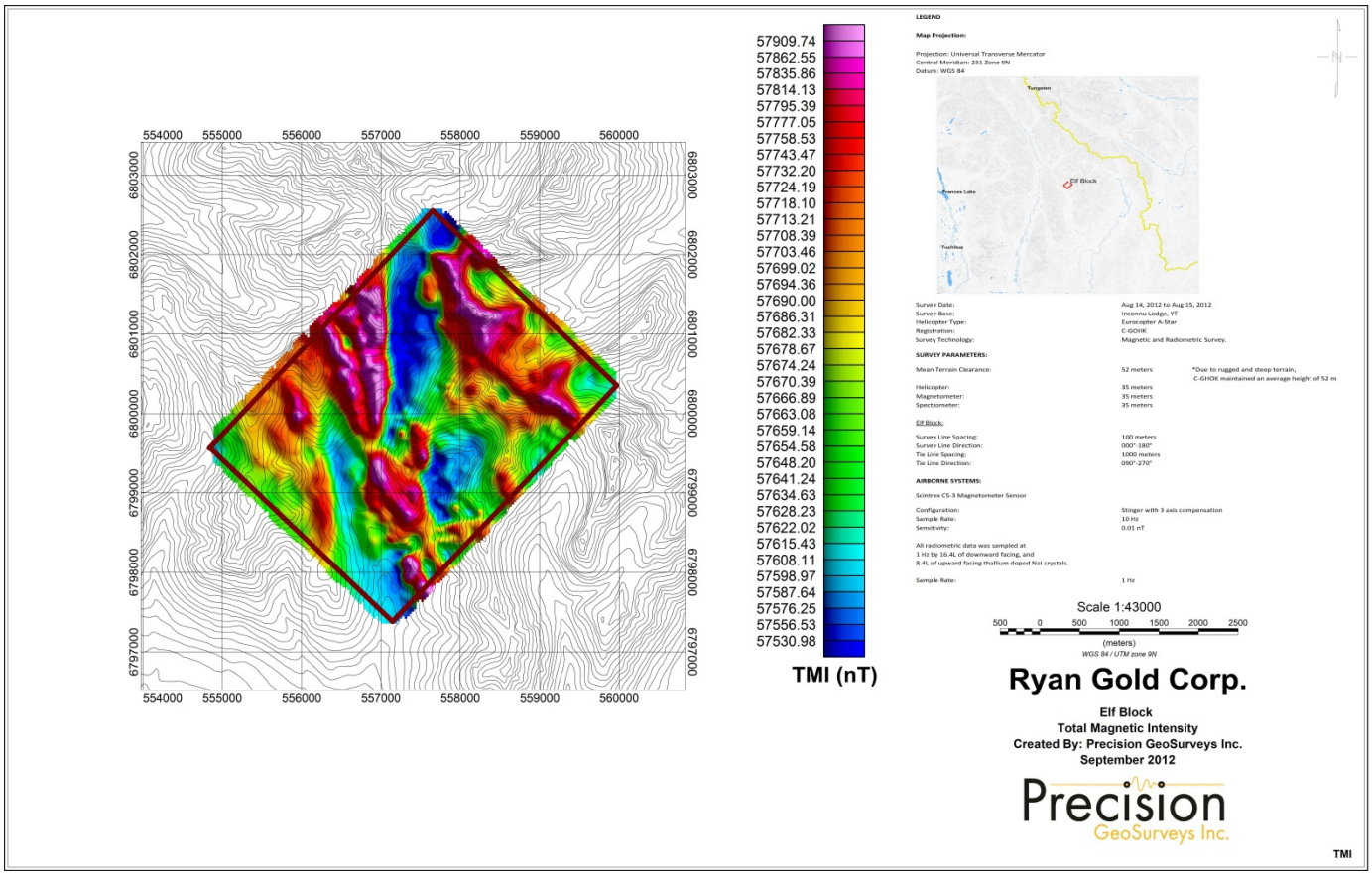


Figure 6: Elf property Total Magnetic Intensity.

9.3 Horn prospect Exploration Result.

A total of 25.9km of reconnaissance mapping and prospecting traverses were made at the Horn prospect. Dominantly the geology consisted of lower greenschist facies metamorphosed phyllites and quartzites of the Hyland group. Thick moderately southwest dipping sequences of resistive quartzites are interbedded with recessive phyllites, and overprinted by a southwest dipping foliation. The entire sequence of meta-sediments is hosted within a refolded, antiform clearly visible on the northeast facing slope on the northern part of the property. Within the hinge zones of the property scale antiform complex are common saddle reef type quartz vein blowouts that commonly outcrop across the property, these are infrequently associated with weak pyritization and arsenian veining which crosscut foliation and dip steeply.

A total of 113 rock chip samples were collected from the Horn prospect. Six samples (summarized below in table 5) returned values for gold >1g/t with a further three samples grading >0.5g/t (not listed below). These samples were dominantly of vein material and comprised brecciated and massive vein quartz with two samples also containing abundant arsenopyrite, as also evident form elevated arsenic values (samples 45444 and 45388). The reader is referred to appendix D for detailed geochemical results.

Table 5: Summarized significant results from rock chip/grab sampling at Horn

Sample ID	Prospect	Z9 Easting	Z9 Northing	Au (Gold) g/t	Ag (Silver) ppm	As (Arsenic) ppm	Cu (Copper) ppm	Mo (Moly) ppm	Ni (Nickel) ppm	Pb (Lead) ppm	Zn (Zinc) ppm
45444	Horn	506908.31	6871086.7	13.5	0.42	13000	3.9	0.31	4.6	27.2	5
42183	Horn	508002.58	6872177.4	2.38	0.45	324	25.7	0.25	27.8	113.5	129
45388	Horn	506688.59	6871650.4	2.23	0.18	21100	3.7	0.45	5	55.7	1
45448	Horn	506981.87	6871080.7	1.96	0.04	4010	2.4	0.16	2.2	7.4	5
45441	Horn	506772.82	6871123.6	1.85	0.07	1790	4.6	0.16	3.9	6.9	11
45449	Horn	507012.28	6871079	1.305	0.07	5300	16	0.27	13.8	20.2	33

Soil sampling at the Horn property comprised the collection of 208 samples as a southwestward extension of a preexisting 100x50m grid in the central part of the property, on the cirque floor. Sampling defined patchy frequently anomalous (>100ppb) values for gold; however no continuous mineralized trend was detected. The reader is referred to appendix D, E and F for details of the soil sampling survey.

The airborne radiometric and magnetic geophysical survey conducted on the property yielded the following image for Total Magnetic Intensity at the Horn property. The reader is referred to appendix G for complete results of the Geophysical survey.

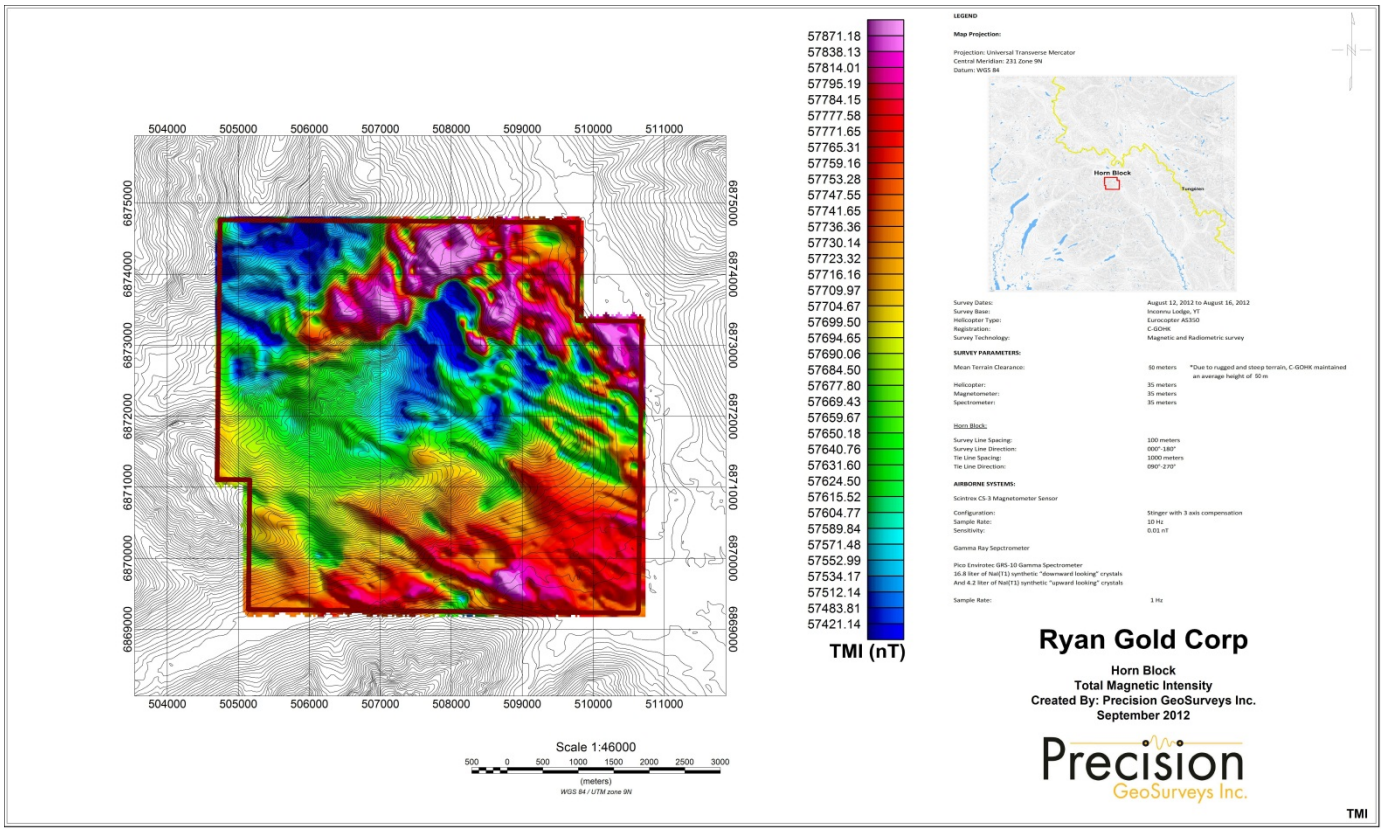


Figure 7: Horn property Total Magnetic Intensity.

10.0 Conclusions and Recommendations

The reconnaissance and prospecting style mapping and sampling of the three prospects during the 2012 exploration program has identified that the Horn prospect retains the highest prospectively of the three prospects examined and therefore holds the most ongoing potential. With the application of diligent and comprehensive explorations into the future, these prospects have a high probability of yielding further exploration success based upon solid scientific investigations, and industry best practice:

Unfortunately both soil and rock chip samples at the CanEast and Elf prospects yielded disappointing results for gold, though one sample from Elf warrants follow up to better understand the prospectively of the project. CanEast should be dropped. Three widespread, and strong anomalies were returned from rock samples at the Horn prospect, these exist within massive sacarodial quartz, and minor arsenian veins warrant further detailed investigations; these are by all means green fields stage projects.

10.1 Recommendations for the Horn prospect

- Detailed ≤1:5,000 scale mapping of the areas of interest identified within the 2012 exploration program. This should include defining the spatial distribution of key stratigraphic components, strong focus should be on examining the common structural kinematic indicators so as to better constrain any structural controls on mineralization, and comprehensively determine a saddle reef style mineralization trend.
- A comprehensive sampling program of rock chip, grab and float samples should be conducted, focus should be on the collection of samples from quartz rich areas, and late stage hydrothermal veining, so as to determine the nature of mineralization as well as any structural and lithological controls.

11.0 References

Abbott J.G., Gordey S.P., Tempelman-Kluit D.J., 1986. Setting of strati-form, sediment -hosted lead - zinc deposits in Yukon and Northeastern British Columbia; *in* Mineral Deposits of Northern Cordillera, ed. J.A. Morn, The Canadian Institute of Mining and Metallurgy, Special volume 37, p.1-18.

Archibald et al, 1982. Union Carbide Exploration Corporation, Hyland River Area, Yukon. 091014

Armitage et al, 2012. Argus Metals Corp. Hyland Gold Property in the Yukon Territory, Canada. NI-43 101

Buchanan, 2000a. Hudson Bay Exploration And Development Co. Ltd., Hyland River Area, Yukon (Elf). 094115

Buchanan, 2000b. Hudson Bay Exploration And Development Co. Ltd., Hyland River Area, Yukon (Horn). 094116

Chakungal, 2011. Ryan Gold Corp. Horn Assessment Report

DIAND, 1993. Yukon Minfile, WP 5.1 Version, 15 Feb/93; Exploration and Geological Services, Department of Indian and Northern Affairs, Whitehorse Yukon.

Doherty, 1994. Consolidated Ramrod Gold Corporation, Little Hyland River Area, Yukon. 093175

Fitzpatrick et al, 2011. North American Tungsten corp. Tech-Report-CanTung-Mine. NI-43 101

Gordey, S.P., and Makepeace, A.J., 1999. Yukon digital geology, S.P. Gordey and A.J. Makepeace (comp.); Geological Survey of Canada, Open File D3826, and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, Open File 1999-1 (D)

Harris, 2000. Athlone Minerals Limited, Hyland River Area, Yukon. 094146

Heffernan, S. and Mortensen, J.K., 2000. Age, geochemical and metallogenic investigations of Cretaceous intrusions in southeastern Yukon and southwestern NWT: A preliminary report. In: Yukon Exploration and Geology 1999, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 145-149.

C.J.R. Hart and R.J. Goldfarb, 2005. Distinguishing intrusion-related from orogenic gold systems.

Hart, C.J.R. and Lewis, L.L., 2006. Gold mineralization in the upper Hyland River area: A non-magmatic origin. *In:* Yukon Exploration and Geology 2005, D.S. Emond, G.D. Bradshaw, L.L. Lewis and L.H. Weston (eds.), Yukon Geological Survey, p. 109-125.

Hulstein, 1992. Kokanee Exploration Limited, Little Hyland River Area, Yukon. 093057

Jones, 1997. Westmin Resources Limited, Hyland River Area, Yukon. 093628

Jones, 1999. Rimfire Minerals Corporation, Hyland River Area, Yukon. 093982

Ouellette, 1990.Yukon Exploration, Exploration and Geological services Division. Department of Indian and Northern Affairs, Whitehorse Yukon.

Roots, E.F., Green, L.H., Roddick, J,A., Blusson, S.L., 1966. Frances Lake, Yukon Territory and District of MacKenzie, 105 H; Geological Survey of Canada, Map 6-1966

Ryan, 2006. Cantung Regional YMIP assessment report.

Tempelman-Kluit D.J., 1979. Transported Cataclasite, Ophiolite and Granodiorite in Yukon: Evidence of Arc-Continent Collision; Geological Survey of Canada, Paper 79-14.

Tempelman-Kluit D.J., 1981. Geology and Mineral Deposits of Southern Yukon: *in* Yukon Geology and Exploration 1979-80; Geology Section, Department of Indian and Northern Affairs, Whitehorse Yukon.

Appendix A - Statement of Qualifications

Luke, Pieter Adriaan. van der Meer, BSc, PGeo.
222-991 Hornby Street
Vancouver, B.C. V6Z1V3

Certificate of Author

1. I, Luke P, A. van der Meer, P. Geo., am a Professional Geoscientist, employed by Ryan Gold Corp. at Suite 600 – 666 Burrard St. Vancouver, BC. V6C 2X8
2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
3. I am a graduate of the University of Otago, New Zealand with a B.Sc. (2001) in geology and geography.
4. I have practiced my profession continuously since graduation in 2001, and have been involved in mineral exploration in Canada, Australia, New Zealand, and Mongolia.
5. As a result of my experience and qualification, I am a qualified person as defined in N.I. 43-101.
6. The foregoing report is based on:
    a. A study of available data and company reports.
    b. My personal knowledge of the geology of the property gained through my activities as an on-site geologist during 2012.

Dated at Vancouver this day the Thursday, October 18, 2012.

Luke P,A van der Meer, BSc, PGeo.

Appendix B - Statement of Expenditures

CERTIFICATE OF WORK

Schedule C - SOIL SAMPLING PROGRAM
CANEAST Claims

SOIL SAMPLING PROGRAM:

a total of 9 man days were required for Ground Truth crews to collect 203 soils samples on the CANEAST property on August 20+21, 2012

Description		Rate	Unit	Total
WAGES:				
Soil Samplers	per day	$ 350.00	4	$ 1,400.00
Project Forman	per day	$ 400.00	2	$ 800.00
Soil Samplers	per day	$ 250.00	3	$ 750.00
Travel rate: Soil Sampler	per day	$ 250.00	3	$ 750.00
DATA MANAGEMENT & PROCESSING SERVICES:				
GIS/Job Layout/Mapping/Results Plotting	per hour	$ 75.00	0.5	$ 37.50
Data Processing: In the field	per hour	$ 60.00	1	$ 60.00
Database Management/Chain of Custody, Barcoded Samples	$0.50/sample	$ 0.50	203	$ 101.50
Georeferenced In situ Sample & Sample Site Photos	per sample	$ 1.00	203	$ 203.00
QA/QC Standard & Blank Material & Standardized Insertion	per sample	$ 0.20	203	$ 40.60
CONSUMABLE SAMPLING SUPPLIES:				
Flagging, Metal ID Tags, Sample Bags, Ore Bags, Rice Bags, etc.	per sample	$ 1.00	203	$ 203.00
EQUIPMENT RENTAL (per unit, per day):				
Truck Rental: Fuel Extra	per day	$ 150.00	4	$ 600.00
Fuel	per km	$ 0.40	600	$ 240.00
Flat Deck Trailer: 10,000 lbs., 20 ft.	per day	$ 100.00	0	$ -
Chainsaw drop kit: 1 per helicopter load, or as required	per day	$ 35.00	2	$ 70.00
Iridium Satellite Phone: 1 per crew, charge 10 min/day	per day&min	$ 35.00	2	$ 70.00
Radio: ICOM Handheld: 1 per person	per day	$ 5.00	6	$ 30.00
Computer/Software: 1 per camp nightly data download	per day	$ 50.00	2	$ 100.00
Handheld GPS/Barcode Scanner/Camera/Data Recorder	per day	$ 15.00	6	$ 90.00
Camp Satellite Internet	per day	$ 20.00	0	$ -
ACCOMODATION and FOOD:				
Remote Camp Fee: full fly camp/kitchen/generator (10 men)	per man day	$ 35.00	9	$ 315.00
Dawson Accomodation Fee: Samplers based in Dawson	per man day	$ 35.00	0	$ -
Food	per man day	$ 50.00	9	$ 450.00
EXPEDITING:				$ 80.00
AIR SUPPORT:				
Trans North Helicopter, Whitehorse, YT-1.3 hrs + FUEL	**per hour+FUEL**	$ 990.00	1.3	$ 1,594.80
ANALYTICAL ANALYSIS COSTS:				
Acme Laboratories, Vancouver, B.C./SOILS	per sample	$ 21.00	203	$ 4,263.00
REPORT WRITING:				$ 1,100.00
			SOIL SAMPLING PROGRAM =	**$ 13,348.40**
	$13,348.40	**DIVIDED BY 203 SAMPLES**	**=**	**$ 65.76**
				COST PER SAMPLE

CERTIFICATE OF WORK

Schedule C - Mapping & Rock Sampling
ELF Claims

MAPPING/ROCK SAMPLING PROGRAM:

a total of 9.5 man days were required to do geological mapping & collect 27 rock samples on the ELF property from August 19 to 22/12

Description		Rate	Unit	Total
WAGES:				
Chief Geologist	per day	$ 675.00	0.5	$ 337.50
Sr. Geologist	per day	$ 550.00	1	$ 550.00
Project Geologist	per day	$ 385.00	1	$ 385.00
Jr. Geologist/Geotech	per day	$ 330.00	1	$ 330.00
Jr. Geologist/Geotech	per day	$ 275.00	6	$ 1,650.00
CONSUMABLE SAMPLING SUPPLIES:				
Flagging, Metal ID Tags, Sample Bags, Ore Bags, Rice Bags, etc.	per sample	$ 1.00	39	$ 39.00
EQUIPMENT RENTAL (per unit, per day):				
Iridium Satellite Phone: 1 per crew, charge 10 min/day	per day&min	$ 35.00	1	$ 35.00
Radio: ICOM Handheld: 1 per person	per day	$ 5.00	9	$ 45.00
Handheld GPS/Camera/Data Recorder	per day	$ 15.00	9	$ 135.00
ACCOMODATION and FOOD:				
Camp Fee	per man day	$ 35.00	9	$ 315.00
Dawson Accomodation Fee: Samplers based in Dawson	per man day	$ 35.00		$ -
Food	per man day	$ 50.00	9	$ 450.00
HELICOPTER SUPPORT:				
Trans North Helicopter, Whitehorse, YK- 4.0 hrs	**per hour+FUEL**	$ 1,575.00	4	$ 3,960.00
ANALYTICAL ANALYSIS COSTS:				
ALS Canada Ltd., North Vancouver, B.C./ROCK	per sample	$ 49.00	27	$ 1,323.00
REPORT WRITING:				$ 800.00
			MAPPING/ROCK SAMPLING PROGRAM =	**$ 10,354.50**

RYAN GOLD CORP.

CERTIFICATE OF WORK

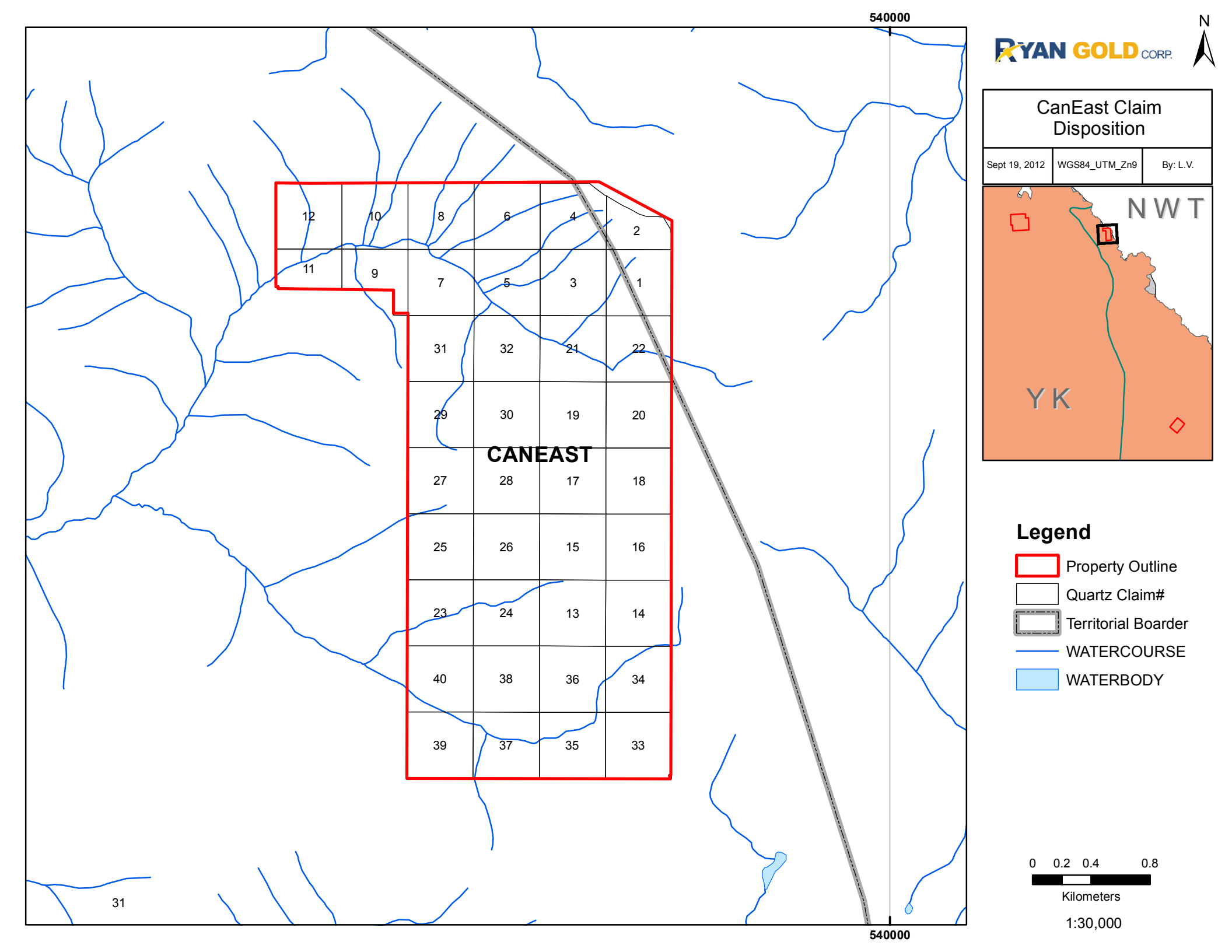
Schedule C - Mapping & Rock Sampling
HORN Claims

MAPPING/ROCK SAMPLING PROGRAM:

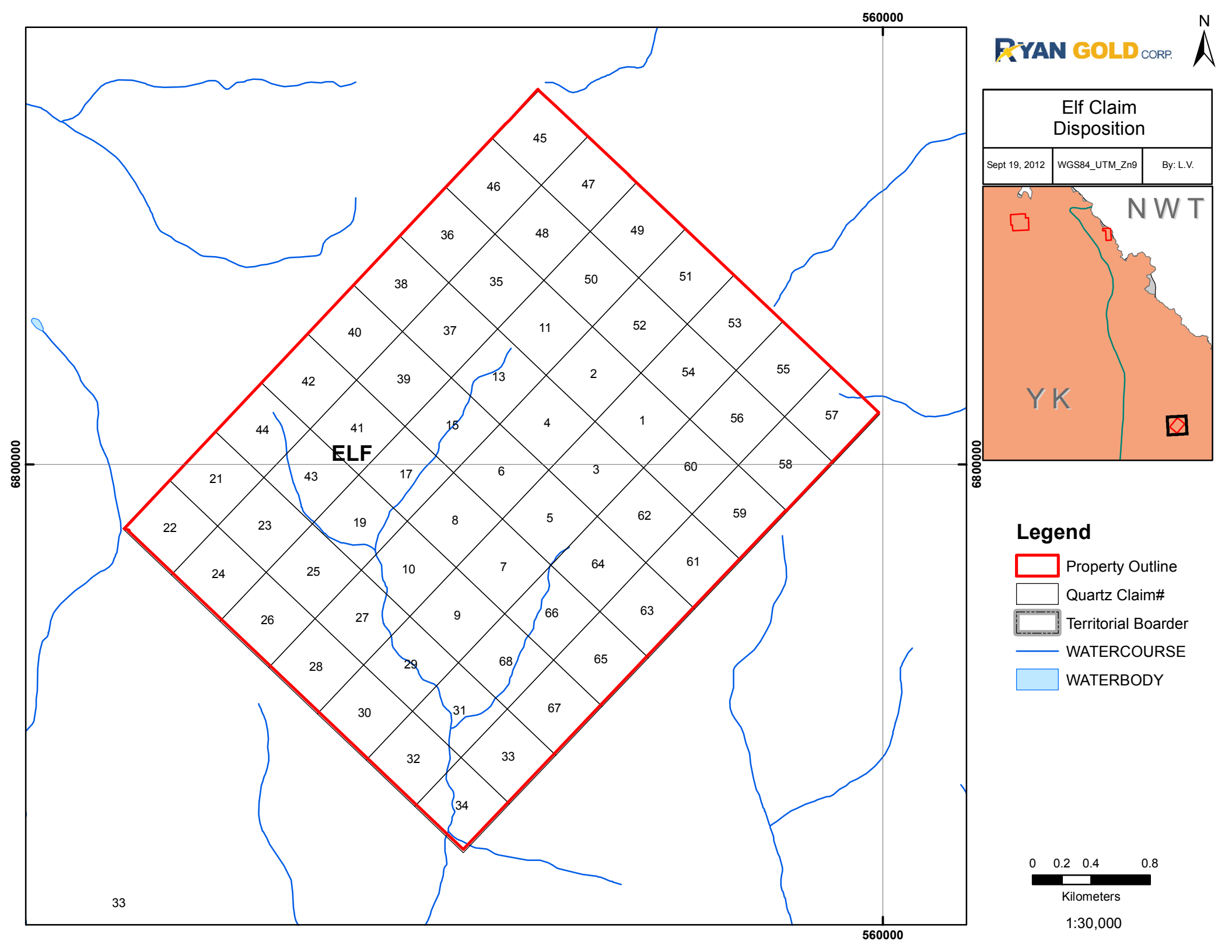
a total of 36 man days were required to do geological mapping & collect 113 rock samples on the HORN claims from August 23 to 28/12

Description		Rate	Unit	Total
WAGES:				
Senior Geologist	per day	$ 550.00	6	$ 3,300.00
Project Geologist	per day	$ 385.00	6	$ 2,310.00
Jr. Geologist/Geotech	per day	$ 330.00	6	$ 1,980.00
Jr. Geologist/Geotech	per day	$ 275.00	18	$ 4,950.00
CONSUMABLE SAMPLING SUPPLIES:				
Flagging, Metal ID Tags, Sample Bags, Ore Bags, Rice Bags, etc.	per sample	$ 1.00	115	$ 115.00
EQUIPMENT RENTAL (per unit, per day):				
Iridium Satellite Phone: 1 per crew, charge 10 min/day	per day&min	$ 35.00	6	$ 210.00
Radio: ICOM Handheld: 1 per person	per day	$ 5.00	36	$ 180.00
Handheld GPS/Camera/Data Recorder	per day	$ 15.00	36	$ 540.00
ACCOMODATION and FOOD:				
Camp	per day	$ 35.00	36	$ 1,260.00
Food	per day	$ 50.00	36	$ 1,800.00
TRANSPORTATION:				
Truck Rental/Driving Force, Whitehorse, YT	per day	$ 185.00	6	$ 1,110.00
HELICOPTER SUPPORT:				
Trans North Helicopter, Whitehorse, YK-$990/hr rate & Fuel	**per hour+FUEL**	$ 990.00	16.1	$ 18,416.79
ANALYTICAL ANALYSIS COSTS:				
ALS Canada Ltd., North Vancouver, B.C./ROCK	per sample	$ 49.00	113	$ 5,537.00
REPORT WRITING:				$ 825.00
			MAPPING/ROCK SAMPLING PROGRAM =	**$ 42,533.79**

Appendix C – Claims Disposition and Maps

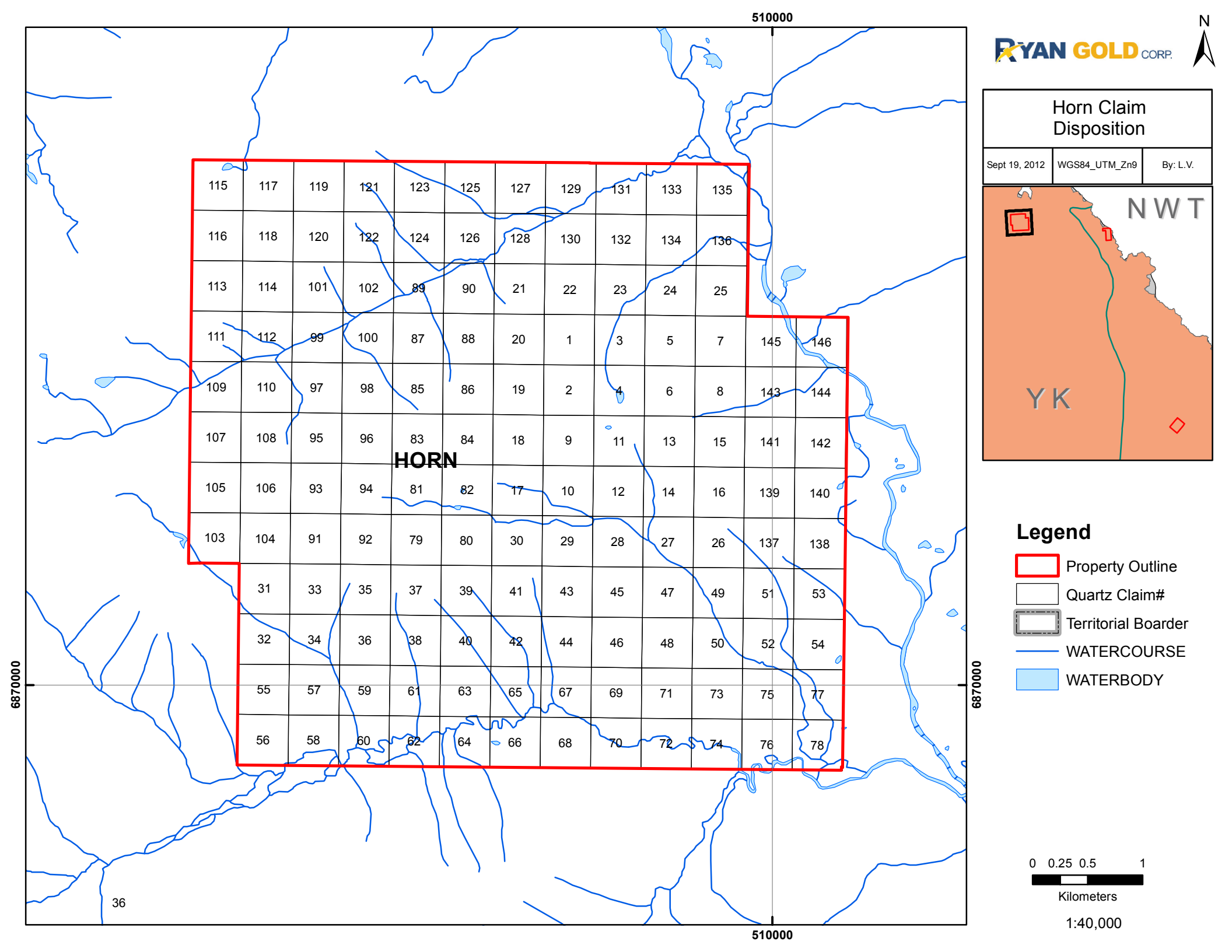

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RYAN GOLD CORP.
CanEast Claim Disposition
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By: L.V.
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Legend
Property Outline
Quartz Claim#
Territorial Boarder
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Kilometers
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District	Grant#	Claim Name	Claim #	Claim Owner	Recording Date	Staking Date	ClaimExpiryDate	Status	NTS Map#
Watson Lake	YD132681	CANEAST	1	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132682	CANEAST	2	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132683	CANEAST	3	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132684	CANEAST	4	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132685	CANEAST	5	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
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Watson Lake	YD132688	CANEAST	8	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132689	CANEAST	9	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
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Watson Lake	YD132692	CANEAST	12	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
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Watson Lake	YD132694	CANEAST	14	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132695	CANEAST	15	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132696	CANEAST	16	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132697	CANEAST	17	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
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Watson Lake	YD132704	CANEAST	24	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132705	CANEAST	25	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132706	CANEAST	26	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132707	CANEAST	27	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
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Watson Lake	YD132709	CANEAST	29	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
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Watson Lake	YD132717	CANEAST	37	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132718	CANEAST	38	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132719	CANEAST	39	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16
Watson Lake	YD132720	CANEAST	40	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	29/11/2010	13-Dec-17	Active	105H16


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6800000
RYAN GOLD CORP.
N
Elf Claim Disposition
Sept 19, 2012
WGS84_UTM_Zn9
By: L.V.
N W T
Y K
Legend
Property Outline
Quartz Claim#
Territorial Boarder
WATERCOURSE
WATERBODY
0 0.2 0.4 0.8
Kilometers
1:30,000

District	Grant#	Claim Name	Claim #	Claim Owner	Recording Date	Staking Date	ClaimExpiryDate	Status	NTS Map#
Watson Lake	YC72419	ELF	1	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72420	ELF	2	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72421	ELF	3	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72422	ELF	4	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72423	ELF	5	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72424	ELF	6	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72425	ELF	7	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72426	ELF	8	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72427	ELF	9	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72428	ELF	10	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72429	ELF	11	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72431	ELF	13	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72433	ELF	15	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72435	ELF	17	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YC72437	ELF	19	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	12/10/2007	28/09/2007	12-Oct-16	Active	9.50E+06
Watson Lake	YD130157	ELF	21	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130158	ELF	22	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130159	ELF	23	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130160	ELF	24	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130161	ELF	25	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130162	ELF	26	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130163	ELF	27	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130164	ELF	28	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130165	ELF	29	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130166	ELF	30	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130167	ELF	31	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130168	ELF	32	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130169	ELF	33	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130170	ELF	34	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130171	ELF	35	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130172	ELF	36	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130173	ELF	37	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130174	ELF	38	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130175	ELF	39	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-16	Active	9.50E+06
Watson Lake	YD130176	ELF	40	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130177	ELF	41	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06

District	Grant#	Claim Name	Claim #	Claim Owner	Recording Date	Staking Date	ClaimExpiryDate	Status	NTS Map#
Watson Lake	YD130178	ELF	42	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130179	ELF	43	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130180	ELF	44	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130181	ELF	45	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130182	ELF	46	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130183	ELF	47	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130184	ELF	48	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130185	ELF	49	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130186	ELF	50	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130187	ELF	51	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130188	ELF	52	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130189	ELF	53	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130190	ELF	54	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130191	ELF	55	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130192	ELF	56	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130193	ELF	57	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130194	ELF	58	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130195	ELF	59	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130196	ELF	60	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130197	ELF	61	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130198	ELF	62	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130199	ELF	63	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130200	ELF	64	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130201	ELF	65	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130202	ELF	66	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130203	ELF	67	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06
Watson Lake	YD130204	ELF	68	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	25/11/2010	03-Dec-15	Active	9.50E+06


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RYAN GOLD CORP.
Horn Claim Disposition
Sept 19, 2012
WGS84_UTM_Zn9
By: L.V.
NWT
YK
HORN
115 117 119 121 123 125 127 129 131 133 135
116 118 120 122 124 126 128 130 132 134 136
113 114 101 102 89 90 21 22 23 24 25
111 112 99 100 87 88 20 1 3 5 7 145 146
109 110 97 98 85 86 19 2 4 6 8 143 144
107 108 95 96 83 84 18 9 11 13 15 141 142
105 106 93 94 81 82 17 10 12 14 16 139 140
103 104 91 92 79 80 30 29 28 27 26 137 138
31 33 35 37 39 41 43 45 47 49 51 53
32 34 36 38 40 42 44 46 48 50 52 54
55 57 59 61 63 65 67 69 71 73 75 77
56 58 60 62 64 66 68 70 72 74 76 78
Legend
Property Outline
Quartz Claim#
Territorial Boarder
WATERCOURSE
WATERBODY
0 0.25 0.5 1
Kilometers
1:40,000
36

District	Grant#	Claim Name	Claim #	Claim Owner	Recording Date	Staking Date	ClaimExpiryDate	Status	NTS Map#
Watson Lake	YC29189	HORN	1	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29190	HORN	2	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29191	HORN	3	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29192	HORN	4	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29193	HORN	5	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29194	HORN	6	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29195	HORN	7	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29196	HORN	8	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29197	HORN	9	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29198	HORN	10	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29199	HORN	11	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29200	HORN	12	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29201	HORN	13	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29202	HORN	14	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29203	HORN	15	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC29204	HORN	16	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	16/08/2005	31/07/2005	03-Dec-17	Active	105H15
Watson Lake	YC31965	HORN	17	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31966	HORN	18	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31967	HORN	19	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31968	HORN	20	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31969	HORN	21	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31970	HORN	22	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31971	HORN	23	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31972	HORN	24	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31973	HORN	25	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31974	HORN	26	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31975	HORN	27	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31976	HORN	28	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31977	HORN	29	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YC31978	HORN	30	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	14/09/2006	28/08/2006	03-Dec-17	Active	105H15
Watson Lake	YD130041	HORN	31	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130042	HORN	32	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130043	HORN	33	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130044	HORN	34	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130045	HORN	35	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130046	HORN	36	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130047	HORN	37	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130048	HORN	38	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15

District	Grant#	Claim Name	Claim #	Claim Owner	Recording Date	Staking Date	ClaimExpiryDate	Status	NTS Map#
Watson Lake	YD130049	HORN	39	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130050	HORN	40	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130051	HORN	41	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130052	HORN	42	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130053	HORN	43	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130054	HORN	44	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130055	HORN	45	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130056	HORN	46	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130057	HORN	47	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130058	HORN	48	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130059	HORN	49	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130060	HORN	50	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130061	HORN	51	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130062	HORN	52	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130063	HORN	53	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130064	HORN	54	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130065	HORN	55	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130066	HORN	56	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130067	HORN	57	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130068	HORN	58	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130069	HORN	59	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130070	HORN	60	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130071	HORN	61	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130072	HORN	62	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130073	HORN	63	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130074	HORN	64	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130075	HORN	65	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130076	HORN	66	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130077	HORN	67	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130078	HORN	68	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130079	HORN	69	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130080	HORN	70	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130081	HORN	71	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130082	HORN	72	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130083	HORN	73	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130084	HORN	74	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130085	HORN	75	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130086	HORN	76	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15

District	Grant#	Claim Name	Claim #	Claim Owner	Recording Date	Staking Date	ClaimExpiryDate	Status	NTS Map#
Watson Lake	YD130087	HORN	77	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130088	HORN	78	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130089	HORN	79	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130090	HORN	80	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130091	HORN	81	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130092	HORN	82	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130093	HORN	83	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130094	HORN	84	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130095	HORN	85	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130096	HORN	86	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130097	HORN	87	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130098	HORN	88	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130099	HORN	89	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130100	HORN	90	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130101	HORN	91	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130102	HORN	92	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130103	HORN	93	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130104	HORN	94	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130105	HORN	95	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130106	HORN	96	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130107	HORN	97	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130108	HORN	98	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130109	HORN	99	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130110	HORN	100	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130111	HORN	101	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130112	HORN	102	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130113	HORN	103	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130114	HORN	104	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130115	HORN	105	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130116	HORN	106	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130117	HORN	107	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130118	HORN	108	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15

District	Grant#	Claim Name	Claim #	Claim Owner	Recording Date	Staking Date	ClaimExpiryDate	Status	NTS Map#
Watson Lake	YD130119	HORN	109	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130120	HORN	110	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130121	HORN	111	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130122	HORN	112	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130123	HORN	113	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130124	HORN	114	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130125	HORN	115	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130126	HORN	116	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130127	HORN	117	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130128	HORN	118	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130129	HORN	119	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130130	HORN	120	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130131	HORN	121	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130132	HORN	122	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130133	HORN	123	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130134	HORN	124	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130135	HORN	125	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130136	HORN	126	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130137	HORN	127	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130138	HORN	128	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130139	HORN	129	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130140	HORN	130	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130141	HORN	131	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130142	HORN	132	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130143	HORN	133	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130144	HORN	134	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130145	HORN	135	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130146	HORN	136	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	13/12/2010	24/11/2010	03-Dec-17	Active	105I02
Watson Lake	YD130147	HORN	137	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130148	HORN	138	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130149	HORN	139	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130150	HORN	140	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130151	HORN	141	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130152	HORN	142	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130153	HORN	143	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130154	HORN	144	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130155	HORN	145	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15
Watson Lake	YD130156	HORN	146	45127 YUKON INC. - 30%, Ryan Gold Corp. - 70%	03/12/2010	23/11/2010	03-Dec-17	Active	105H15

Appendix D – Geochemical Analysis Certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

CERTIFICATE WH12200372

Project: Cantung (CanEast- Elf)

P.O. No.: C12- 001

This report is for 80 Rock samples submitted to our lab in Whitehorse, YT, Canada on 27- AUG- 2012.

The following have access to data associated with this certificate:

ANDY RANDELL	CARRIE WONG	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
BAG- 01	Bulk Master for Storage
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: RYAN GOLD CORP.
ATTN: ANDY RANDELL
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

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.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method	WEI- 21	Au- ICP22	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
45401		2.66	0.001	0.04	0.11	7.2	<0.2	<10	20	0.06	0.11	0.02	0.09	5.59	4.7	13
45402		2.66	<0.001	0.03	0.48	2.5	<0.2	<10	10	0.22	0.08	0.20	0.05	7.42	19.5	16
45403		2.58	0.001	0.03	1.82	4.2	<0.2	<10	20	0.40	0.16	0.01	0.02	49.9	7.4	27
45404		2.38	<0.001	0.08	0.55	91.8	<0.2	<10	30	0.69	0.36	0.05	0.12	50.5	5.6	4
45405		0.74	<0.001	0.01	0.02	<2	<0.2	<10	30	0.05	0.04	20.2	0.06	1.20	0.5	<1
45406		2.24	0.003	0.02	0.46	1.6	<0.2	<10	10	0.18	0.10	0.12	0.03	13.15	19.7	15
45407		2.22	0.004	0.01	2.00	7.8	<0.2	<10	30	0.41	0.30	0.02	0.02	81.8	3.4	29
45408		2.46	0.001	0.01	1.05	2.9	<0.2	<10	10	0.19	0.08	1.43	0.07	32.3	9.3	19
45409		1.92	0.001	<0.01	0.27	1.0	<0.2	<10	<10	<0.05	0.03	0.27	0.01	4.94	5.4	19
45410		0.10	1.280	0.01	1.40	1.0	1.1	<10	60	0.71	0.04	0.62	0.02	21.8	19.8	45
45411		2.48	<0.001	0.03	3.20	7.6	<0.2	<10	140	0.71	0.13	1.75	0.22	55.7	23.5	205
45412		2.48	0.001	0.01	1.71	3.1	<0.2	<10	10	0.11	0.05	0.07	0.01	7.62	3.0	17
45413		2.44	0.001	0.03	2.96	4.9	<0.2	<10	80	0.66	0.11	1.21	0.19	44.7	30.3	245
45414		2.52	0.001	0.05	1.07	2.0	<0.2	<10	20	0.14	0.06	0.29	0.09	26.2	3.4	18
45415		2.22	0.233	0.07	2.10	35.1	<0.2	<10	30	0.47	0.43	0.03	0.01	53.2	11.1	26
45416		2.60	0.001	0.04	2.00	11.4	<0.2	<10	30	0.44	0.37	0.09	0.01	55.4	4.6	26
45417		1.96	0.001	0.03	2.37	4.3	<0.2	<10	30	0.47	0.44	0.03	0.04	65.4	6.1	30
45418		2.46	<0.001	0.08	2.33	2.3	<0.2	<10	40	0.46	0.33	0.87	0.51	38.8	12.3	20
45419		2.24	<0.001	0.02	1.01	4.2	<0.2	<10	10	0.27	0.12	0.30	0.08	20.6	15.0	15
45420		2.66	0.047	0.04	2.24	23.7	<0.2	<10	30	0.64	0.52	<0.01	0.02	93.9	3.9	26
45421		0.12	1.765	0.02	1.39	0.7	1.9	<10	80	0.77	0.03	0.58	0.02	19.90	16.7	47
45422		2.32	0.002	0.03	1.78	6.4	<0.2	<10	30	0.39	0.39	0.01	0.01	67.8	4.0	25
45423		2.12	0.002	0.08	1.80	7.7	<0.2	<10	30	0.38	0.61	0.10	0.01	69.5	3.7	25
45424		2.58	0.001	0.06	1.11	5.0	<0.2	<10	50	0.67	0.24	0.13	0.07	83.4	10.6	37
45425		2.54	0.001	0.05	2.45	2.2	<0.2	<10	50	1.50	0.37	0.02	0.01	80.9	5.4	29
45426		2.58	0.002	0.04	2.10	1.1	<0.2	10	130	1.57	2.26	0.07	0.07	106.5	13.9	16
45427		2.62	0.002	0.05	1.43	0.9	<0.2	<10	50	0.60	1.29	0.04	0.03	37.4	3.9	29
45428		2.54	0.014	0.46	2.07	16.6	<0.2	10	90	1.59	0.34	0.07	0.03	85.7	6.6	20
45429		2.68	<0.001	0.04	2.54	2.5	<0.2	<10	110	1.65	1.00	0.01	0.02	119.0	11.8	30
45430		0.12	0.193	0.02	1.38	0.6	0.2	<10	50	0.76	0.03	0.58	0.02	21.1	18.7	46
45321		1.72	0.001	0.06	0.11	1.8	<0.2	<10	<10	0.05	0.16	<0.01	<0.01	3.19	1.1	16
45322		1.86	0.001	0.17	1.38	15.6	<0.2	<10	30	0.41	0.52	<0.01	0.01	64.5	1.3	20
45323		1.80	<0.001	0.10	1.35	3.5	<0.2	<10	10	0.21	0.23	0.03	0.17	27.6	18.0	19
45324		1.78	<0.001	0.05	1.26	4.0	<0.2	<10	20	0.41	0.41	0.02	0.03	28.0	8.9	21
45325		0.16	0.184	0.01	1.40	0.6	0.2	<10	50	0.80	0.04	0.58	0.02	21.3	19.3	46
45326		2.30	<0.001	<0.01	1.45	3.0	<0.2	<10	10	0.12	0.03	3.33	0.03	44.8	9.9	36
45327		1.48	<0.001	0.08	3.77	0.4	<0.2	<10	60	0.32	0.08	8.16	0.08	23.2	39.7	62
45328		2.46	<0.001	0.02	0.66	5.9	<0.2	<10	20	0.07	0.14	0.24	0.06	36.6	5.5	36
45329		0.98	0.001	<0.01	0.02	<2	<0.2	<10	100	<0.05	0.02	19.30	0.05	1.05	0.6	<1
45330		1.38	<0.001	0.03	2.15	5.9	<0.2	<10	40	0.67	0.30	0.03	0.01	70.9	6.6	32

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

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Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
45401		0.64	3.2	0.99	0.30	<0.05	<0.02	<0.01	<0.005	0.04	2.5	2.5	0.01	282	0.33	0.01
45402		0.26	16.9	1.96	1.09	<0.05	0.05	0.01	0.008	0.05	3.3	14.3	0.16	969	0.36	0.01
45403		1.04	24.7	3.80	5.29	0.09	0.29	<0.01	0.012	0.14	28.1	67.3	0.60	396	0.53	0.03
45404		0.72	4.0	0.95	1.57	0.05	0.72	0.01	0.024	0.19	26.7	5.5	0.04	166	1.00	0.04
45405		0.09	1.4	0.47	0.08	<0.05	<0.02	0.01	0.006	0.01	0.6	0.9	12.05	209	0.05	<0.01
45406		0.33	7.4	1.66	1.32	<0.05	0.10	0.02	0.011	0.03	5.8	19.9	0.19	1060	0.28	0.01
45407		0.86	11.0	3.53	5.50	0.07	0.33	<0.01	0.013	0.17	41.2	68.0	0.65	246	0.28	0.02
45408		0.15	3.6	3.18	3.37	0.05	0.10	0.01	0.013	0.02	12.6	45.2	0.54	3070	0.21	0.02
45409		0.05	1.6	1.09	0.72	<0.05	0.03	<0.01	0.005	<0.01	1.8	11.6	0.14	691	0.30	0.01
45410		0.53	32.2	2.81	5.20	0.05	0.35	<0.01	0.007	0.31	11.1	2.1	1.37	391	1.20	0.51
45411		0.69	26.5	4.98	10.45	0.08	0.38	<0.01	0.036	0.17	27.0	101.0	2.73	953	0.37	0.04
45412		0.15	5.3	3.39	5.27	0.06	0.04	<0.01	0.005	0.02	3.3	80.7	0.74	312	0.24	0.01
45413		0.52	29.3	4.58	9.86	0.08	0.51	<0.01	0.038	0.10	23.0	92.1	2.64	1240	0.52	0.03
45414		0.26	7.2	2.63	3.28	0.05	0.09	<0.01	0.017	0.03	10.8	41.8	0.53	1140	0.22	0.01
45415		0.80	27.3	5.08	5.78	0.05	0.21	<0.01	0.020	0.20	26.6	77.5	0.81	433	0.26	0.02
45416		0.82	15.7	4.01	5.39	0.07	0.26	<0.01	0.014	0.19	25.2	69.0	0.83	285	0.26	0.01
45417		0.71	20.7	4.55	6.83	0.07	0.20	<0.01	0.018	0.23	30.2	71.4	0.95	325	0.37	0.01
45418		0.57	19.6	4.52	5.99	0.07	0.12	<0.01	0.037	0.10	18.2	74.1	1.12	991	0.26	0.01
45419		0.17	5.6	3.09	3.06	<0.05	0.10	<0.01	0.025	0.03	9.0	38.7	0.38	1610	0.22	0.02
45420		0.74	16.7	4.09	6.33	0.09	0.36	<0.01	0.012	0.19	47.3	83.8	0.79	240	0.27	0.02
45421		0.14	20.8	2.52	4.97	0.05	0.38	<0.01	0.008	0.31	11.3	2.4	1.07	366	1.24	0.46
45422		0.66	16.7	3.57	5.33	0.07	0.21	<0.01	0.018	0.17	34.5	60.4	0.64	236	0.35	0.01
45423		0.71	18.0	4.15	5.58	0.08	0.20	<0.01	0.016	0.14	35.1	65.8	0.67	256	0.38	0.02
45424		1.84	4.4	1.10	3.86	0.10	0.12	<0.01	0.008	0.27	43.9	25.2	0.49	244	0.17	0.07
45425		12.65	80.9	2.54	7.79	0.10	0.50	<0.01	0.013	0.84	42.2	57.2	0.90	83	0.34	0.04
45426		6.31	41.2	4.06	5.57	0.09	0.22	<0.01	0.014	0.42	57.6	36.6	0.26	150	0.21	0.02
45427		3.06	40.6	2.40	4.88	<0.05	0.21	<0.01	0.010	0.40	19.9	24.2	0.46	136	0.69	0.04
45428		12.05	60.2	3.88	5.61	0.09	0.26	0.01	0.011	0.43	46.0	39.6	0.28	97	0.18	0.01
45429		6.69	14.6	3.53	7.37	0.12	0.25	<0.01	0.016	0.53	58.6	35.6	0.50	261	0.25	0.03
45430		0.17	22.7	2.70	5.19	0.06	0.33	<0.01	0.007	0.31	11.4	2.6	1.26	369	1.23	0.48
45321		0.12	3.6	0.78	0.39	<0.05	0.03	<0.01	<0.005	0.01	1.6	3.1	0.03	52	0.24	<0.01
45322		2.07	9.7	3.23	4.63	0.06	0.28	<0.01	0.019	0.15	34.9	51.4	0.46	127	0.87	0.02
45323		0.32	11.7	3.04	3.75	0.05	0.15	<0.01	0.034	0.04	13.4	53.7	0.54	1010	0.23	0.01
45324		0.53	27.6	3.12	3.77	<0.05	0.10	<0.01	0.013	0.07	13.9	51.0	0.53	180	0.38	<0.01
45325		0.18	22.8	2.73	5.32	0.05	0.32	<0.01	0.007	0.30	11.6	2.8	1.28	369	1.35	0.48
45326		0.27	13.3	3.07	7.43	0.09	0.16	<0.01	0.023	0.01	22.4	56.7	0.81	519	0.98	0.04
45327		0.55	398	6.64	12.60	0.11	0.03	<0.01	0.075	0.04	10.7	130.0	2.55	872	0.36	0.02
45328		0.38	23.9	1.46	3.72	0.06	0.11	<0.01	0.009	0.01	19.0	24.5	0.35	365	0.43	0.06
45329		0.08	1.9	0.47	0.09	<0.05	<0.02	<0.01	<0.005	0.01	0.5	0.9	11.65	191	0.08	0.01
45330		1.41	19.5	4.29	5.94	0.08	0.30	<0.01	0.016	0.19	34.1	70.8	0.80	218	0.27	0.01

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

ALS Canada Ltd.
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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method / Analyte / Units / LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
45401		<0.05	5.8	130	17.2	2.1	<0.001	<0.01	0.10	0.5	<0.2	<0.2	7.0	<0.01	0.01	0.8
45402		<0.05	37.0	300	13.0	2.3	<0.001	0.06	0.16	0.9	0.2	<0.2	18.9	<0.01	0.01	1.3
45403		<0.05	14.7	250	33.1	6.7	<0.001	0.01	0.14	1.8	0.2	0.2	11.9	<0.01	0.01	13.0
45404		1.20	9.3	200	31.3	11.9	<0.001	0.02	0.18	1.0	0.8	0.6	6.2	<0.01	<0.01	19.9
45405		<0.05	1.2	240	1.4	0.5	<0.001	0.05	0.05	0.1	0.5	<0.2	50.9	<0.01	0.01	<0.2
45406		<0.05	27.9	200	6.0	1.6	<0.001	0.02	0.17	1.2	0.4	<0.2	4.9	<0.01	0.01	3.0
45407		<0.05	12.2	400	12.3	8.2	<0.001	0.03	0.29	2.0	<0.2	0.2	14.3	<0.01	<0.01	13.0
45408		<0.05	16.0	520	3.8	1.2	<0.001	0.04	0.28	2.1	0.3	<0.2	27.2	<0.01	<0.01	5.9
45409		<0.05	7.7	210	1.2	0.2	<0.001	0.02	0.07	0.7	<0.2	<0.2	9.6	<0.01	<0.01	1.1
45410		3.65	73.7	910	5.4	13.5	<0.001	0.02	0.08	1.0	0.2	1.2	157.5	0.07	<0.01	1.4
45411		0.08	38.0	1610	27.4	8.9	<0.001	0.05	0.13	15.1	0.6	0.3	52.3	<0.01	0.01	13.7
45412		<0.05	19.7	380	1.8	1.3	<0.001	0.02	0.09	0.7	<0.2	<0.2	15.0	<0.01	<0.01	1.3
45413		<0.05	61.0	1360	23.6	5.8	<0.001	0.03	0.19	16.2	0.4	0.3	33.2	<0.01	<0.01	7.5
45414		<0.05	9.7	490	75.0	1.8	<0.001	0.02	0.15	1.8	<0.2	<0.2	6.0	<0.01	<0.01	3.7
45415		<0.05	11.9	430	42.1	9.5	<0.001	0.54	3.00	2.2	0.4	0.2	9.0	<0.01	0.01	15.4
45416		0.19	10.7	610	22.4	8.7	<0.001	0.11	0.33	2.0	0.3	0.2	10.4	0.01	0.01	14.3
45417		0.14	10.5	420	12.9	11.2	<0.001	0.15	0.34	2.3	0.4	0.2	10.0	0.01	<0.01	16.6
45418		0.10	23.1	2400	43.5	4.9	<0.001	0.17	0.22	3.2	0.7	<0.2	41.6	<0.01	<0.01	6.7
45419		<0.05	29.3	260	20.8	1.6	<0.001	0.01	0.07	2.8	0.3	<0.2	5.8	<0.01	<0.01	3.9
45420		<0.05	9.3	350	28.3	8.7	<0.001	0.02	2.47	2.0	0.2	0.2	18.1	<0.01	0.02	14.1
45421		2.69	58.6	910	5.2	12.3	<0.001	0.01	0.06	1.0	0.5	0.7	183.5	0.05	0.01	1.6
45422		<0.05	7.2	380	18.3	8.4	<0.001	0.12	0.46	1.9	0.4	0.2	7.0	<0.01	0.02	12.1
45423		<0.05	9.1	840	73.6	7.1	<0.001	0.16	0.43	2.3	0.6	0.2	12.9	<0.01	<0.01	13.2
45424		0.08	35.0	270	10.1	24.2	<0.001	0.01	0.07	3.7	0.4	0.4	13.5	<0.01	<0.01	15.8
45425		0.14	20.3	230	1.2	118.0	<0.001	0.12	0.08	2.7	0.9	1.2	6.5	<0.01	0.03	21.2
45426		0.07	31.7	220	4.8	37.4	<0.001	0.01	0.12	2.6	0.6	0.7	28.8	<0.01	0.02	20.5
45427		0.30	9.2	170	3.9	40.4	<0.001	0.04	0.09	1.9	0.4	0.7	16.1	<0.01	0.01	8.2
45428		0.13	27.3	210	5.3	41.1	<0.001	0.02	1.13	2.6	0.3	0.8	41.1	<0.01	<0.01	19.9
45429		0.48	39.1	290	2.7	54.3	<0.001	0.05	0.18	2.8	0.4	0.7	14.7	<0.01	0.01	19.9
45430		2.90	69.2	890	7.0	14.1	<0.001	0.01	<0.05	0.9	0.3	0.7	172.0	0.06	<0.01	1.6
45321		<0.05	2.9	90	36.8	0.6	<0.001	0.01	0.09	0.2	<0.2	<0.2	2.0	<0.01	<0.01	0.5
45322		<0.05	6.4	350	118.5	7.5	<0.001	0.04	0.32	1.4	0.2	0.2	16.3	<0.01	<0.01	10.7
45323		<0.05	28.3	270	135.0	1.8	<0.001	0.02	0.17	2.2	0.3	<0.2	7.3	<0.01	<0.01	9.4
45324		<0.05	12.9	230	76.7	3.2	<0.001	0.01	0.14	1.4	0.2	0.2	4.5	<0.01	0.01	5.3
45325		2.95	71.3	900	7.0	14.9	<0.001	0.01	<0.05	1.0	<0.2	0.7	174.0	0.05	<0.01	1.6
45326		<0.05	18.2	350	1.9	0.3	<0.001	0.01	0.13	9.7	0.2	<0.2	190.5	<0.01	<0.01	5.1
45327		<0.05	51.3	840	6.7	2.0	<0.001	0.03	0.07	21.4	0.8	0.2	413	<0.01	<0.01	0.4
45328		<0.05	10.3	310	10.1	0.4	<0.001	0.01	0.09	5.1	<0.2	<0.2	9.7	<0.01	<0.01	6.0
45329		<0.05	1.3	160	1.3	0.5	<0.001	0.06	<0.05	0.2	0.3	<0.2	51.0	<0.01	<0.01	<0.2
45330		0.07	17.5	460	31.7	7.9	0.001	0.03	0.47	2.1	<0.2	<0.2	10.8	<0.01	0.02	12.1

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

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To: RYAN GOLD CORP.
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P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
45401		<0.005	0.02	0.09	1	0.05	1.36	24	0.5
45402		<0.005	0.02	0.26	3	<0.05	5.42	49	1.8
45403		<0.005	0.04	1.23	13	<0.05	3.33	75	18.4
45404		<0.005	0.08	4.71	1	0.19	9.80	56	17.5
45405		<0.005	<0.02	0.91	1	<0.05	0.80	15	<0.5
45406		<0.005	<0.02	0.18	3	0.05	4.31	41	5.3
45407		<0.005	0.04	0.84	13	<0.05	3.08	52	12.8
45408		<0.005	<0.02	0.21	7	0.06	3.40	83	3.6
45409		<0.005	<0.02	0.13	1	<0.05	1.57	22	1.1
45410		0.364	0.03	0.51	46	0.10	3.72	37	24.4
45411		0.011	0.07	1.47	118	0.13	12.20	95	18.1
45412		<0.005	<0.02	0.20	11	<0.05	1.17	60	1.6
45413		0.007	0.06	0.85	107	0.12	12.00	99	21.1
45414		<0.005	0.02	0.17	7	<0.05	2.42	49	3.5
45415		<0.005	0.07	1.01	14	0.10	3.49	58	9.0
45416		0.055	0.06	0.93	14	0.12	5.92	59	9.8
45417		0.033	0.06	0.85	17	0.05	6.06	61	7.8
45418		0.015	0.04	0.50	13	0.06	11.50	290	4.6
45419		<0.005	<0.02	0.09	7	<0.05	6.52	80	3.9
45420		<0.005	0.04	0.94	15	0.09	3.11	60	12.5
45421		0.322	0.04	0.62	41	0.12	3.25	34	26.0
45422		<0.005	0.05	0.87	11	<0.05	2.49	45	8.2
45423		<0.005	0.05	1.24	10	<0.05	3.23	48	9.4
45424		0.018	0.13	0.63	23	0.07	6.73	28	4.7
45425		0.094	0.75	2.24	20	0.07	5.63	10	19.5
45426		0.013	0.33	2.04	13	0.08	10.05	63	9.2
45427		0.047	0.32	0.82	13	0.20	2.37	15	7.9
45428		0.022	0.41	1.85	15	0.13	6.26	39	11.1
45429		0.113	0.47	1.27	21	0.09	3.96	45	9.5
45430		0.351	0.04	0.56	45	0.11	3.54	36	23.3
45321		<0.005	<0.02	0.07	<1	<0.05	0.29	6	1.0
45322		<0.005	0.04	0.82	8	<0.05	2.20	41	11.7
45323		<0.005	<0.02	0.40	7	<0.05	2.59	169	5.4
45324		<0.005	0.02	0.34	8	<0.05	1.98	73	3.2
45325		0.350	0.03	0.61	45	0.11	3.59	36	24.2
45326		<0.005	<0.02	0.20	71	<0.05	8.07	26	5.4
45327		0.029	0.02	0.05	168	<0.05	15.35	83	1.6
45328		<0.005	<0.02	0.19	29	<0.05	3.33	20	4.7
45329		<0.005	<0.02	0.63	1	<0.05	0.72	15	<0.5
45330		<0.005	0.04	0.86	14	<0.05	3.79	66	12.3

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Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method	WEI- 21	Au- ICP22	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
45331		1.52	<0.001	0.01	0.53	23	<0.2	<10	30	0.44	0.03	16.85	0.07	29.6	33.9	10
45332		1.64	<0.001	0.01	0.34	0.8	<0.2	<10	10	0.06	0.05	0.12	0.03	4.61	5.5	14
45333		2.40	<0.001	0.01	0.20	2.3	<0.2	<10	<10	0.07	0.04	0.04	0.01	3.20	2.6	16
45334		1.74	<0.001	0.01	1.15	3.8	<0.2	<10	70	0.23	0.15	0.08	0.03	47.0	11.3	16
45335		2.56	0.001	0.06	1.54	6.0	<0.2	<10	40	0.57	0.24	0.07	0.02	40.2	11.5	23
45336		1.74	<0.001	0.03	2.11	4.4	<0.2	<10	40	0.58	0.29	0.07	0.01	58.0	15.1	35
45337		0.10	2.36	0.01	1.42	0.7	2.3	<10	70	0.78	0.03	0.61	0.02	20.6	19.4	50
45338		2.18	0.002	0.01	0.30	0.9	<0.2	<10	<10	0.07	0.02	0.01	<0.01	7.35	4.6	18
45339		2.40	0.001	0.05	2.37	21.4	<0.2	<10	30	0.68	0.38	0.02	0.06	55.3	4.6	37
45340		1.48	<0.001	0.05	1.95	4.3	<0.2	<10	30	0.54	0.28	0.02	0.02	49.6	5.6	31
45341		2.16	0.001	0.05	0.69	12.4	<0.2	<10	10	0.21	0.09	0.02	0.01	8.80	5.5	17
45342		2.10	0.001	0.09	0.25	3.7	<0.2	<10	<10	0.09	0.05	0.02	<0.01	4.16	0.9	15
45343		1.62	<0.001	0.04	0.43	2.0	<0.2	<10	<10	0.15	0.05	0.02	0.01	3.56	4.4	16
45344		2.66	<0.001	0.20	0.83	1.9	<0.2	<10	10	0.15	0.59	0.27	0.06	14.50	13.9	20
45345		0.10	NSS	1.05	1.37	59.9	0.8	<10	70	0.68	15.15	0.60	0.64	19.45	17.6	45
45346		2.02	0.001	0.88	1.63	0.7	<0.2	<10	10	0.20	3.64	0.04	0.02	21.5	8.5	24
45347		2.42	<0.001	0.05	2.25	9.1	<0.2	<10	30	0.49	0.37	0.02	0.01	37.3	4.1	30
45348		1.78	0.001	0.05	2.50	7.7	<0.2	<10	40	0.56	0.24	0.15	0.02	56.7	6.8	31
45349		0.76	<0.001	0.02	0.03	<2	<0.2	<10	30	<0.05	0.04	20.4	0.06	1.32	0.6	<1
45350		2.20	0.001	0.10	2.17	8.6	<0.2	<10	30	0.39	0.73	0.03	0.01	23.8	4.2	31
45001		2.56	<0.001	0.02	1.62	3.4	<0.2	<10	<10	0.40	0.13	0.01	0.01	28.9	7.8	18
45002		2.46	<0.001	0.02	1.19	1.8	<0.2	<10	10	0.29	0.08	0.01	0.01	16.60	6.3	18
45003		2.00	0.002	0.01	0.34	1.1	<0.2	<10	<10	0.08	0.02	0.02	0.01	9.33	11.6	19
45004		2.54	0.001	0.02	0.32	2.5	<0.2	<10	<10	0.10	0.08	0.05	0.01	2.30	4.3	21
45005		2.92	<0.001	<0.01	0.35	32.4	<0.2	<10	<10	0.07	0.04	0.03	<0.01	5.44	3.9	18
45006		2.68	0.005	0.03	0.21	6.7	<0.2	<10	<10	0.09	0.06	0.03	0.01	4.23	6.5	20
45007		1.98	0.001	0.10	0.18	196.0	<0.2	100	10	0.41	0.23	0.04	0.33	22.5	7.5	26
45008		2.38	0.001	0.05	0.01	79.8	<0.2	<10	<10	0.05	0.04	<0.01	0.23	1.20	0.3	17
45009		1.70	0.001	0.06	4.50	2.2	<0.2	<10	40	0.90	0.54	2.46	0.18	23.0	8.9	35
45010		1.86	0.144	0.14	2.40	0.9	0.2	<10	10	0.63	22.8	1.59	0.02	21.8	6.0	16
45011		0.10	0.196	0.02	1.55	0.7	0.2	<10	50	0.87	0.10	0.68	0.02	22.2	21.2	54
45012		1.60	0.002	0.04	2.53	2.1	<0.2	<10	90	0.52	1.08	0.64	0.02	50.5	7.5	51
45013		2.68	0.001	0.03	0.85	0.6	<0.2	10	10	0.24	0.37	0.80	0.08	19.05	3.3	20
45014		1.76	0.025	0.05	2.58	3.0	<0.2	<10	40	0.97	4.24	0.98	0.01	57.4	6.8	13
45015		1.72	0.001	0.02	2.01	3.0	<0.2	<10	70	1.06	0.21	0.17	0.06	47.2	6.4	58
45016		0.34	<0.001	0.05	0.07	2	<0.2	<10	10	<0.05	0.02	21.3	0.06	1.27	0.5	<1
45017		2.62	<0.001	0.03	0.38	0.9	<0.2	<10	10	0.07	0.06	0.06	0.03	9.67	2.5	16
45018		1.98	0.002	0.03	2.87	0.6	<0.2	<10	110	0.98	0.61	0.02	<0.01	88.6	3.7	25
45019		2.54	<0.001	0.02	3.00	1.3	<0.2	<10	70	1.13	0.10	0.78	0.05	63.3	5.0	62
45020		0.10	0.923	0.02	1.60	1.0	1.0	<10	70	0.77	0.03	0.78	0.02	21.9	19.5	48

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

ALS Canada Ltd.
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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
45331		0.91	13.4	8.39	1.38	0.07	0.02	0.01	0.173	0.03	11.7	24.4	0.92	3470	0.96	0.02
45332		0.14	4.3	1.21	0.96	<0.05	0.02	0.01	0.006	0.03	2.0	12.9	0.13	229	0.29	0.01
45333		0.35	6.8	1.24	0.59	<0.05	<0.02	<0.01	0.006	0.02	1.5	5.9	0.07	88	0.32	<0.01
45334		1.22	8.5	2.65	2.61	0.06	0.16	<0.01	0.008	0.23	21.5	20.9	0.30	160	0.26	0.01
45335		0.84	21.7	3.81	3.81	0.06	0.14	<0.01	0.010	0.20	18.6	40.8	0.51	171	0.47	0.01
45336		1.36	19.1	4.09	5.29	0.07	0.31	<0.01	0.012	0.22	27.1	64.8	0.77	318	0.36	0.02
45337		0.14	30.8	3.04	5.12	0.08	0.31	<0.01	0.008	0.32	10.4	2.2	1.49	408	1.23	0.54
45338		0.14	4.0	1.02	0.84	<0.05	0.04	0.01	<0.005	0.03	3.6	11.6	0.11	130	0.31	0.01
45339		1.51	25.1	4.87	6.50	0.07	0.22	<0.01	0.015	0.21	25.5	72.2	0.87	335	0.52	0.02
45340		1.08	22.0	4.46	5.44	0.07	0.26	<0.01	0.012	0.16	25.4	66.6	0.76	259	0.38	0.01
45341		0.24	10.9	1.92	1.94	<0.05	0.06	<0.01	0.006	0.04	4.1	27.0	0.27	190	0.32	0.01
45342		0.15	3.4	1.12	0.74	<0.05	0.02	<0.01	<0.005	0.01	2.1	9.0	0.10	84	0.33	0.01
45343		0.12	8.3	1.40	1.05	<0.05	0.02	<0.01	0.005	0.01	1.6	15.3	0.16	139	0.33	0.01
45344		0.24	13.6	2.25	2.18	<0.05	0.06	<0.01	0.007	0.04	7.6	28.0	0.32	277	0.33	0.01
45345		0.14	245	4.78	5.08	0.06	0.40	<0.01	0.331	0.30	9.7	2.0	1.22	387	1.28	0.49
45346		0.20	26.2	3.70	4.92	0.07	0.06	0.01	0.012	0.02	9.5	60.1	0.66	637	0.26	0.01
45347		0.97	12.1	4.10	5.82	0.07	0.33	<0.01	0.012	0.20	18.2	73.6	0.89	297	0.29	0.01
45348		0.74	17.1	4.86	6.45	0.08	0.22	<0.01	0.018	0.22	23.2	75.7	0.98	463	0.40	0.02
45349		0.07	1.9	0.52	0.11	<0.05	<0.02	<0.01	0.006	0.01	0.6	1.2	12.20	227	0.05	0.01
45350		0.64	16.3	4.71	5.51	0.05	0.35	<0.01	0.018	0.16	9.7	71.0	0.90	370	0.33	0.01
45001		0.12	8.3	4.19	3.89	0.10	0.04	<0.01	0.015	0.01	9.8	55.4	0.65	744	0.25	0.01
45002		0.19	11.0	3.32	3.16	0.06	0.05	<0.01	0.016	0.03	6.0	36.6	0.38	212	0.22	0.02
45003		0.08	4.4	1.14	0.95	<0.05	0.05	<0.01	0.005	0.01	3.7	12.8	0.12	227	0.31	0.01
45004		0.07	3.6	1.24	0.85	<0.05	0.03	<0.01	0.006	0.01	0.9	12.5	0.15	173	0.28	<0.01
45005		0.08	2.7	1.19	1.02	<0.05	0.04	<0.01	<0.005	0.02	2.4	13.6	0.15	149	0.33	0.01
45006		0.08	3.4	1.00	0.68	<0.05	0.04	<0.01	0.007	0.02	1.7	8.6	0.08	302	0.39	<0.01
45007		0.32	8.4	0.83	0.57	<0.05	0.08	<0.01	0.017	0.04	9.1	1.5	0.02	54	0.39	0.01
45008		0.10	1.3	0.72	0.10	<0.05	<0.02	<0.01	0.012	<0.01	0.5	0.4	<0.01	51	0.29	<0.01
45009		5.78	13.7	2.01	10.85	0.09	0.19	<0.01	0.029	0.65	10.5	18.4	0.66	202	0.56	0.41
45010		0.77	103.5	2.30	7.02	0.06	0.06	<0.01	0.028	0.06	10.0	6.1	0.11	120	0.80	0.16
45011		0.19	36.1	3.21	5.79	0.06	0.36	<0.01	0.008	0.35	11.0	2.2	1.57	425	1.33	0.58
45012		7.83	30.3	3.44	9.64	0.07	0.44	<0.01	0.053	0.99	26.9	40.2	0.66	300	0.24	0.11
45013		0.33	7.5	0.55	2.22	0.05	0.07	<0.01	0.019	0.03	8.4	3.6	0.12	219	0.21	0.11
45014		3.31	32.0	2.02	6.96	0.08	0.19	<0.01	0.036	0.34	28.0	30.8	0.26	132	0.24	0.15
45015		9.67	10.4	1.97	8.19	0.10	0.21	<0.01	0.011	0.82	23.5	78.6	0.88	143	0.19	0.06
45016		0.18	1.2	0.45	0.20	<0.05	<0.02	0.01	<0.005	0.04	0.7	1.2	12.25	186	0.09	0.02
45017		0.62	3.3	0.96	1.53	<0.05	<0.02	0.02	<0.005	0.07	5.6	9.5	0.22	114	0.27	0.01
45018		6.82	23.1	3.61	8.40	0.12	0.23	0.02	0.007	0.65	52.4	70.8	0.79	246	0.23	0.04
45019		8.94	6.6	1.81	10.25	0.13	0.20	0.02	0.014	0.83	36.7	84.5	1.06	132	0.13	0.23
45020		0.90	43.6	3.00	5.83	0.07	0.37	0.03	0.009	0.35	11.5	2.3	1.50	410	1.37	0.58

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

ALS Canada Ltd.
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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
45331		<0.05	31.4	530	3.7	1.5	<0.001	0.02	2.10	29.6	1.4	<0.2	366	<0.01	0.02	0.3
45332		<0.05	9.0	250	5.7	1.4	0.001	<0.01	0.27	0.5	<0.2	<0.2	8.6	<0.01	0.01	0.7
45333		<0.05	4.0	140	5.8	0.8	<0.001	<0.01	0.24	0.6	<0.2	<0.2	3.4	<0.01	<0.01	0.3
45334		0.06	16.8	490	8.6	8.8	<0.001	<0.01	0.68	1.1	<0.2	<0.2	16.3	<0.01	<0.01	7.7
45335		0.09	20.3	760	33.7	7.3	0.001	0.04	0.50	1.4	<0.2	<0.2	28.8	<0.01	0.01	9.4
45336		<0.05	23.2	630	23.4	8.8	<0.001	0.02	0.28	2.0	0.3	0.2	26.3	<0.01	0.02	10.1
45337		3.01	76.4	970	6.7	13.1	0.001	0.01	0.17	0.9	<0.2	1.1	161.5	0.05	0.01	1.4
45338		<0.05	6.9	80	2.3	1.3	<0.001	<0.01	0.14	0.3	<0.2	<0.2	3.8	<0.01	<0.01	1.2
45339		0.08	10.2	600	20.4	8.8	0.001	0.13	0.41	2.2	<0.2	0.2	15.4	0.01	0.01	14.7
45340		0.08	11.8	570	45.8	6.7	0.001	0.04	0.24	1.8	<0.2	0.2	11.7	<0.01	0.03	11.5
45341		<0.05	13.6	130	25.1	1.8	0.001	0.02	0.21	0.5	<0.2	0.2	4.1	<0.01	0.02	1.8
45342		<0.05	3.4	150	10.0	0.8	0.001	0.01	0.13	0.2	<0.2	<0.2	4.4	<0.01	0.01	1.3
45343		<0.05	11.6	110	10.3	0.7	<0.001	0.01	0.13	0.4	<0.2	<0.2	2.5	<0.01	<0.01	0.9
45344		<0.05	28.0	1140	120.5	1.9	0.001	0.01	0.16	0.5	<0.2	<0.2	36.5	<0.01	0.05	2.1
45345		3.91	62.4	930	35.3	14.0	0.005	2.67	1.24	1.0	0.5	0.9	189.5	0.06	2.56	1.5
45346		0.07	12.1	240	261	1.2	<0.001	0.01	0.14	1.9	0.2	<0.2	5.4	<0.01	0.13	3.2
45347		0.09	16.3	280	10.7	8.3	0.001	0.04	0.72	2.0	<0.2	0.2	6.7	<0.01	0.03	13.1
45348		0.07	15.1	630	25.9	9.5	0.001	0.05	0.42	2.5	0.2	0.2	9.9	<0.01	0.02	14.8
45349		<0.05	1.7	180	1.5	0.5	0.001	0.02	0.09	0.1	<0.2	<0.2	43.4	<0.01	0.02	0.2
45350		0.05	10.2	390	33.8	7.3	<0.001	0.12	0.37	2.0	<0.2	0.2	5.3	0.01	0.03	14.6
45001		<0.05	22.9	540	46.6	0.3	0.001	0.03	0.18	1.9	0.5	<0.2	2.7	<0.01	0.01	5.3
45002		<0.05	12.8	410	65.7	1.3	0.001	0.05	0.41	1.3	<0.2	<0.2	11.4	<0.01	<0.01	2.7
45003		<0.05	15.4	150	3.2	0.5	<0.001	0.01	0.16	0.4	<0.2	<0.2	5.6	<0.01	0.01	2.8
45004		<0.05	7.3	160	11.1	0.4	0.001	0.01	0.15	0.4	<0.2	<0.2	4.8	<0.01	<0.01	0.7
45005		<0.05	8.3	180	3.1	0.8	0.001	<0.01	0.12	0.4	<0.2	<0.2	4.2	<0.01	0.01	1.0
45006		<0.05	9.7	150	12.5	0.8	<0.001	<0.01	0.12	0.4	<0.2	<0.2	4.6	<0.01	0.03	1.0
45007		0.17	7.6	320	22.5	2.2	0.001	0.05	0.44	0.4	<0.2	3.1	16.8	<0.01	0.02	9.6
45008		<0.05	1.6	40	25.2	0.2	0.001	<0.01	0.35	<0.1	<0.2	<0.2	2.0	<0.01	<0.01	0.6
45009		0.23	21.3	410	6.9	79.5	0.001	0.05	0.14	2.9	0.2	3.9	177.5	<0.01	0.07	5.0
45010		0.40	6.4	520	2.8	6.9	0.001	0.50	0.13	1.1	0.2	1.8	88.0	0.01	2.73	5.3
45011		3.72	80.5	1040	11.0	16.1	0.001	0.01	0.11	1.1	0.2	1.2	179.5	0.07	0.01	1.5
45012		0.57	17.0	250	2.6	105.5	0.001	0.14	0.10	6.0	<0.2	2.7	34.8	0.01	0.04	22.3
45013		0.34	5.7	240	7.3	3.9	0.001	0.01	0.10	0.5	<0.2	3.0	63.0	<0.01	0.01	5.0
45014		0.18	17.7	380	4.0	29.0	<0.001	0.14	0.19	1.1	<0.2	4.8	52.7	<0.01	0.16	13.9
45015		0.40	26.4	340	4.0	115.5	0.001	0.05	0.10	9.0	<0.2	1.3	15.8	<0.01	0.02	17.2
45016		0.08	1.8	220	2.1	1.4	<0.001	0.02	<0.05	0.2	<0.2	<0.2	42.7	<0.01	<0.01	0.4
45017		0.14	7.1	170	1.9	6.6	<0.001	0.01	0.05	1.1	<0.2	0.3	0.9	<0.01	0.02	0.9
45018		0.16	18.8	210	2.9	49.4	<0.001	0.05	0.05	2.7	<0.2	0.4	5.3	<0.01	0.03	22.6
45019		0.17	31.3	220	4.7	104.0	<0.001	0.03	0.09	10.0	0.2	1.4	45.8	<0.01	0.01	18.3
45020		2.87	77.9	1030	7.4	14.3	0.001	0.02	0.10	1.3	<0.2	1.7	186.0	0.04	0.02	1.8

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
45331		<0.005	0.02	0.12	37	<0.05	38.2	57	<0.5
45332		<0.005	<0.02	0.09	3	<0.05	1.43	24	1.0
45333		<0.005	<0.02	0.16	1	<0.05	1.10	14	<0.5
45334		0.008	0.05	0.66	7	<0.05	5.90	45	6.1
45335		0.014	0.04	0.70	10	<0.05	4.08	58	4.9
45336		0.005	0.05	0.91	14	<0.05	4.61	72	12.3
45337		0.391	0.04	0.56	52	0.11	3.91	42	21.5
45338		<0.005	<0.02	0.10	2	<0.05	0.49	14	1.6
45339		0.005	0.05	0.97	16	0.06	2.99	70	9.6
45340		<0.005	0.03	0.79	13	<0.05	2.60	63	9.3
45341		<0.005	<0.02	0.19	5	<0.05	1.16	37	2.4
45342		<0.005	<0.02	0.10	2	<0.05	0.62	12	0.6
45343		<0.005	<0.02	0.10	3	<0.05	0.95	25	0.7
45344		<0.005	<0.02	0.13	5	<0.05	3.75	50	2.1
45345		0.345	0.07	1.08	45	0.23	3.49	59	23.6
45346		<0.005	<0.02	0.41	14	<0.05	2.54	75	2.1
45347		0.023	0.05	0.98	16	<0.05	4.94	64	11.3
45348		0.009	0.04	0.99	18	<0.05	9.40	78	7.7
45349		<0.005	<0.02	0.62	2	<0.05	0.80	15	<0.5
45350		0.006	0.04	0.93	15	0.05	5.64	66	10.5
45001		<0.005	<0.02	0.43	8	<0.05	2.77	167	1.5
45002		<0.005	<0.02	0.27	6	<0.05	1.58	62	1.7
45003		<0.005	<0.02	0.13	2	<0.05	1.18	29	1.8
45004		<0.005	<0.02	0.15	3	<0.05	0.63	17	1.2
45005		<0.005	<0.02	0.08	3	<0.05	0.70	19	1.7
45006		<0.005	<0.02	0.14	2	<0.05	0.96	18	1.7
45007		0.009	0.04	0.68	1	0.05	3.24	22	2.6
45008		<0.005	<0.02	0.06	<1	0.09	1.71	19	<0.5
45009		0.191	0.47	0.58	61	0.55	7.17	55	3.4
45010		0.042	0.06	0.66	8	9.30	5.66	8	1.4
45011		0.418	0.03	0.59	55	0.18	4.22	45	23.7
45012		0.207	0.64	1.90	45	2.54	6.23	32	15.4
45013		0.035	0.03	0.40	3	0.62	4.01	34	1.5
45014		0.040	0.20	1.34	7	0.20	7.52	18	6.3
45015		0.106	0.58	1.48	52	0.21	5.51	20	7.0
45016		<0.005	<0.02	0.50	2	<0.05	0.77	14	<0.5
45017		0.005	0.04	0.11	4	0.05	1.27	10	0.5
45018		0.042	0.40	1.91	19	0.07	5.98	26	7.9
45019		0.113	0.61	1.22	51	0.13	5.98	17	6.8
45020		0.403	0.04	0.61	50	0.12	4.44	40	26.0

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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 20- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200372

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.
ME- MS41	Interference: Samples with Ca> 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL)
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

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CERTIFICATE WH12200373

Project: Cantung (CanEast- Elf)

P.O. No.: CT12- 002

This report is for 80 Rock samples submitted to our lab in Whitehorse, YT, Canada on 27- AUG- 2012.

The following have access to data associated with this certificate:

ANDY RANDELL	CARRIE WONG	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
BAG- 01	Bulk Master for Storage
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES
As- OG46	Ore Grade As - Aqua Regia	VARIABLE
Au- GRA22	Au 50 g FA- GRAV finish	WST- SIM
ME- MS41	51 anal. aqua regia ICPMS	
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES

To: RYAN GOLD CORP.
ATTN: ANDY RANDELL
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

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.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP22 Au ppm 0.001	Au- GRA22 Au ppm 0.05	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1
45451		2.24	<0.001		0.03	0.75	4.4	<0.2	<10	10	0.05	0.09	0.91	0.06	1.84	4.3
45452		2.44	0.003		0.02	0.38	8.7	<0.2	<10	10	0.07	0.17	0.03	0.03	9.23	2.1
45453		2.58	0.002		0.02	1.54	3.0	<0.2	<10	10	0.11	0.12	0.02	0.02	31.8	6.0
45454		2.26	0.002		0.03	0.98	5.9	<0.2	<10	50	0.12	0.07	0.27	0.06	22.3	5.3
45455		2.10	0.002		0.02	0.66	20.3	<0.2	<10	<10	0.10	0.07	0.42	0.03	11.00	4.1
45456		0.12	1.720		0.02	1.41	0.6	1.9	<10	90	0.83	0.01	0.59	0.02	22.4	17.4
45457		2.44	0.001		0.02	2.39	0.3	<0.2	<10	50	0.30	0.37	0.01	0.01	23.3	1.7
45458		2.06	0.008		0.02	0.20	23	<0.2	<10	20	0.29	0.11	>25.0	0.06	19.55	3.9
45459		2.36	<0.001		0.01	0.44	1.8	<0.2	<10	10	0.07	0.04	0.45	0.05	19.70	3.3
45460		2.80	0.001		0.04	0.37	2.5	<0.2	<10	10	0.05	0.14	0.18	0.02	10.80	2.3
45361		2.40	<0.001		0.07	0.79	0.9	<0.2	<10	<10	0.14	0.34	0.05	0.03	5.77	7.8
45362		2.04	0.002		0.03	1.89	70.1	<0.2	<10	30	0.54	0.13	0.11	0.06	44.7	8.8
45363		2.12	<0.001		0.01	0.58	9.5	<0.2	<10	20	0.33	0.05	0.30	0.02	26.7	6.4
45364		2.34	<0.001		0.04	0.25	1.5	<0.2	<10	<10	0.11	0.10	0.27	0.01	10.75	1.7
45365		2.80	0.001		0.02	2.93	9.5	<0.2	<10	90	0.21	0.03	1.45	0.03	46.3	20.3
45366		2.30	0.003		0.07	0.42	228	<0.2	<10	40	0.71	0.54	0.06	0.10	36.5	4.3
45367		2.14	<0.001		0.06	2.02	8.1	<0.2	<10	40	0.46	0.45	0.05	0.01	47.8	8.8
45368		2.36	<0.001		0.11	0.46	54.0	<0.2	<10	40	0.56	0.32	0.04	0.03	32.6	2.1
45369		2.06	<0.001		0.02	0.63	1.6	<0.2	<10	20	0.49	0.07	0.21	0.02	18.00	27.1
45370		0.70	<0.001		<0.01	0.05	<2	<0.2	<10	20	0.06	0.04	21.2	0.05	1.72	1.7
42151		3.36	0.001		0.03	0.22	2.6	<0.2	<10	<10	0.06	0.37	0.06	0.02	11.25	5.9
42152		2.32	<0.001		0.01	2.00	1.1	<0.2	<10	50	0.57	0.11	0.17	0.06	114.5	6.6
42153		1.52	0.001		0.04	4.20	0.2	<0.2	<10	250	0.31	0.26	1.51	0.06	25.7	15.9
42154		1.60	0.010		0.34	0.40	1.2	<0.2	<10	20	0.05	115.0	0.08	<0.01	10.30	1.6
42155		2.10	<0.001		0.01	1.42	1.4	<0.2	<10	50	0.56	0.28	0.20	0.03	30.1	4.1
42156		0.10	NSS		1.28	1.41	121.5	1.8	<10	60	0.69	4.89	0.64	1.14	22.7	19.4
42157		2.74	0.003		0.03	1.66	0.9	<0.2	<10	60	0.48	0.81	0.26	0.03	32.9	6.4
42158		2.50	0.002		0.01	0.82	2.0	<0.2	<10	10	0.07	0.11	0.03	0.01	25.4	2.7
42159		2.44	0.001		0.03	1.33	5.6	<0.2	<10	20	0.15	0.15	0.31	0.06	32.5	6.4
42160		3.14	0.001		0.03	0.14	6.0	<0.2	<10	<10	<0.05	0.10	0.07	0.02	4.49	1.3
42161		2.10	<0.001		<0.01	0.07	0.9	<0.2	<10	<10	<0.05	0.04	0.01	0.01	1.71	0.4
42162		1.92	0.005		0.48	0.88	5.9	<0.2	<10	10	0.15	1.95	0.09	0.06	18.10	18.5
42163		2.12	<0.001		0.01	0.01	0.3	<0.2	<10	<10	<0.05	0.04	<0.01	<0.01	0.15	0.3
42164		2.16	<0.001		0.01	0.38	5.5	<0.2	<10	10	0.05	0.06	0.03	0.01	24.3	1.0
42165		0.12	0.196		0.01	1.35	0.5	0.2	<10	50	0.76	0.04	0.55	0.02	22.8	18.2
42166		2.06	0.002		0.01	1.04	8.5	<0.2	<10	10	0.15	0.09	0.03	0.01	31.3	3.2
42167		2.00	0.005		<0.01	0.16	12.6	<0.2	<10	<10	<0.05	0.03	0.05	0.01	4.32	0.8
42168		0.58	<0.001		<0.01	0.02	2	<0.2	<10	80	<0.05	0.04	21.2	0.07	0.99	0.6
42169		2.10	0.006		0.08	0.12	2.2	<0.2	<10	10	0.06	0.15	0.07	0.04	18.45	2.2
42170		0.12	1.750		0.02	1.50	0.6	1.8	<10	90	0.85	0.04	0.62	0.03	22.4	17.1

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CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
45451		16	0.13	5.2	1.81	2.45	<0.05	<0.02	0.01	0.007	0.01	0.8	27.0	0.34	381	0.26
45452		28	0.12	12.7	1.03	1.11	<0.05	0.03	<0.01	0.009	0.04	4.5	11.5	0.13	92	0.28
45453		35	0.15	9.4	2.82	4.52	<0.05	0.05	<0.01	0.008	0.05	16.1	48.6	0.60	196	0.20
45454		14	0.30	5.4	1.81	2.67	<0.05	0.06	<0.01	0.006	0.06	10.7	28.7	0.37	403	0.14
45455		11	0.70	4.4	2.33	1.92	<0.05	0.03	0.01	0.006	0.02	5.3	20.7	0.25	827	0.27
45456		50	0.17	21.0	2.58	5.05	0.07	0.31	<0.01	0.009	0.32	12.6	2.4	1.15	378	1.33
45457		32	1.38	15.7	4.25	6.47	0.06	0.31	<0.01	0.017	0.20	13.0	73.0	0.99	407	0.35
45458		<1	0.21	7.7	1.60	0.54	<0.05	0.12	<0.01	0.013	0.05	10.2	3.1	0.17	2170	0.25
45459		14	0.11	6.1	1.01	1.51	<0.05	0.06	<0.01	<0.005	0.04	9.6	12.7	0.16	310	0.18
45460		17	0.10	4.5	1.12	1.23	<0.05	0.03	<0.01	<0.005	0.02	5.2	11.5	0.14	295	0.29
45361		16	0.22	9.9	2.20	2.19	0.05	<0.02	<0.01	0.012	0.01	2.9	33.8	0.36	219	0.22
45362		30	1.72	24.4	3.90	5.18	0.06	0.27	<0.01	0.015	0.13	21.8	65.6	0.85	538	0.70
45363		16	0.58	14.8	1.47	1.54	<0.05	0.08	<0.01	0.009	0.07	11.8	20.9	0.21	360	0.28
45364		18	0.13	3.1	0.88	0.65	<0.05	0.02	<0.01	0.007	0.01	4.8	13.3	0.11	151	0.31
45365		6	5.03	61.3	8.09	15.55	0.26	0.19	<0.01	0.088	0.01	20.4	61.9	2.25	676	1.20
45366		5	1.23	5.7	0.96	0.99	<0.05	0.77	<0.01	0.011	0.12	18.7	5.5	0.04	65	0.83
45367		30	0.97	19.0	4.36	5.10	0.06	0.28	<0.01	0.018	0.21	25.1	61.9	0.79	337	0.37
45368		5	1.37	6.2	1.10	1.19	<0.05	0.87	<0.01	0.011	0.14	16.8	5.6	0.04	114	1.09
45369		13	0.29	16.0	1.62	1.58	<0.05	0.04	<0.01	0.010	0.04	8.1	24.4	0.24	745	0.23
45370		<1	0.14	2.1	0.53	0.14	<0.05	0.02	<0.01	0.005	0.01	0.8	1.1	12.40	219	0.07
42151		16	0.30	44.7	1.00	1.16	<0.05	<0.02	<0.01	0.012	0.03	5.7	5.2	0.13	49	0.34
42152		80	4.37	3.5	2.27	9.17	0.11	0.18	<0.01	0.013	0.47	58.0	71.6	1.32	190	0.23
42153		216	9.72	30.0	3.23	12.30	0.14	0.22	<0.01	0.022	1.52	12.7	55.8	2.23	277	0.61
42154		16	3.39	75.9	2.06	3.28	0.09	0.02	<0.01	0.012	0.27	4.9	2.4	0.24	71	0.38
42155		62	5.61	4.1	1.35	5.43	0.08	0.28	0.01	0.009	0.55	15.8	31.0	0.78	134	0.11
42156		48	0.16	106.5	5.34	5.13	0.06	0.44	0.02	0.076	0.32	11.6	2.0	1.44	433	1.42
42157		31	3.76	16.5	2.15	5.00	0.07	0.12	0.01	0.011	0.37	16.7	26.2	0.57	232	0.28
42158		21	0.19	4.1	1.54	2.61	<0.05	0.04	0.01	<0.005	0.06	11.5	23.9	0.29	183	0.15
42159		29	0.16	3.9	2.43	4.55	0.05	0.08	0.01	0.009	0.04	15.7	48.1	0.59	691	0.22
42160		16	<0.05	2.7	0.46	0.44	<0.05	<0.02	0.01	<0.005	<0.01	1.8	4.2	0.06	121	0.17
42161		21	<0.05	1.4	0.43	0.24	<0.05	<0.02	0.01	<0.005	0.01	0.8	1.8	0.02	81	0.25
42162		16	0.13	49.2	2.01	2.57	<0.05	0.08	0.01	0.016	0.03	7.2	31.0	0.37	598	0.36
42163		22	<0.05	1.1	0.40	0.08	<0.05	<0.02	0.01	<0.005	<0.01	<0.2	0.2	<0.01	45	0.32
42164		14	0.13	2.8	0.91	1.54	<0.05	0.04	0.01	<0.005	0.04	10.9	8.0	0.12	137	0.22
42165		47	0.17	23.0	2.73	5.18	0.06	0.30	<0.01	0.006	0.31	12.5	2.6	1.32	387	1.35
42166		24	0.31	6.0	1.99	3.40	<0.05	0.06	0.01	0.005	0.09	14.7	31.2	0.36	181	0.31
42167		23	<0.05	1.5	0.53	0.48	<0.05	<0.02	<0.01	<0.005	0.01	2.0	3.4	0.06	153	0.17
42168		<1	0.07	1.2	0.49	0.07	<0.05	<0.02	<0.01	<0.005	0.01	0.5	0.7	12.35	206	0.08
42169		9	0.08	6.5	1.74	0.36	<0.05	0.02	0.01	<0.005	0.03	8.7	0.6	0.03	641	0.22
42170		53	0.16	21.6	2.71	5.37	0.06	0.31	<0.01	0.007	0.33	13.2	2.4	1.19	412	1.40

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

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 17- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
45451		<0.01	<0.05	12.2	30	10.8	0.6	<0.001	0.01	0.12	1.1	0.3	<0.2	12.8	<0.01	0.01
45452		0.01	0.05	6.6	90	10.2	1.8	<0.001	<0.01	0.12	0.6	0.3	<0.2	2.3	<0.01	0.03
45453		0.02	<0.05	23.0	100	4.1	2.6	<0.001	<0.01	0.15	1.9	0.3	<0.2	2.4	<0.01	0.02
45454		0.02	<0.05	11.3	380	9.2	2.9	<0.001	<0.01	0.07	1.2	0.3	<0.2	7.4	<0.01	0.01
45455		0.01	<0.05	8.3	80	12.7	1.4	<0.001	0.01	0.13	1.2	0.3	<0.2	6.1	<0.01	0.02
45456		0.51	2.50	64.4	980	5.1	13.6	<0.001	0.01	0.05	1.9	0.4	0.7	192.0	0.04	0.01
45457		0.04	0.05	4.7	260	5.9	9.3	<0.001	0.16	0.22	2.5	0.3	0.2	11.2	<0.01	0.04
45458		0.01	0.14	9.7	380	19.5	2.5	<0.001	0.02	0.36	2.6	0.6	<0.2	274	<0.01	0.03
45459		0.02	<0.05	9.1	110	7.9	1.8	<0.001	0.01	0.07	0.8	0.3	<0.2	5.3	<0.01	<0.01
45460		0.01	<0.05	6.8	140	40.5	1.0	<0.001	0.01	0.06	0.6	0.3	<0.2	5.0	<0.01	0.01
45361		<0.01	0.05	14.3	240	55.5	0.7	<0.001	0.01	0.12	1.4	0.3	<0.2	8.4	<0.01	0.02
45362		0.02	<0.05	16.9	680	7.0	6.7	<0.001	0.12	1.65	2.5	0.4	<0.2	11.9	<0.01	0.01
45363		0.01	<0.05	11.6	360	4.7	3.3	<0.001	0.02	0.54	1.0	0.3	<0.2	21.4	<0.01	<0.01
45364		<0.01	<0.05	6.1	280	23.0	0.6	<0.001	0.01	0.17	0.9	0.3	<0.2	14.2	<0.01	<0.01
45365		0.04	0.76	5.6	3510	3.1	1.2	0.001	0.37	<0.05	17.1	1.8	0.8	82.1	0.02	0.01
45366		0.03	0.20	20.7	190	24.1	7.8	<0.001	0.02	0.26	1.1	0.4	0.3	20.4	<0.01	<0.01
45367		0.01	0.10	17.3	520	37.8	8.7	<0.001	0.07	0.28	2.3	0.4	0.2	13.6	<0.01	0.02
45368		0.03	1.02	6.3	190	69.9	9.7	<0.001	0.04	0.17	1.1	0.4	0.5	7.7	0.01	0.01
45369		<0.01	0.06	32.5	300	11.6	2.1	<0.001	0.03	0.11	1.6	0.3	<0.2	17.0	<0.01	<0.01
45370		0.01	0.13	3.5	190	1.6	0.7	<0.001	0.01	<0.05	0.4	0.3	<0.2	48.2	<0.01	0.01
42151		0.01	0.11	22.9	60	2.4	2.8	<0.001	<0.01	0.06	0.8	0.4	0.5	1.7	<0.01	0.05
42152		0.04	0.23	22.6	230	2.2	56.3	<0.001	<0.01	<0.05	8.2	0.5	0.9	10.9	<0.01	0.01
42153		0.36	0.36	54.7	520	3.5	143.5	<0.001	0.20	0.07	6.5	0.6	1.8	115.0	<0.01	0.06
42154		0.03	0.17	1.7	370	1.3	35.7	<0.001	0.80	0.12	1.8	0.9	1.4	10.0	<0.01	0.05
42155		0.09	0.22	15.6	250	3.4	66.2	<0.001	0.02	0.12	7.2	0.6	1.0	12.6	<0.01	0.01
42156		0.54	3.80	74.6	960	57.9	14.8	0.002	3.23	1.10	0.9	2.5	1.1	161.0	0.05	1.07
42157		0.07	0.35	14.4	280	4.1	41.4	<0.001	0.01	0.09	2.8	0.3	0.5	37.6	<0.01	0.02
42158		0.02	0.14	9.3	100	6.1	2.9	<0.001	<0.01	0.10	0.5	<0.2	<0.2	3.4	<0.01	<0.01
42159		0.02	0.10	16.5	110	11.0	1.9	<0.001	<0.01	0.10	1.9	<0.2	<0.2	7.4	<0.01	0.01
42160		0.01	0.14	3.0	80	6.6	0.2	<0.001	<0.01	0.11	0.2	<0.2	<0.2	1.6	<0.01	<0.01
42161		0.01	0.10	1.7	10	1.4	0.3	<0.001	<0.01	0.08	0.1	<0.2	<0.2	0.4	<0.01	<0.01
42162		0.01	0.11	26.8	420	58.9	1.5	<0.001	0.01	0.24	0.8	0.4	<0.2	4.0	<0.01	0.17
42163		0.01	0.11	1.3	10	0.4	<0.1	<0.001	<0.01	0.10	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01
42164		0.02	0.17	3.2	110	5.7	2.0	<0.001	<0.01	0.13	0.3	0.2	<0.2	2.2	<0.01	<0.01
42165		0.48	2.52	70.9	910	7.5	14.2	<0.001	0.01	0.08	0.8	0.2	0.7	171.0	0.02	<0.01
42166		0.02	0.10	11.1	150	5.4	3.4	<0.001	0.01	0.11	0.7	<0.2	<0.2	3.6	<0.01	<0.01
42167		0.02	0.15	2.3	180	1.9	0.3	<0.001	0.01	0.11	0.3	<0.2	<0.2	2.9	<0.01	<0.01
42168		0.01	0.10	1.5	180	1.5	0.4	<0.001	0.01	0.06	0.2	0.2	<0.2	48.7	<0.01	<0.01
42169		0.03	0.15	4.1	60	19.8	1.3	<0.001	0.09	0.23	0.5	<0.2	<0.2	2.5	<0.01	0.01
42170		0.51	2.16	64.0	1000	5.8	13.8	<0.001	0.01	0.09	1.1	<0.2	0.7	199.0	0.02	<0.01

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713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 17- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	As- OG46
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr	As
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
45451		0.5	<0.005	<0.02	0.12	5	<0.05	1.51	35	<0.5	
45452		2.1	<0.005	<0.02	0.16	3	0.05	0.59	16	1.2	
45453		11.6	<0.005	<0.02	0.35	11	<0.05	1.45	53	1.8	
45454		7.4	<0.005	0.02	0.35	5	<0.05	1.81	34	2.3	
45455		4.1	<0.005	<0.02	0.63	4	<0.05	1.11	26	1.0	
45456		1.8	0.344	0.03	0.67	43	0.12	3.93	36	23.6	
45457		8.6	<0.005	0.05	1.04	12	<0.05	1.65	60	12.8	
45458		3.3	<0.005	<0.02	1.19	1	0.05	8.02	22	4.7	
45459		5.2	<0.005	<0.02	0.30	4	<0.05	1.09	18	2.5	
45460		3.2	<0.005	<0.02	0.35	2	<0.05	0.70	14	1.2	
45361		0.9	<0.005	<0.02	0.12	5	<0.05	1.47	59	0.5	
45362		20.2	<0.005	0.04	1.00	15	<0.05	5.29	85	10.9	
45363		5.3	<0.005	0.02	0.40	4	<0.05	3.08	31	3.3	
45364		1.1	<0.005	<0.02	0.11	1	<0.05	3.15	14	0.5	
45365		1.6	0.151	<0.02	0.12	140	0.12	33.4	108	4.3	
45366		16.8	<0.005	0.05	3.25	1	0.08	8.11	61	19.1	
45367		11.6	0.026	0.05	0.88	14	<0.05	5.03	57	11.3	
45368		17.7	0.005	0.06	4.84	2	0.79	8.92	21	20.4	
45369		3.1	<0.005	0.02	0.26	4	<0.05	4.29	44	1.2	
45370		0.2	<0.005	<0.02	0.55	2	<0.05	1.11	16	0.5	
42151		1.4	<0.005	<0.02	0.29	4	0.26	1.42	6	<0.5	
42152		18.8	0.066	0.29	0.96	51	0.21	8.85	24	6.2	
42153		6.7	0.312	0.77	0.76	99	0.25	7.55	43	9.7	
42154		2.1	0.030	0.28	0.16	10	0.27	1.03	4	0.8	
42155		22.1	0.069	0.35	1.63	46	0.11	11.70	19	9.1	
42156		1.4	0.392	0.07	0.75	49	0.27	4.17	140	27.1	
42157		6.2	0.041	0.30	0.40	16	0.09	3.56	30	3.9	
42158		6.2	<0.005	0.02	0.22	6	<0.05	1.01	26	1.2	
42159		8.3	<0.005	<0.02	0.27	12	<0.05	1.82	45	2.6	
42160		0.6	<0.005	<0.02	0.29	1	<0.05	0.46	7	<0.5	
42161		0.4	<0.005	<0.02	<0.05	1	<0.05	0.13	3	<0.5	
42162		1.9	<0.005	<0.02	0.85	5	<0.05	3.84	59	3.8	
42163		<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5	
42164		4.6	<0.005	<0.02	0.22	3	<0.05	0.79	10	1.3	
42165		1.6	0.367	0.03	0.55	46	0.10	3.95	37	20.2	
42166		13.4	<0.005	0.02	0.58	8	<0.05	1.66	29	2.1	
42167		1.2	<0.005	<0.02	0.07	1	<0.05	0.44	6	<0.5	
42168		<0.2	<0.005	<0.02	0.67	1	<0.05	0.70	17	<0.5	
42169		4.8	<0.005	<0.02	0.34	1	<0.05	0.76	7	0.8	
42170		1.7	0.363	0.03	0.69	45	0.10	3.86	37	22.3	

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Finalized Date: 17- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP22 Au ppm 0.001	Au- GRA22 Au ppm 0.05	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1
45021		2.52	0.004		0.02	1.74	1.0	<0.2	<10	60	0.47	0.29	0.31	0.04	39.1	4.4
45022		0.42	<0.001		<0.01	0.04	<2	<0.2	<10	20	<0.05	0.03	21.8	0.05	1.35	0.5
45023		2.40	<0.001		0.05	0.31	1.2	<0.2	<10	10	0.08	0.20	0.07	0.01	3.19	3.1
45024		1.94	<0.001		0.02	0.58	3.0	<0.2	<10	10	0.15	0.15	0.13	0.03	16.00	5.3
45025		0.12	0.201		0.01	1.40	0.4	0.2	<10	50	0.71	0.04	0.54	0.02	20.6	16.6
45026		2.44	0.001		0.11	1.19	14.1	<0.2	<10	20	0.16	0.79	3.52	0.09	18.50	11.9
45027		1.40	0.004		0.04	2.76	8.5	<0.2	<10	50	0.41	0.37	0.42	0.04	68.5	8.6
45028		1.76	0.002		0.04	0.24	1.6	<0.2	<10	10	0.10	0.13	0.08	0.01	14.95	6.5
45029		1.76	0.011		0.11	0.88	17.8	<0.2	<10	40	0.20	0.51	0.16	0.03	28.7	3.2
45030		1.84	0.003		0.05	2.32	7.6	<0.2	<10	30	0.27	0.59	0.01	0.02	54.0	6.9
45031		0.46	<0.001		<0.01	0.06	<2	<0.2	<10	50	<0.05	0.03	21.2	0.06	2.00	0.6
45032		1.90	0.001		0.06	2.44	2.2	<0.2	<10	40	0.36	0.40	0.12	0.04	31.2	11.6
45033		1.76	0.001		0.03	0.74	0.8	<0.2	<10	20	0.17	0.12	0.07	0.06	25.1	6.5
45034		1.72	<0.001		0.04	0.20	2.1	<0.2	<10	10	0.07	0.16	0.85	0.07	4.96	4.4
45035		0.12	1.805		0.02	1.46	0.5	1.8	<10	90	0.77	0.03	0.63	0.02	21.9	16.4
45036		1.98	<0.001		0.01	0.18	0.9	<0.2	<10	<10	<0.05	0.04	0.02	0.01	10.40	3.1
45037		2.04	0.002		0.11	2.58	4.7	<0.2	<10	20	0.21	0.43	0.02	0.08	35.0	24.0
45038		2.62	0.001		0.05	2.80	9.0	<0.2	<10	30	0.22	0.29	<0.01	0.13	37.2	22.8
45039		2.04	0.002		0.03	0.82	2.0	<0.2	<10	10	0.10	0.09	0.22	0.02	19.70	5.4
45040		2.60	<0.001		0.01	0.15	1.2	<0.2	<10	<10	0.05	0.03	0.08	0.01	4.68	3.6
45431		1.96	0.007		0.07	0.61	0.7	<0.2	<10	20	0.51	14.05	0.02	0.03	12.60	7.0
45432		2.42	1.305		0.23	0.27	1.7	1.7	<10	10	0.12	281	0.02	0.02	4.38	10.1
45433		2.28	0.040		0.04	1.68	1.1	<0.2	<10	60	0.92	18.05	0.05	0.02	56.2	11.3
45434		2.64	0.006		0.08	4.45	2.4	<0.2	<10	180	0.41	4.86	1.36	0.05	18.85	22.1
45435		0.76	0.001		<0.01	0.05	<2	<0.2	<10	20	<0.05	0.16	20.3	0.05	1.42	1.5
45436		2.26	<0.001		0.01	0.05	0.7	<0.2	<10	<10	<0.05	0.21	0.10	<0.01	1.50	0.4
45437		2.10	0.003		0.16	0.86	6.4	<0.2	<10	<10	0.05	0.57	0.07	0.03	15.20	5.4
45438		2.42	0.001		0.03	0.13	9.1	<0.2	<10	<10	<0.05	0.11	0.01	0.01	2.57	4.9
45439		2.24	<0.001		0.02	0.53	9.1	<0.2	<10	<10	<0.05	0.14	0.09	0.02	8.36	2.2
45440		0.10	1.780		1.27	1.27	118.0	1.7	<10	60	0.58	4.92	0.60	1.05	20.5	17.1
45441		2.34	1.850		0.07	0.23	1790	1.5	<10	20	0.06	0.13	0.02	0.04	15.30	1.2
45442		2.48	0.591		0.03	0.66	988	0.5	<10	10	0.10	0.10	0.07	0.03	35.1	3.2
45443		2.48	0.005		0.02	0.69	18.1	<0.2	<10	20	0.10	0.07	0.01	0.02	31.3	3.3
45444		2.00	>10.0	13.50	0.42	0.13	>10000	12.4	<10	50	0.05	0.38	0.02	0.09	8.31	1.2
45445		0.12	1.785		0.03	1.36	10.6	1.7	<10	80	0.64	0.02	0.60	0.02	20.4	16.0
45446		2.50	0.243		0.02	0.47	796	<0.2	<10	30	0.13	0.05	0.03	0.11	24.4	3.9
45447		2.40	0.100		0.03	0.59	272	<0.2	<10	10	0.12	0.10	0.03	0.01	22.9	2.1
45448		2.44	1.960		0.04	0.14	4010	0.9	<10	280	0.06	0.25	0.01	0.10	7.45	0.7
45449		2.26	1.305		0.07	0.70	5300	1.1	<10	120	0.09	0.86	0.03	0.08	14.00	4.3
45450		0.64	0.010		<0.01	0.02	64	<0.2	<10	40	<0.05	0.03	20.8	0.06	1.39	1.4

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P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method Analyte Units LOR	ME- MS41 Cr ppm 1	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05
45021		57	6.21	4.5	1.64	6.68	0.07	0.25	<0.01	0.010	0.67	20.1	61.1	0.92	156	0.13
45022		<1	0.15	1.1	0.46	0.12	<0.05	<0.02	<0.01	<0.005	0.02	0.6	1.2	12.80	207	0.20
45023		14	0.85	29.6	1.28	1.44	<0.05	<0.02	0.01	0.006	0.06	1.6	11.2	0.18	59	0.26
45024		14	0.15	9.9	1.37	1.54	<0.05	0.08	0.01	0.005	0.05	8.2	16.6	0.21	317	0.21
45025		47	0.16	21.5	2.71	4.87	0.05	0.29	0.01	0.008	0.30	11.1	2.4	1.33	382	1.22
45026		16	0.35	30.4	2.65	3.10	<0.05	0.09	0.01	0.023	0.04	10.9	45.5	0.55	1700	0.29
45027		32	1.07	17.7	4.37	7.01	0.08	0.21	0.01	0.025	0.19	34.7	97.1	1.21	960	0.16
45028		16	0.10	21.9	1.07	0.62	<0.05	0.02	<0.01	0.007	0.02	8.0	7.2	0.08	426	0.41
45029		17	0.73	26.0	5.21	2.91	<0.05	0.12	<0.01	0.018	0.11	15.0	25.1	0.30	234	0.45
45030		36	1.01	33.8	5.29	6.67	0.07	0.31	0.01	0.020	0.11	28.0	74.1	1.04	433	0.58
45031		<1	0.13	1.7	0.52	0.17	<0.05	<0.02	<0.01	<0.005	0.02	1.0	1.7	12.55	209	0.09
45032		37	1.95	48.9	5.14	6.38	<0.05	0.21	0.01	0.017	0.15	15.0	80.8	1.04	448	0.75
45033		18	0.70	14.1	1.69	1.98	<0.05	0.14	0.01	0.006	0.08	14.5	24.8	0.26	556	0.31
45034		18	0.13	7.4	0.77	0.59	<0.05	0.05	0.01	<0.005	0.01	2.8	6.5	0.08	613	0.33
45035		53	0.15	20.5	2.68	4.96	0.06	0.35	0.01	0.006	0.33	11.9	2.4	1.18	420	1.35
45036		10	<0.05	2.5	0.48	0.50	<0.05	0.02	<0.01	<0.005	0.01	3.8	5.2	0.06	219	0.17
45037		46	0.37	40.8	5.01	7.55	0.06	0.25	<0.01	0.017	0.11	16.7	92.5	1.36	533	0.73
45038		48	0.34	64.4	5.54	7.98	0.05	0.17	<0.01	0.016	0.16	18.6	96.7	1.41	689	0.54
45039		22	0.10	7.8	1.73	2.97	<0.05	0.11	0.01	<0.005	0.04	10.9	22.9	0.34	223	0.22
45040		15	0.05	4.5	0.55	0.44	<0.05	0.03	<0.01	<0.005	0.01	2.2	3.2	0.05	141	0.20
45431		51	4.60	195.0	5.91	2.38	0.12	0.17	0.19	0.009	0.08	6.0	7.2	0.04	82	0.79
45432		16	1.65	118.0	2.48	0.90	0.05	0.05	<0.01	0.005	0.12	2.1	3.3	0.13	60	0.50
45433		39	11.75	37.3	3.08	5.65	0.18	0.33	0.01	0.014	0.78	26.7	22.2	0.58	227	0.40
45434		178	20.2	116.0	3.73	11.55	0.22	0.21	0.01	0.027	1.20	8.5	40.0	2.44	293	0.96
45435		<1	0.27	4.8	0.47	0.17	<0.05	<0.02	0.01	<0.005	0.02	0.7	1.2	11.75	187	0.06
45436		17	0.08	3.3	0.39	0.17	<0.05	<0.02	<0.01	<0.005	0.01	0.6	0.6	0.04	95	0.16
45437		23	0.08	6.2	2.03	3.10	0.08	0.10	<0.01	<0.005	0.01	7.1	31.2	0.44	591	0.29
45438		16	<0.05	31.3	1.23	0.38	<0.05	0.02	<0.01	<0.005	0.01	1.0	4.9	0.06	327	0.34
45439		20	0.16	8.1	1.71	1.83	<0.05	0.04	<0.01	<0.005	0.02	4.0	17.9	0.21	476	0.27
45440		47	0.17	98.8	5.18	4.81	0.12	0.39	0.01	0.082	0.31	10.5	2.0	1.36	413	1.40
45441		11	0.13	4.6	0.97	0.76	<0.05	0.06	<0.01	<0.005	0.04	7.0	3.0	0.06	115	0.16
45442		18	0.22	6.0	1.58	2.56	0.06	0.13	<0.01	<0.005	0.07	16.5	18.7	0.26	190	0.25
45443		18	0.21	8.5	1.51	2.42	0.05	0.19	<0.01	<0.005	0.08	13.4	16.6	0.23	190	0.16
45444		15	0.19	3.9	1.76	0.44	<0.05	0.05	0.01	0.010	0.05	3.9	1.1	0.02	78	0.31
45445		52	0.16	20.3	2.63	5.08	0.08	0.34	<0.01	0.008	0.32	10.8	2.1	1.11	395	1.34
45446		14	0.32	6.5	1.24	1.63	0.05	0.15	<0.01	<0.005	0.10	11.5	8.8	0.12	245	0.17
45447		15	0.33	10.4	1.67	2.22	0.05	0.08	<0.01	<0.005	0.07	10.6	16.5	0.23	161	0.27
45448		12	0.13	2.4	0.83	0.48	<0.05	0.03	0.01	<0.005	0.04	3.5	1.3	0.02	65	0.16
45449		15	0.16	16.0	2.23	2.24	0.05	0.06	<0.01	0.008	0.04	6.9	19.4	0.27	175	0.27
45450		<1	0.06	1.3	0.49	0.08	<0.05	<0.02	0.01	<0.005	<0.01	0.7	0.9	12.20	209	0.07

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

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 17- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
45021		0.07	0.33	23.1	300	4.2	77.2	<0.001	0.01	0.11	8.6	0.4	1.2	12.8	<0.01	<0.01
45022		0.01	0.11	1.4	200	1.3	1.1	<0.001	<0.01	0.07	0.2	0.2	<0.2	44.5	<0.01	<0.01
45023		0.01	0.17	5.8	210	1.6	5.3	<0.001	0.02	0.11	0.6	<0.2	0.3	1.5	<0.01	0.04
45024		0.02	0.12	10.6	100	12.8	2.5	<0.001	0.01	0.80	0.6	<0.2	<0.2	5.1	<0.01	<0.01
45025		0.50	2.26	64.0	940	7.4	13.2	<0.001	0.01	0.07	0.8	<0.2	0.7	173.0	0.02	<0.01
45026		0.01	0.10	18.7	170	58.9	2.0	<0.001	0.05	0.60	1.9	0.2	<0.2	36.4	<0.01	0.09
45027		0.04	0.10	21.0	240	9.4	7.9	<0.001	0.18	0.35	3.2	0.3	<0.2	17.6	<0.01	0.06
45028		0.01	0.10	10.3	40	6.3	0.9	<0.001	0.04	0.30	0.3	<0.2	<0.2	3.0	<0.01	0.03
45029		0.03	0.10	6.0	790	65.9	5.2	<0.001	0.35	1.71	1.2	0.3	0.2	11.8	<0.01	0.10
45030		0.03	0.10	12.4	250	19.4	5.0	<0.001	0.49	0.69	2.5	0.2	0.2	6.7	<0.01	0.08
45031		0.01	0.10	1.5	190	1.5	1.0	<0.001	0.01	0.07	0.2	0.3	<0.2	46.1	<0.01	<0.01
45032		0.06	0.10	14.2	930	16.9	6.8	<0.001	0.33	0.34	2.0	0.2	0.2	13.7	<0.01	0.05
45033		0.03	0.12	22.2	180	8.3	3.7	<0.001	0.04	0.21	0.8	<0.2	<0.2	7.5	<0.01	0.01
45034		0.01	0.10	6.7	100	25.6	0.7	<0.001	0.01	0.18	0.3	<0.2	<0.2	21.3	<0.01	0.01
45035		0.50	2.47	60.1	980	5.5	13.0	<0.001	0.01	0.07	1.0	0.3	0.8	192.0	0.03	<0.01
45036		0.01	0.13	6.7	50	6.4	0.5	<0.001	0.01	0.07	0.2	<0.2	<0.2	1.3	<0.01	<0.01
45037		0.02	0.10	39.6	300	41.6	4.4	<0.001	0.86	0.75	1.9	0.4	<0.2	12.2	<0.01	0.04
45038		0.02	0.09	38.4	90	25.3	6.2	<0.001	1.54	0.95	2.0	0.2	0.2	5.3	<0.01	0.02
45039		0.02	0.11	15.2	130	10.2	1.5	<0.001	0.03	0.13	1.0	0.2	<0.2	8.8	<0.01	<0.01
45040		0.01	0.12	5.4	140	1.5	0.5	<0.001	0.01	0.09	0.2	<0.2	<0.2	3.7	<0.01	<0.01
45431		<0.01	0.11	11.6	110	3.3	10.0	<0.001	0.02	0.11	6.2	0.7	1.2	17.9	<0.01	0.02
45432		0.01	0.13	10.7	100	3.7	14.4	<0.001	0.03	0.16	1.0	1.0	0.2	5.0	<0.01	28.0
45433		0.02	0.64	30.3	220	2.1	90.3	<0.001	0.01	0.29	5.8	0.4	0.9	34.2	<0.01	3.21
45434		0.38	0.30	68.0	460	7.3	108.0	<0.001	0.55	0.22	6.1	0.7	7.1	113.0	<0.01	0.08
45435		<0.01	0.22	3.4	180	1.6	1.3	<0.001	0.01	<0.05	0.4	0.2	<0.2	46.1	<0.01	0.02
45436		<0.01	0.08	1.7	220	1.2	0.5	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	6.2	<0.01	0.02
45437		0.01	<0.05	9.0	80	81.2	0.4	<0.001	<0.01	0.08	1.0	<0.2	<0.2	3.0	<0.01	0.09
45438		<0.01	0.07	6.3	50	6.1	0.5	<0.001	0.11	0.34	0.3	0.2	<0.2	1.3	<0.01	0.03
45439		0.01	<0.05	7.7	120	16.3	0.8	<0.001	<0.01	0.09	1.0	<0.2	<0.2	3.5	<0.01	0.01
45440		0.50	3.64	65.8	950	48.5	13.7	0.002	3.00	1.04	1.7	2.7	1.2	147.5	0.05	1.08
45441		0.01	0.05	3.9	60	6.9	1.9	<0.001	0.07	1.27	0.4	<0.2	<0.2	9.3	<0.01	0.02
45442		0.01	<0.05	7.9	100	5.7	3.1	<0.001	0.05	0.76	0.7	<0.2	<0.2	9.7	<0.01	0.04
45443		0.02	0.05	9.6	100	8.0	3.3	<0.001	<0.01	0.18	0.8	<0.2	<0.2	2.9	<0.01	0.01
45444		0.01	<0.05	4.6	60	27.2	2.8	<0.001	0.56	9.47	0.3	0.6	<0.2	20.7	<0.01	0.13
45445		0.47	2.49	58.6	970	5.1	12.7	<0.001	0.01	0.10	1.4	0.3	0.7	186.0	0.03	0.01
45446		0.02	<0.05	9.3	90	9.8	4.1	<0.001	0.02	0.87	0.8	<0.2	<0.2	4.4	<0.01	0.01
45447		0.01	0.05	5.9	120	9.8	3.2	<0.001	0.07	0.31	0.7	<0.2	<0.2	5.0	<0.01	0.02
45448		0.01	0.06	2.2	30	7.4	2.2	<0.001	0.07	2.05	0.3	<0.2	<0.2	6.8	<0.01	0.05
45449		0.01	0.05	13.8	120	20.2	2.1	<0.001	0.16	3.27	0.8	0.2	<0.2	17.0	<0.01	0.30
45450		<0.01	0.21	2.9	170	1.7	0.3	<0.001	0.01	0.05	0.3	0.2	<0.2	51.8	<0.01	0.02

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

ALS Canada Ltd.
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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 17- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200373

Sample Description	Method Analyte Units LOR	ME- MS41 Th ppm 0.2	ME- MS41 Ti % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	As- OG46 As % 0.01
45021		20.4	0.090	0.39	1.06	48	0.18	6.94	23	7.4	
45022		0.2	<0.005	<0.02	0.75	1	<0.05	0.86	15	<0.5	
45023		0.4	<0.005	0.03	0.23	4	<0.05	1.12	6	<0.5	
45024		3.2	<0.005	<0.02	0.26	4	<0.05	1.83	22	2.6	
45025		1.6	0.364	0.04	0.56	45	0.14	3.66	37	19.6	
45026		4.9	<0.005	<0.02	0.67	7	<0.05	5.75	59	3.6	
45027		18.1	<0.005	0.05	1.23	15	<0.05	4.08	97	7.9	
45028		1.4	<0.005	<0.02	0.27	1	<0.05	1.69	21	1.0	
45029		6.4	<0.005	0.03	0.76	6	<0.05	1.86	41	5.1	
45030		15.8	<0.005	0.04	1.06	14	<0.05	2.50	74	10.5	
45031		0.2	<0.005	<0.02	0.73	1	<0.05	0.82	16	<0.5	
45032		18.0	<0.005	0.04	2.68	14	<0.05	3.20	81	8.4	
45033		4.9	<0.005	0.02	1.05	4	<0.05	3.73	38	4.9	
45034		1.1	<0.005	<0.02	0.39	1	<0.05	2.43	15	2.2	
45035		1.7	0.364	0.03	0.65	45	0.11	3.72	37	23.3	
45036		1.4	<0.005	<0.02	0.22	1	<0.05	0.76	8	0.8	
45037		8.8	<0.005	0.02	1.67	18	<0.05	2.03	103	8.8	
45038		6.1	<0.005	0.04	1.15	20	<0.05	1.74	132	6.7	
45039		6.0	<0.005	<0.02	0.51	8	<0.05	2.18	30	4.1	
45040		1.2	<0.005	<0.02	0.18	1	<0.05	0.61	8	1.2	
45431		2.5	<0.005	0.33	0.33	45	0.11	2.23	15	7.7	
45432		0.9	0.007	0.10	0.39	7	0.09	0.90	4	1.6	
45433		10.9	0.096	0.71	0.99	34	0.13	7.37	20	14.8	
45434		3.6	0.225	1.14	0.52	101	0.25	7.07	55	6.9	
45435		<0.2	<0.005	<0.02	0.72	2	<0.05	0.80	16	<0.5	
45436		0.3	<0.005	<0.02	0.08	1	<0.05	0.42	<2	<0.5	
45437		4.2	<0.005	<0.02	0.38	6	<0.05	0.89	39	3.2	
45438		0.5	<0.005	<0.02	0.33	1	<0.05	0.42	5	0.9	
45439		2.1	<0.005	<0.02	0.40	4	<0.05	0.85	27	1.6	
45440		1.3	0.374	0.07	0.69	47	0.22	3.85	142	24.0	
45441		5.1	<0.005	<0.02	0.48	2	0.06	1.00	11	2.5	
45442		13.8	<0.005	0.02	0.79	5	0.07	2.08	24	4.9	
45443		9.3	<0.005	0.02	0.52	5	<0.05	1.53	28	7.7	
45444		3.0	<0.005	0.02	0.39	1	0.07	0.99	5	2.2	1.30
45445		1.4	0.352	0.03	0.59	43	0.11	3.60	38	23.4	
45446		8.0	<0.005	0.03	0.92	3	0.06	1.71	23	5.9	
45447		8.3	<0.005	0.02	0.72	4	<0.05	1.18	23	3.2	
45448		2.1	<0.005	0.03	0.30	1	<0.05	0.88	5	1.0	
45449		4.3	<0.005	0.02	0.87	5	<0.05	1.33	33	2.4	
45450		<0.2	<0.005	<0.02	0.68	1	<0.05	0.69	17	<0.5	

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

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Finalized Date: 17- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12200373

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.
ME- MS41	Interference: Samples with Ca> 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL)
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

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713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 21- SEP- 2012
Account: RYGCOR

CERTIFICATE WH12202828

Project: Cantung (CanEast- Elf)
P.O. No.: CT12- 003
This report is for 78 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29- AUG- 2012.
The following have access to data associated with this certificate:

ANDY RANDELL	CARRIE WONG	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES
As- OG46	Ore Grade As - Aqua Regia	VARIABLE
ME- MS41	51 anal. aqua regia ICPMS	
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES

To: RYAN GOLD CORP.
ATTN: ANDY RANDELL
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

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.

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

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description / Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP22 Au ppm 0.001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
45461	2.42	0.002	0.02	0.38	12.9	<0.2	<10	10	0.07	0.09	0.07	0.02	16.15	2.3	15
45462	2.34	<0.001	0.02	0.39	6.2	<0.2	<10	10	0.08	0.09	0.32	0.01	18.80	2.7	15
45463	2.40	0.001	0.02	0.59	1.3	<0.2	<10	10	0.08	0.07	0.02	0.01	23.0	2.2	17
45464	2.04	0.001	<0.01	0.07	3.7	<0.2	<10	<10	<0.05	0.03	<0.01	0.01	2.70	0.8	11
45465	0.10	NSS	1.18	1.32	118.5	1.9	<10	60	0.73	4.66	0.61	0.95	18.45	18.4	43
45466	1.58	0.001	0.02	0.30	3.8	<0.2	<10	10	0.05	0.06	0.02	<0.01	15.40	2.6	19
45467	2.44	0.001	0.02	0.17	4.0	<0.2	<10	<10	0.15	0.08	0.53	0.03	15.25	17.8	17
45468	1.98	0.046	0.05	1.04	83.1	<0.2	<10	10	0.22	0.22	0.11	0.04	22.4	5.6	16
45469	0.50	0.001	<0.01	0.02	4	<0.2	<10	20	<0.05	0.01	21.5	0.05	1.02	1.2	<1
45470	1.72	0.003	0.03	0.39	8.9	<0.2	<10	10	0.18	0.68	0.07	0.01	9.19	1.1	14
45471	1.66	0.001	0.02	1.10	25.4	<0.2	<10	30	0.50	0.07	0.05	0.01	45.7	6.7	14
45472	1.90	0.004	0.07	0.91	11.6	<0.2	<10	30	0.21	0.51	0.20	0.01	46.9	2.3	17
45473	1.64	0.001	0.01	0.07	1.0	<0.2	<10	<10	<0.05	0.01	0.01	<0.01	2.99	3.0	21
45474	2.12	0.008	0.02	0.95	330	<0.2	<10	20	0.20	0.05	0.01	0.06	32.8	1.8	15
45475	2.02	0.072	0.03	0.66	8.4	<0.2	<10	10	0.11	0.07	0.05	0.06	26.4	7.8	16
45476	0.10	NSS	1.18	1.37	119.0	1.9	<10	60	0.76	4.57	0.64	1.08	19.60	18.6	44
45477	1.76	0.014	0.02	0.19	24.6	<0.2	<10	<10	0.08	0.04	0.01	0.01	5.12	4.3	16
45478	2.46	0.001	0.06	2.14	29.6	<0.2	<10	40	0.29	0.10	0.01	0.03	24.0	6.8	30
45479	2.00	0.001	0.04	1.60	7.6	<0.2	<10	20	0.27	0.19	0.46	0.02	29.5	8.7	20
45480	0.76	0.001	0.01	0.03	<2	<0.2	<10	30	0.05	0.02	21.6	0.05	1.08	1.2	<1
45371	2.44	0.001	0.05	2.46	3.3	<0.2	<10	50	0.33	0.17	0.13	0.01	46.9	10.6	31
45372	2.20	0.001	0.06	0.82	10.0	<0.2	<10	20	0.20	0.20	0.07	0.05	21.9	9.7	15
45373	2.26	0.037	0.16	0.71	286	<0.2	<10	20	0.17	0.34	0.01	0.02	22.6	2.7	14
45374	2.48	0.210	0.07	1.25	477	0.2	<10	20	0.29	0.14	<0.01	0.07	32.1	5.5	12
45375	0.10	NSS	1.24	1.43	124.0	2.4	<10	60	0.56	4.69	0.67	0.94	17.50	18.8	47
45376	2.12	0.001	0.01	0.09	2.5	<0.2	<10	<10	<0.05	0.13	0.06	0.01	1.56	0.7	12
45377	2.38	0.024	0.03	0.72	172.5	<0.2	<10	20	0.09	0.07	0.09	0.06	19.25	4.8	18
45378	2.10	0.492	0.15	0.94	1205	1.5	<10	30	0.25	0.26	0.01	0.05	35.3	3.3	13
45379	2.20	0.002	0.01	0.21	9.5	<0.2	<10	<10	<0.05	0.05	<0.01	<0.01	7.63	0.8	18
45380	2.40	0.001	0.11	3.06	3.4	<0.2	<10	20	0.22	0.28	0.01	0.04	31.6	16.4	47
45041	2.14	0.001	0.05	0.42	2.6	<0.2	<10	10	0.07	0.22	0.13	0.01	17.60	2.9	15
45042	2.06	0.003	0.08	0.35	3.0	<0.2	<10	10	0.12	0.15	0.03	0.02	12.40	2.2	14
45043	1.90	0.001	0.01	0.16	3.0	<0.2	<10	<10	<0.05	0.01	0.01	0.01	3.33	3.6	16
45044	0.10	NSS	1.11	1.32	116.0	2.3	<10	60	0.54	4.21	0.62	1.03	17.60	18.4	44
45045	1.68	0.229	0.05	0.97	1775	<0.2	<10	40	0.19	0.08	0.06	0.05	16.05	8.8	18
45046	1.68	0.083	0.05	0.44	17.8	<0.2	<10	10	0.10	0.23	0.06	0.01	10.00	7.4	17
45047	2.50	<0.001	0.01	0.05	2.5	<0.2	<10	<10	<0.05	0.01	0.01	<0.01	1.05	1.4	15
45048	2.04	0.001	0.01	0.14	0.8	<0.2	<10	<10	<0.05	0.11	0.01	<0.01	0.45	0.8	23
45049	2.08	0.003	0.02	0.35	8.6	<0.2	<10	10	0.05	0.08	<0.01	0.01	18.55	2.8	11
45050	2.02	<0.001	0.04	1.58	2.6	<0.2	<10	20	0.15	0.13	0.58	0.02	25.7	7.3	25

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

ALS Canada Ltd.
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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
45461		0.19	5.1	1.22	1.34	<0.05	0.07	<0.01	<0.005	0.05	7.6	9.1	0.11	150	0.26	0.03
45462		0.20	4.7	0.99	1.40	0.05	0.04	<0.01	<0.005	0.05	8.7	11.6	0.13	123	0.16	0.02
45463		0.17	6.1	1.43	2.05	0.06	0.07	<0.01	<0.005	0.07	10.7	15.0	0.19	97	0.24	0.03
45464		<0.05	12.1	0.58	0.24	<0.05	<0.02	<0.01	<0.005	0.01	1.5	2.0	0.02	55	0.24	0.01
45465		0.15	94.8	5.28	5.09	0.16	0.36	0.01	0.069	0.32	10.0	2.1	1.38	393	1.52	0.51
45466		0.16	6.4	1.10	0.99	0.05	0.06	<0.01	<0.005	0.04	8.5	8.3	0.10	95	0.34	0.01
45467		<0.05	10.3	0.70	0.52	0.05	0.02	<0.01	0.007	<0.01	6.6	8.7	0.06	598	0.25	0.01
45468		0.68	20.3	2.32	3.07	0.07	0.06	<0.01	0.007	0.06	12.0	23.9	0.36	198	0.33	0.01
45469		0.10	1.4	0.41	0.13	0.05	<0.02	<0.01	<0.005	0.01	0.5	1.1	12.35	178	0.05	0.01
45470		0.12	9.3	1.20	1.18	<0.05	0.03	<0.01	0.008	0.05	5.7	13.1	0.15	96	0.30	0.01
45471		0.23	25.2	1.98	2.88	0.10	0.13	<0.01	0.006	0.11	23.2	30.5	0.36	328	0.27	0.01
45472		0.24	10.9	1.96	2.86	0.09	0.07	<0.01	0.005	0.11	24.9	29.5	0.31	228	0.29	0.01
45473		<0.05	2.3	0.58	0.22	<0.05	<0.02	<0.01	<0.005	<0.01	1.5	1.4	0.02	63	0.27	0.01
45474		0.19	9.6	2.09	3.00	0.08	0.05	<0.01	0.005	0.10	15.7	24.6	0.35	296	0.24	0.02
45475		0.08	4.9	1.44	2.39	0.06	0.05	<0.01	<0.005	0.03	13.2	18.9	0.26	430	0.17	0.02
45476		0.16	99.9	5.31	5.29	0.16	0.37	0.01	0.076	0.32	10.7	2.3	1.42	398	1.56	0.53
45477		<0.05	4.2	1.33	0.71	<0.05	<0.02	<0.01	<0.005	0.01	2.2	4.8	0.07	275	0.25	0.01
45478		0.27	26.1	3.92	6.02	0.09	0.05	<0.01	0.010	0.15	11.1	73.1	0.95	594	0.47	0.02
45479		0.23	16.1	3.20	4.64	0.10	0.22	<0.01	0.010	0.11	15.2	56.2	0.73	1860	0.16	0.03
45480		0.12	2.3	0.49	0.15	0.05	<0.02	<0.01	<0.005	0.01	0.5	1.3	12.25	212	<0.05	0.01
45371		0.70	19.1	4.64	6.84	0.10	0.26	0.01	0.013	0.24	22.1	60.5	0.96	415	0.34	0.01
45372		0.20	12.5	2.61	2.30	<0.05	0.11	0.01	0.007	0.06	10.9	17.4	0.28	455	0.29	0.01
45373		0.34	17.5	3.18	2.29	0.05	0.17	<0.01	0.005	0.12	12.0	9.8	0.17	104	0.30	0.02
45374		0.31	19.5	2.69	2.71	<0.05	0.09	<0.01	0.010	0.10	15.8	11.8	0.24	253	0.26	0.01
45375		0.15	99.5	5.37	5.46	0.13	0.42	0.01	0.072	0.33	9.6	1.6	1.46	427	1.37	0.55
45376		<0.05	4.3	0.60	0.35	<0.05	<0.02	<0.01	<0.005	<0.01	0.8	2.2	0.03	71	0.19	<0.01
45377		0.22	6.7	1.96	2.37	<0.05	0.07	<0.01	0.007	0.05	10.0	15.0	0.28	523	0.16	0.02
45378		0.54	25.5	2.78	2.93	0.06	0.12	<0.01	0.009	0.15	18.2	13.0	0.28	177	0.35	0.02
45379		0.08	3.1	0.64	0.70	<0.05	0.02	<0.01	<0.005	0.02	3.6	3.6	0.06	94	0.22	0.01
45380		0.47	29.2	6.22	11.55	0.11	0.15	<0.01	0.022	0.10	15.0	101.5	1.49	470	0.53	0.03
45041		0.16	12.6	1.30	1.56	<0.05	0.12	<0.01	<0.005	0.06	8.4	7.4	0.14	161	0.24	0.02
45042		0.26	7.7	1.20	1.09	<0.05	0.12	0.01	0.007	0.07	7.3	8.7	0.16	211	0.57	0.01
45043		<0.05	1.6	0.50	0.50	<0.05	<0.02	<0.01	<0.005	0.01	1.6	3.3	0.05	109	0.18	<0.01
45044		0.15	98.6	4.97	5.44	0.14	0.40	0.01	0.072	0.31	9.6	1.6	1.37	399	1.34	0.51
45045		0.43	28.5	2.64	2.85	<0.05	0.05	<0.01	0.010	0.22	7.7	18.0	0.40	136	0.31	0.02
45046		0.14	14.7	1.18	1.22	<0.05	0.05	<0.01	<0.005	0.03	4.4	11.1	0.17	149	0.31	0.01
45047		<0.05	1.9	0.61	0.23	<0.05	<0.02	<0.01	<0.005	0.01	0.5	0.8	0.02	103	0.20	<0.01
45048		<0.05	1.5	0.54	0.49	<0.05	<0.02	<0.01	<0.005	<0.01	0.2	3.6	0.06	82	0.21	<0.01
45049		0.21	6.2	0.91	1.20	<0.05	0.06	<0.01	<0.005	0.05	8.7	4.7	0.08	240	0.19	0.01
45050		0.34	8.2	3.30	4.99	0.06	0.29	<0.01	0.008	0.09	13.4	40.9	0.71	2100	0.12	0.02

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

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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 21- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
45461		<0.05	7.1	120	8.3	2.3	<0.001	0.02	0.14	0.5	<0.2	<0.2	4.2	<0.01	0.01	4.7
45462		<0.05	6.7	110	10.3	2.1	<0.001	0.02	0.10	0.6	<0.2	<0.2	14.1	<0.01	0.01	5.0
45463		<0.05	6.3	90	6.0	3.0	<0.001	0.02	0.07	0.7	<0.2	<0.2	6.3	<0.01	0.01	5.7
45464		<0.05	2.5	10	2.3	0.4	<0.001	<0.01	0.09	0.1	<0.2	<0.2	0.4	<0.01	0.01	0.3
45465		4.43	70.8	920	51.6	14.1	0.001	3.00	0.89	1.8	3.3	0.9	152.0	0.06	0.73	1.5
45466		0.05	8.1	110	4.3	1.9	<0.001	0.01	0.18	0.5	<0.2	<0.2	2.2	<0.01	0.01	1.9
45467		<0.05	38.5	20	8.0	0.2	<0.001	0.01	0.22	0.4	0.2	<0.2	10.2	<0.01	0.02	1.1
45468		<0.05	17.3	340	18.3	3.0	<0.001	0.01	0.24	1.6	0.2	<0.2	6.3	<0.01	0.03	5.8
45469		0.18	2.0	190	1.4	0.7	<0.001	<0.01	<0.05	0.3	0.4	<0.2	52.4	<0.01	0.01	<0.2
45470		<0.05	5.3	150	44.2	2.6	<0.001	0.01	0.16	0.6	<0.2	<0.2	5.5	<0.01	0.11	2.3
45471		<0.05	31.1	100	9.1	5.1	<0.001	0.01	0.10	1.0	0.3	<0.2	2.8	<0.01	0.01	8.3
45472		<0.05	8.3	1010	47.0	4.9	<0.001	0.01	0.07	1.1	0.3	<0.2	14.4	<0.01	0.12	7.3
45473		<0.05	9.1	20	2.1	0.3	<0.001	0.01	<0.05	0.2	<0.2	<0.2	0.4	<0.01	<0.01	0.5
45474		<0.05	7.1	120	8.5	4.8	<0.001	0.01	0.20	1.0	0.2	<0.2	3.4	<0.01	0.01	8.3
45475		<0.05	17.8	60	12.3	1.7	<0.001	0.01	0.07	1.0	0.2	<0.2	2.7	<0.01	0.02	5.7
45476		4.55	71.4	930	53.6	14.7	0.001	3.05	1.00	1.9	3.0	1.1	159.5	0.07	0.88	1.5
45477		0.07	10.0	40	4.7	0.7	<0.001	0.01	0.06	0.4	<0.2	<0.2	0.8	<0.01	0.01	1.5
45478		0.12	14.4	160	5.4	6.5	<0.001	0.10	0.09	2.2	0.3	<0.2	4.8	0.01	0.03	12.4
45479		0.05	27.0	150	8.4	4.5	<0.001	<0.01	0.08	2.0	<0.2	<0.2	15.1	<0.01	0.02	7.4
45480		0.16	2.3	190	1.4	0.7	<0.001	0.02	<0.05	0.4	0.4	<0.2	51.3	<0.01	<0.01	<0.2
45371		0.12	19.1	440	12.7	10.5	<0.001	0.06	0.10	2.5	0.2	0.2	10.5	<0.01	0.01	14.2
45372		0.05	19.9	260	23.1	3.1	<0.001	0.02	0.29	1.5	<0.2	<0.2	5.5	<0.01	0.01	5.6
45373		0.06	6.7	240	100.0	5.5	<0.001	0.10	0.53	1.1	0.3	<0.2	17.1	<0.01	0.03	6.4
45374		0.05	15.5	230	20.0	4.8	<0.001	0.01	0.53	1.4	0.2	<0.2	3.0	<0.01	0.01	6.9
45375		4.31	68.8	980	48.7	14.7	0.002	3.22	0.93	1.8	3.3	1.0	158.0	0.06	0.82	2.0
45376		0.05	3.4	270	8.3	0.2	<0.001	0.01	0.08	0.2	<0.2	<0.2	2.7	<0.01	0.01	0.4
45377		0.06	12.5	130	9.7	2.7	<0.001	0.01	0.20	1.5	<0.2	<0.2	2.6	<0.01	0.01	5.2
45378		0.07	9.4	140	19.8	7.5	<0.001	0.05	0.77	1.2	0.2	<0.2	3.4	<0.01	0.03	13.0
45379		<0.05	2.9	30	6.4	1.1	<0.001	0.01	<0.05	0.3	<0.2	<0.2	0.7	<0.01	<0.01	2.0
45380		0.09	23.8	160	88.9	5.5	<0.001	0.71	0.49	4.1	0.3	<0.2	3.8	<0.01	0.04	12.0
45041		<0.05	5.0	80	24.7	2.5	<0.001	0.07	0.11	0.7	<0.2	<0.2	5.6	<0.01	0.02	5.2
45042		<0.05	5.1	190	34.0	3.1	<0.001	0.02	0.47	0.6	0.2	<0.2	4.1	<0.01	0.02	2.5
45043		<0.05	8.2	50	1.5	0.8	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	0.8	<0.01	<0.01	0.9
45044		4.03	67.1	920	45.0	14.3	0.001	2.94	0.89	1.9	3.1	1.0	150.0	0.06	0.73	1.5
45045		0.06	19.9	380	5.3	9.2	<0.001	0.60	0.62	1.2	0.3	<0.2	8.9	<0.01	0.04	12.6
45046		<0.05	15.5	270	15.7	1.7	<0.001	0.01	0.09	0.7	<0.2	<0.2	3.4	<0.01	0.04	2.8
45047		<0.05	2.1	20	1.0	0.2	<0.001	0.01	<0.05	0.1	<0.2	<0.2	0.6	<0.01	<0.01	0.3
45048		<0.05	2.6	30	0.9	0.1	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	0.3	<0.01	0.01	0.2
45049		<0.05	4.7	60	7.5	2.3	<0.001	<0.01	0.10	0.4	<0.2	<0.2	1.8	<0.01	0.01	5.3
45050		0.09	19.5	110	12.2	4.3	<0.001	0.02	0.11	1.9	<0.2	<0.2	17.8	<0.01	0.01	7.8

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

ALS Canada Ltd.
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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 21- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	As- OG46
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	As
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
45461		<0.005	<0.02	0.22	3	<0.05	1.02	12	2.9	
45462		<0.005	<0.02	0.20	3	<0.05	1.05	13	1.8	
45463		<0.005	0.02	0.91	5	<0.05	0.80	19	3.0	
45464		<0.005	<0.02	0.26	1	<0.05	0.19	4	<0.5	
45465		0.364	0.07	0.76	44	0.20	4.10	129	28.3	
45466		<0.005	<0.02	0.40	2	<0.05	0.65	13	2.5	
45467		<0.005	<0.02	0.97	1	<0.05	3.46	27	1.4	
45468		<0.005	0.02	1.39	6	0.11	1.98	42	2.5	
45469		<0.005	<0.02	0.96	1	<0.05	0.86	15	<0.5	
45470		<0.005	<0.02	1.08	2	<0.05	0.84	13	1.2	
45471		<0.005	0.03	1.22	5	<0.05	5.46	44	5.3	
45472		<0.005	0.03	1.11	5	0.25	3.30	30	3.1	
45473		<0.005	<0.02	0.29	1	<0.05	0.82	12	<0.5	
45474		<0.005	0.03	1.07	6	0.16	1.84	33	2.4	
45475		<0.005	<0.02	0.37	5	<0.05	3.41	30	1.8	
45476		0.372	0.07	0.79	45	0.28	4.34	137	29.9	
45477		<0.005	<0.02	0.32	1	<0.05	2.13	16	<0.5	
45478		<0.005	0.04	1.52	13	0.06	5.12	71	2.2	
45479		<0.005	0.03	0.69	10	<0.05	2.19	54	8.6	
45480		<0.005	<0.02	0.62	1	<0.05	0.89	14	<0.5	
45371		0.008	0.05	0.72	16	<0.05	3.88	68	11.8	
45372		<0.005	0.02	1.05	7	<0.05	2.21	52	4.3	
45373		<0.005	0.03	1.00	5	<0.05	1.95	21	6.7	
45374		<0.005	0.03	1.82	7	0.05	1.74	52	3.4	
45375		0.386	0.06	0.78	49	0.27	4.37	133	29.7	
45376		<0.005	<0.02	0.15	1	<0.05	0.50	6	<0.5	
45377		<0.005	<0.02	0.24	5	<0.05	1.75	36	2.5	
45378		<0.005	0.04	1.80	6	0.05	1.89	35	5.4	
45379		<0.005	<0.02	0.13	2	<0.05	0.38	6	0.9	
45380		0.005	0.03	1.43	27	<0.05	1.97	125	5.3	
45041		<0.005	<0.02	0.65	4	<0.05	1.07	11	4.8	
45042		<0.005	0.02	0.44	3	<0.05	1.32	21	4.9	
45043		<0.005	<0.02	0.10	1	<0.05	0.32	9	0.6	
45044		0.360	0.07	0.76	45	0.22	4.20	135	29.0	
45045		<0.005	0.05	0.84	7	0.13	2.12	40	2.4	
45046		<0.005	<0.02	0.69	3	<0.05	2.09	25	2.0	
45047		<0.005	<0.02	0.09	1	<0.05	0.10	2	<0.5	
45048		<0.005	<0.02	<0.05	1	<0.05	0.13	5	<0.5	
45049		<0.005	<0.02	0.60	3	<0.05	0.98	13	2.1	
45050		<0.005	0.02	0.70	12	<0.05	2.91	62	10.9	

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

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To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 21- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description	Method	WEI- 21	Au- ICP22	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
42171		1.88	0.013	0.12	1.90	14.3	<0.2	<10	40	0.40	0.52	0.02	0.05	63.6	8.8	23
42172		1.94	0.002	0.03	0.77	4.1	<0.2	<10	10	0.12	0.07	1.19	0.06	23.5	3.7	19
42173		2.06	0.087	0.03	1.24	231	<0.2	<10	30	0.20	0.11	0.03	0.01	41.3	3.6	18
42174		1.90	0.062	0.05	0.29	254	0.2	<10	10	0.06	0.09	0.17	0.02	11.55	2.2	11
42175		3.22	0.045	0.03	0.51	111.5	<0.2	<10	10	0.08	0.05	0.01	0.01	20.6	2.2	14
42176		2.82	0.003	<0.01	0.10	12.6	<0.2	<10	<10	<0.05	0.01	0.01	0.01	2.41	0.9	9
42177		2.98	0.154	0.02	0.33	52.4	<0.2	<10	<10	<0.05	0.04	0.08	0.01	5.29	1.1	14
42178		0.78	0.001	<0.01	0.02	<2	<0.2	<10	10	<0.05	0.02	19.70	0.05	0.93	1.5	<1
42179		2.06	0.001	0.03	1.41	0.7	<0.2	<10	10	0.06	0.04	0.59	0.07	21.7	10.9	28
42180		1.48	0.001	0.03	0.41	5.2	<0.2	<10	10	0.07	0.18	0.07	0.01	8.53	1.3	16
45381		2.60	0.001	0.23	2.62	1.7	<0.2	<10	20	0.17	0.70	0.03	0.02	18.60	10.3	40
45382		2.46	0.014	0.69	1.79	5.7	<0.2	<10	20	0.29	4.15	0.01	0.01	15.45	3.9	27
45383		2.42	0.249	0.07	0.60	1080	0.3	<10	20	0.15	0.14	0.02	0.07	24.5	2.7	15
45384		2.30	0.199	0.17	0.38	1775	0.2	<10	20	0.16	0.99	0.01	0.02	14.80	1.0	19
45385		0.12	0.198	0.05	1.38	3.6	0.3	<10	50	0.62	0.02	0.60	0.02	18.40	18.0	46
45386		2.68	0.003	0.03	0.61	18	<0.2	<10	20	0.22	0.15	>25.0	0.14	19.55	12.8	1
45387		2.16	0.749	0.40	0.20	790	0.4	<10	10	0.07	0.96	0.34	0.04	12.40	2.9	14
45388		2.56	2.23	0.18	0.21	>10000	2.1	<10	10	0.06	1.44	0.11	0.02	9.93	1.4	10
45389		2.88	0.006	0.07	0.16	37.2	<0.2	<10	<10	0.07	0.09	<0.01	<0.01	8.01	0.5	15
45390		2.78	0.007	0.04	2.14	22.0	<0.2	<10	20	0.10	0.12	0.03	0.03	11.25	5.5	30
45391		2.46	0.002	0.03	2.24	6.0	<0.2	<10	30	0.14	0.10	0.03	0.02	13.35	9.2	28
45392		2.32	0.005	0.28	0.47	166.0	<0.2	<10	10	0.09	0.54	0.03	0.14	5.99	2.4	17
45393		2.04	0.001	0.03	0.61	11.0	<0.2	<10	10	0.14	0.07	0.13	0.01	25.0	2.8	24
45394		0.10	0.668	0.88	1.34	60.2	0.9	<10	60	0.57	14.20	0.59	0.62	19.55	17.3	41
42181		1.88	0.002	0.04	2.42	5.5	<0.2	<10	30	0.22	0.20	0.24	0.02	35.2	13.0	22
42182		1.42	0.001	0.03	1.39	4.2	<0.2	<10	20	0.16	0.16	0.08	0.04	20.7	8.9	26
42183		1.66	2.38	0.45	3.42	324	4.4	<10	40	0.33	1.40	0.06	0.05	21.7	7.2	17
42184		1.72	0.009	0.23	1.56	10.5	<0.2	<10	50	0.41	6.66	0.01	0.03	36.0	7.7	50
42185		1.82	0.065	0.17	0.81	10.9	<0.2	<10	30	0.22	0.66	0.07	0.07	29.7	2.7	11
42186		0.10	1.740	1.20	1.39	115.0	1.9	<10	60	0.63	3.97	0.62	1.06	20.4	18.1	45
42187		1.90	0.007	0.02	1.53	19.7	<0.2	<10	20	0.30	0.13	0.07	0.04	29.3	8.0	20
45481		1.94	0.001	0.01	1.36	3.9	<0.2	<10	70	0.41	0.20	4.44	0.38	59.1	11.5	13
45482		2.52	0.005	0.03	0.64	56.5	<0.2	<10	20	0.19	0.04	0.05	0.01	16.85	1.9	11
45483		2.06	0.003	0.02	0.22	44.9	<0.2	<10	<10	0.06	0.06	0.01	0.01	6.66	0.6	13
45484		2.22	0.001	0.04	0.56	212	<0.2	<10	10	0.13	0.04	0.01	0.01	17.55	1.2	15
45485		2.44	0.002	0.04	1.03	55.5	<0.2	<10	20	0.17	0.06	<0.01	<0.01	23.5	0.5	18
45486		0.10	1.770	1.31	1.38	118.5	2.0	<10	60	0.61	4.32	0.63	1.10	21.0	18.5	45
45487		2.10	0.004	0.05	1.67	215	<0.2	<10	30	0.30	0.08	0.01	0.07	39.3	4.6	23

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

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To: RYAN GOLD CORP.
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DAWSON CITY YT Y0B 1G0

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
42171		0.72	43.6	4.02	5.42	0.13	0.22	0.01	0.023	0.21	32.0	55.5	0.99	393	0.89	0.02
42172		0.17	6.3	2.29	2.70	<0.05	0.04	0.01	0.012	0.06	12.8	21.5	0.40	1120	0.24	0.04
42173		0.30	10.2	2.39	4.22	0.07	0.11	<0.01	0.006	0.16	20.9	28.0	0.48	281	0.25	0.02
42174		0.07	2.4	0.98	0.91	<0.05	0.03	<0.01	<0.005	0.02	6.5	5.5	0.11	347	0.15	0.02
42175		0.22	6.5	1.66	1.88	<0.05	0.03	<0.01	<0.005	0.08	9.8	8.9	0.18	194	0.20	0.02
42176		<0.05	1.5	0.38	0.34	<0.05	<0.02	<0.01	<0.005	0.01	1.3	2.2	0.04	92	0.14	<0.01
42177		0.05	12.9	1.09	1.17	<0.05	<0.02	<0.01	<0.005	0.02	2.8	9.4	0.15	138	0.17	0.01
42178		0.08	1.8	0.46	0.13	<0.05	<0.02	0.01	<0.005	0.01	0.5	0.7	12.00	184	<0.05	0.01
42179		0.16	4.2	2.65	5.35	<0.05	0.09	<0.01	0.010	0.03	11.9	50.0	0.63	943	0.18	0.02
42180		0.17	8.1	1.03	1.21	<0.05	0.05	<0.01	<0.005	0.03	5.1	12.9	0.18	122	0.25	0.01
45381		0.64	27.5	5.18	8.97	0.13	0.17	<0.01	0.016	0.14	9.3	80.3	1.21	415	0.49	0.03
45382		0.70	24.2	3.90	5.32	0.07	0.23	<0.01	0.011	0.13	8.2	45.8	0.74	235	0.64	0.03
45383		0.61	9.8	1.51	2.11	<0.05	0.08	<0.01	0.006	0.09	11.8	11.5	0.21	291	0.26	0.03
45384		0.70	17.1	1.44	1.22	<0.05	0.06	<0.01	0.009	0.03	9.0	8.2	0.13	145	0.28	0.02
45385		0.17	23.1	2.70	5.36	0.08	0.33	<0.01	0.007	0.31	10.2	2.1	1.31	384	1.22	0.50
45386		0.28	9.4	1.92	1.93	<0.05	0.16	0.02	0.016	0.09	10.2	13.5	0.35	2890	0.56	0.03
45387		0.14	36.3	1.23	0.74	<0.05	0.05	<0.01	0.007	0.04	5.5	2.8	0.06	131	0.22	0.01
45388		0.10	3.7	2.57	0.60	0.05	0.03	<0.01	0.016	0.03	4.8	1.9	0.04	102	0.45	0.02
45389		0.07	4.4	0.97	0.44	<0.05	<0.02	<0.01	<0.005	0.01	4.9	1.5	0.03	67	0.31	<0.01
45390		0.09	23.1	4.60	6.71	0.09	0.06	<0.01	0.012	0.04	5.7	54.3	0.90	474	0.33	0.03
45391		0.25	28.4	4.49	6.08	0.08	0.05	<0.01	0.010	0.13	6.5	58.4	1.06	289	0.43	0.01
45392		0.11	17.6	1.65	1.34	<0.05	0.03	<0.01	0.005	0.04	2.7	12.6	0.24	128	0.27	<0.01
45393		0.12	6.9	1.61	1.60	0.06	0.03	<0.01	0.009	0.04	10.5	11.8	0.23	162	0.35	<0.01
45394		0.17	229	4.66	5.01	0.12	0.45	<0.01	0.313	0.30	10.4	1.8	1.17	372	1.41	0.47
42181		0.57	15.3	4.16	6.42	0.09	0.17	<0.01	0.012	0.14	10.5	71.0	1.03	460	0.19	0.03
42182		0.49	18.6	2.46	3.68	0.06	0.13	<0.01	0.010	0.09	10.3	38.2	0.53	360	0.35	0.02
42183		0.36	25.7	6.26	9.63	0.12	0.08	<0.01	0.014	0.15	11.7	112.5	1.38	667	0.25	0.02
42184		0.72	92.9	4.66	4.87	0.11	0.13	0.01	0.009	0.09	19.7	34.7	0.52	134	0.20	0.01
42185		0.52	33.5	3.36	2.49	0.08	0.11	<0.01	0.008	0.16	14.9	18.7	0.28	142	1.99	0.01
42186		0.17	96.6	5.31	5.02	0.12	0.43	0.01	0.069	0.34	10.9	1.8	1.39	400	1.51	0.52
42187		0.24	17.3	3.65	3.85	0.09	0.16	0.01	0.015	0.09	14.4	54.9	0.94	1590	0.62	0.01
45481		0.25	18.7	3.08	3.90	0.10	0.18	<0.01	0.017	0.18	30.7	29.8	2.59	555	0.09	<0.01
45482		0.23	21.7	2.89	1.67	0.05	0.11	<0.01	0.007	0.08	8.8	11.1	0.23	133	0.29	0.01
45483		0.06	8.0	1.44	0.70	<0.05	0.03	<0.01	<0.005	0.01	3.6	2.6	0.05	60	0.21	<0.01
45484		0.08	11.8	2.18	1.04	0.05	0.03	<0.01	0.006	0.03	9.3	12.5	0.20	192	0.21	<0.01
45485		0.21	10.6	2.37	2.68	0.05	0.08	<0.01	0.006	0.11	13.7	28.9	0.55	227	0.27	0.01
45486		0.17	101.0	5.30	5.16	0.13	0.43	0.01	0.076	0.33	11.2	1.8	1.39	404	1.59	0.51
45487		0.36	26.3	3.40	4.22	0.09	0.14	<0.01	0.009	0.13	21.6	43.3	0.63	283	0.44	0.01

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 21- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
42171		0.09	14.2	520	28.9	9.7	0.001	0.10	2.16	2.3	1.0	<0.2	7.2	<0.01	0.06	14.5
42172		0.07	12.3	750	3.7	3.0	<0.001	0.04	0.23	2.3	0.2	<0.2	22.4	<0.01	0.01	9.4
42173		0.06	11.6	190	5.0	6.9	<0.001	0.04	0.22	1.7	<0.2	<0.2	7.3	<0.01	0.02	12.9
42174		<0.05	4.6	750	5.3	1.2	<0.001	0.05	0.20	0.7	<0.2	<0.2	9.7	<0.01	0.01	3.0
42175		0.06	4.8	80	5.2	3.9	<0.001	0.04	0.25	0.9	<0.2	<0.2	2.4	<0.01	0.01	5.8
42176		<0.05	1.8	50	1.0	0.3	<0.001	<0.01	<0.05	0.4	<0.2	<0.2	0.7	<0.01	<0.01	0.7
42177		<0.05	3.5	90	2.1	0.9	<0.001	0.02	0.09	0.5	<0.2	<0.2	3.2	<0.01	0.01	1.0
42178		0.25	2.5	190	1.5	0.6	<0.001	0.01	<0.05	0.3	0.3	<0.2	49.5	<0.01	0.01	<0.2
42179		0.07	23.2	130	6.2	1.7	<0.001	<0.01	<0.05	2.6	<0.2	<0.2	9.6	<0.01	0.01	5.4
42180		<0.05	5.5	200	11.3	1.7	<0.001	<0.01	0.17	0.8	<0.2	<0.2	3.7	<0.01	0.04	1.8
45381		0.14	17.3	230	102.5	7.6	<0.001	0.34	0.27	3.6	0.3	<0.2	5.6	<0.01	0.05	10.1
45382		0.10	6.1	280	182.0	6.5	<0.001	0.09	0.58	2.3	0.4	<0.2	5.8	<0.01	0.32	10.3
45383		0.05	7.2	160	12.7	5.1	<0.001	0.06	0.59	0.9	<0.2	<0.2	6.5	<0.01	0.03	8.8
45384		<0.05	3.0	150	37.0	2.1	<0.001	0.03	1.08	0.7	0.2	<0.2	9.8	<0.01	0.21	4.4
45385		2.68	65.9	940	6.9	13.8	<0.001	0.01	<0.05	1.6	0.6	0.7	170.0	0.04	0.01	1.7
45386		0.41	12.7	840	38.9	5.8	0.001	0.16	0.23	2.6	0.6	<0.2	511	<0.01	0.03	3.6
45387		<0.05	5.9	880	34.4	2.0	<0.001	0.08	0.64	0.5	0.5	<0.2	12.8	<0.01	0.07	2.6
45388		0.05	5.0	70	55.7	1.8	<0.001	0.67	13.55	0.4	1.3	<0.2	4.1	<0.01	0.45	3.5
45389		<0.05	1.8	80	12.9	0.8	<0.001	0.02	<0.05	0.3	<0.2	<0.2	1.5	<0.01	0.02	3.2
45390		0.06	17.6	110	6.6	2.3	<0.001	0.23	0.16	2.9	0.3	<0.2	6.3	<0.01	0.01	7.9
45391		0.07	29.7	130	4.7	6.4	<0.001	0.40	0.11	2.2	0.3	<0.2	5.4	<0.01	0.01	9.2
45392		0.05	6.7	140	72.1	2.3	<0.001	0.22	0.08	0.5	0.3	<0.2	2.8	<0.01	0.05	1.7
45393		0.14	8.9	410	9.1	1.8	<0.001	0.03	<0.05	1.2	0.2	<0.2	11.3	<0.01	0.01	3.4
45394		4.07	61.7	900	26.5	17.0	0.004	2.58	0.96	1.6	1.0	1.0	187.5	0.06	1.87	1.4
42181		0.06	35.1	1120	9.2	7.1	<0.001	0.01	0.13	2.3	0.2	<0.2	13.6	<0.01	0.03	6.6
42182		<0.05	20.6	390	10.3	4.6	<0.001	0.01	0.10	1.6	0.2	<0.2	6.3	<0.01	0.03	5.7
42183		0.06	27.8	350	113.5	7.9	<0.001	0.02	0.25	2.8	0.3	<0.2	9.4	<0.01	0.26	7.2
42184		0.05	23.3	530	272	4.8	<0.001	0.07	0.49	1.6	0.7	<0.2	137.0	<0.01	0.32	12.3
42185		<0.05	4.2	460	20.0	7.4	<0.001	0.07	0.40	1.0	0.3	<0.2	8.9	<0.01	0.07	8.3
42186		4.26	69.8	940	46.3	16.5	0.001	2.94	1.08	1.6	2.8	1.1	153.0	0.05	0.77	1.3
42187		0.05	13.4	570	8.2	4.4	<0.001	0.04	1.52	2.3	0.3	<0.2	6.1	<0.01	0.03	4.1
45481		0.06	29.3	560	12.6	8.5	<0.001	0.01	0.16	3.1	0.4	0.2	108.0	<0.01	0.03	10.5
45482		<0.05	5.1	170	6.4	4.1	<0.001	0.04	0.23	1.1	0.3	<0.2	5.2	<0.01	0.10	6.9
45483		<0.05	1.6	80	8.4	0.9	<0.001	0.03	0.15	0.5	<0.2	<0.2	1.0	<0.01	0.03	2.6
45484		<0.05	5.8	160	7.3	1.7	<0.001	0.03	0.45	0.6	0.2	<0.2	1.3	<0.01	0.04	5.5
45485		<0.05	1.5	90	8.1	5.6	<0.001	0.12	0.19	1.0	0.3	<0.2	3.2	<0.01	0.04	4.9
45486		4.26	71.7	940	52.5	17.1	0.001	3.00	1.10	1.7	2.9	1.1	157.5	0.05	0.91	1.4
45487		<0.05	9.6	190	7.6	5.9	<0.001	0.10	0.22	1.8	0.2	<0.2	6.6	<0.01	0.02	9.1

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Sample Description	Method Analyte Units LOR	ME- MS41 Ti % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	As- OG46 As % 0.01
42171		<0.005	0.05	1.41	12	<0.05	4.19	67	9.8	
42172		<0.005	0.02	0.45	8	0.05	3.09	31	1.3	
42173		<0.005	0.04	0.91	9	0.06	2.12	39	5.2	
42174		<0.005	<0.02	0.25	2	<0.05	1.70	11	1.0	
42175		<0.005	0.02	0.29	5	0.05	0.81	19	1.2	
42176		<0.005	<0.02	0.05	1	<0.05	0.27	4	<0.5	
42177		<0.005	<0.02	0.09	2	<0.05	0.50	13	0.5	
42178		<0.005	<0.02	0.80	1	<0.05	0.89	15	<0.5	
42179		<0.005	<0.02	0.35	14	<0.05	3.20	55	3.4	
42180		<0.005	<0.02	0.69	2	<0.05	0.99	15	1.6	
45381		<0.005	0.04	1.19	20	<0.05	2.18	97	7.3	
45382		<0.005	0.04	1.70	11	<0.05	2.24	58	9.4	
45383		<0.005	0.03	1.56	4	0.05	1.91	19	3.2	
45384		<0.005	<0.02	0.86	3	<0.05	1.41	11	2.1	
45385		0.364	0.03	0.55	46	0.11	3.90	38	24.2	
45386		<0.005	0.03	1.36	3	<0.05	10.60	28	6.4	
45387		<0.005	<0.02	0.31	2	0.09	1.84	14	2.0	
45388		<0.005	<0.02	0.38	1	0.05	0.48	<2	0.9	2.11
45389		<0.005	<0.02	0.20	1	<0.05	0.81	5	0.7	
45390		0.006	<0.02	0.61	22	<0.05	2.18	79	2.0	
45391		0.008	0.03	0.94	17	<0.05	3.34	99	1.5	
45392		<0.005	<0.02	0.20	3	0.08	1.89	38	1.0	
45393		<0.005	<0.02	0.36	4	0.09	6.25	27	0.8	
45394		0.327	0.07	0.97	43	0.39	3.86	55	31.1	
42181		0.005	0.03	1.20	14	<0.05	3.71	92	7.1	
42182		<0.005	0.02	1.11	8	<0.05	3.73	52	5.3	
42183		0.005	0.03	1.04	20	0.05	3.45	129	3.2	
42184		0.005	0.07	0.98	12	<0.05	2.75	53	5.1	
42185		<0.005	0.04	0.56	5	0.07	2.09	23	4.7	
42186		0.359	0.07	0.69	48	0.23	4.10	131	29.9	
42187		<0.005	0.02	0.39	17	<0.05	3.84	65	6.8	
45481		<0.005	0.04	0.33	10	<0.05	7.94	69	8.6	
45482		<0.005	0.02	0.34	3	<0.05	0.96	37	4.1	
45483		<0.005	<0.02	0.16	2	<0.05	0.29	6	1.0	
45484		<0.005	<0.02	0.80	2	<0.05	1.32	26	1.3	
45485		<0.005	0.03	0.29	6	<0.05	0.95	31	3.4	
45486		0.361	0.06	0.73	48	0.33	4.27	135	31.4	
45487		<0.005	0.03	1.92	9	<0.05	1.96	58	5.5	

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: RYAN GOLD CORP.
713 - 4TH AVENUE, LOT 12, BLOCK HD
P.O. BOX 5070
DAWSON CITY YT Y0B 1G0

Finalized Date: 21- SEP- 2012
Account: RYGCOR

Project: Cantung (CanEast- Elf)

CERTIFICATE OF ANALYSIS WH12202828

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.
ME- MS41	Interference: Samples with Ca> 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL)
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Andy Randell
Receiving Lab: Canada-Whitehorse
Received: August 31, 2012
Report Date: September 05, 2012
Page: 1 of 8

CERTIFICATE OF ANALYSIS WHI12000796.1

CLIENT JOB INFORMATION

Project: CNE
Shipment ID:
P.O. Number
Number of Samples: 208

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	203	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	208	Dry at 60C			WHI
RJSV	203	Saving all or part of Soil Reject			WHI
1DX2	208	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Dave Schmidt

Isaac Fage

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274671	Soil	1.0	96.9	111.1	159	0.2	108.3	117.4	1890	7.73	17.2	2.3	<0.5	18.3	48	0.1	1.2	1.2	14	0.07	0.136
1274670	Soil	1.8	159.2	140.4	158	0.3	127.1	155.9	2028	8.88	18.5	3.0	0.8	25.2	38	<0.1	1.7	2.4	17	0.06	0.150
1274679	Soil	1.3	134.8	81.7	174	0.2	81.2	64.8	962	7.89	31.1	2.5	<0.5	14.5	45	0.2	1.1	0.9	67	0.10	0.137
1274681	Soil	1.2	93.4	111.7	144	0.1	60.1	47.3	779	8.11	149.1	2.5	<0.5	14.9	73	0.1	1.3	1.0	63	0.15	0.146
1274677	Soil	1.7	205.2	78.4	221	0.2	124.4	94.7	2164	8.73	20.9	1.4	<0.5	10.0	31	0.3	1.1	0.6	160	0.30	0.151
1274694	Soil	0.8	47.5	54.6	100	0.1	49.6	47.4	690	5.45	34.7	1.7	<0.5	9.6	29	0.1	0.8	0.6	15	0.03	0.100
1367003	Soil	0.5	33.5	33.1	75	<0.1	30.9	15.3	354	4.90	15.2	0.9	<0.5	10.4	17	<0.1	0.7	0.5	19	0.01	0.067
1274680	Soil	1.4	122.6	77.3	149	0.1	73.0	53.0	1021	7.55	23.3	2.2	<0.5	12.2	42	0.2	0.9	0.6	90	0.20	0.142
1274674	Soil	1.7	90.8	116.0	131	0.2	38.2	21.8	491	8.75	31.3	5.2	<0.5	19.1	44	0.1	1.6	1.2	19	0.04	0.226
1367002	Soil	0.8	24.0	34.8	52	0.3	17.2	7.4	353	5.00	17.2	0.9	<0.5	4.7	16	<0.1	0.6	0.5	24	0.01	0.132
1274700	Soil	0.8	26.4	31.9	61	0.1	19.4	10.1	402	4.28	16.3	0.9	<0.5	3.8	19	<0.1	0.5	0.5	20	0.03	0.111
1274698	Soil	0.9	36.5	49.5	66	0.2	19.1	10.0	575	5.70	40.5	1.6	<0.5	5.6	23	<0.1	0.8	0.7	24	0.02	0.173
1274675	Soil	2.1	86.7	108.1	130	0.2	40.5	24.7	537	8.74	31.6	4.9	2.1	19.9	43	<0.1	1.6	1.1	21	0.05	0.226
1274676	Soil	1.0	217.3	69.2	197	0.2	112.2	86.6	2615	9.28	18.1	1.0	<0.5	5.6	28	0.2	0.7	0.4	226	0.35	0.139
1274699	Soil	0.9	41.0	45.1	67	0.2	21.3	11.4	610	5.09	25.3	1.7	<0.5	6.7	25	<0.1	0.8	0.7	15	0.01	0.143
1274678	Soil	1.1	121.9	92.6	166	0.2	67.5	55.8	966	7.97	20.8	3.6	0.7	18.0	44	<0.1	1.2	1.1	48	0.11	0.177
1274688	Soil	1.0	69.1	53.3	124	<0.1	61.1	49.3	904	6.05	44.1	1.1	2.2	7.7	25	0.1	0.7	0.5	68	0.09	0.088
1274684	Soil	1.5	70.9	59.5	109	0.1	58.5	51.2	1077	6.05	64.8	1.3	2.2	10.7	35	0.2	0.8	0.5	79	0.21	0.103
1367001	Rock Pulp	2.2	23.3	2.3	42	0.3	21.8	9.4	376	2.26	4.8	0.3	2.0	0.9	42	0.2	0.3	<0.1	60	0.81	0.061
1274697	Soil	0.8	31.2	44.0	80	<0.1	27.2	16.7	701	4.65	28.7	1.1	<0.5	7.2	18	0.2	0.7	0.5	30	0.03	0.147
1274691	Soil	0.7	60.5	40.0	113	<0.1	58.0	45.4	1064	6.26	22.1	1.0	1.5	7.8	30	<0.1	0.5	0.4	85	0.19	0.097
1274686	Soil	1.0	68.6	57.8	123	<0.1	56.9	50.6	1018	6.17	60.4	1.4	1.0	4.8	32	0.1	0.8	0.5	62	0.10	0.126
1274673	Soil	0.9	80.2	98.5	112	0.2	46.7	32.8	574	7.47	17.4	2.7	2.1	20.7	43	<0.1	1.2	1.1	20	0.02	0.153
1274696	Soil	1.2	41.8	50.4	73	0.4	34.1	45.8	1260	4.26	21.9	1.7	<0.5	3.2	17	<0.1	0.7	0.5	21	0.04	0.207
1274693	Soil	0.9	56.3	37.1	97	0.1	49.1	47.7	998	5.48	23.6	1.3	<0.5	7.0	24	0.1	0.6	0.5	62	0.08	0.100
1274687	Soil	1.6	74.7	64.4	119	0.1	62.5	52.8	1169	5.93	72.2	1.5	1.3	7.6	36	0.2	0.8	0.6	62	0.16	0.114
1274682	Soil	1.1	87.6	173.8	160	0.2	67.7	58.5	775	7.23	365.0	2.3	3.1	14.4	41	0.2	1.4	1.0	45	0.04	0.126
1274695	Soil	1.1	39.2	44.6	74	0.2	31.2	30.7	652	4.22	21.7	1.7	3.2	4.1	23	0.2	0.7	0.4	15	0.04	0.161
1274690	Soil	0.7	64.6	47.0	117	<0.1	61.1	51.4	1098	6.08	26.6	1.3	<0.5	9.1	31	<0.1	0.6	0.5	80	0.17	0.096
1274689	Soil	0.8	42.5	48.3	90	<0.1	38.5	37.5	926	4.73	36.0	1.3	<0.5	7.9	26	<0.1	0.7	0.6	32	0.05	0.106

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Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274671	Soil		16	26	0.81	32	0.006	2	1.88	0.007	0.05	0.1	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
1274670	Soil		25	33	0.87	36	0.009	1	2.12	0.007	0.05	0.2	0.04	2.6	<0.1	<0.05	5	<0.5	<0.2
1274679	Soil		29	45	1.25	43	0.009	1	2.48	0.017	0.04	0.2	0.03	8.2	<0.1	<0.05	7	0.6	<0.2
1274681	Soil		32	45	1.21	46	0.007	2	2.40	0.014	0.03	<0.1	0.02	9.0	<0.1	<0.05	7	0.7	<0.2
1274677	Soil		31	77	2.34	77	0.020	3	3.40	0.009	0.04	0.3	0.03	19.9	<0.1	<0.05	11	<0.5	<0.2
1274694	Soil		25	27	0.78	28	0.005	1	1.71	0.004	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1367003	Soil		33	28	0.80	25	0.010	<1	1.74	0.007	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	0.5	<0.2
1274680	Soil		29	49	1.39	56	0.014	<1	2.51	0.018	0.03	0.2	0.02	10.8	<0.1	<0.05	8	<0.5	<0.2
1274674	Soil		30	35	0.75	27	0.004	<1	1.75	0.022	0.04	0.2	0.03	3.0	<0.1	0.12	5	0.7	<0.2
1367002	Soil		24	23	0.44	23	0.005	2	1.23	0.004	0.02	0.1	0.05	0.9	<0.1	<0.05	6	<0.5	<0.2
1274700	Soil		23	25	0.60	25	0.008	1	1.52	0.010	0.03	<0.1	0.02	0.9	<0.1	<0.05	5	<0.5	<0.2
1274698	Soil		25	32	0.65	27	0.007	<1	1.83	0.005	0.04	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
1274675	Soil		34	39	0.79	29	0.003	<1	1.83	0.021	0.05	0.2	0.02	2.8	<0.1	0.10	5	<0.5	<0.2
1274676	Soil		18	88	3.33	78	0.016	1	4.11	0.007	0.02	<0.1	0.02	28.6	<0.1	<0.05	14	0.9	<0.2
1274699	Soil		21	29	0.65	26	0.005	2	1.85	0.004	0.04	0.1	0.09	1.6	<0.1	0.06	5	0.6	<0.2
1274678	Soil		34	41	1.08	41	0.006	2	2.33	0.020	0.04	0.1	0.02	6.3	<0.1	<0.05	7	0.7	<0.2
1274688	Soil		27	38	1.28	42	0.021	1	2.29	0.007	0.03	<0.1	0.02	6.5	<0.1	<0.05	7	0.6	<0.2
1274684	Soil		26	48	1.42	63	0.026	<1	2.55	0.008	0.06	0.1	0.04	8.5	<0.1	<0.05	8	<0.5	<0.2
1367001	Rock Pulp		4	28	0.90	91	0.112	3	1.45	0.087	0.12	13.5	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
1274697	Soil		27	27	0.70	28	0.009	2	1.59	0.004	0.05	0.1	0.04	1.6	<0.1	0.09	5	0.6	<0.2
1274691	Soil		26	50	1.50	37	0.009	1	2.48	0.006	0.03	<0.1	0.02	9.1	<0.1	<0.05	8	<0.5	<0.2
1274686	Soil		23	38	1.12	43	0.019	1	2.26	0.007	0.04	0.1	0.02	5.2	<0.1	<0.05	7	0.5	<0.2
1274673	Soil		13	27	0.82	36	0.008	2	1.84	0.012	0.07	0.2	0.03	2.6	<0.1	0.11	5	<0.5	<0.2
1274696	Soil		15	25	0.39	29	0.005	1	1.22	0.006	0.04	<0.1	0.11	1.1	<0.1	0.11	3	<0.5	<0.2
1274693	Soil		26	39	1.19	72	0.010	2	2.14	0.005	0.03	<0.1	0.03	6.5	<0.1	<0.05	7	<0.5	<0.2
1274687	Soil		26	41	1.12	53	0.014	2	2.24	0.008	0.04	<0.1	0.06	6.3	<0.1	<0.05	7	<0.5	<0.2
1274682	Soil		30	36	1.07	49	0.007	<1	2.27	0.009	0.04	<0.1	0.02	5.7	<0.1	<0.05	7	<0.5	<0.2
1274695	Soil		15	27	0.59	39	0.005	3	1.56	0.005	0.05	0.1	0.06	1.3	<0.1	0.07	4	<0.5	<0.2
1274690	Soil		26	46	1.41	39	0.010	<1	2.33	0.008	0.03	<0.1	0.02	9.4	<0.1	<0.05	8	<0.5	<0.2
1274689	Soil		26	28	0.86	29	0.011	1	1.71	0.010	0.04	0.2	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2

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Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274683	Soil	1.3	88.8	144.5	148	0.2	71.8	78.3	1055	7.86	144.6	2.7	1.9	16.6	68	0.2	1.4	1.3	37	0.04	0.142
1274672	Soil	0.9	88.5	116.6	153	0.2	103.2	105.6	1588	7.51	17.7	2.5	1.4	20.1	55	<0.1	2.3	1.4	16	0.06	0.124
1274952	Soil	0.6	48.3	58.7	138	0.1	70.1	78.5	1689	4.72	100.0	2.2	14.0	11.0	22	0.1	2.9	0.6	15	0.02	0.082
1274945	Soil	0.8	47.7	60.6	104	0.1	33.3	14.6	347	4.85	22.5	3.1	4.2	13.7	38	<0.1	2.2	0.8	17	0.03	0.106
1274949	Soil	1.0	59.1	87.9	149	0.1	52.1	31.4	743	6.45	60.8	2.4	28.5	12.1	30	<0.1	3.6	1.0	23	0.02	0.112
1274943	Soil	1.2	51.6	68.0	106	0.2	33.7	18.7	649	5.88	32.3	3.6	2.8	16.9	42	<0.1	3.0	0.9	19	0.04	0.140
1274953	Soil	0.6	61.0	59.8	139	<0.1	48.0	60.0	919	6.59	148.9	2.3	46.5	15.5	39	<0.1	5.0	0.7	14	0.01	0.096
1274946	Soil	0.6	28.9	54.5	82	0.1	26.4	12.1	358	4.62	14.4	2.1	2.3	8.4	11	<0.1	1.0	0.7	16	<0.01	0.100
1274685	Soil	1.0	63.6	57.1	105	<0.1	59.2	50.8	1079	6.08	71.6	1.2	1.8	8.2	27	<0.1	0.6	0.4	75	0.28	0.106
1274941	Soil	1.4	45.5	50.2	122	0.2	31.0	13.7	522	5.34	27.0	2.1	2.2	10.6	29	<0.1	1.8	0.7	26	0.04	0.150
1274933	Soil	1.4	56.1	79.9	102	0.2	30.5	10.1	251	5.07	24.1	3.3	2.5	9.0	26	<0.1	1.1	1.0	28	0.06	0.165
1274944	Soil	0.8	61.0	61.4	144	0.2	47.9	25.0	439	5.75	25.5	3.7	2.9	17.5	51	<0.1	2.4	0.7	15	0.02	0.143
1274947	Soil	0.8	21.8	31.6	58	<0.1	15.1	6.4	234	3.65	14.5	1.1	1.5	5.8	9	<0.1	0.8	0.5	16	0.02	0.077
1274942	Soil	1.1	47.5	81.1	136	0.2	31.6	18.8	878	7.31	42.8	2.3	2.4	20.1	55	<0.1	2.7	0.7	16	0.05	0.203
1274935	Soil	1.1	26.9	50.6	61	<0.1	15.5	6.1	176	3.84	20.2	1.5	2.6	1.3	16	<0.1	1.0	0.7	22	0.01	0.186
1274950	Soil	0.5	33.2	29.1	82	<0.1	34.9	37.7	832	3.20	16.0	1.3	1.7	3.2	10	<0.1	1.0	0.4	12	0.02	0.077
1274948	Soil	0.5	31.8	36.6	118	<0.1	50.0	31.7	720	5.05	14.2	0.9	0.8	7.0	8	<0.1	0.8	0.5	14	0.02	0.069
1274692	Soil	0.7	62.1	34.2	99	<0.1	52.0	46.1	1086	6.08	19.1	0.9	1.0	5.2	24	<0.1	0.5	0.3	88	0.15	0.111
1274919	Soil	1.0	67.9	95.9	169	0.2	56.4	17.9	375	6.81	21.6	4.9	2.3	22.7	24	<0.1	4.2	1.5	17	<0.01	0.121
1274934	Soil	0.8	35.8	41.9	92	<0.1	26.1	10.5	297	4.87	13.3	2.1	1.7	11.2	17	<0.1	0.7	0.6	20	0.03	0.092
1274932	Soil	1.7	59.7	79.8	111	0.2	36.3	13.4	303	5.16	27.1	2.7	2.5	8.7	31	0.1	1.2	0.9	33	0.09	0.158
1274930	Soil	1.7	67.0	97.6	107	0.3	34.4	14.1	309	5.41	23.7	3.5	4.1	11.8	30	<0.1	1.3	1.1	32	0.06	0.172
1274918	Soil	3.2	85.5	161.7	122	0.2	20.9	11.1	200	13.18	49.0	5.2	1.9	29.3	26	<0.1	6.3	1.1	16	<0.01	0.227
1274931	Soil	1.2	41.1	59.0	97	0.2	29.5	10.6	295	4.93	19.1	2.8	1.8	11.9	19	<0.1	0.9	0.7	24	0.04	0.112
1274940	Soil	1.4	37.9	49.2	102	<0.1	31.8	13.7	397	5.34	28.1	1.6	1.3	8.3	26	<0.1	1.6	0.7	22	0.03	0.140
1274929	Soil	1.5	72.0	98.0	129	0.3	38.4	16.0	401	6.55	28.8	4.1	3.8	14.9	38	<0.1	2.2	1.0	23	0.04	0.172
1274920	Soil	0.8	68.9	55.8	111	0.1	20.8	8.6	266	6.96	36.8	5.6	2.1	20.4	31	<0.1	2.9	0.8	16	<0.01	0.139
1274917	Soil	0.9	137.6	252.6	273	0.3	236.3	230.7	4056	10.04	42.2	3.3	6.1	21.6	79	0.4	2.3	2.0	13	0.03	0.132
1274939	Soil	0.8	25.1	26.5	47	<0.1	13.6	6.7	262	3.28	14.5	1.0	1.0	1.5	12	<0.1	0.7	0.4	15	0.03	0.118
1274936	Soil	1.2	98.4	86.3	115	0.3	38.5	22.7	412	4.46	16.9	5.5	2.3	10.1	29	<0.1	0.9	1.0	23	0.05	0.154

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274683	Soil		34	34	0.97	48	0.009	1	2.24	0.011	0.05	<0.1	0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
1274672	Soil		18	27	0.77	27	0.005	2	1.73	0.010	0.06	<0.1	0.02	1.9	<0.1	<0.05	4	0.7	<0.2
1274952	Soil		39	19	0.67	31	0.004	<1	1.66	0.015	0.03	1.0	0.02	2.0	<0.1	<0.05	4	0.5	<0.2
1274945	Soil		50	29	0.82	33	0.004	<1	2.00	0.029	0.04	0.1	0.02	1.6	<0.1	0.05	6	1.3	<0.2
1274949	Soil		50	29	0.86	28	0.006	2	2.08	0.009	0.04	1.3	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
1274943	Soil		45	32	0.72	46	0.002	1	1.88	0.028	0.06	<0.1	0.01	2.9	<0.1	0.14	5	<0.5	<0.2
1274953	Soil		34	24	0.75	18	0.002	<1	1.86	0.008	0.02	2.5	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1274946	Soil		47	25	0.59	18	0.003	<1	1.84	0.008	0.03	0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
1274685	Soil		22	43	1.40	72	0.019	<1	2.45	0.006	0.05	<0.1	0.01	8.8	<0.1	<0.05	7	<0.5	<0.2
1274941	Soil		43	32	0.71	48	0.012	2	2.05	0.011	0.07	0.2	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
1274933	Soil		39	32	0.76	58	0.010	2	2.09	0.013	0.08	0.3	0.03	3.3	<0.1	<0.05	6	0.8	<0.2
1274944	Soil		36	31	0.72	28	0.002	<1	2.15	0.022	0.04	<0.1	0.01	2.4	<0.1	0.05	6	<0.5	<0.2
1274947	Soil		39	21	0.47	21	0.005	<1	1.48	0.014	0.03	0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
1274942	Soil		38	28	0.62	41	0.004	<1	1.80	0.023	0.06	0.1	0.02	2.7	<0.1	0.16	5	<0.5	<0.2
1274935	Soil		27	22	0.26	22	0.003	<1	1.05	0.007	0.03	0.3	0.06	0.6	<0.1	0.10	5	0.7	<0.2
1274950	Soil		24	13	0.32	20	0.006	<1	1.08	0.016	0.03	0.3	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1274948	Soil		35	25	0.67	19	0.005	<1	1.79	0.004	0.04	0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1274692	Soil		21	47	1.58	72	0.010	<1	2.43	0.005	0.03	<0.1	0.02	9.8	<0.1	<0.05	8	<0.5	<0.2
1274919	Soil		30	32	0.72	29	<0.001	<1	2.33	0.015	0.04	<0.1	0.01	3.8	<0.1	<0.05	6	0.8	<0.2
1274934	Soil		48	32	0.84	27	0.006	<1	2.18	0.009	0.05	0.2	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
1274932	Soil		36	32	0.80	58	0.015	2	1.99	0.018	0.08	0.6	0.02	3.4	<0.1	0.05	6	1.1	<0.2
1274930	Soil		43	35	0.86	57	0.011	1	2.20	0.016	0.08	0.4	0.02	3.9	<0.1	0.05	6	0.7	<0.2
1274918	Soil		23	41	0.51	28	0.003	<1	1.63	0.010	0.04	0.1	0.04	4.1	<0.1	0.26	6	<0.5	<0.2
1274931	Soil		49	31	0.79	39	0.009	<1	2.09	0.011	0.05	0.3	0.02	2.6	<0.1	<0.05	6	0.6	<0.2
1274940	Soil		45	34	0.57	31	0.007	<1	1.68	0.009	0.05	0.3	0.04	2.0	<0.1	<0.05	5	0.5	<0.2
1274929	Soil		47	34	0.76	44	0.005	<1	2.06	0.023	0.06	0.2	0.01	3.5	<0.1	0.09	6	<0.5	<0.2
1274920	Soil		46	29	0.70	38	0.002	<1	2.23	0.030	0.04	<0.1	0.03	3.0	<0.1	0.16	6	0.6	<0.2
1274917	Soil		12	23	0.62	32	0.003	<1	1.86	0.011	0.05	0.1	0.04	3.3	0.1	0.05	4	<0.5	<0.2
1274939	Soil		25	19	0.24	21	0.005	<1	0.95	0.011	0.03	0.2	0.04	0.6	<0.1	0.09	4	0.5	<0.2
1274936	Soil		41	31	0.76	44	0.009	1	2.05	0.011	0.08	0.4	0.04	3.0	<0.1	0.07	6	0.6	<0.2

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Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274916	Soil	1.1	65.3	71.4	101	0.1	37.1	34.2	672	6.43	22.0	2.5	0.8	14.1	27	<0.1	1.1	1.0	16	0.03	0.142
1274915	Soil	0.8	38.5	45.7	80	<0.1	31.7	22.8	577	5.35	19.4	1.6	1.1	8.7	26	<0.1	0.9	0.7	14	0.02	0.133
1274937	Soil	1.0	56.0	60.2	105	0.2	30.4	13.0	313	4.73	10.5	2.8	3.3	15.2	22	<0.1	0.6	0.8	21	0.04	0.110
1274938	Soil	1.1	37.2	67.5	83	<0.1	16.0	6.6	245	5.64	20.2	1.7	0.7	16.5	16	<0.1	1.2	0.7	18	<0.01	0.112
1274836	Soil	0.7	64.0	71.3	150	0.1	61.6	57.5	1078	5.80	31.0	2.4	5.0	14.7	22	<0.1	2.1	0.8	15	0.03	0.075
1274837	Soil	0.7	57.3	62.7	140	0.1	54.5	48.4	905	5.36	36.7	2.4	4.4	14.7	21	<0.1	1.9	0.7	15	0.02	0.071
1274923	Soil	1.3	57.7	56.7	124	0.1	76.0	55.5	2036	6.97	34.5	2.9	7.9	16.8	43	<0.1	1.7	0.8	20	0.02	0.185
1274928	Soil	2.0	57.9	70.2	95	0.2	20.8	8.8	269	7.33	31.3	3.4	4.7	15.9	23	<0.1	2.8	0.9	20	0.02	0.175
1274841	Soil	0.6	43.2	43.2	115	0.1	58.5	52.3	1120	4.48	180.8	1.7	32.0	6.9	23	<0.1	3.4	0.5	13	0.02	0.075
1274835	Soil	0.9	81.8	78.0	154	0.1	54.7	52.7	871	7.50	55.4	3.3	4.4	29.1	30	<0.1	3.8	0.8	17	<0.01	0.113
1274951	Rock Pulp	2.5	23.6	2.1	41	0.3	23.1	10.2	385	2.35	4.7	0.2	4.3	0.8	35	0.2	0.3	<0.1	57	0.75	0.060
1274927	Soil	1.9	52.2	118.7	97	0.4	27.6	9.4	226	5.47	36.9	2.1	4.9	9.4	30	<0.1	1.9	1.0	34	0.07	0.155
1274843	Soil	0.7	53.4	54.7	135	<0.1	64.7	67.1	1204	5.64	112.6	2.2	50.5	15.0	25	<0.1	3.8	0.6	15	0.05	0.071
1274834	Soil	0.6	57.4	63.0	143	<0.1	79.8	64.9	1017	5.33	119.8	2.1	14.8	14.2	35	<0.1	2.6	0.7	14	0.04	0.058
1274921	Soil	0.9	54.1	53.1	160	0.1	53.4	30.7	646	5.77	322.4	14.6	2.2	19.5	16	<0.1	0.9	0.9	12	<0.01	0.104
1274926	Soil	0.9	35.5	53.7	75	<0.1	18.7	8.4	163	5.10	25.3	1.5	1.1	13.9	24	<0.1	1.3	0.6	17	0.02	0.140
1274838	Soil	0.6	45.4	52.6	152	<0.1	67.0	60.0	1046	5.10	43.6	2.0	7.8	11.6	21	<0.1	1.8	0.5	23	0.06	0.072
1274844	Soil	0.7	63.5	73.1	181	0.1	106.3	106.1	1867	6.01	250.0	2.1	25.3	16.8	28	<0.1	3.6	0.7	17	0.06	0.074
1274845	Soil	0.5	46.7	53.5	153	<0.1	81.5	75.9	1535	5.69	328.3	1.9	47.3	13.9	26	<0.1	3.2	0.6	14	0.04	0.069
1274922	Soil	1.5	57.1	93.2	99	0.1	16.9	7.9	236	9.25	31.0	2.8	2.0	20.5	22	<0.1	1.7	0.8	13	<0.01	0.151
1274800	Soil	0.7	65.2	80.1	102	0.1	57.4	85.7	1336	5.62	34.0	2.1	2.7	13.2	30	<0.1	2.0	0.8	11	0.04	0.094
1274826	Soil	0.9	92.8	153.4	150	0.2	106.2	131.8	2322	7.37	21.7	2.8	1.2	22.8	34	<0.1	2.0	1.3	11	0.01	0.098
1274829	Soil	0.9	84.2	91.6	164	0.1	91.8	89.4	1370	7.09	91.4	3.5	13.3	22.7	32	<0.1	3.9	1.1	16	0.02	0.096
1274840	Soil	0.8	71.9	82.2	194	0.1	87.6	80.4	1208	6.09	47.7	2.7	7.2	17.3	27	0.1	2.0	0.8	17	0.03	0.082
1274799	Soil	0.8	44.8	44.9	77	<0.1	27.0	29.5	603	5.22	18.8	1.4	2.3	11.9	8	<0.1	0.8	0.5	20	0.02	0.074
1274797	Soil	1.0	85.5	71.9	113	<0.1	60.1	68.6	1704	6.34	25.0	1.9	10.5	18.0	6	<0.1	0.8	0.9	17	0.01	0.106
1274833	Soil	0.7	85.2	112.8	216	0.2	112.1	86.0	1444	6.09	15.0	2.6	1.1	15.6	23	<0.1	1.6	1.1	14	0.05	0.062
1274842	Soil	0.8	49.6	60.7	146	0.1	80.9	85.9	1908	5.56	209.1	1.8	32.5	9.6	19	<0.1	4.3	0.6	14	0.03	0.088
1274796	Soil	0.6	51.5	52.5	98	<0.1	31.5	19.1	433	5.88	40.3	1.6	4.9	20.9	7	<0.1	1.3	0.5	17	<0.01	0.078
1274794	Soil	0.6	43.1	48.9	73	<0.1	18.3	9.1	281	5.50	13.4	1.5	2.3	17.2	5	<0.1	0.7	0.5	14	<0.01	0.065

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Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274916	Soil	14	23	0.55	23	0.006	<1	1.60	0.006	0.05	0.2	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
1274915	Soil	13	21	0.47	27	0.004	<1	1.41	0.007	0.05	0.2	0.05	1.7	<0.1	0.06	4	0.6	<0.2
1274937	Soil	51	33	0.79	35	0.005	<1	2.11	0.008	0.05	0.2	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
1274938	Soil	36	30	0.58	22	0.009	2	1.54	0.005	0.03	0.2	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1274836	Soil	36	27	0.74	20	0.002	<1	1.89	0.010	0.03	0.4	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
1274837	Soil	37	27	0.74	22	0.003	<1	1.80	0.010	0.03	0.3	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1274923	Soil	45	36	0.64	37	0.004	<1	2.12	0.010	0.05	0.4	0.07	2.7	0.1	0.08	6	<0.5	<0.2
1274928	Soil	47	35	0.69	35	0.004	<1	1.87	0.019	0.04	0.1	0.02	3.3	<0.1	0.10	6	<0.5	<0.2
1274841	Soil	36	21	0.56	24	0.003	<1	1.59	0.010	0.03	0.7	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1274835	Soil	42	30	0.89	19	0.002	<1	2.32	0.007	0.05	0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
1274951	Rock Pulp	3	29	0.77	89	0.100	2	1.44	0.073	0.12	14.4	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1274927	Soil	35	38	0.68	45	0.015	2	1.70	0.020	0.07	0.8	0.02	3.9	<0.1	0.13	6	<0.5	<0.2
1274843	Soil	42	26	0.74	22	0.003	<1	1.81	0.006	0.03	0.7	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1274834	Soil	27	23	0.71	28	0.004	1	1.69	0.009	0.04	0.6	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
1274921	Soil	36	20	0.51	30	0.002	<1	1.78	0.005	0.02	0.1	0.04	2.5	<0.1	0.05	4	<0.5	<0.2
1274926	Soil	36	25	0.45	25	0.005	1	1.30	0.011	0.04	0.1	<0.01	1.9	<0.1	0.07	4	0.6	<0.2
1274838	Soil	40	32	0.92	36	0.007	<1	2.01	0.006	0.04	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
1274844	Soil	41	29	0.85	32	0.003	<1	2.06	0.007	0.05	0.8	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1274845	Soil	39	27	0.85	27	0.001	<1	2.00	0.006	0.02	0.6	0.02	2.4	<0.1	0.06	5	<0.5	<0.2
1274922	Soil	24	34	0.47	23	0.002	<1	1.34	0.016	0.03	0.2	0.02	2.5	<0.1	0.16	5	<0.5	<0.2
1274800	Soil	17	14	0.37	38	0.008	<1	1.00	0.008	0.06	0.4	0.02	1.8	<0.1	0.07	3	<0.5	<0.2
1274826	Soil	20	19	0.54	29	0.007	2	1.43	0.007	0.06	0.3	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1274829	Soil	34	30	0.76	27	0.003	1	2.03	0.018	0.07	2.2	0.02	3.8	<0.1	0.08	5	<0.5	<0.2
1274840	Soil	34	29	0.74	28	0.003	2	1.96	0.014	0.05	0.2	<0.01	3.2	<0.1	0.06	5	<0.5	<0.2
1274799	Soil	27	36	0.78	29	0.015	1	1.69	0.004	0.07	0.2	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
1274797	Soil	37	28	0.71	21	0.005	<1	1.94	0.005	0.04	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
1274833	Soil	34	28	0.73	24	0.003	<1	1.84	0.012	0.05	0.2	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
1274842	Soil	41	27	0.73	20	0.002	<1	1.83	0.004	0.03	0.7	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
1274796	Soil	40	31	0.83	20	0.011	2	1.96	0.004	0.10	0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1274794	Soil	21	24	0.69	13	0.010	<1	1.54	0.004	0.04	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274798	Soil		0.8	83.1	76.5	101	0.1	37.3	27.9	503	6.72	16.5	2.6	2.0	21.6	11	<0.1	1.2	1.0	16	0.01	0.092
1274832	Soil		0.8	87.0	93.2	148	0.1	63.8	54.5	808	6.11	51.0	3.0	12.6	17.5	29	<0.1	2.4	0.9	15	0.03	0.074
1274791	Soil		0.7	47.9	56.1	73	<0.1	20.0	10.9	324	6.34	18.6	1.7	<0.5	21.4	20	<0.1	1.0	0.6	17	0.01	0.096
1274792	Soil		0.6	34.6	52.3	73	<0.1	19.8	12.7	331	5.57	18.4	1.4	1.5	19.6	26	<0.1	0.8	0.5	18	0.01	0.081
1274828	Soil		0.6	52.4	61.8	107	<0.1	47.6	47.0	787	5.89	99.8	2.1	2.1	17.2	20	<0.1	1.2	0.6	10	0.04	0.060
1274839	Soil		0.6	33.7	37.5	74	0.1	28.8	29.6	604	2.66	29.6	1.5	4.2	3.6	14	<0.1	1.2	0.3	10	0.04	0.067
1274589	Soil		1.1	144.1	68.0	297	<0.1	120.0	93.0	1418	7.24	256.7	1.8	<0.5	4.5	23	0.5	0.6	0.3	134	0.34	0.156
1274585	Soil		1.8	111.4	197.1	141	0.2	35.7	16.0	408	8.46	39.8	8.5	2.3	58.2	35	<0.1	3.7	1.4	19	0.01	0.217
1274790	Soil		1.0	69.3	56.9	102	<0.1	68.9	50.6	770	5.48	17.1	2.3	0.8	18.5	52	<0.1	0.7	0.6	64	0.36	0.112
1274827	Soil		0.8	68.9	87.0	117	0.2	46.9	52.1	863	6.35	218.4	3.8	5.2	21.5	22	0.1	1.7	0.8	12	0.03	0.080
1274590	Soil		1.0	51.2	129.5	79	0.1	22.5	17.3	379	5.67	1162	3.2	3.9	18.1	20	0.1	1.1	0.7	13	0.01	0.088
1274586	Soil		3.1	112.6	109.0	207	0.1	80.4	79.8	717	6.90	48.3	5.0	1.0	21.0	23	<0.1	2.9	0.6	13	0.05	0.142
1274789	Soil		0.7	76.4	114.3	139	0.2	62.1	49.5	767	6.34	131.1	3.8	21.3	20.7	39	<0.1	2.4	1.0	16	0.02	0.091
1274830	Soil		1.2	88.8	69.9	116	0.1	47.0	58.2	646	6.50	29.8	2.8	1.7	29.8	48	<0.1	1.5	0.8	23	0.02	0.099
1274591	Soil		0.8	50.6	263.2	99	0.1	29.5	20.3	389	6.03	1591	3.4	4.1	22.7	19	0.1	1.0	0.9	13	0.02	0.099
1274587	Soil		0.8	51.3	78.5	111	0.1	48.2	50.3	931	3.90	271.7	2.0	1.6	4.7	14	0.1	1.3	0.4	35	0.11	0.084
1274795	Soil		0.6	56.3	46.1	77	<0.1	21.4	14.9	328	4.91	28.3	1.7	3.3	15.6	9	<0.1	1.1	0.5	16	0.02	0.073
1274831	Soil		0.8	76.6	128.9	133	0.2	54.7	33.5	550	6.51	73.8	4.1	10.3	20.7	47	<0.1	1.9	1.1	18	0.01	0.098
1274593	Soil		1.0	72.4	83.8	89	0.1	35.7	28.4	513	6.28	18.2	1.7	0.5	16.7	17	<0.1	0.8	0.9	14	0.01	0.112
1274588	Soil		1.1	187.1	79.6	159	0.1	114.1	73.5	1758	7.50	121.6	0.9	0.6	3.3	27	0.3	0.5	0.2	177	0.45	0.119
1274584	Soil		0.7	124.5	135.8	142	<0.1	61.7	56.6	674	4.90	31.4	6.0	1.1	25.3	8	<0.1	1.3	0.8	18	0.05	0.068
1274793	Soil		0.7	52.2	52.8	85	<0.1	24.9	13.0	354	6.05	19.8	1.6	2.4	21.3	8	<0.1	1.0	0.6	19	<0.01	0.081
1274597	Soil		0.9	86.1	82.6	100	<0.1	37.8	30.7	529	6.74	16.4	2.0	0.9	20.0	13	<0.1	0.7	0.8	15	0.02	0.120
1274914	Soil		0.6	77.1	138.2	93	0.1	37.6	23.2	322	4.96	156.0	2.0	0.9	17.9	18	0.1	0.7	0.7	13	0.04	0.109
1274903	Soil		1.0	96.0	120.7	130	<0.1	62.8	132.5	1443	6.27	191.1	2.4	<0.5	19.5	9	<0.1	0.6	0.6	18	<0.01	0.090
1274592	Soil		0.9	54.1	91.1	102	<0.1	50.6	59.7	976	4.84	181.2	2.4	2.4	13.0	13	<0.1	0.6	0.6	12	0.02	0.079
1274598	Soil		0.8	65.0	64.3	82	<0.1	38.3	37.8	624	5.11	15.0	1.3	0.7	11.5	7	<0.1	0.6	0.6	15	0.02	0.090
1274913	Soil		1.1	91.6	262.8	144	0.2	58.0	36.5	518	8.10	455.4	2.9	0.9	33.5	25	0.3	0.9	1.0	18	0.01	0.127
1274910	Soil		1.2	108.2	389.0	150	0.3	57.7	49.9	776	8.27	516.9	2.7	<0.5	30.4	23	0.3	1.1	1.1	17	0.01	0.142
1274595	Soil		1.1	64.4	78.0	110	0.1	50.5	55.3	840	5.46	28.5	1.9	<0.5	9.6	12	<0.1	0.6	0.7	14	0.02	0.101

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600 - 666 Burrard St.
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Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274798	Soil		44	28	0.71	23	0.006	<1	1.99	0.006	0.06	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
1274832	Soil		34	28	0.73	24	0.003	1	1.88	0.017	0.05	0.5	<0.01	2.8	<0.1	0.07	5	<0.5	<0.2
1274791	Soil		25	31	0.79	27	0.023	2	1.90	0.007	0.12	0.1	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1274792	Soil		25	34	0.85	35	0.024	2	1.86	0.007	0.10	0.1	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1274828	Soil		13	23	0.57	14	0.005	2	1.37	0.006	0.03	<0.1	<0.01	2.0	<0.1	0.06	4	<0.5	<0.2
1274839	Soil		21	16	0.34	20	0.005	<1	1.00	0.017	0.03	0.1	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
1274589	Soil		32	61	1.89	111	0.018	<1	3.04	0.005	0.03	<0.1	0.03	11.5	<0.1	<0.05	10	<0.5	<0.2
1274585	Soil		83	34	0.72	72	0.006	<1	2.41	0.019	0.07	0.1	0.02	4.4	0.1	0.11	5	0.6	<0.2
1274790	Soil		45	95	1.43	161	0.102	<1	2.27	0.021	0.21	0.1	<0.01	7.7	0.2	<0.05	6	<0.5	<0.2
1274827	Soil		22	23	0.62	20	0.003	<1	1.52	0.006	0.03	1.3	0.02	2.2	<0.1	0.08	4	<0.5	<0.2
1274590	Soil		18	22	0.57	33	0.006	<1	1.43	0.008	0.06	0.1	<0.01	2.9	<0.1	0.07	4	<0.5	<0.2
1274586	Soil		42	23	0.49	44	0.004	<1	1.68	0.012	0.04	<0.1	0.02	2.4	<0.1	0.12	4	<0.5	<0.2
1274789	Soil		36	30	0.73	31	0.003	<1	1.98	0.026	0.07	1.0	0.01	3.6	<0.1	0.09	5	<0.5	<0.2
1274830	Soil		64	38	0.86	44	0.016	<1	2.04	0.012	0.07	<0.1	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
1274591	Soil		27	26	0.65	39	0.004	2	1.76	0.007	0.11	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
1274587	Soil		27	22	0.62	43	0.008	<1	1.56	0.014	0.04	<0.1	<0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
1274795	Soil		30	22	0.57	24	0.010	<1	1.56	0.010	0.06	0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1274831	Soil		37	32	0.74	33	0.004	2	2.08	0.032	0.09	0.6	<0.01	3.4	<0.1	0.14	6	<0.5	<0.2
1274593	Soil		26	29	0.69	25	0.003	<1	1.75	0.004	0.04	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1274588	Soil		24	75	2.72	100	0.037	2	3.49	0.010	0.02	<0.1	0.02	16.7	<0.1	<0.05	12	<0.5	<0.2
1274584	Soil		66	30	0.78	35	0.005	3	2.07	0.009	0.08	<0.1	0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
1274793	Soil		27	34	0.84	24	0.015	<1	1.90	0.004	0.05	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
1274597	Soil		34	29	0.71	20	0.003	<1	1.90	0.004	0.03	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
1274914	Soil		35	22	0.49	32	0.006	<1	1.48	0.013	0.03	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1274903	Soil		45	36	0.88	34	0.008	<1	2.24	0.003	0.06	0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
1274592	Soil		18	22	0.54	23	0.006	1	1.45	0.005	0.04	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1274598	Soil		31	25	0.63	23	0.004	<1	1.75	0.006	0.03	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
1274913	Soil		43	39	0.78	47	0.010	2	2.07	0.009	0.10	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
1274910	Soil		45	36	0.73	31	0.003	<1	1.97	0.005	0.04	0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
1274595	Soil		21	25	0.57	30	0.003	<1	1.80	0.005	0.05	<0.1	0.04	1.7	<0.1	<0.05	4	<0.5	<0.2

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600 - 666 Burrard St.
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Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274599	Soil	0.8	55.2	58.6	70	<0.1	22.8	16.3	402	4.60	17.5	1.2	1.1	11.6	11	<0.1	0.6	0.6	15	0.04	0.097
1274901	Rock Pulp	1.2	449.3	21.6	164	0.2	221.4	78.4	831	15.74	3.2	1.2	32.3	7.8	14	0.1	0.3	0.2	222	0.30	0.040
1274912	Soil	1.2	118.4	172.8	218	0.1	134.7	85.1	666	9.77	89.0	4.3	0.8	47.0	29	0.2	1.2	1.0	16	0.03	0.179
1274594	Soil	0.8	53.6	80.8	98	<0.1	34.4	24.5	454	6.13	14.3	1.6	<0.5	19.9	10	<0.1	0.5	0.7	15	0.01	0.087
1274600	Soil	1.1	60.9	83.6	95	<0.1	32.7	18.9	478	6.36	70.3	1.6	0.6	15.0	12	<0.1	0.6	0.6	20	0.02	0.103
1274909	Soil	0.8	62.7	154.9	101	0.2	33.3	20.2	450	6.79	113.8	1.7	1.1	23.3	9	<0.1	0.7	0.9	17	0.01	0.109
1274911	Soil	1.2	101.2	320.9	143	0.2	49.1	32.4	507	8.33	393.7	2.8	1.7	32.1	29	0.3	1.1	1.2	18	0.01	0.158
1274596	Soil	1.2	99.3	87.6	101	0.1	50.4	58.7	948	7.07	21.2	2.6	1.0	21.7	5	<0.1	0.9	1.0	13	0.01	0.110
1274645	Soil	1.0	50.7	51.0	118	<0.1	39.5	18.5	347	5.78	14.7	1.2	1.1	11.2	33	<0.1	0.7	0.5	18	0.01	0.105
1274635	Soil	0.7	57.6	67.8	183	<0.1	60.5	45.1	965	5.52	14.3	1.4	0.6	12.0	28	<0.1	0.6	0.6	19	0.02	0.082
1274902	Soil	0.8	71.1	87.0	106	<0.1	46.6	29.7	586	6.12	76.5	1.9	0.6	15.8	11	<0.1	0.5	0.5	20	0.02	0.090
1274905	Soil	0.7	41.1	85.9	98	<0.1	33.1	17.9	463	5.39	129.5	1.0	0.9	13.2	8	<0.1	0.5	0.5	18	0.02	0.056
1274641	Soil	0.5	42.2	26.3	121	<0.1	23.9	11.5	331	6.37	6.6	1.4	<0.5	13.6	28	<0.1	0.5	0.4	15	<0.01	0.100
1274643	Soil	1.4	51.5	35.9	170	<0.1	53.8	20.2	253	5.41	30.4	1.3	0.6	7.3	10	<0.1	0.8	0.5	23	0.02	0.104
1274907	Soil	1.4	113.7	333.1	200	0.2	110.6	146.0	1705	7.62	181.2	2.1	<0.5	26.9	6	0.4	1.1	1.0	17	0.02	0.120
1274908	Soil	1.2	81.5	144.5	96	0.1	35.8	33.8	606	7.30	135.5	1.7	1.1	22.6	8	<0.1	1.0	0.8	18	0.01	0.120
1274644	Soil	0.7	57.2	122.2	212	0.1	45.4	16.7	225	6.70	22.8	1.3	1.2	10.5	33	0.2	0.4	0.7	19	0.01	0.086
1274642	Soil	1.1	43.0	54.3	128	<0.1	27.9	13.0	361	6.14	10.1	1.4	2.3	7.4	51	<0.1	0.7	0.5	17	0.01	0.128
1274639	Soil	0.8	68.2	98.1	186	<0.1	52.8	35.5	424	7.63	12.9	1.7	0.8	21.8	63	<0.1	0.6	0.7	16	<0.01	0.138
1274906	Soil	1.1	113.2	342.7	146	0.2	82.0	68.5	1046	6.86	153.1	2.2	1.6	21.0	10	0.2	0.7	1.2	19	0.02	0.103
1274636	Soil	1.5	57.0	87.6	129	0.2	43.6	14.4	294	5.18	22.1	1.8	2.5	9.8	36	0.1	0.8	0.8	34	0.08	0.140
1274637	Soil	0.9	71.2	101.8	196	<0.1	85.7	82.4	1386	6.37	14.4	1.8	0.7	13.7	36	0.1	0.8	0.6	17	0.01	0.085
1274640	Soil	1.2	56.1	37.4	123	0.1	28.2	13.9	323	8.29	21.0	2.8	1.1	26.5	60	<0.1	1.0	0.5	19	<0.01	0.145
1274904	Soil	0.7	53.6	77.6	97	<0.1	32.0	22.7	471	5.69	93.7	1.6	0.7	13.3	11	<0.1	0.5	0.5	18	0.02	0.068
1274646	Soil	0.8	45.0	56.8	200	<0.1	65.2	39.8	410	6.26	14.2	1.7	0.8	9.8	21	<0.1	0.7	0.6	15	<0.01	0.093
1274648	Soil	0.9	46.2	62.4	139	0.1	33.2	17.7	335	6.55	21.4	2.2	<0.5	15.5	45	0.1	1.0	0.5	18	0.01	0.129
1274634	Soil	1.1	32.1	39.8	98	<0.1	27.5	11.8	325	4.81	13.7	1.1	0.6	6.1	17	<0.1	0.7	0.5	21	0.04	0.096
1274638	Soil	0.8	46.7	67.7	145	<0.1	41.2	25.3	588	6.33	12.6	1.6	<0.5	14.7	35	<0.1	0.6	0.5	17	0.02	0.105
1274657	Soil	1.0	25.1	38.5	62	<0.1	18.0	6.3	285	4.23	21.9	1.1	0.7	3.9	12	<0.1	0.7	0.5	21	0.01	0.116
1274656	Soil	0.6	37.5	41.2	89	<0.1	29.0	32.7	848	4.47	18.4	1.3	<0.5	7.3	8	<0.1	0.7	0.5	17	<0.01	0.075

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	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274599	Soil	28	23	0.58	23	0.007	<1	1.55	0.012	0.04	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1274901	Rock Pulp	17	694	0.13	141	0.150	4	3.77	0.013	0.07	<0.1	0.04	40.4	0.1	<0.05	21	<0.5	<0.2
1274912	Soil	68	36	0.70	61	0.010	2	2.61	0.010	0.11	<0.1	<0.01	5.1	<0.1	0.05	5	<0.5	<0.2
1274594	Soil	34	31	0.81	30	0.007	<1	2.01	0.004	0.05	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1274600	Soil	43	33	0.83	30	0.006	<1	2.03	0.003	0.04	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
1274909	Soil	43	34	0.78	21	0.004	<1	1.88	0.005	0.04	<0.1	<0.01	3.0	0.1	<0.05	5	<0.5	<0.2
1274911	Soil	47	37	0.80	44	0.005	5	2.22	0.007	0.10	<0.1	0.01	3.7	<0.1	0.07	5	<0.5	<0.2
1274596	Soil	42	25	0.63	16	0.002	<1	1.82	0.002	0.03	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
1274645	Soil	39	31	0.70	22	0.003	<1	1.95	0.005	0.04	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
1274635	Soil	30	29	0.64	31	0.010	<1	1.71	0.008	0.05	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1274902	Soil	40	36	0.88	35	0.006	1	2.24	0.006	0.08	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
1274905	Soil	41	36	0.82	19	0.004	<1	1.93	0.002	0.03	0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1274641	Soil	25	36	0.69	18	0.001	<1	2.02	0.002	0.03	<0.1	<0.01	2.4	<0.1	0.06	5	<0.5	<0.2
1274643	Soil	29	28	0.72	18	0.003	<1	1.88	0.002	0.03	0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
1274907	Soil	48	34	0.83	29	0.007	4	2.36	0.005	0.08	<0.1	0.01	3.8	<0.1	0.05	5	<0.5	<0.2
1274908	Soil	39	35	0.80	21	0.005	2	1.98	0.005	0.05	<0.1	<0.01	3.6	<0.1	0.06	5	<0.5	<0.2
1274644	Soil	35	30	0.80	28	0.002	<1	2.12	0.005	0.04	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1274642	Soil	21	26	0.52	31	0.003	<1	1.65	0.012	0.04	<0.1	0.02	1.5	<0.1	0.08	5	<0.5	<0.2
1274639	Soil	39	35	0.73	32	0.001	<1	2.40	0.006	0.05	<0.1	<0.01	3.6	<0.1	0.10	5	<0.5	<0.2
1274906	Soil	36	35	0.84	30	0.009	1	2.37	0.007	0.08	0.1	<0.01	4.0	<0.1	0.08	5	<0.5	<0.2
1274636	Soil	33	39	0.82	65	0.018	1	2.12	0.011	0.10	0.3	0.02	3.8	0.1	0.11	6	<0.5	<0.2
1274637	Soil	38	33	0.71	27	0.008	<1	1.87	0.010	0.05	<0.1	<0.01	2.5	<0.1	0.07	5	<0.5	<0.2
1274640	Soil	43	38	0.72	30	0.001	<1	2.20	0.007	0.04	<0.1	<0.01	3.2	<0.1	0.07	6	<0.5	<0.2
1274904	Soil	37	35	0.86	26	0.005	<1	2.17	0.003	0.04	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
1274646	Soil	27	31	0.70	20	0.003	1	1.77	0.002	0.02	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
1274648	Soil	31	31	0.66	40	0.003	1	1.95	0.007	0.04	<0.1	0.02	2.6	<0.1	0.07	5	<0.5	<0.2
1274634	Soil	27	29	0.55	24	0.009	1	1.45	0.005	0.03	0.2	0.03	1.4	<0.1	0.07	4	<0.5	<0.2
1274638	Soil	33	31	0.59	24	0.003	<1	1.71	0.006	0.03	<0.1	<0.01	2.5	<0.1	0.06	4	<0.5	<0.2
1274657	Soil	38	27	0.48	18	0.006	1	1.50	0.004	0.03	0.3	0.04	1.2	<0.1	0.10	5	<0.5	<0.2
1274656	Soil	37	25	0.61	17	0.006	1	1.66	0.003	0.02	0.1	0.02	1.5	<0.1	0.06	5	<0.5	<0.2

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Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274658	Soil	0.6	40.8	37.1	91	<0.1	28.2	13.7	306	4.47	11.0	1.7	0.8	11.3	10	<0.1	0.7	0.4	19	<0.01	0.046
1274655	Soil	0.8	26.5	29.8	91	<0.1	39.5	21.4	583	4.78	11.6	1.0	<0.5	4.9	6	0.1	0.5	0.5	19	0.02	0.094
1274653	Soil	1.0	26.7	35.9	80	<0.1	22.3	8.9	310	4.44	11.1	1.7	<0.5	9.4	16	<0.1	0.5	0.4	17	0.01	0.083
1274654	Soil	1.1	22.1	34.1	66	<0.1	21.8	17.2	469	4.65	16.1	1.3	0.6	3.4	9	<0.1	0.6	0.5	22	0.01	0.120
1274650	Soil	1.3	39.2	43.6	106	<0.1	37.8	23.1	524	4.67	18.6	1.7	1.1	10.1	35	<0.1	0.8	0.4	13	0.02	0.103
1274649	Soil	0.8	45.2	46.7	152	<0.1	64.2	31.4	472	6.33	17.4	1.7	0.7	12.6	40	<0.1	0.9	0.4	16	0.02	0.108
1274652	Soil	1.6	41.8	54.0	105	<0.1	26.4	14.4	373	5.75	13.6	1.7	0.7	15.7	21	<0.1	0.9	0.5	14	<0.01	0.091
1274651	Rock Pulp	2.5	23.6	2.2	42	0.3	23.4	10.3	392	2.32	4.2	0.2	<0.5	0.8	32	0.1	0.2	<0.1	58	0.70	0.053
1274647	Soil	0.8	39.2	57.7	139	<0.1	31.3	13.2	355	5.24	15.8	1.6	<0.5	7.2	23	0.1	0.8	0.5	19	0.02	0.110
1274668	Soil	0.6	52.8	59.7	112	<0.1	40.5	35.2	629	5.65	24.6	1.7	6.0	17.1	46	<0.1	3.7	0.6	16	0.01	0.070
1274667	Soil	0.4	36.8	24.1	104	<0.1	47.4	31.8	419	4.74	17.5	1.8	2.5	13.8	30	<0.1	2.4	0.4	13	0.01	0.052
1274664	Soil	0.7	52.2	63.4	164	<0.1	99.6	59.1	724	6.90	31.9	3.1	<0.5	13.0	53	<0.1	3.0	0.6	16	0.02	0.114
1274662	Soil	0.9	50.9	52.0	128	<0.1	59.7	52.8	682	5.54	17.8	1.9	<0.5	13.9	22	<0.1	0.9	0.6	17	0.01	0.067
1274669	Soil	0.7	48.2	45.1	128	<0.1	51.1	24.3	390	6.22	32.1	2.0	11.1	13.4	40	0.1	3.8	0.5	15	<0.01	0.080
1274661	Soil	0.8	37.2	26.6	97	<0.1	38.5	19.0	353	5.06	10.3	1.4	1.6	6.9	12	<0.1	1.2	0.5	16	0.01	0.087
1274660	Soil	0.6	80.7	85.6	153	<0.1	46.6	41.8	498	6.11	20.6	2.9	<0.5	15.6	26	<0.1	1.6	1.5	14	0.02	0.088
1274665	Soil	0.9	51.3	52.8	118	0.1	55.5	51.8	1056	5.22	18.3	1.8	<0.5	13.7	35	<0.1	1.7	0.6	14	0.01	0.086
1274666	Soil	0.7	43.4	44.0	114	<0.1	45.9	34.4	592	5.53	15.8	1.3	0.8	10.7	22	<0.1	1.2	0.5	16	0.01	0.058
1274663	Soil	0.6	50.8	72.6	181	<0.1	80.7	52.0	849	4.85	18.8	1.7	<0.5	16.1	25	<0.1	0.6	0.5	14	0.03	0.074
1274817	Soil	1.1	52.6	71.2	84	0.1	25.8	12.8	382	6.49	19.0	1.6	<0.5	5.9	38	<0.1	1.0	0.7	19	0.02	0.164
1274777	Soil	1.1	92.3	159.9	124	0.2	60.1	34.4	639	9.68	47.8	2.6	0.9	33.0	41	<0.1	1.9	1.3	17	<0.01	0.195
1274809	Soil	0.3	28.8	39.6	77	0.1	40.9	33.3	2182	2.45	5.6	0.7	<0.5	2.6	29	0.1	0.4	0.2	9	0.21	0.097
1274659	Soil	0.6	19.2	32.0	70	<0.1	24.3	9.4	273	4.11	12.1	1.1	<0.5	6.0	8	<0.1	0.5	0.4	17	0.01	0.089
1274806	Soil	1.4	87.2	112.2	161	<0.1	65.7	70.5	1990	7.09	29.6	1.4	<0.5	8.0	28	0.4	1.7	0.5	69	0.13	0.107
1274819	Soil	1.4	71.5	108.4	122	0.2	44.7	19.6	443	7.97	33.3	2.4	<0.5	17.4	72	<0.1	1.4	0.8	23	0.02	0.174
1274818	Soil	1.3	70.1	95.1	92	0.2	34.2	15.6	364	7.46	49.2	1.3	<0.5	9.1	46	<0.1	1.1	1.0	25	0.02	0.152
1274804	Soil	1.5	44.8	76.6	94	<0.1	28.1	13.0	345	5.04	28.5	1.3	1.1	5.1	19	<0.1	0.9	0.8	32	0.06	0.127
1274820	Soil	1.4	77.4	156.1	105	0.2	43.0	24.2	565	8.34	38.4	2.6	<0.5	22.3	45	<0.1	1.0	1.1	22	0.01	0.169
1274803	Soil	1.6	280.9	94.2	197	0.2	82.3	89.1	4195	12.03	25.7	0.5	1.0	2.9	31	0.8	0.6	0.3	246	0.46	0.104
1274808	Soil	0.4	15.0	31.3	32	0.1	13.1	8.7	240	1.95	4.9	0.6	<0.5	1.4	10	<0.1	0.3	0.2	10	0.02	0.058

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Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274658	Soil	38	26	0.66	24	0.008	<1	1.72	0.005	0.02	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1274655	Soil	34	27	0.52	17	0.005	2	1.55	0.003	0.03	0.1	0.04	1.5	<0.1	0.10	5	<0.5	<0.2
1274653	Soil	46	31	0.64	30	0.003	<1	1.77	0.009	0.04	<0.1	0.02	1.3	<0.1	0.10	5	<0.5	<0.2
1274654	Soil	47	27	0.43	21	0.007	<1	1.54	0.004	0.03	0.1	0.05	0.8	<0.1	0.12	6	<0.5	<0.2
1274650	Soil	30	25	0.48	23	0.005	1	1.46	0.017	0.04	<0.1	0.03	2.0	<0.1	0.08	4	<0.5	<0.2
1274649	Soil	24	25	0.56	24	0.006	<1	1.70	0.009	0.03	<0.1	0.02	2.0	<0.1	0.10	4	<0.5	<0.2
1274652	Soil	37	29	0.55	36	0.003	<1	1.62	0.010	0.04	<0.1	<0.01	2.4	<0.1	0.09	5	<0.5	<0.2
1274651	Rock Pulp	3	29	0.76	87	0.089	2	1.38	0.071	0.11	13.6	0.01	4.1	<0.1	0.07	5	<0.5	<0.2
1274647	Soil	23	29	0.59	23	0.006	<1	1.65	0.004	0.03	0.1	0.04	1.6	<0.1	0.10	5	<0.5	<0.2
1274668	Soil	45	29	0.84	21	0.002	<1	2.21	0.007	0.03	<0.1	<0.01	2.3	<0.1	0.05	6	<0.5	<0.2
1274667	Soil	45	24	0.65	21	<0.001	2	1.72	0.006	0.04	<0.1	<0.01	2.0	<0.1	0.07	4	<0.5	<0.2
1274664	Soil	41	26	0.70	32	0.004	<1	2.06	0.008	0.03	<0.1	0.02	2.3	<0.1	0.09	5	<0.5	<0.2
1274662	Soil	35	27	0.72	19	0.004	<1	1.85	0.005	0.03	<0.1	<0.01	2.4	<0.1	0.06	5	<0.5	<0.2
1274669	Soil	42	27	0.73	20	0.002	<1	1.95	0.006	0.03	0.1	0.01	2.1	<0.1	0.05	5	<0.5	<0.2
1274661	Soil	37	25	0.50	19	0.003	<1	1.51	0.003	0.02	<0.1	0.03	1.5	<0.1	0.08	5	<0.5	<0.2
1274660	Soil	37	25	0.69	13	0.001	<1	1.85	0.006	0.03	<0.1	<0.01	2.7	<0.1	0.05	5	<0.5	<0.2
1274665	Soil	33	21	0.54	27	0.004	<1	1.51	0.012	0.03	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
1274666	Soil	39	27	0.75	28	0.003	<1	1.95	0.004	0.02	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1274663	Soil	41	22	0.64	23	<0.001	<1	2.00	0.005	0.03	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
1274817	Soil	13	30	0.53	25	0.005	<1	1.63	0.011	0.04	0.1	0.09	1.6	<0.1	0.14	4	0.6	<0.2
1274777	Soil	47	33	0.74	26	0.007	<1	2.02	0.006	0.04	0.1	0.02	3.1	<0.1	0.12	5	<0.5	<0.2
1274809	Soil	8	9	0.15	29	0.008	<1	0.77	0.018	0.03	<0.1	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
1274659	Soil	38	25	0.54	15	0.004	<1	1.53	0.005	0.03	0.1	0.02	1.2	<0.1	0.06	5	<0.5	<0.2
1274806	Soil	18	32	1.00	67	0.006	<1	2.35	0.008	0.04	0.1	0.03	8.8	<0.1	0.08	7	<0.5	<0.2
1274819	Soil	40	37	0.70	42	0.006	<1	1.85	0.014	0.05	0.2	0.02	3.0	<0.1	0.11	5	<0.5	<0.2
1274818	Soil	30	39	0.66	35	0.012	<1	1.74	0.022	0.04	0.2	0.04	2.3	<0.1	0.14	5	<0.5	<0.2
1274804	Soil	23	28	0.58	32	0.018	<1	1.54	0.009	0.04	0.2	0.02	2.1	0.1	0.08	6	0.6	<0.2
1274820	Soil	32	39	0.74	24	0.010	<1	1.86	0.014	0.03	0.1	0.01	2.8	<0.1	0.20	5	<0.5	<0.2
1274803	Soil	14	80	4.32	117	0.047	1	4.77	0.006	0.02	0.2	0.07	31.2	0.1	<0.05	16	0.6	<0.2
1274808	Soil	5	11	0.23	15	0.006	<1	0.76	0.015	0.03	<0.1	0.02	0.5	<0.1	0.07	3	<0.5	<0.2

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274779	Soil		1.1	43.4	95.3	91	0.1	30.9	14.4	318	6.06	88.8	1.2	1.5	6.8	22	<0.1	0.9	0.7	18	0.01	0.151
1274776	Soil		0.9	91.5	280.2	135	0.3	61.7	53.6	787	9.26	152.0	2.6	1.5	27.9	47	0.2	1.2	1.4	20	<0.01	0.189
1274821	Soil		1.0	26.5	52.9	64	0.1	15.5	6.2	289	5.49	36.6	1.2	1.5	4.7	12	<0.1	0.6	0.7	23	0.01	0.164
1274807	Soil		0.9	34.8	57.4	63	0.2	12.9	6.4	265	6.17	18.1	1.8	1.0	12.7	21	<0.1	0.8	0.7	21	0.01	0.127
1274784	Soil		0.7	13.0	22.5	21	<0.1	5.3	2.1	57	2.16	13.8	0.5	1.2	0.9	6	<0.1	0.3	0.4	14	0.01	0.055
1274782	Soil		1.0	47.4	71.3	75	<0.1	36.7	15.1	250	4.93	277.1	1.0	1.0	4.9	20	<0.1	0.7	0.9	15	0.02	0.083
1274823	Soil		1.1	62.5	85.1	156	<0.1	71.6	37.0	641	6.35	26.9	0.8	0.8	12.3	42	0.1	1.3	1.2	17	0.01	0.129
1274781	Soil		1.0	33.2	91.0	81	0.2	40.6	14.8	342	4.52	113.5	0.8	<0.5	2.1	14	0.2	0.6	0.7	24	0.02	0.096
1274814	Soil		1.0	25.0	34.3	50	<0.1	20.8	11.5	228	2.86	17.3	0.8	1.4	0.7	12	<0.1	0.6	0.4	20	0.04	0.092
1274778	Soil		0.3	16.6	404.5	155	0.3	27.7	22.4	2239	3.87	104.1	0.7	0.6	17.5	17	1.9	0.2	<0.1	85	0.76	0.164
1274822	Soil		1.2	46.1	112.2	81	0.2	19.3	8.5	333	7.35	43.2	1.8	1.4	20.8	29	<0.1	0.8	0.9	20	0.02	0.210
1274786	Soil		0.9	76.9	166.5	120	0.2	41.4	23.2	458	7.91	145.0	2.6	<0.5	30.2	27	<0.1	0.9	1.1	18	0.02	0.151
1274824	Soil		0.3	10.5	11.6	12	<0.1	4.5	2.0	28	0.85	6.2	0.4	0.6	0.2	5	<0.1	0.2	0.3	10	0.02	0.074
1274805	Soil		0.8	57.3	122.9	83	0.2	32.2	15.2	349	6.57	21.2	2.0	0.6	15.0	43	<0.1	1.2	0.9	17	0.03	0.138
1274813	Soil		1.2	24.2	32.5	72	<0.1	22.7	11.0	626	4.81	16.5	1.0	0.9	1.9	11	0.1	0.6	0.5	21	0.03	0.213
1274825	Soil		0.2	5.9	12.3	7	<0.1	2.2	0.9	17	0.47	2.3	0.3	0.7	0.1	5	<0.1	0.1	<0.1	7	0.03	0.033
1274788	Soil		0.8	57.3	94.6	91	<0.1	28.3	14.5	389	6.28	90.7	1.8	0.8	23.0	14	<0.1	0.6	0.6	20	<0.01	0.110
1274785	Soil		1.3	23.7	43.9	48	0.2	21.7	7.2	135	5.09	24.9	1.0	0.8	1.8	9	<0.1	0.8	0.5	21	0.01	0.139
1274812	Soil		1.4	78.6	121.0	127	0.2	113.7	134.7	2018	7.42	24.6	3.3	1.0	9.4	33	0.2	1.4	0.9	18	0.10	0.156
1274783	Soil		1.2	96.6	76.1	167	0.1	134.2	50.1	360	8.89	27.3	2.6	0.7	18.2	12	<0.1	0.8	0.5	14	0.02	0.142
1274816	Soil		1.5	43.8	90.8	83	0.1	37.2	17.3	418	5.58	29.0	1.4	1.1	1.8	60	0.1	1.1	0.9	28	0.02	0.174
1274802	Soil		1.1	131.7	65.7	78	0.2	38.6	18.5	354	5.51	17.3	1.0	1.1	9.5	14	0.1	0.7	0.4	33	0.02	0.126
1274811	Soil		1.2	51.4	81.2	86	0.1	40.7	29.6	449	5.88	14.2	1.8	1.6	8.9	23	<0.1	0.8	0.7	17	0.03	0.137
1274787	Soil		0.7	58.9	106.3	101	0.1	28.9	15.6	393	6.75	95.0	1.9	1.3	24.3	16	<0.1	0.7	0.7	19	<0.01	0.108
1274801	Rock Pulp		1.7	472.4	22.4	174	0.2	228.8	83.4	878	16.82	3.3	1.3	34.4	8.5	15	<0.1	0.3	0.2	233	0.31	0.046
1274780	Soil		1.1	41.1	238.1	136	0.1	49.6	40.1	806	4.50	176.9	1.3	<0.5	5.4	13	0.3	0.6	0.6	17	0.04	0.117
1274810	Soil		1.4	105.3	136.0	119	0.3	125.3	54.2	557	7.69	21.2	2.7	1.0	16.5	50	<0.1	1.4	1.4	20	0.03	0.179
1274815	Soil		2.1	194.6	276.8	371	0.5	283.5	219.9	4986	8.95	182.9	3.2	2.5	20.7	101	0.4	2.0	1.7	16	0.12	0.170

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Project: CNE
Report Date: September 05, 2012

CERTIFICATE OF ANALYSIS WHI12000796.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274779	Soil		18	24	0.44	23	0.003	1	1.43	0.005	0.04	0.2	0.04	1.1	<0.1	0.07	5	<0.5	<0.2
1274776	Soil		34	38	0.79	29	0.005	1	2.21	0.016	0.06	0.1	0.02	4.5	<0.1	0.15	6	<0.5	<0.2
1274821	Soil		19	35	0.55	21	0.006	1	1.75	0.006	0.04	0.2	0.06	1.4	<0.1	0.10	6	0.5	<0.2
1274807	Soil		10	31	0.71	30	0.005	<1	1.75	0.008	0.04	0.1	0.03	2.6	<0.1	0.09	5	<0.5	<0.2
1274784	Soil		12	12	0.10	16	0.005	<1	0.74	0.013	0.02	0.2	0.05	0.6	<0.1	0.06	4	<0.5	<0.2
1274782	Soil		17	18	0.36	23	0.006	<1	1.28	0.012	0.02	0.1	0.02	1.2	<0.1	0.07	4	<0.5	<0.2
1274823	Soil		40	34	0.78	32	0.002	<1	2.35	0.004	0.03	<0.1	0.02	1.6	<0.1	0.11	5	<0.5	<0.2
1274781	Soil		13	31	0.40	26	0.006	<1	1.26	0.009	0.03	0.1	0.03	1.1	<0.1	0.09	4	<0.5	<0.2
1274814	Soil		11	16	0.24	27	0.008	1	1.03	0.013	0.04	0.2	0.03	0.6	<0.1	0.07	4	<0.5	<0.2
1274778	Soil		30	155	2.35	26	0.002	<1	3.11	0.002	0.04	<0.1	<0.01	11.1	<0.1	<0.05	7	<0.5	<0.2
1274822	Soil		33	37	0.70	25	0.005	2	1.95	0.010	0.05	0.2	0.06	2.7	<0.1	0.12	6	<0.5	<0.2
1274786	Soil		44	36	0.86	40	0.010	2	2.22	0.011	0.09	<0.1	0.01	4.6	<0.1	0.06	6	<0.5	<0.2
1274824	Soil		6	6	0.04	21	0.005	<1	0.76	0.017	0.02	<0.1	0.02	0.4	<0.1	0.07	3	<0.5	<0.2
1274805	Soil		24	33	0.73	30	0.003	<1	1.89	0.014	0.05	<0.1	0.01	2.8	<0.1	0.10	5	<0.5	<0.2
1274813	Soil		15	23	0.26	52	0.004	<1	1.16	0.004	0.06	0.1	0.03	0.6	<0.1	0.12	4	<0.5	<0.2
1274825	Soil		4	4	0.02	17	0.009	<1	0.54	0.021	0.02	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
1274788	Soil		43	38	0.90	39	0.015	1	2.27	0.008	0.13	<0.1	<0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
1274785	Soil		17	25	0.20	16	0.004	<1	1.12	0.004	0.02	0.1	0.07	0.8	<0.1	0.11	5	<0.5	<0.2
1274812	Soil		16	21	0.49	63	0.005	<1	1.78	0.007	0.06	0.2	0.04	2.6	0.1	0.12	3	<0.5	<0.2
1274783	Soil		28	30	0.55	13	0.002	<1	1.95	0.003	0.02	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
1274816	Soil		19	28	0.35	39	0.005	<1	1.39	0.011	0.05	0.2	0.08	0.8	<0.1	0.16	5	<0.5	<0.2
1274802	Soil		35	36	0.94	30	0.006	<1	2.37	0.014	0.03	0.1	0.04	3.2	<0.1	0.10	7	<0.5	<0.2
1274811	Soil		10	32	0.61	31	0.007	<1	1.91	0.006	0.07	<0.1	0.06	1.6	<0.1	0.12	4	<0.5	<0.2
1274787	Soil		36	37	0.87	41	0.013	2	2.23	0.009	0.15	<0.1	<0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
1274801	Rock Pulp		17	741	0.14	156	0.163	4	4.22	0.015	0.07	<0.1	0.02	49.7	0.1	0.08	21	<0.5	<0.2
1274780	Soil		18	25	0.47	25	0.005	<1	1.47	0.008	0.03	0.1	0.06	1.2	<0.1	0.11	4	<0.5	<0.2
1274810	Soil		14	29	0.65	31	0.009	<1	1.89	0.008	0.06	0.2	0.04	2.3	<0.1	0.16	4	<0.5	<0.2
1274815	Soil		17	27	0.60	57	0.003	<1	2.17	0.013	0.06	<0.1	0.05	4.7	0.2	0.13	5	<0.5	<0.2

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Project: CNE
Report Date: September 05, 2012

QUALITY CONTROL REPORT WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1274698	Soil	0.9	36.5	49.5	66	0.2	19.1	10.0	575	5.70	40.5	1.6	<0.5	5.6	23	<0.1	0.8	0.7	24	0.02	0.173
REP 1274698	QC	1.1	37.4	50.4	66	0.2	18.8	10.0	561	5.77	40.0	1.7	1.4	5.5	23	<0.1	0.7	0.7	27	0.02	0.170
1274689	Soil	0.8	42.5	48.3	90	<0.1	38.5	37.5	926	4.73	36.0	1.3	<0.5	7.9	26	<0.1	0.7	0.6	32	0.05	0.106
REP 1274689	QC	0.9	42.9	50.3	92	0.1	39.7	38.1	916	4.82	38.5	1.2	2.4	8.3	27	<0.1	0.8	0.6	34	0.05	0.113
1274919	Soil	1.0	67.9	95.9	169	0.2	56.4	17.9	375	6.81	21.6	4.9	2.3	22.7	24	<0.1	4.2	1.5	17	<0.01	0.121
REP 1274919	QC	1.0	66.3	95.4	166	0.2	56.2	17.7	369	6.78	21.1	4.9	3.1	22.7	23	<0.1	4.0	1.4	16	<0.01	0.120
1274928	Soil	2.0	57.9	70.2	95	0.2	20.8	8.8	269	7.33	31.3	3.4	4.7	15.9	23	<0.1	2.8	0.9	20	0.02	0.175
REP 1274928	QC	2.1	59.6	69.9	97	0.2	21.6	8.7	278	7.54	32.1	3.5	3.7	16.3	23	<0.1	2.8	0.9	20	0.02	0.175
1274799	Soil	0.8	44.8	44.9	77	<0.1	27.0	29.5	603	5.22	18.8	1.4	2.3	11.9	8	<0.1	0.8	0.5	20	0.02	0.074
REP 1274799	QC	0.8	48.0	47.6	88	0.1	28.5	31.2	637	5.36	20.3	1.5	0.9	13.1	9	<0.1	0.9	0.5	20	0.02	0.079
1274830	Soil	1.2	88.8	69.9	116	0.1	47.0	58.2	646	6.50	29.8	2.8	1.7	29.8	48	<0.1	1.5	0.8	23	0.02	0.099
REP 1274830	QC	1.1	87.9	70.6	112	<0.1	45.4	55.8	644	6.34	29.5	2.8	1.6	30.7	47	<0.1	1.5	0.8	22	0.02	0.096
1274599	Soil	0.8	55.2	58.6	70	<0.1	22.8	16.3	402	4.60	17.5	1.2	1.1	11.6	11	<0.1	0.6	0.6	15	0.04	0.097
REP 1274599	QC	0.9	55.4	57.0	66	<0.1	22.7	15.7	397	4.54	17.7	1.2	0.6	11.3	11	<0.1	0.5	0.5	16	0.04	0.098
1274906	Soil	1.1	113.2	342.7	146	0.2	82.0	68.5	1046	6.86	153.1	2.2	1.6	21.0	10	0.2	0.7	1.2	19	0.02	0.103
REP 1274906	QC	0.9	113.9	349.3	151	0.2	83.0	69.3	1032	6.84	156.5	2.3	1.0	21.1	10	0.2	0.7	1.1	19	0.02	0.108
1274652	Soil	1.6	41.8	54.0	105	<0.1	26.4	14.4	373	5.75	13.6	1.7	0.7	15.7	21	<0.1	0.9	0.5	14	<0.01	0.091
REP 1274652	QC	1.6	42.4	54.3	103	<0.1	25.8	14.3	383	5.79	13.8	1.7	1.2	16.2	21	<0.1	0.9	0.5	14	<0.01	0.089
1274818	Soil	1.3	70.1	95.1	92	0.2	34.2	15.6	364	7.46	49.2	1.3	<0.5	9.1	46	<0.1	1.1	1.0	25	0.02	0.152
REP 1274818	QC	1.2	68.2	95.0	92	0.2	32.6	15.7	358	7.47	48.0	1.4	1.6	9.1	45	<0.1	1.2	0.9	24	0.02	0.154
1274814	Soil	1.0	25.0	34.3	50	<0.1	20.8	11.5	228	2.86	17.3	0.8	1.4	0.7	12	<0.1	0.6	0.4	20	0.04	0.092
REP 1274814	QC	1.0	26.0	35.0	48	<0.1	21.0	11.3	223	2.94	17.6	0.8	1.5	0.7	12	0.1	0.7	0.4	22	0.04	0.088
1274810	Soil	1.4	105.3	136.0	119	0.3	125.3	54.2	557	7.69	21.2	2.7	1.0	16.5	50	<0.1	1.4	1.4	20	0.03	0.179
REP 1274810	QC	1.5	101.6	128.7	115	0.2	120.9	52.6	530	7.27	20.5	2.6	1.7	16.6	49	<0.1	1.3	1.3	20	0.03	0.171
Reference Materials																					
STD DS9	Standard	13.3	105.7	122.9	320	1.8	41.2	7.6	599	2.40	24.8	2.5	113.2	6.2	69	2.4	5.7	5.8	41	0.72	0.083
STD DS9	Standard	13.2	105.0	121.1	312	1.9	37.9	7.2	572	2.28	25.8	3.0	118.0	6.7	81	2.3	6.4	7.1	42	0.73	0.082
STD DS9	Standard	12.7	107.8	119.6	301	1.8	40.1	7.4	558	2.23	23.8	2.4	115.9	6.3	64	2.3	5.1	5.5	40	0.68	0.080

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Project: CNE
Report Date: September 05, 2012

QUALITY CONTROL REPORT WHI12000796.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1274698	Soil	25	32	0.65	27	0.007	<1	1.83	0.005	0.04	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
REP 1274698	QC	25	31	0.66	28	0.007	2	1.83	0.005	0.04	0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
1274689	Soil	26	28	0.86	29	0.011	1	1.71	0.010	0.04	0.2	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
REP 1274689	QC	27	29	0.90	30	0.011	<1	1.79	0.010	0.04	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
1274919	Soil	30	32	0.72	29	<0.001	<1	2.33	0.015	0.04	<0.1	0.01	3.8	<0.1	<0.05	6	0.8	<0.2
REP 1274919	QC	29	32	0.72	28	<0.001	<1	2.38	0.015	0.04	<0.1	0.02	3.4	<0.1	0.06	7	<0.5	<0.2
1274928	Soil	47	35	0.69	35	0.004	<1	1.87	0.019	0.04	0.1	0.02	3.3	<0.1	0.10	6	<0.5	<0.2
REP 1274928	QC	45	35	0.73	34	0.003	<1	1.97	0.018	0.04	0.2	0.02	3.4	<0.1	0.14	6	<0.5	<0.2
1274799	Soil	27	36	0.78	29	0.015	1	1.69	0.004	0.07	0.2	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
REP 1274799	QC	30	38	0.84	30	0.020	<1	1.81	0.007	0.08	0.2	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
1274830	Soil	64	38	0.86	44	0.016	<1	2.04	0.012	0.07	<0.1	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
REP 1274830	QC	63	37	0.86	46	0.015	<1	2.07	0.013	0.07	0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1274599	Soil	28	23	0.58	23	0.007	<1	1.55	0.012	0.04	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
REP 1274599	QC	28	24	0.59	24	0.007	<1	1.52	0.011	0.04	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1274906	Soil	36	35	0.84	30	0.009	1	2.37	0.007	0.08	0.1	<0.01	4.0	<0.1	0.08	5	<0.5	<0.2
REP 1274906	QC	37	35	0.84	30	0.010	5	2.36	0.006	0.12	0.2	0.01	4.1	<0.1	0.08	5	0.5	<0.2
1274652	Soil	37	29	0.55	36	0.003	<1	1.62	0.010	0.04	<0.1	<0.01	2.4	<0.1	0.09	5	<0.5	<0.2
REP 1274652	QC	41	29	0.53	36	0.002	<1	1.59	0.010	0.04	<0.1	<0.01	2.2	<0.1	0.07	5	<0.5	<0.2
1274818	Soil	30	39	0.66	35	0.012	<1	1.74	0.022	0.04	0.2	0.04	2.3	<0.1	0.14	5	<0.5	<0.2
REP 1274818	QC	30	39	0.66	34	0.008	<1	1.73	0.022	0.04	0.1	0.04	2.3	<0.1	0.12	5	<0.5	<0.2
1274814	Soil	11	16	0.24	27	0.008	1	1.03	0.013	0.04	0.2	0.03	0.6	<0.1	0.07	4	<0.5	<0.2
REP 1274814	QC	11	16	0.25	27	0.008	1	1.01	0.015	0.04	0.2	0.02	0.8	<0.1	0.07	4	<0.5	<0.2
1274810	Soil	14	29	0.65	31	0.009	<1	1.89	0.008	0.06	0.2	0.04	2.3	<0.1	0.16	4	<0.5	<0.2
REP 1274810	QC	13	28	0.61	30	0.009	4	1.82	0.008	0.05	0.2	0.03	2.3	<0.1	0.09	4	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	12	120	0.64	301	0.109	2	0.92	0.092	0.40	3.2	0.22	2.7	5.7	0.16	5	5.3	5.3
STD DS9	Standard	13	116	0.72	309	0.111	2	0.93	0.096	0.41	3.0	0.18	2.7	5.5	0.12	5	6.0	5.1
STD DS9	Standard	12	119	0.59	285	0.102	2	0.89	0.092	0.40	3.0	0.20	3.4	5.6	0.15	5	4.8	5.5

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Report Date: September 05, 2012

QUALITY CONTROL REPORT WHI12000796.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
STD DS9	Standard	13.8	114.5	131.2	319	1.9	43.3	8.0	604	2.41	24.3	2.8	117.2	6.7	66	2.3	5.5	5.2	44	0.72	0.081
STD DS9	Standard	11.9	108.3	125.4	311	1.8	42.2	7.7	576	2.28	24.1	2.4	119.7	6.0	61	2.3	5.3	5.5	39	0.68	0.077
STD DS9	Standard	13.1	116.8	124.7	322	1.9	44.3	8.4	612	2.42	26.1	2.7	122.6	6.7	70	2.5	5.6	6.0	43	0.71	0.081
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	0.8	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	0.1	<0.1	1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: CNE
Report Date: September 05, 2012

QUALITY CONTROL REPORT WHI12000796.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
STD DS9	Standard	12	129	0.64	296	0.110	3	0.97	0.107	0.39	3.0	0.21	3.6	5.9	0.18	5	5.1	5.3
STD DS9	Standard	11	120	0.61	284	0.098	3	0.86	0.078	0.37	3.0	0.22	2.2	5.8	0.16	5	4.9	5.1
STD DS9	Standard	12	128	0.66	325	0.106	3	0.97	0.106	0.42	2.9	0.21	3.8	5.7	0.19	5	4.5	5.2
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Andy Randell
Receiving Lab: Canada-Whitehorse
Received: August 31, 2012
Report Date: September 11, 2012
Page: 1 of 8

CERTIFICATE OF ANALYSIS WHI12000797.1

CLIENT JOB INFORMATION

Project: HRN
Shipment ID:
P.O. Number
Number of Samples: 198

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	194	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	198	Dry at 60C			WHI
RJSV	194	Saving all or part of Soil Reject			WHI
1DX2	198	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Dave Schmidt

Isaac Fage

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1367004	Soil		1.1	63.5	47.1	73	0.2	35.2	18.5	570	3.51	288.8	4.7	303.5	12.4	6	0.1	1.4	0.5	15	0.05	0.091
1367005	Soil		0.8	37.8	26.5	54	<0.1	18.4	5.5	329	2.90	54.9	2.2	17.9	4.3	5	<0.1	0.7	0.4	16	0.04	0.092
1367006	Soil		1.0	40.8	27.2	82	<0.1	38.9	21.8	1118	4.55	65.0	1.5	16.4	7.8	5	0.1	1.0	0.6	20	0.05	0.055
1367007	Soil		0.8	43.7	28.2	75	<0.1	29.8	13.4	573	3.88	97.2	1.1	26.6	8.8	3	<0.1	0.7	0.5	18	0.02	0.040
1367008	Soil		0.9	80.4	34.7	94	<0.1	57.7	32.4	1319	4.43	57.8	1.4	4.0	16.0	6	<0.1	0.8	0.9	17	0.11	0.071
1367009	Soil		0.7	26.0	21.0	91	<0.1	28.6	18.2	592	4.02	60.8	1.3	31.0	5.1	6	0.1	0.6	0.5	19	0.05	0.043
1367010	Soil		0.6	91.1	68.1	141	<0.1	107.1	83.0	4716	6.10	48.8	5.7	5.5	14.2	9	0.4	1.9	1.7	16	0.23	0.127
1367011	Soil		1.3	75.6	27.7	104	0.2	73.0	37.6	484	3.21	140.7	3.6	11.4	4.2	7	0.1	0.5	0.3	18	0.09	0.082
1367012	Soil		0.6	36.6	26.5	94	<0.1	37.0	18.4	641	4.33	118.0	1.7	47.4	11.3	4	0.1	0.6	0.5	15	0.05	0.064
1367013	Soil		0.5	97.0	36.5	133	0.2	65.3	34.0	628	4.24	202.8	3.8	89.4	11.8	8	0.1	0.8	0.6	13	0.11	0.054
1367014	Soil		0.5	32.9	23.6	95	<0.1	36.4	19.4	637	4.13	82.6	1.8	19.2	10.1	7	0.1	0.7	0.4	17	0.15	0.060
1367015	Soil		0.5	35.4	22.7	90	0.1	39.1	16.0	545	4.20	350.1	10.6	748.2	13.2	9	<0.1	0.7	0.4	16	0.17	0.049
1367016	Soil		0.6	42.4	26.2	80	0.1	29.7	19.2	788	3.95	88.1	2.4	48.2	7.5	4	0.1	0.7	0.4	17	0.04	0.112
1367017	Soil		0.7	29.8	23.8	74	<0.1	23.9	11.0	592	3.94	63.5	1.6	15.4	5.1	5	0.2	0.5	0.5	18	0.04	0.119
1367018	Soil		0.4	19.0	17.7	52	<0.1	17.3	4.9	396	3.90	32.4	1.7	4.7	4.3	3	<0.1	0.4	0.3	19	0.02	0.106
1367019	Soil		0.6	73.2	30.3	114	<0.1	49.9	26.4	597	4.34	78.1	2.5	16.0	11.8	5	0.1	0.7	0.5	18	0.07	0.070
1367020	Soil		0.6	81.0	23.3	102	<0.1	53.2	32.9	924	4.11	44.5	2.5	17.3	14.5	7	<0.1	0.5	0.5	16	0.05	0.069
1367021	Soil		0.8	62.6	29.3	99	<0.1	46.3	19.4	1105	4.27	65.1	2.2	21.4	10.7	5	<0.1	0.8	0.6	22	0.07	0.080
1367022	Soil		0.9	28.8	22.5	107	<0.1	36.7	19.3	577	3.96	127.4	1.4	20.9	7.5	5	0.1	0.5	0.5	19	0.04	0.059
1367023	Soil		0.8	34.8	20.6	88	<0.1	40.4	13.6	656	4.63	67.7	1.6	88.8	9.8	4	0.1	0.6	0.6	20	0.05	0.068
1367024	Soil		0.7	18.7	19.3	81	<0.1	24.8	14.4	747	3.98	318.5	1.5	25.9	3.6	15	0.1	0.5	0.4	18	0.28	0.093
1367025	Soil		0.8	20.9	20.3	89	<0.1	27.8	13.8	766	4.23	403.4	2.2	40.6	4.4	15	0.1	0.6	0.4	17	0.30	0.092
1367026	Soil		0.5	38.9	25.2	68	0.2	24.7	55.6	769	2.33	307.0	6.4	10.8	2.2	14	0.2	0.5	0.3	14	0.31	0.115
1367027	Soil		1.3	27.2	23.1	66	0.1	17.9	15.8	571	4.33	167.8	1.6	229.2	3.2	6	0.2	0.5	0.5	21	0.04	0.082
1367028	Soil		0.7	26.7	21.3	66	0.2	21.3	18.2	664	3.14	80.4	1.7	28.2	3.6	6	0.1	0.4	0.4	14	0.04	0.096
1367029	Soil		0.8	55.6	23.9	136	0.2	38.7	26.9	828	4.14	184.8	9.5	144.6	9.1	14	0.1	0.7	0.7	16	0.30	0.110
1367030	Soil		0.6	85.2	46.2	107	0.2	58.4	34.6	3243	4.84	35.2	1.8	19.6	7.8	33	0.5	1.3	1.2	16	2.67	0.123
1367031	Soil		0.7	35.3	23.8	60	<0.1	20.8	7.2	498	3.39	35.2	1.7	5.6	10.9	5	<0.1	0.7	0.4	17	0.08	0.074
1367032	Soil		2.0	34.8	37.9	104	<0.1	37.6	29.8	1270	4.29	113.5	2.7	75.3	6.7	7	0.1	0.8	0.7	22	0.09	0.083
1367033	Soil		0.4	21.6	19.3	27	<0.1	9.5	7.0	339	1.40	223.3	1.3	237.0	2.0	5	<0.1	0.4	0.1	11	0.05	0.079

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Project: HRN
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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1367004	Soil		37	29	0.64	21	0.006	<1	1.56	0.007	0.04	0.1	0.05	1.8	<0.1	<0.05	4	<0.5	<0.2
1367005	Soil		19	21	0.54	19	0.009	<1	1.38	0.012	0.04	0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
1367006	Soil		29	29	0.90	33	0.008	<1	2.04	0.003	0.02	0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
1367007	Soil		23	27	0.82	28	0.009	<1	2.00	0.004	0.02	0.2	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
1367008	Soil		17	28	1.30	15	0.007	<1	2.28	0.003	0.02	0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
1367009	Soil		21	28	0.75	38	0.009	<1	1.88	0.003	0.02	0.6	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
1367010	Soil		40	24	0.96	57	0.007	<1	2.69	0.004	0.01	0.2	0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
1367011	Soil		22	22	0.56	23	0.013	<1	1.69	0.011	0.03	0.9	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
1367012	Soil		18	30	0.90	19	0.009	<1	2.46	0.003	0.02	2.3	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
1367013	Soil		25	29	0.93	28	0.009	<1	2.12	0.006	0.02	1.3	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
1367014	Soil		21	31	0.86	23	0.010	<1	2.28	0.004	0.03	1.3	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
1367015	Soil		20	32	0.97	16	0.007	<1	2.22	0.004	0.02	0.9	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
1367016	Soil		14	27	0.81	21	0.008	1	2.17	0.009	0.02	2.3	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
1367017	Soil		12	28	0.60	29	0.009	1	2.27	0.007	0.03	0.4	0.06	1.3	<0.1	<0.05	6	0.6	<0.2
1367018	Soil		12	28	0.53	22	0.007	<1	1.64	0.009	0.02	0.2	0.02	0.9	<0.1	<0.05	7	<0.5	<0.2
1367019	Soil		24	33	0.94	28	0.008	<1	2.34	0.007	0.03	0.4	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
1367020	Soil		19	28	0.86	28	0.007	<1	2.24	0.006	0.02	0.4	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
1367021	Soil		24	32	0.85	43	0.011	1	2.41	0.004	0.04	0.4	0.03	2.6	<0.1	<0.05	6	0.5	<0.2
1367022	Soil		18	31	0.88	29	0.008	1	2.14	0.005	0.03	0.6	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
1367023	Soil		19	33	0.87	23	0.009	<1	2.31	0.004	0.02	0.5	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
1367024	Soil		22	27	0.73	27	0.008	<1	2.01	0.006	0.03	0.8	0.01	1.3	<0.1	<0.05	7	<0.5	<0.2
1367025	Soil		22	29	0.78	26	0.009	1	2.04	0.005	0.03	0.6	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
1367026	Soil		34	17	0.39	27	0.011	<1	1.57	0.017	0.03	1.9	0.02	1.2	<0.1	<0.05	3	0.7	<0.2
1367027	Soil		12	28	0.48	30	0.009	<1	1.84	0.006	0.03	1.4	0.03	1.1	<0.1	<0.05	8	<0.5	<0.2
1367028	Soil		12	21	0.55	45	0.007	<1	1.57	0.009	0.03	0.9	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
1367029	Soil		39	29	0.84	27	0.007	<1	2.27	0.005	0.03	1.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
1367030	Soil		30	24	0.75	38	0.009	1	1.73	0.010	0.02	0.6	0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
1367031	Soil		9	25	0.72	15	0.010	<1	1.72	0.014	0.03	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1367032	Soil		25	29	0.79	45	0.008	<1	2.06	0.005	0.03	0.2	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
1367033	Soil		13	9	0.22	20	0.011	1	0.93	0.022	0.03	<0.1	0.04	0.8	<0.1	<0.05	3	<0.5	<0.2

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Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1367034	Soil	0.4	26.3	18.8	30	0.1	9.7	7.2	234	1.47	214.6	1.9	1117	1.0	5	<0.1	0.4	0.2	11	0.05	0.061
1367035	Soil	0.7	79.0	44.1	77	0.1	32.7	28.5	642	3.85	144.6	5.2	272.4	11.2	8	<0.1	1.5	0.4	16	0.06	0.089
1367036	Soil	0.7	20.1	47.1	64	<0.1	27.2	29.3	1414	3.77	56.7	1.0	8.8	5.0	4	<0.1	0.5	0.5	19	0.02	0.094
1367037	Soil	0.6	47.7	19.5	84	0.1	34.0	18.0	740	4.16	67.2	1.8	7.1	8.6	5	<0.1	0.8	0.4	18	0.04	0.116
1367038	Soil	0.6	38.0	16.2	31	0.2	10.1	5.5	307	1.36	47.7	1.2	1.8	0.7	6	0.2	0.2	0.2	12	0.04	0.068
1367039	Soil	0.6	22.3	15.3	57	<0.1	26.2	11.0	991	3.71	34.1	1.0	3.2	3.0	5	<0.1	0.3	0.3	19	0.03	0.097
1367040	Soil	1.1	152.4	77.2	114	0.1	59.4	56.4	3641	4.96	55.9	1.7	2.7	18.9	9	0.2	1.8	0.8	23	0.12	0.071
1367041	Soil	0.5	122.2	51.1	89	<0.1	61.8	42.2	1749	4.37	64.3	1.0	4.9	16.1	7	<0.1	1.1	0.8	18	0.15	0.070
1367042	Soil	1.1	116.2	46.6	94	<0.1	60.7	49.7	1563	4.92	76.9	1.1	4.8	18.5	6	<0.1	1.0	0.7	21	0.13	0.060
1367043	Soil	0.7	14.3	16.4	60	<0.1	30.3	11.2	956	4.47	20.6	0.4	0.9	5.1	3	<0.1	0.2	0.4	21	0.06	0.088
1367044	Soil	0.7	39.2	31.6	85	<0.1	32.8	20.9	518	3.33	121.4	4.1	26.8	6.9	10	<0.1	0.4	0.6	13	0.17	0.093
1367045	Soil	0.7	19.2	15.5	77	<0.1	27.7	8.0	431	3.52	36.8	1.7	1.6	7.3	7	<0.1	0.2	0.3	14	0.10	0.066
1367046	Soil	0.5	39.8	24.1	75	0.2	33.7	14.9	588	3.48	33.0	1.2	4.1	8.1	3	<0.1	0.5	0.4	14	0.02	0.068
1367047	Soil	0.6	28.2	23.3	71	0.2	29.0	11.3	506	4.12	50.4	1.1	9.6	6.9	4	0.1	0.5	0.4	16	0.02	0.064
1367048	Soil	0.6	23.9	21.0	63	<0.1	22.5	9.4	439	3.42	35.7	1.1	6.8	3.4	7	<0.1	0.4	0.3	15	0.02	0.059
1367049	Soil	0.6	55.1	25.5	100	0.1	47.4	19.1	630	4.66	33.3	1.6	8.6	14.2	4	0.1	0.5	0.5	15	0.05	0.061
1367050	Soil	0.5	30.0	21.2	66	<0.1	25.2	11.6	592	3.74	29.7	1.2	32.0	7.1	3	<0.1	0.4	0.3	14	0.04	0.102
1367051	Rock Pulp	2.3	24.6	2.4	40	0.3	22.4	10.1	390	2.32	4.5	0.3	2.0	0.9	38	0.2	0.3	<0.1	57	0.82	0.061
1367052	Soil	0.6	28.9	19.1	78	<0.1	29.1	11.7	666	4.39	53.1	1.2	8.8	7.1	4	<0.1	0.4	0.4	17	0.04	0.090
1367053	Soil	0.7	17.6	13.3	45	<0.1	12.9	4.6	276	3.30	59.5	1.0	177.1	2.3	4	<0.1	0.3	0.3	16	0.02	0.062
1367054	Soil	0.8	39.4	30.5	70	0.2	29.7	16.7	462	3.58	177.9	1.9	639.4	8.8	6	<0.1	0.5	0.4	14	0.04	0.087
1367055	Soil	5.1	124.9	55.0	89	<0.1	33.8	12.3	513	4.12	129.1	7.8	28.9	7.1	18	0.1	1.2	1.2	18	0.20	0.100
1367056	Soil	0.8	53.5	14.6	86	<0.1	44.9	18.6	951	4.03	30.5	3.3	1.1	13.9	7	<0.1	0.4	0.3	17	0.09	0.039
1367057	Soil	0.6	29.9	11.0	79	<0.1	36.7	13.9	704	4.10	36.5	1.4	3.9	9.2	6	<0.1	0.4	0.3	16	0.08	0.030
1367058	Soil	0.6	12.7	5.5	19	0.1	6.4	5.6	170	0.92	13.8	1.1	11.0	0.7	6	<0.1	0.1	0.1	8	0.06	0.040
1367059	Soil	1.0	28.7	16.0	72	0.2	23.8	17.0	506	2.88	28.7	1.9	3.4	6.9	5	<0.1	0.4	0.3	12	0.06	0.047
1367060	Soil	1.2	45.1	34.7	74	<0.1	25.2	30.8	894	4.32	66.8	4.5	6.3	2.8	8	<0.1	0.7	0.5	24	0.06	0.111
1367061	Soil	0.3	24.4	8.8	54	<0.1	26.4	6.2	338	3.52	13.6	1.6	1.8	4.8	3	<0.1	0.3	0.2	17	0.03	0.064
1367062	Soil	0.5	55.5	29.4	73	<0.1	29.0	11.4	477	3.92	59.6	1.2	11.0	9.2	4	<0.1	0.4	0.3	15	0.03	0.046
1367063	Soil	0.6	23.2	16.4	57	<0.1	19.3	6.5	343	3.50	72.6	1.2	58.0	5.2	5	<0.1	0.3	0.3	17	0.04	0.062

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1367034	Soil	15	9	0.23	20	0.010	<1	0.95	0.020	0.02	<0.1	0.02	0.9	<0.1	<0.05	3	<0.5	<0.2
1367035	Soil	40	26	0.73	24	0.011	<1	1.78	0.014	0.03	0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1367036	Soil	14	27	0.85	34	0.007	1	1.79	0.007	0.03	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
1367037	Soil	30	32	0.77	24	0.006	8	1.99	0.011	0.03	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
1367038	Soil	14	9	0.18	22	0.006	<1	0.71	0.020	0.03	<0.1	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
1367039	Soil	15	24	0.66	24	0.009	<1	1.68	0.011	0.03	<0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
1367040	Soil	52	32	1.31	32	0.005	2	2.45	0.002	0.02	<0.1	0.03	3.2	<0.1	<0.05	7	<0.5	<0.2
1367041	Soil	47	30	1.65	12	0.007	2	2.39	0.003	0.02	<0.1	0.01	2.7	<0.1	<0.05	7	<0.5	0.3
1367042	Soil	53	43	1.77	12	0.003	3	2.81	0.003	0.02	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
1367043	Soil	15	29	1.10	7	0.008	2	1.89	0.005	0.01	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
1367044	Soil	23	25	0.75	25	0.007	2	1.66	0.007	0.02	0.6	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
1367045	Soil	20	28	0.83	15	0.007	1	1.85	0.005	0.02	0.2	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
1367046	Soil	19	24	0.71	27	0.006	2	1.68	0.006	0.02	0.2	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
1367047	Soil	20	29	0.76	22	0.007	2	1.92	0.004	0.02	0.3	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
1367048	Soil	16	23	0.62	31	0.007	1	1.67	0.009	0.02	0.3	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
1367049	Soil	24	34	1.03	16	0.005	1	2.31	0.003	0.02	0.2	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
1367050	Soil	18	26	0.74	18	0.007	2	1.79	0.007	0.02	0.4	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
1367051	Rock Pulp	4	30	0.77	93	0.112	3	1.49	0.075	0.12	15.0	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1367052	Soil	19	29	0.82	23	0.008	2	2.02	0.004	0.02	0.6	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
1367053	Soil	15	20	0.45	18	0.008	1	1.22	0.003	0.02	1.8	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
1367054	Soil	18	23	0.63	25	0.008	2	1.72	0.003	0.02	2.1	0.04	1.3	<0.1	<0.05	5	<0.5	<0.2
1367055	Soil	59	27	0.66	34	0.006	1	1.79	0.005	0.03	0.6	0.02	1.6	<0.1	<0.05	6	0.6	<0.2
1367056	Soil	58	29	1.20	17	0.005	<1	2.25	0.003	0.02	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
1367057	Soil	28	30	1.03	27	0.005	<1	2.07	0.003	0.02	0.2	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
1367058	Soil	11	7	0.17	13	0.007	1	0.62	0.022	0.02	0.1	0.02	0.5	<0.1	<0.05	2	<0.5	<0.2
1367059	Soil	33	22	0.70	18	0.005	<1	1.69	0.010	0.02	0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
1367060	Soil	36	26	0.55	36	0.008	1	1.65	0.004	0.03	0.3	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
1367061	Soil	15	27	0.68	16	0.006	<1	1.67	0.006	0.02	<0.1	0.01	1.4	<0.1	<0.05	7	<0.5	<0.2
1367062	Soil	22	27	0.80	36	0.006	1	2.07	0.005	0.03	0.4	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
1367063	Soil	23	23	0.64	24	0.005	<1	1.48	0.004	0.03	0.4	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2

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		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1367064	Soil		0.4	15.8	13.8	16	0.2	5.9	2.3	103	1.02	14.5	0.8	6.6	0.4	4	<0.1	0.1	<0.1	10	0.03	0.046
1367065	Soil		0.5	11.5	12.9	29	0.2	7.5	2.9	178	2.51	72.0	0.7	66.7	1.2	3	<0.1	0.3	0.3	18	0.01	0.057
1367066	Soil		0.7	101.3	26.9	53	0.2	29.0	12.3	253	2.51	48.9	3.8	2.5	4.1	10	<0.1	0.3	0.3	12	0.10	0.054
1367067	Soil		0.8	54.1	38.4	121	<0.1	80.2	38.7	1098	4.88	89.9	2.1	14.6	15.8	7	0.1	0.7	0.7	18	0.12	0.078
1274888	Soil		1.2	102.3	40.6	89	<0.1	51.6	57.9	791	4.52	57.8	3.0	3.4	8.2	6	<0.1	1.7	0.7	18	0.06	0.092
1274889	Soil		0.8	81.9	26.9	86	0.1	32.2	11.1	638	5.13	34.3	3.3	2.9	11.7	4	<0.1	1.2	0.4	19	0.04	0.108
1274890	Soil		0.8	53.0	24.2	91	<0.1	37.9	19.8	756	5.05	43.6	2.7	5.2	11.9	4	<0.1	1.2	0.5	19	0.05	0.096
1274891	Soil		2.1	99.4	94.0	91	0.2	58.0	81.5	1739	4.23	432.4	5.0	177.1	17.8	7	<0.1	1.2	0.8	14	0.08	0.097
1274892	Soil		0.7	98.1	52.5	86	<0.1	52.7	52.2	2116	4.38	180.0	1.6	23.6	16.3	4	<0.1	0.6	0.9	16	0.07	0.065
1274893	Soil		0.5	23.2	38.3	72	0.1	38.3	26.6	2242	4.16	81.6	0.7	4.9	9.0	4	<0.1	0.3	0.5	18	0.05	0.085
1274894	Soil		1.0	23.0	47.4	48	0.1	24.6	16.2	1869	3.24	80.9	0.9	14.9	5.6	3	<0.1	0.4	0.8	18	0.02	0.154
1274895	Soil		0.9	42.1	25.7	70	0.1	30.4	19.2	1781	3.95	50.2	1.4	3.9	7.5	9	<0.1	0.5	0.5	17	0.14	0.104
1274896	Soil		0.6	57.3	32.1	96	0.1	46.3	30.5	1302	3.67	135.0	3.9	27.0	6.8	122	0.2	0.6	0.4	12	9.38	0.070
1274897	Soil		0.5	27.9	12.5	61	<0.1	26.9	10.1	640	3.21	19.1	0.6	5.2	4.9	2	0.1	0.2	0.3	15	0.06	0.063
1274898	Soil		0.6	14.1	8.0	25	<0.1	6.6	4.8	780	1.02	3.1	0.4	1.0	0.1	8	<0.1	0.1	0.2	11	0.13	0.149
1274899	Soil		2.2	47.1	23.5	72	0.1	33.3	17.2	633	4.11	33.7	2.5	1.7	4.0	11	<0.1	0.5	0.4	19	0.16	0.088
1274900	Soil		0.6	24.4	19.4	49	0.1	16.7	7.9	796	3.59	27.0	1.0	2.7	2.5	3	<0.1	0.4	0.4	19	0.02	0.131
1367102	Soil		0.9	28.7	18.8	75	<0.1	30.5	12.4	710	5.13	49.7	1.3	6.2	7.4	4	<0.1	0.2	0.4	19	0.02	0.060
1367103	Soil		0.6	20.6	14.6	53	<0.1	20.3	8.1	372	2.96	29.5	1.0	2.5	2.4	4	<0.1	0.3	0.3	15	0.03	0.059
1367104	Soil		0.6	27.3	16.4	62	<0.1	29.9	12.5	529	3.99	17.2	0.9	46.3	4.3	4	0.1	0.3	0.3	19	0.04	0.071
1367105	Soil		0.5	27.0	17.9	66	<0.1	31.2	15.9	998	3.91	29.5	0.9	2.5	4.3	3	<0.1	0.4	0.4	20	0.03	0.084
1367106	Soil		0.8	18.3	10.6	49	<0.1	22.1	9.1	502	4.06	14.1	0.8	<0.5	2.0	4	<0.1	0.3	0.3	20	0.03	0.080
1367107	Soil		3.3	99.1	62.9	95	<0.1	43.9	17.9	813	4.71	154.7	4.5	5.3	6.6	10	<0.1	0.9	0.6	18	0.08	0.056
1367108	Soil		1.6	57.1	42.8	87	<0.1	36.1	20.8	916	3.51	65.3	2.7	1.1	4.8	16	0.1	0.6	0.5	16	0.23	0.099
1367109	Soil		1.0	77.1	32.7	128	<0.1	58.8	28.8	1071	4.43	160.2	3.6	39.8	16.5	11	<0.1	1.0	0.5	17	0.13	0.046
1367116	Soil		0.8	34.9	31.8	22	0.3	8.7	3.5	136	1.64	28.4	2.2	8.4	0.8	10	<0.1	0.3	0.3	17	0.06	0.081
1367118	Soil		0.4	12.7	8.9	41	<0.1	15.3	4.8	259	2.45	43.8	0.7	20.1	2.7	4	<0.1	0.3	0.2	16	0.02	0.037
1367119	Soil		0.5	151.3	19.2	143	0.2	94.4	42.9	641	3.43	61.5	8.0	18.3	9.7	14	0.1	0.4	0.5	15	0.26	0.055
1274960	Soil		0.7	106.2	47.7	117	0.2	85.5	46.8	2842	5.60	54.6	2.2	9.5	9.9	18	0.2	1.6	1.4	16	0.51	0.109
1274958	Soil		0.4	23.2	19.5	33	<0.1	14.4	10.0	363	1.69	14.2	1.2	<0.5	1.0	5	<0.1	0.3	0.2	10	0.04	0.060

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Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1367064	Soil		15	7	0.12	19	0.006	1	0.71	0.019	0.02	0.1	0.03	0.3	<0.1	<0.05	3	<0.5	<0.2
1367065	Soil		14	13	0.22	20	0.007	1	0.93	0.009	0.03	0.6	0.03	0.6	<0.1	<0.05	5	<0.5	<0.2
1367066	Soil		79	16	0.39	27	0.008	<1	1.37	0.016	0.03	0.2	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
1367067	Soil		27	32	0.99	43	0.005	<1	2.42	0.005	0.03	0.2	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
1274888	Soil		28	31	0.83	24	0.008	<1	1.98	0.004	0.03	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
1274889	Soil		37	36	0.94	17	0.006	1	2.32	0.007	0.03	<0.1	0.04	2.7	<0.1	<0.05	7	<0.5	<0.2
1274890	Soil		34	38	0.98	17	0.005	<1	2.35	0.006	0.03	<0.1	0.02	2.9	<0.1	<0.05	8	<0.5	<0.2
1274891	Soil		36	27	1.00	22	0.005	<1	2.03	0.006	0.03	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
1274892	Soil		15	30	1.33	17	0.005	1	2.55	0.003	0.02	0.1	0.02	2.5	<0.1	<0.05	7	<0.5	0.3
1274893	Soil		9	29	1.14	18	0.006	1	2.15	0.004	0.02	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
1274894	Soil		11	20	0.66	19	0.007	<1	1.48	0.006	0.02	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
1274895	Soil		17	26	0.87	28	0.007	2	1.83	0.006	0.03	0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
1274896	Soil		21	21	0.67	28	0.005	1	1.46	0.006	0.02	0.5	<0.01	2.3	<0.1	0.06	4	<0.5	<0.2
1274897	Soil		12	23	0.77	13	0.006	<1	1.63	0.007	0.02	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
1274898	Soil		3	8	0.15	22	0.001	<1	0.59	0.011	0.03	<0.1	0.03	0.5	<0.1	0.14	2	<0.5	<0.2
1274899	Soil		24	24	0.55	33	0.004	7	1.58	0.005	0.03	0.1	0.01	1.0	<0.1	0.05	7	<0.5	<0.2
1274900	Soil		12	22	0.43	32	0.006	7	1.51	0.005	0.02	0.3	0.05	0.7	<0.1	0.09	6	0.7	<0.2
1367102	Soil		18	32	0.86	20	0.008	<1	2.08	0.002	0.02	0.4	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
1367103	Soil		13	21	0.59	22	0.007	<1	1.60	0.009	0.02	0.2	0.02	0.7	<0.1	0.07	4	<0.5	<0.2
1367104	Soil		20	27	0.78	24	0.007	8	1.92	0.005	0.02	0.2	0.03	1.1	<0.1	<0.05	6	0.6	<0.2
1367105	Soil		15	27	0.88	23	0.008	<1	2.02	0.008	0.03	0.2	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
1367106	Soil		18	25	0.74	16	0.009	<1	1.77	0.008	0.02	0.2	0.03	0.7	<0.1	<0.05	7	<0.5	<0.2
1367107	Soil		55	32	0.93	37	0.008	<1	2.11	0.004	0.03	0.4	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
1367108	Soil		43	25	0.90	46	0.008	<1	2.01	0.009	0.03	0.6	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
1367109	Soil		41	35	1.09	34	0.005	<1	2.46	0.007	0.04	0.3	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
1367116	Soil		54	11	0.16	43	0.007	<1	1.31	0.015	0.03	0.3	0.03	0.2	<0.1	<0.05	4	0.6	<0.2
1367118	Soil		16	17	0.47	23	0.006	<1	1.15	0.011	0.02	0.2	0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
1367119	Soil		261	26	0.78	34	0.005	<1	1.85	0.006	0.04	0.2	0.02	2.5	<0.1	<0.05	6	1.8	<0.2
1274960	Soil		23	24	0.88	49	0.007	<1	2.04	0.010	0.03	0.2	0.01	3.7	<0.1	<0.05	6	1.0	<0.2
1274958	Soil		13	13	0.35	22	0.009	<1	0.98	0.022	0.03	<0.1	0.03	0.3	<0.1	<0.05	3	0.7	<0.2

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600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274964	Soil	0.7	63.5	24.9	91	0.1	47.8	22.7	938	4.00	76.3	2.3	3.3	8.3	9	<0.1	0.5	0.5	19	0.23	0.057
1274955	Soil	0.5	59.5	35.4	81	<0.1	35.3	31.2	887	3.55	34.6	2.4	9.0	12.0	5	<0.1	0.6	0.4	15	0.05	0.051
1274957	Soil	0.4	72.4	61.6	97	0.1	42.0	46.9	1039	4.30	57.3	2.8	7.1	14.5	6	<0.1	0.9	0.6	15	0.06	0.079
1274959	Soil	0.4	40.0	33.7	58	<0.1	20.9	21.8	779	2.46	21.2	1.6	3.4	6.7	5	<0.1	0.5	0.3	14	0.06	0.076
1274965	Soil	0.6	16.0	23.6	65	<0.1	24.1	14.0	1398	4.32	27.9	0.6	<0.5	3.5	3	<0.1	0.4	0.5	22	0.03	0.115
1274954	Soil	0.5	38.4	67.8	74	<0.1	32.8	30.8	1240	3.19	42.4	2.8	16.2	14.7	11	0.2	0.6	0.4	14	0.16	0.089
1274956	Soil	1.0	69.0	31.8	69	<0.1	29.6	17.4	583	3.53	51.1	3.3	16.6	11.5	5	<0.1	1.4	0.5	15	0.05	0.067
1274961	Soil	0.6	124.4	49.1	105	0.3	88.3	49.7	4066	5.14	152.5	4.3	11.3	10.1	11	0.4	0.8	1.5	18	0.33	0.151
1274963	Soil	0.9	27.3	34.6	71	<0.1	26.4	18.6	1003	3.98	51.0	1.3	<0.5	2.6	7	<0.1	0.5	0.7	24	0.05	0.082
1274962	Soil	0.5	47.8	26.8	96	<0.1	44.1	19.1	793	4.35	113.2	1.1	44.8	13.5	5	<0.1	0.6	0.5	18	0.07	0.058
1367117	Soil	0.7	18.0	14.6	64	0.1	21.6	7.6	386	4.13	50.0	1.2	9.5	3.7	4	<0.1	0.3	0.4	23	0.02	0.055
1367113	Soil	0.7	27.2	20.7	71	<0.1	27.8	13.9	481	4.07	58.5	1.1	7.9	8.8	5	<0.1	0.5	0.4	22	0.04	0.040
1367115	Soil	0.8	111.7	49.3	73	0.2	31.3	11.0	403	3.95	106.6	5.9	<0.5	5.7	9	<0.1	0.4	0.4	16	0.11	0.127
1367112	Soil	0.9	36.1	28.2	54	0.1	21.3	30.1	1182	2.62	54.8	5.1	<0.5	1.8	13	0.1	0.3	0.3	15	0.13	0.094
1367110	Soil	1.0	87.1	19.0	102	0.2	54.5	23.7	632	3.73	74.1	4.6	281.1	13.6	10	<0.1	0.6	0.3	18	0.12	0.056
1367101	Rock Pulp	1.3	407.7	21.9	163	0.2	202.8	69.7	822	15.05	3.5	1.2	31.0	7.4	18	0.1	0.4	0.2	197	0.28	0.042
1367111	Soil	0.9	21.7	13.4	45	<0.1	13.9	5.6	351	4.16	72.1	0.9	36.5	1.2	5	<0.1	0.6	0.4	19	0.02	0.085
1367114	Soil	0.6	51.9	32.7	100	<0.1	41.4	21.2	2607	5.21	48.3	1.9	6.0	7.9	7	0.2	0.4	0.6	22	0.06	0.107
1274977	Soil	0.6	33.2	33.5	59	0.1	22.2	16.8	720	2.77	21.7	1.7	<0.5	6.1	6	<0.1	0.4	0.3	16	0.06	0.077
1274979	Soil	0.7	17.9	14.4	62	<0.1	19.6	7.3	545	4.61	32.8	1.1	<0.5	4.9	3	<0.1	0.4	0.5	23	0.01	0.097
1274978	Soil	0.8	32.3	20.1	87	<0.1	29.9	11.0	707	4.72	30.1	1.6	6.3	9.8	4	<0.1	0.6	0.4	20	0.03	0.087
1274973	Soil	0.4	26.7	18.4	92	<0.1	37.1	16.2	699	4.35	26.9	1.0	7.4	8.9	5	<0.1	0.4	0.3	18	0.08	0.073
1274976	Soil	0.4	20.8	14.8	38	<0.1	14.9	5.2	379	2.13	17.0	0.8	2.1	1.7	4	<0.1	0.4	0.2	14	0.02	0.078
1274972	Soil	0.4	15.5	13.0	55	<0.1	25.5	10.3	726	3.41	13.1	0.7	36.8	4.3	4	<0.1	0.3	0.3	21	0.03	0.070
1274971	Soil	0.5	15.1	11.7	34	<0.1	13.0	7.0	557	1.94	12.2	0.7	2.2	0.7	5	<0.1	0.2	0.2	16	0.04	0.065
1274970	Soil	0.5	23.9	34.5	61	<0.1	24.0	13.9	820	2.77	20.0	1.0	4.7	9.5	4	<0.1	0.3	0.3	16	0.05	0.069
1274966	Soil	0.6	37.5	20.1	83	<0.1	38.8	14.2	783	4.85	34.8	0.8	9.4	9.7	3	<0.1	0.4	0.6	21	0.02	0.061
1274969	Soil	0.5	28.7	33.8	44	<0.1	17.8	9.9	504	1.99	16.0	1.0	2.0	2.7	5	<0.1	0.3	0.3	11	0.05	0.072
1274968	Soil	0.4	20.5	14.7	73	<0.1	32.6	8.1	662	4.07	23.4	0.7	10.1	7.1	3	<0.1	0.4	0.4	18	0.04	0.066
1274967	Soil	0.6	14.5	12.7	42	<0.1	15.6	5.6	313	2.45	18.9	0.5	13.5	0.7	4	<0.1	0.2	0.3	17	0.02	0.048

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	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274964	Soil	27	31	0.96	23	0.008	<1	2.21	0.007	0.03	0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
1274955	Soil	25	26	0.92	22	0.005	<1	1.93	0.010	0.03	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
1274957	Soil	27	30	0.91	22	0.002	<1	2.22	0.004	0.03	<0.1	0.02	1.5	<0.1	<0.05	6	0.5	<0.2
1274959	Soil	21	19	0.56	20	0.008	<1	1.41	0.014	0.03	<0.1	0.04	1.1	<0.1	<0.05	4	<0.5	<0.2
1274965	Soil	8	28	1.03	22	0.008	<1	1.89	0.005	0.03	0.1	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
1274954	Soil	26	22	0.67	27	0.005	<1	1.56	0.004	0.03	0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
1274956	Soil	26	23	0.83	21	0.007	<1	1.72	0.013	0.03	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1274961	Soil	28	22	0.93	36	0.011	<1	2.70	0.012	0.02	0.2	0.03	4.3	<0.1	<0.05	7	<0.5	0.2
1274963	Soil	14	27	0.83	27	0.007	<1	1.83	0.008	0.03	0.3	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
1274962	Soil	20	30	0.93	20	0.007	7	2.38	0.005	0.03	0.4	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
1367117	Soil	22	26	0.82	20	0.008	<1	1.69	0.004	0.03	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
1367113	Soil	23	28	0.90	32	0.008	<1	2.09	0.004	0.03	0.4	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
1367115	Soil	75	29	0.83	28	0.006	<1	2.02	0.005	0.03	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
1367112	Soil	51	18	0.55	32	0.006	<1	1.40	0.013	0.03	<0.1	0.02	0.6	<0.1	<0.05	5	<0.5	<0.2
1367110	Soil	48	28	0.90	32	0.006	10	2.07	0.009	0.06	0.4	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
1367101	Rock Pulp	18	528	0.15	147	0.151	3	3.94	0.015	0.06	<0.1	0.03	38.4	<0.1	<0.05	19	<0.5	<0.2
1367111	Soil	15	23	0.47	19	0.007	<1	1.26	0.005	0.02	0.5	0.02	0.4	<0.1	<0.05	6	<0.5	<0.2
1367114	Soil	49	29	0.88	38	0.011	<1	2.22	0.006	0.04	0.1	0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
1274977	Soil	16	20	0.66	23	0.012	<1	1.84	0.014	0.03	0.2	0.05	1.2	<0.1	<0.05	5	<0.5	<0.2
1274979	Soil	19	28	0.73	23	0.006	<1	1.69	0.005	0.03	0.3	0.02	1.0	<0.1	<0.05	8	<0.5	<0.2
1274978	Soil	35	35	0.92	17	0.005	<1	2.38	0.004	0.02	0.1	0.01	1.8	<0.1	<0.05	8	<0.5	<0.2
1274973	Soil	20	33	0.91	21	0.007	<1	2.31	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
1274976	Soil	13	16	0.43	17	0.007	<1	1.18	0.014	0.02	<0.1	0.03	0.4	<0.1	<0.05	4	0.5	<0.2
1274972	Soil	19	23	0.89	23	0.007	<1	1.76	0.004	0.02	0.2	0.01	0.9	<0.1	<0.05	6	0.6	<0.2
1274971	Soil	14	13	0.47	27	0.009	<1	1.24	0.017	0.03	0.2	<0.01	0.3	<0.1	<0.05	4	<0.5	<0.2
1274970	Soil	22	22	0.78	19	0.008	<1	1.60	0.007	0.03	0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
1274966	Soil	12	36	1.18	17	0.007	14	2.50	0.002	0.02	0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
1274969	Soil	16	16	0.42	18	0.009	1	1.22	0.011	0.02	<0.1	0.05	0.8	<0.1	<0.05	4	<0.5	<0.2
1274968	Soil	27	32	0.92	12	0.006	<1	2.00	0.004	0.02	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
1274967	Soil	9	18	0.45	18	0.009	<1	1.22	0.008	0.02	0.2	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2

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Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274980	Soil	1.4	109.1	39.0	79	0.2	40.1	30.5	1162	2.62	148.6	4.9	11.9	1.4	20	0.1	0.5	0.5	15	0.41	0.078
1274981	Soil	1.1	24.8	14.7	84	<0.1	34.1	12.3	804	4.18	62.7	1.3	5.3	5.2	5	0.1	0.4	0.5	20	0.08	0.069
1274982	Soil	0.7	62.8	27.3	136	0.1	60.5	35.1	886	4.42	191.4	8.1	8.3	14.6	13	0.1	0.7	0.7	17	0.39	0.063
1274983	Soil	0.6	80.4	37.9	140	<0.1	62.9	37.1	681	3.89	201.4	8.5	23.4	9.2	15	<0.1	0.6	0.7	15	0.27	0.085
1274984	Soil	0.4	77.4	26.4	108	<0.1	52.7	29.3	994	4.41	50.6	2.2	12.0	14.0	6	0.1	0.7	0.5	19	0.10	0.069
1274985	Soil	0.7	31.8	20.9	47	0.1	18.4	8.4	498	2.79	18.7	1.4	4.0	2.7	4	<0.1	0.5	0.4	14	0.05	0.084
1274986	Soil	0.9	35.6	29.4	78	<0.1	35.5	17.0	676	5.95	44.0	1.3	3.0	5.0	4	<0.1	0.8	0.6	22	0.04	0.098
1274987	Soil	0.8	40.9	26.2	58	0.2	21.3	9.5	582	5.65	35.4	1.7	3.1	4.7	3	<0.1	0.8	0.6	23	0.02	0.143
1274988	Soil	0.6	35.3	15.7	74	<0.1	28.9	8.2	549	4.07	27.1	2.1	6.6	10.8	4	<0.1	0.9	0.4	17	0.07	0.068
1274873	Soil	0.6	34.9	22.2	97	<0.1	49.5	15.0	699	4.56	39.4	1.5	8.6	13.7	3	0.1	0.6	0.5	17	0.07	0.079
1274868	Soil	0.8	35.0	25.4	84	<0.1	35.7	16.0	977	5.03	48.2	1.3	160.4	7.7	3	0.1	0.7	0.6	21	0.03	0.080
1274872	Soil	0.8	35.3	25.4	70	0.1	26.4	12.3	850	4.80	38.1	1.9	7.2	7.8	3	<0.1	0.7	0.5	22	0.02	0.142
1274857	Soil	0.4	35.6	25.1	47	<0.1	18.9	18.0	535	2.02	27.8	1.9	7.2	4.8	5	<0.1	0.3	0.2	10	0.06	0.066
1274870	Soil	0.5	31.0	30.7	65	<0.1	31.0	15.4	912	3.43	17.7	0.9	1.2	8.9	4	<0.1	0.4	0.5	17	0.04	0.058
1274859	Soil	0.6	96.3	37.7	150	<0.1	70.4	37.3	698	3.80	202.0	9.6	15.1	9.7	14	<0.1	0.7	0.6	15	0.16	0.078
1274877	Soil	0.5	58.5	49.4	96	<0.1	60.6	39.4	2047	4.92	81.8	2.1	10.0	20.2	5	0.2	1.0	0.8	16	0.12	0.071
1274860	Soil	0.8	69.6	37.1	131	0.1	60.9	43.7	1284	3.76	243.1	6.2	68.5	7.6	17	0.2	0.7	0.8	15	0.33	0.103
1274858	Soil	0.4	27.0	19.2	30	<0.1	11.6	7.6	272	1.52	16.5	1.5	2.8	2.0	4	<0.1	0.3	0.2	9	0.04	0.071
1274876	Soil	0.7	21.6	21.8	93	<0.1	26.7	14.1	681	3.98	53.9	1.9	13.9	4.0	8	0.2	0.4	0.5	19	0.15	0.093
1274869	Soil	0.7	35.5	38.2	76	<0.1	35.3	16.8	1026	4.54	17.3	0.8	1.7	6.1	4	0.1	0.4	0.7	22	0.03	0.074
1274871	Soil	0.7	42.0	24.2	97	<0.1	41.4	18.8	679	4.41	38.8	1.4	10.5	9.6	5	<0.1	0.6	0.5	20	0.06	0.063
1274863	Soil	0.4	26.3	11.1	94	<0.1	35.9	9.9	515	4.08	130.8	2.0	41.3	12.2	10	<0.1	0.3	0.5	16	0.20	0.056
1274883	Soil	0.7	81.0	55.2	107	0.1	53.7	33.1	765	3.76	51.3	3.2	17.4	12.7	7	<0.1	1.0	0.8	19	0.11	0.083
1274884	Soil	0.7	67.1	59.3	79	<0.1	33.1	31.4	1032	3.74	34.4	3.3	7.1	14.4	6	<0.1	0.8	0.6	15	0.07	0.090
1274851	Rock Pulp	2.5	24.9	2.3	43	0.3	23.8	10.1	391	2.33	4.6	0.3	5.5	0.9	39	0.2	0.3	<0.1	60	0.79	0.059
1274887	Soil	0.6	129.4	64.0	129	0.1	67.7	89.0	1122	4.46	106.6	6.0	83.8	22.0	8	0.1	1.3	0.6	15	0.12	0.074
1274886	Soil	1.0	95.4	46.5	97	0.1	45.6	36.6	825	4.41	78.1	5.5	15.8	19.2	6	<0.1	1.3	0.6	16	0.07	0.078
1274885	Soil	0.6	69.8	28.5	55	0.1	23.0	19.7	526	2.52	37.5	3.1	9.2	9.4	6	<0.1	0.8	0.3	12	0.08	0.063
1274861	Soil	0.8	37.7	16.5	109	0.1	35.7	22.8	549	3.62	99.0	2.1	73.7	7.6	7	<0.1	0.2	0.5	16	0.08	0.057
1274862	Soil	0.4	78.6	25.1	132	0.2	70.7	38.6	756	4.24	409.0	3.6	104.6	13.4	7	<0.1	0.7	0.5	15	0.09	0.029

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Project: HRN
Report Date: September 11, 2012

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274980	Soil		15	19	0.49	34	0.008	1	1.19	0.011	0.03	0.2	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
1274981	Soil		14	34	1.01	23	0.008	<1	2.11	0.003	0.02	0.2	0.01	1.5	<0.1	<0.05	7	<0.5	<0.2
1274982	Soil		32	34	1.04	23	0.006	<1	2.36	0.005	0.04	0.2	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
1274983	Soil		30	28	0.82	30	0.006	<1	2.11	0.009	0.05	0.4	0.02	2.2	<0.1	<0.05	5	0.7	<0.2
1274984	Soil		28	33	1.08	27	0.008	1	2.35	0.007	0.04	0.1	<0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
1274985	Soil		13	20	0.48	12	0.010	<1	1.37	0.012	0.02	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
1274986	Soil		18	36	0.78	12	0.009	<1	1.96	0.003	0.02	<0.1	0.02	1.4	<0.1	<0.05	8	<0.5	<0.2
1274987	Soil		17	33	0.49	14	0.008	<1	1.65	0.003	0.02	<0.1	0.04	0.9	<0.1	<0.05	8	<0.5	<0.2
1274988	Soil		29	32	0.89	14	0.006	2	2.10	0.010	0.02	<0.1	<0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
1274873	Soil		14	38	1.03	17	0.005	<1	2.82	0.004	0.02	0.3	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2
1274868	Soil		15	36	0.88	25	0.009	<1	2.59	0.003	0.02	0.3	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
1274872	Soil		17	34	0.71	25	0.008	<1	2.26	0.003	0.02	0.3	0.04	1.3	<0.1	<0.05	7	0.5	<0.2
1274857	Soil		17	15	0.41	17	0.009	1	1.17	0.017	0.02	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
1274870	Soil		22	28	0.91	21	0.009	<1	1.97	0.009	0.03	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
1274859	Soil		30	28	0.82	37	0.006	1	2.09	0.009	0.04	0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1274877	Soil		27	33	1.01	23	0.004	<1	3.12	0.003	0.01	0.7	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1274860	Soil		34	27	0.74	33	0.007	<1	2.07	0.009	0.03	0.3	0.02	2.3	<0.1	<0.05	6	0.8	<0.2
1274858	Soil		11	11	0.27	14	0.009	<1	0.99	0.016	0.02	<0.1	0.03	0.7	<0.1	<0.05	3	<0.5	<0.2
1274876	Soil		12	29	0.73	26	0.008	<1	1.88	0.008	0.03	0.2	0.01	1.2	<0.1	<0.05	7	<0.5	<0.2
1274869	Soil		27	33	1.02	22	0.009	<1	2.22	0.002	0.02	<0.1	0.02	1.4	<0.1	<0.05	7	<0.5	<0.2
1274871	Soil		21	35	0.98	25	0.009	<1	2.35	0.003	0.03	0.3	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
1274863	Soil		15	33	1.02	24	0.005	<1	2.35	0.006	0.02	0.9	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
1274883	Soil		22	29	0.83	20	0.008	<1	1.96	0.006	0.03	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
1274884	Soil		33	27	0.73	17	0.006	<1	1.87	0.007	0.03	<0.1	0.03	2.1	<0.1	<0.05	5	0.5	<0.2
1274851	Rock Pulp		4	30	0.75	94	0.108	2	1.39	0.078	0.13	14.3	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
1274887	Soil		52	32	0.95	20	0.004	<1	2.19	0.006	0.03	0.1	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
1274886	Soil		47	32	0.90	16	0.005	<1	2.09	0.009	0.04	0.1	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
1274885	Soil		25	18	0.49	16	0.009	<1	1.35	0.018	0.03	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
1274861	Soil		19	30	0.86	27	0.006	2	2.17	0.005	0.03	1.7	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
1274862	Soil		26	31	0.97	16	0.007	<1	2.11	0.005	0.03	1.9	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2

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		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274865	Soil		0.4	35.6	16.0	109	<0.1	47.1	18.0	695	4.41	155.7	3.8	196.3	10.7	5	<0.1	0.6	0.7	15	0.12	0.038
1274866	Soil		1.4	83.7	75.0	82	<0.1	73.5	49.9	7048	5.86	284.1	4.2	19.1	21.2	4	0.4	1.9	1.1	13	0.10	0.078
1274864	Soil		0.4	10.9	11.7	35	<0.1	10.6	10.4	690	1.19	59.1	0.7	1.2	0.4	12	0.1	0.2	0.3	8	0.38	0.052
1274867	Soil		0.7	25.7	29.1	90	<0.1	35.1	19.7	1582	4.45	40.9	1.2	8.1	8.1	4	<0.1	0.5	0.6	20	0.04	0.063
1274879	Soil		0.9	79.3	42.4	115	<0.1	48.8	64.3	1677	4.64	334.5	13.3	89.9	12.9	10	0.2	0.9	0.6	18	0.28	0.135
1274880	Soil		0.3	42.3	18.1	78	<0.1	35.4	14.9	405	3.05	111.6	4.7	34.6	6.1	9	<0.1	0.3	0.3	14	0.14	0.058
1274878	Soil		0.8	39.0	34.9	103	0.2	41.8	25.9	2145	5.18	97.6	1.3	9.1	7.2	4	0.2	1.0	0.7	19	0.07	0.105
1274881	Soil		0.9	54.9	64.4	102	<0.1	71.7	37.2	6259	6.02	54.5	3.0	14.1	20.0	7	0.6	1.3	0.8	13	0.24	0.148
1274852	Soil		0.7	34.5	18.5	89	<0.1	34.6	14.8	486	3.74	63.2	1.8	36.7	6.3	6	0.1	0.5	0.2	28	0.09	0.066
1274855	Soil		0.3	48.2	44.4	82	<0.1	39.4	40.2	1045	3.47	132.5	2.7	35.1	13.2	6	<0.1	0.6	0.3	14	0.07	0.063
1274882	Soil		1.4	35.5	24.2	89	<0.1	35.6	22.5	779	3.85	41.5	1.5	13.2	5.0	4	0.1	0.4	0.6	21	0.03	0.074
1274856	Soil		0.4	81.2	46.1	108	<0.1	55.0	52.3	892	4.18	64.0	3.7	38.0	19.2	5	<0.1	0.7	0.6	15	0.11	0.065
1274853	Soil		1.3	87.0	45.1	78	0.1	37.1	22.1	813	4.56	694.2	5.3	850.7	9.8	10	<0.1	1.3	0.6	16	0.04	0.136
1274854	Soil		0.5	57.2	40.4	94	0.1	45.2	44.6	1000	3.61	264.9	3.3	203.4	14.7	6	<0.1	0.8	0.3	13	0.10	0.067
1275000	Soil		1.1	91.8	64.5	103	<0.1	65.4	59.0	2811	4.00	108.5	3.5	50.5	19.7	18	0.1	0.8	0.3	14	0.11	0.047
1274999	Soil		1.4	133.1	83.5	108	<0.1	72.1	71.5	2640	4.25	44.1	3.2	16.8	21.9	17	0.1	1.0	0.6	15	0.12	0.057
1367202	Soil		1.6	109.9	68.4	94	<0.1	58.0	44.0	2777	3.96	28.9	2.5	7.4	15.8	17	<0.1	0.7	0.5	14	0.11	0.049
1367203	Soil		1.1	97.8	56.1	81	0.1	67.2	45.2	2101	4.18	42.9	1.3	2.8	9.7	12	<0.1	0.7	0.7	15	0.16	0.089
1367204	Soil		1.1	125.1	97.6	85	0.1	54.6	54.2	2489	3.55	53.3	3.0	16.3	14.5	19	<0.1	0.8	0.5	14	0.17	0.075
1367205	Soil		0.8	90.2	53.6	82	<0.1	47.7	41.0	1459	3.57	56.8	2.7	74.7	13.5	13	<0.1	0.7	0.4	14	0.13	0.069
1367207	Soil		0.6	80.6	45.2	76	<0.1	46.0	32.8	2118	3.07	47.6	2.4	72.4	9.3	7	<0.1	0.5	0.3	13	0.06	0.060
1367209	Soil		1.7	144.0	194.3	127	0.2	77.9	81.9	1652	3.85	231.2	7.2	132.8	17.4	10	0.1	1.2	1.0	14	0.06	0.072
1367206	Soil		0.6	85.6	50.5	70	0.1	37.7	27.3	2425	2.88	19.6	2.3	13.6	6.5	9	<0.1	0.3	0.4	12	0.07	0.051
1367208	Soil		0.6	109.2	63.5	112	<0.1	67.7	71.1	1205	3.90	36.4	4.7	27.0	17.3	10	<0.1	1.2	0.4	12	0.09	0.056
1367210	Soil		0.6	99.0	62.1	134	<0.1	78.8	55.5	806	3.55	100.0	9.1	90.1	17.1	14	0.2	1.5	0.5	11	0.14	0.066
1367211	Soil		1.0	208.1	84.0	154	<0.1	105.5	115.1	975	3.99	70.1	15.0	22.0	22.7	10	0.2	2.1	0.6	14	0.11	0.080
1274990	Soil		1.8	116.8	107.4	127	0.1	130.5	106.1	2243	4.56	571.4	7.7	9.2	21.1	11	0.2	1.9	0.6	12	0.08	0.061
1274992	Soil		2.8	115.2	79.5	107	0.2	57.6	50.8	1826	6.60	99.4	3.5	9.8	23.8	19	0.1	4.2	1.0	14	0.02	0.108
1274994	Soil		2.7	189.3	130.5	146	0.4	101.6	79.7	1243	6.44	93.0	8.3	38.5	28.7	28	<0.1	2.6	1.2	15	0.07	0.131
1274975	Soil		0.7	75.6	40.6	104	<0.1	59.6	49.2	1571	4.16	47.3	3.4	12.3	20.7	16	<0.1	0.9	0.4	12	0.12	0.065

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600 - 666 Burrard St.
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Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274865	Soil		20	34	1.04	18	0.005	<1	2.24	0.006	0.02	0.5	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
1274866	Soil		54	26	0.78	37	0.010	<1	2.54	0.002	0.01	0.3	0.03	5.7	<0.1	<0.05	5	0.7	<0.2
1274864	Soil		4	7	0.15	30	0.005	<1	0.48	0.016	0.02	0.5	0.01	0.3	<0.1	0.05	2	<0.5	<0.2
1274867	Soil		13	30	0.86	28	0.008	<1	2.30	0.003	0.02	0.3	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
1274879	Soil		78	36	0.85	40	0.006	<1	2.72	0.005	0.03	1.2	0.03	3.3	<0.1	0.08	7	<0.5	<0.2
1274880	Soil		23	23	0.72	42	0.008	<1	1.87	0.010	0.02	0.6	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1274878	Soil		13	30	0.90	36	0.006	<1	2.44	0.003	0.02	0.4	0.03	2.0	<0.1	0.05	7	<0.5	<0.2
1274881	Soil		35	24	0.69	46	0.007	<1	2.94	0.005	<0.01	0.7	0.03	5.2	<0.1	0.06	4	<0.5	<0.2
1274852	Soil		24	34	0.86	36	0.018	<1	2.12	0.004	0.03	0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
1274855	Soil		30	26	0.70	21	0.003	<1	1.75	0.008	0.02	0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1274882	Soil		14	28	0.77	30	0.008	<1	2.47	0.005	0.02	0.2	0.04	1.3	<0.1	0.06	7	<0.5	<0.2
1274856	Soil		39	32	0.90	19	0.003	<1	2.05	0.009	0.03	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
1274853	Soil		31	24	0.59	56	0.005	<1	1.48	0.006	0.03	0.3	0.04	1.8	<0.1	0.09	5	<0.5	<0.2
1274854	Soil		28	26	0.73	23	0.006	4	1.67	0.008	0.04	0.2	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1275000	Soil		43	28	0.96	25	0.003	<1	1.86	0.003	0.02	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
1274999	Soil		52	31	1.11	30	0.003	<1	2.11	0.005	0.04	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
1367202	Soil		45	28	1.09	25	0.003	<1	2.08	0.003	0.03	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1367203	Soil		24	28	1.18	16	0.005	<1	1.95	0.007	0.02	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
1367204	Soil		36	26	1.07	47	0.004	<1	1.91	0.004	0.02	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1367205	Soil		31	24	0.91	18	0.006	<1	1.73	0.005	0.02	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1367207	Soil		24	22	0.74	18	0.007	<1	1.54	0.010	0.03	0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
1367209	Soil		27	24	0.68	28	0.005	<1	1.64	0.009	0.04	0.2	0.03	2.2	<0.1	0.05	5	<0.5	0.3
1367206	Soil		24	19	0.71	23	0.007	<1	1.47	0.013	0.03	<0.1	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2
1367208	Soil		35	25	0.81	18	0.005	<1	1.65	0.002	0.02	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1367210	Soil		26	23	0.62	20	0.002	<1	1.47	0.003	0.03	<0.1	0.02	1.9	<0.1	0.05	4	<0.5	<0.2
1367211	Soil		93	29	0.83	22	0.003	<1	1.87	0.005	0.04	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1274990	Soil		55	19	0.61	31	0.002	<1	1.58	0.004	0.02	<0.1	0.05	2.1	<0.1	<0.05	3	<0.5	0.3
1274992	Soil		51	24	0.82	20	0.004	<1	1.55	0.005	0.03	<0.1	0.04	2.7	<0.1	<0.05	4	1.4	0.3
1274994	Soil		73	30	0.84	20	0.002	<1	2.26	0.005	0.04	<0.1	0.01	3.3	<0.1	0.06	5	0.7	<0.2
1274975	Soil		58	26	0.82	15	0.002	<1	1.69	0.003	0.02	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2

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Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1274991	Soil	1.9	104.6	63.9	108	0.1	77.2	52.9	2800	5.87	58.0	3.0	8.6	18.5	18	0.1	3.0	0.7	15	0.09	0.081
1274993	Soil	1.2	101.6	56.6	102	0.1	63.2	46.3	1888	5.18	98.6	3.1	6.1	19.1	22	0.1	1.6	0.7	13	0.10	0.082
1274998	Soil	0.5	53.2	36.4	82	<0.1	35.2	26.7	657	3.32	65.6	3.2	9.0	17.5	16	<0.1	0.7	0.3	10	0.09	0.057
1274997	Soil	0.6	78.1	59.3	100	<0.1	52.6	40.5	1446	4.35	73.4	3.0	47.0	19.1	14	<0.1	0.6	0.3	14	0.12	0.066
1274989	Soil	1.1	107.7	68.8	130	<0.1	92.1	62.8	1818	5.48	45.2	8.0	6.3	14.9	13	<0.1	1.6	0.6	17	0.04	0.082
1274995	Soil	1.0	91.3	65.2	96	<0.1	60.5	38.8	2606	4.39	18.5	1.9	20.4	12.4	15	0.1	0.4	0.4	16	0.11	0.056
1274996	Soil	0.3	30.1	26.4	68	<0.1	36.7	23.6	457	2.50	44.6	2.6	59.4	19.9	11	<0.1	0.4	0.2	8	0.09	0.055
1274974	Soil	0.5	76.8	41.8	102	<0.1	58.3	49.4	1531	3.94	46.8	3.4	8.8	19.8	17	<0.1	0.9	0.4	11	0.12	0.064
1367212	Soil	0.9	79.7	52.4	88	0.2	52.3	39.2	655	3.31	731.0	7.7	560.9	21.6	13	0.3	2.0	0.7	8	0.10	0.067
1367213	Soil	0.7	49.2	63.3	95	0.1	44.0	30.0	553	2.90	709.4	8.4	2425	15.3	12	0.2	1.2	0.6	11	0.17	0.070
1367214	Soil	1.6	79.8	53.5	103	0.1	57.2	56.7	641	2.85	250.9	5.8	134.5	16.7	7	0.2	1.3	0.4	9	0.09	0.067
1367215	Soil	2.8	82.2	58.3	126	<0.1	62.0	69.1	957	4.21	294.7	5.1	197.0	15.3	8	0.3	1.3	0.5	15	0.08	0.060
1367216	Soil	0.8	119.4	67.3	100	<0.1	51.2	63.5	1021	3.96	114.4	4.8	129.0	18.1	6	<0.1	1.0	0.6	15	0.07	0.063
1367217	Soil	0.8	190.4	128.5	126	0.1	66.7	109.7	1311	5.15	43.0	7.4	8.5	23.2	7	<0.1	1.2	1.1	19	0.10	0.061
1367218	Soil	1.4	172.6	123.6	111	<0.1	57.8	92.7	1188	4.40	67.3	7.2	6.0	17.2	5	<0.1	1.3	0.9	16	0.10	0.065
1367219	Soil	0.7	158.9	70.0	119	<0.1	61.1	76.4	1237	4.65	35.1	5.4	28.2	18.7	5	<0.1	0.8	0.8	17	0.10	0.059
1367220	Soil	1.2	173.6	91.3	122	0.1	65.5	102.2	1359	5.41	52.9	8.6	2.3	25.4	6	<0.1	1.2	0.9	19	0.10	0.062
1367201	Rock Pulp	1.3	472.1	21.0	166	0.2	228.8	82.6	870	16.49	3.4	1.2	33.1	7.9	15	0.1	0.3	0.2	236	0.30	0.043

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Project: HRN
Report Date: September 11, 2012

CERTIFICATE OF ANALYSIS WHI12000797.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1274991	Soil	52	28	1.23	23	0.003	1	2.01	0.006	0.04	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	0.2
1274993	Soil	45	25	1.02	15	0.002	<1	1.75	0.005	0.03	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
1274998	Soil	41	23	0.64	10	0.004	<1	1.40	0.004	0.02	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1274997	Soil	55	31	0.98	18	0.003	<1	2.02	0.003	0.03	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
1274989	Soil	50	32	0.85	38	0.002	<1	2.21	0.005	0.04	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1274995	Soil	39	30	1.19	28	0.006	2	2.23	0.003	0.03	<0.1	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
1274996	Soil	36	17	0.47	10	0.003	<1	1.03	0.004	0.03	0.2	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
1274974	Soil	56	24	0.81	15	0.002	<1	1.66	0.003	0.02	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
1367212	Soil	43	17	0.42	23	0.003	<1	1.07	0.006	0.02	0.3	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
1367213	Soil	29	16	0.35	35	0.004	<1	1.04	0.008	0.04	0.4	0.03	1.4	<0.1	0.09	3	<0.5	0.3
1367214	Soil	31	17	0.44	20	0.004	<1	1.12	0.005	0.02	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1367215	Soil	31	29	0.71	24	0.005	<1	1.74	0.006	0.03	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1367216	Soil	22	30	0.77	21	0.005	<1	1.76	0.010	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1367217	Soil	44	42	1.23	24	0.003	<1	2.65	0.005	0.03	<0.1	<0.01	3.7	<0.1	<0.05	7	<0.5	<0.2
1367218	Soil	20	34	1.03	21	0.004	<1	2.14	0.007	0.02	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
1367219	Soil	21	38	1.17	22	0.003	<1	2.43	0.008	0.03	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
1367220	Soil	41	44	1.26	26	0.003	<1	2.68	0.007	0.03	<0.1	<0.01	3.5	<0.1	<0.05	7	<0.5	0.2
1367201	Rock Pulp	18	757	0.14	151	0.169	3	4.20	0.014	0.07	<0.1	0.03	42.9	0.1	0.09	21	0.7	<0.2

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Project: HRN
Report Date: September 11, 2012

QUALITY CONTROL REPORT WHI12000797.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																						
1367009	Soil		0.7	26.0	21.0	91	<0.1	28.6	18.2	592	4.02	60.8	1.3	31.0	5.1	6	0.1	0.6	0.5	19	0.05	0.043
REP 1367009	QC		0.8	26.5	21.2	92	<0.1	29.4	18.3	589	4.03	61.5	1.3	79.1	5.2	6	0.1	0.6	0.5	20	0.05	0.044
1367028	Soil		0.7	26.7	21.3	66	0.2	21.3	18.2	664	3.14	80.4	1.7	28.2	3.6	6	0.1	0.4	0.4	14	0.04	0.096
REP 1367028	QC		0.7	27.4	21.4	68	0.2	21.4	18.6	681	3.12	85.1	1.8	19.3	3.3	7	0.2	0.4	0.3	13	0.04	0.099
1367045	Soil		0.7	19.2	15.5	77	<0.1	27.7	8.0	431	3.52	36.8	1.7	1.6	7.3	7	<0.1	0.2	0.3	14	0.10	0.066
REP 1367045	QC		0.7	19.4	14.5	75	0.1	27.8	8.0	422	3.56	33.8	1.7	3.6	7.5	7	<0.1	0.2	0.3	14	0.10	0.064
1367064	Soil		0.4	15.8	13.8	16	0.2	5.9	2.3	103	1.02	14.5	0.8	6.6	0.4	4	<0.1	0.1	<0.1	10	0.03	0.046
REP 1367064	QC		0.3	16.2	13.6	17	0.3	6.4	2.4	99	1.03	14.6	0.8	2.5	0.2	4	<0.1	0.1	<0.1	9	0.03	0.045
1367104	Soil		0.6	27.3	16.4	62	<0.1	29.9	12.5	529	3.99	17.2	0.9	46.3	4.3	4	0.1	0.3	0.3	19	0.04	0.071
REP 1367104	QC		0.5	29.5	16.7	64	<0.1	30.2	12.6	535	4.04	17.3	0.9	4.4	4.3	4	<0.1	0.3	0.3	19	0.05	0.073
1367117	Soil		0.7	18.0	14.6	64	0.1	21.6	7.6	386	4.13	50.0	1.2	9.5	3.7	4	<0.1	0.3	0.4	23	0.02	0.055
REP 1367117	QC		0.9	19.3	14.4	66	0.1	21.8	7.6	397	4.26	50.1	1.2	16.5	3.7	3	0.1	0.4	0.4	22	0.02	0.052
1274973	Soil		0.4	26.7	18.4	92	<0.1	37.1	16.2	699	4.35	26.9	1.0	7.4	8.9	5	<0.1	0.4	0.3	18	0.08	0.073
REP 1274973	QC		0.4	26.0	19.0	91	<0.1	37.4	15.3	696	4.36	26.0	1.1	5.3	9.1	5	<0.1	0.4	0.3	19	0.08	0.076
1274860	Soil		0.8	69.6	37.1	131	0.1	60.9	43.7	1284	3.76	243.1	6.2	68.5	7.6	17	0.2	0.7	0.8	15	0.33	0.103
REP 1274860	QC		0.7	67.6	35.5	127	<0.1	59.8	43.6	1283	3.72	245.2	6.2	11.0	7.5	16	0.2	0.7	0.8	15	0.32	0.100
1274885	Soil		0.6	69.8	28.5	55	0.1	23.0	19.7	526	2.52	37.5	3.1	9.2	9.4	6	<0.1	0.8	0.3	12	0.08	0.063
REP 1274885	QC		0.5	68.8	27.8	55	0.1	22.6	20.2	528	2.49	36.8	3.0	5.5	9.3	6	<0.1	0.7	0.3	12	0.07	0.063
1367206	Soil		0.6	85.6	50.5	70	0.1	37.7	27.3	2425	2.88	19.6	2.3	13.6	6.5	9	<0.1	0.3	0.4	12	0.07	0.051
REP 1367206	QC		0.7	88.7	53.2	70	<0.1	39.2	28.5	2484	2.99	20.1	2.4	12.2	6.8	10	<0.1	0.3	0.4	12	0.07	0.057
1274997	Soil		0.6	78.1	59.3	100	<0.1	52.6	40.5	1446	4.35	73.4	3.0	47.0	19.1	14	<0.1	0.6	0.3	14	0.12	0.066
REP 1274997	QC		0.7	75.9	57.8	95	<0.1	50.0	38.6	1349	3.97	72.1	2.9	15.9	17.5	12	<0.1	0.7	0.3	13	0.11	0.063
1367212	Soil		0.9	79.7	52.4	88	0.2	52.3	39.2	655	3.31	731.0	7.7	560.9	21.6	13	0.3	2.0	0.7	8	0.10	0.067
REP 1367212	QC		0.9	81.9	54.8	93	0.2	53.7	40.7	687	3.39	752.7	7.8	848.8	23.2	13	0.1	2.2	0.6	9	0.10	0.069
1367220	Soil		1.2	173.6	91.3	122	0.1	65.5	102.2	1359	5.41	52.9	8.6	2.3	25.4	6	<0.1	1.2	0.9	19	0.10	0.062
REP 1367220	QC		1.3	168.3	87.7	117	0.1	63.0	99.2	1314	5.18	50.3	8.3	3.1	25.2	6	<0.1	1.1	0.8	18	0.09	0.060
Reference Materials																						
STD DS9	Standard		13.7	117.3	129.0	328	1.9	41.2	8.0	601	2.42	27.1	2.9	131.2	6.7	76	2.7	6.2	7.3	43	0.73	0.087

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Client: **Ryan Gold Corp.**
600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project: HRN
Report Date: September 11, 2012

QUALITY CONTROL REPORT WHI12000797.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1367009	Soil	21	28	0.75	38	0.009	<1	1.88	0.003	0.02	0.6	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
REP 1367009	QC	23	27	0.76	38	0.009	<1	1.94	0.003	0.02	0.8	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
1367028	Soil	12	21	0.55	45	0.007	<1	1.57	0.009	0.03	0.9	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
REP 1367028	QC	12	21	0.53	46	0.006	<1	1.59	0.010	0.03	1.0	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
1367045	Soil	20	28	0.83	15	0.007	1	1.85	0.005	0.02	0.2	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
REP 1367045	QC	20	28	0.83	15	0.007	2	1.83	0.006	0.02	0.2	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
1367064	Soil	15	7	0.12	19	0.006	1	0.71	0.019	0.02	0.1	0.03	0.3	<0.1	<0.05	3	<0.5	<0.2
REP 1367064	QC	15	7	0.12	19	0.006	<1	0.72	0.017	0.02	0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
1367104	Soil	20	27	0.78	24	0.007	8	1.92	0.005	0.02	0.2	0.03	1.1	<0.1	<0.05	6	0.6	<0.2
REP 1367104	QC	20	28	0.78	23	0.008	<1	1.93	0.006	0.02	0.2	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
1367117	Soil	22	26	0.82	20	0.008	<1	1.69	0.004	0.03	0.2	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
REP 1367117	QC	23	28	0.79	21	0.007	<1	1.68	0.003	0.03	0.3	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
1274973	Soil	20	33	0.91	21	0.007	<1	2.31	0.003	0.03	0.2	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
REP 1274973	QC	20	32	0.92	20	0.007	<1	2.32	0.004	0.03	0.2	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
1274860	Soil	34	27	0.74	33	0.007	<1	2.07	0.009	0.03	0.3	0.02	2.3	<0.1	<0.05	6	0.8	<0.2
REP 1274860	QC	33	26	0.74	32	0.008	<1	2.05	0.010	0.03	0.3	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
1274885	Soil	25	18	0.49	16	0.009	<1	1.35	0.018	0.03	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
REP 1274885	QC	24	18	0.49	16	0.009	<1	1.33	0.015	0.03	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1367206	Soil	24	19	0.71	23	0.007	<1	1.47	0.013	0.03	<0.1	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2
REP 1367206	QC	25	19	0.75	25	0.007	<1	1.61	0.013	0.03	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
1274997	Soil	55	31	0.98	18	0.003	<1	2.02	0.003	0.03	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
REP 1274997	QC	49	29	0.90	16	0.003	<1	1.77	0.003	0.02	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
1367212	Soil	43	17	0.42	23	0.003	<1	1.07	0.006	0.02	0.3	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
REP 1367212	QC	44	19	0.44	25	0.003	<1	1.10	0.006	0.03	0.3	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1367220	Soil	41	44	1.26	26	0.003	<1	2.68	0.007	0.03	<0.1	<0.01	3.5	<0.1	<0.05	7	<0.5	0.2
REP 1367220	QC	39	41	1.24	24	0.002	<1	2.72	0.006	0.03	<0.1	0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	13	123	0.65	311	0.117	3	0.96	0.102	0.42	3.3	0.21	3.2	5.9	0.11	5	5.1	5.4

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600 - 666 Burrard St.
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Project: HRN
Report Date: September 11, 2012

QUALITY CONTROL REPORT WHI12000797.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
STD DS9	Standard	13.3	101.6	123.0	307	1.9	38.8	7.2	601	2.31	26.5	2.7	115.2	6.4	84	2.2	5.9	6.9	41	0.73	0.080
STD DS9	Standard	14.2	115.2	128.8	335	2.0	43.9	8.1	632	2.53	25.2	2.7	119.0	6.5	72	2.5	5.5	5.6	45	0.77	0.085
STD DS9	Standard	13.7	108.6	119.6	304	1.8	40.8	7.6	582	2.28	23.7	2.4	112.1	6.3	66	2.2	5.0	5.4	41	0.69	0.079
STD DS9	Standard	13.3	117.8	124.4	322	1.9	41.9	8.0	602	2.43	27.0	2.8	113.7	6.5	74	2.5	6.5	7.1	43	0.73	0.083
STD DS9	Standard	13.1	104.7	123.2	301	1.8	36.6	7.4	572	2.32	26.6	3.0	111.1	7.3	77	2.1	6.1	6.7	42	0.72	0.084
STD DS9	Standard	14.7	117.0	125.0	320	1.8	43.7	8.3	602	2.49	24.9	3.0	110.8	6.6	72	2.4	5.4	5.0	45	0.74	0.078
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.7	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Vancouver BC V6C 1H2 Canada

Project: HRN
Report Date: September 11, 2012

QUALITY CONTROL REPORT WHI12000797.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
STD DS9	Standard	13	115	0.73	306	0.108	<1	0.93	0.095	0.42	3.1	0.22	2.8	5.7	0.11	5	4.0	5.3
STD DS9	Standard	13	132	0.68	324	0.115	2	1.01	0.102	0.44	3.2	0.22	3.7	6.1	0.21	5	6.3	5.4
STD DS9	Standard	13	123	0.61	292	0.109	3	0.88	0.081	0.37	2.9	0.20	2.4	5.4	0.15	4	5.4	5.0
STD DS9	Standard	13	126	0.64	305	0.123	3	0.92	0.082	0.42	3.2	0.21	2.5	5.6	0.16	5	6.0	5.7
STD DS9	Standard	14	117	0.62	300	0.120	3	0.93	0.084	0.40	3.1	0.19	3.1	5.5	0.10	4	4.5	4.8
STD DS9	Standard	14	131	0.62	300	0.119	2	0.96	0.078	0.39	3.0	0.21	2.7	5.5	0.19	5	5.8	5.5
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.05	<1	<0.5	<0.2

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Appendix E – Sample Location data

sample_id	project_id	sample_type	utm_zone	utm_easting	utm_northing	wgs84_longitude	wgs84_latitude	client	file_created_date	shipment_received_date	analysis_method	job_number	sample_date	sample_time	colour	texture	moisture	site_slope	depth	horizon	site_vegetation	ground_cover	quality	note1	note2	remarks	dupe_of_id	sample_photo_file	site_photo_file
1274634	CNE	SOIL	9	537588	6866077	-128.2841001	61.92540108	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	9:41:52	Chocolate Brown	Silt	Dry	Flat	30	B	No Tree Cover	Rock Cover	Good	Rocky				3	4
1274635	CNE	SOIL	9	537537	6866070	-128.2850728	61.92534329	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	9:48:37	Chocolate Brown	Silt	Damp	Flat	40	C	No Tree Cover	Rock Cover	Good	Rocky				5	6
1274636	CNE	SOIL	9	537487	6866071	-128.2860248	61.92535721	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	9:55:32	Dark Brown	Silt	Dry	Flat	30	B	No Tree Cover	Thin Moss Cover	Good	Rocky				7	8
1274637	CNE	SOIL	9	537443	6866095	-128.2868577	61.92557697	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:03:36	Chocolate Brown	Sand	Dry	Flat	20	B	No Tree Cover	Rock Cover	Good	Rocky				9	10
1274638	CNE	SOIL	9	537396	6866113	-128.2877491	61.92574317	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:21:51	Chocolate Brown	Silt	Dry	Flat	20	B	No Tree Cover	Rock Cover	Good	Rocky				13	14
1274639	CNE	SOIL	9	537348	6866104	-128.2886651	61.92566711	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:35:38	Light Brown	Silt	Dry	Flat	20	C	No Tree Cover	Rock Cover	Good	Rocky Sample				15	16
1274640	CNE	SOIL	9	537298	6866110	-128.289616	61.92572588	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:48:06	Chocolate Brown	Silt	Dry	Flat	20	B	No Tree Cover	Rock Cover	Good	Rocky Sample				17	18
1274641	CNE	SOIL	9	537248	6866106	-128.2905691	61.92569488	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:57:14	Chocolate Brown	Sand	Dry	Pronounced Slope	30	C	No Tree Cover	Bare Soil	Excellent	Rocky				19	20
1274642	CNE	SOIL	9	537199	6866097	-128.2915041	61.9256189	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:08:00	Chocolate Brown	Silt	Dry	Steep	10	C	No Tree Cover	Bare Soil	Excellent	Rocky				21	22
1274643	CNE	SOIL	9	537151	6866095	-128.2924187	61.92560565	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:17:01	Chocolate Brown	Silt	Dry	Steep	20	C	No Tree Cover	Rock Cover	Excellent	Rocky				23	24
1274644	CNE	SOIL	9	537101	6866106	-128.2933686	61.92570927	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:27:27	Chocolate Brown	Silt	Dry	Steep	20	C	No Tree Cover	Rock Cover	Excellent	Rocky Sample				25	26
1274645	CNE	SOIL	9	537059	6866133	-128.2941629	61.92595572	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:36:53	Light Brown	Silt	Dry	Subtle Slope	20	C	No Tree Cover	Rock Cover	Good	Rocky Sample				27	28
1274646	CNE	SOIL	9	537024	6866171	-128.2948216	61.92630022	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:00:11	Chocolate Brown	Silt	Dry	Flat	20	B	No Tree Cover	Rock Cover	Good	Rocky				29	30
1274647	CNE	SOIL	9	536992	6866208	-128.2954234	61.92663545	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:08:44	Dark Brown	Silt	Dry	Pronounced Slope	10	B	No Tree Cover	Rock Cover	Good	Rocky				31	32
1274648	CNE	SOIL	9	536948	6866234	-128.296256	61.92687311	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:17:55	Light Brown	Silt	Dry	Steep	20	C	No Tree Cover	Rock Cover	Excellent	Rocky Sample				33	34
1274649	CNE	SOIL	9	536904	6866261	-128.2970884	61.92711974	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:27:12	Light Brown	Silt	Dry	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Excellent	Rocky Sample				35	36
1274650	CNE	SOIL	9	536897	6866311	-128.2972114	61.92756922	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:38:18	Dark Brown	Gravel	Dry	Pronounced Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky Sample				37	38
1274652	CNE	REP	9	536877	6866357	-128.2975829	61.92798406	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:47:07	Chocolate Brown	Silt	Dry	Pronounced Slope	60	B	No Tree Cover	Rock Cover	Good	Rocky				39	40
1274652	CNE	SOIL	9	536877	6866357	-128.2975829	61.92798406	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:47:07	Chocolate Brown	Silt	Dry	Pronounced Slope	60	B	No Tree Cover	Rock Cover	Good	Rocky				39	40
1274653	CNE	SOIL	9	536860	6866405	-128.2978968	61.92841656	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:57:54	Chocolate Brown	Silt	Dry	Subtle Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky Sample				41	42
1274654	CNE	SOIL	9	536831	6866450	-128.2984398	61.92882329	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:08:14	Chocolate Brown	Silt	Dry	Subtle Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky				43	44
1274655	CNE	SOIL	9	536800	6866489	-128.2990223	61.92917636	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:17:52	Dark Brown	Silt	Dry	Subtle Slope	20	B	No Tree Cover	Rock Cover	Good	Rocky	Small Sample			45	46
1274656	CNE	SOIL	9	536787	6866539	-128.2992596	61.92962642	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:24:50	Chocolate Brown	Silt	Dry	Subtle Slope	10	B	No Tree Cover	Rock Cover	Good	Rocky				47	48
1274657	CNE	SOIL	9	536787	6866589	-128.2992493	61.93007522	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:32:29	Light Brown	Sand	Dry	Subtle Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky				49	50
1274658	CNE	SOIL	9	536790	6866638	-128.2991821	61.93051475	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:42:16	Chocolate Brown	Silt	Damp	Subtle Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky				51	52
1274659	CNE	SOIL	9	536780	6866687	-128.2993625	61.93095555	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:11:13	Dark Brown	Silt	Dry	Subtle Slope	30	B	No Tree Cover	Grass Cover	Poor	Rocky	Small Sample	organics		53	54
1274660	CNE	SOIL	9	536768	6866737	-128.2995808	61.93140551	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:18:25	Chocolate Brown	Silt	Dry	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good	Rocky				55	56
1274661	CNE	SOIL	9	536780	6866787	-128.2993419	61.93185315	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:28:19	Chocolate Brown	Silt	Dry	Subtle Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky				57	58
1274662	CNE	SOIL	9	536777	6866838	-128.2993886	61.93231121	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:35:09	Chocolate Brown	Silt	Dry	Subtle Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky				59	60
1274663	CNE	SOIL	9	536779	6866888	-128.2993402	61.93275982	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:42:34	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky				61	62
1274664	CNE	SOIL	9	536790	6866936	-128.2991208	61.9331896	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:49:56	Chocolate Brown	Silt	Dry	Subtle Slope	40	B	No Tree Cover	Grass Cover	Good	Rocky				63	64
1274665	CNE	SOIL	9	536764	6866979	-128.2996073	61.93357809	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:00:16	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky				65	66
1274666	CNE	SOIL	9	536775	6867028	-128.2993877	61.93401685	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:08:49	Chocolate Brown	Silt	Damp	Subtle Slope	60	B	No Tree Cover	Bare Soil	Good	Rocky				67	68
1274667	CNE	SOIL	9	536771	6867079	-128.2994534	61.93447501	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:16:52	Light Brown	Sand	Dry	Subtle Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				69	70
1274668	CNE	SOIL	9	536785	6867127	-128.2991768	61.9349045	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:36:51	Chocolate Brown	Silt	Damp	Subtle Slope	60	B	No Tree Cover	Rock Cover	Good	Rocky				81	82
1274669	CNE	SOIL	9	536787	6867177	-128.2991284	61.93535311	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:47:43	Chocolate Brown	Silt	Dry	Subtle Slope	40	C	No Tree Cover	Bare Soil	Good	Rocky				83	84
1274802	CNE	SOIL	9	538133	6865791	-128.2737819	61.92277963	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	9:30:55	Dark Brown	Silt	Damp	Subtle Slope	10	B	No Tree Cover	Rock Cover	Poor					3	4
1274803	CNE	SOIL	9	538136	6865740	-128.2737357	61.92232156	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	9:45:11	Dark Brown	Sand	Dry	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Poor					5	6
1274804	CNE	SOIL	9	538118	6865693	-128.2740884	61.92190149	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	9:53:21	Dark Grey Black	Silt	Damp	Flat	10	B	No Tree Cover	Bare Soil	Poor					7	8
1274805	CNE	SOIL	9	538112	6865644	-128.2742131	61.92146227	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:04:00	Dark Grey Black	Gravel	Dry	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Poor					9	10
1274806	CNE	SOIL	9	538084	6865600	-128.2747556	61.92107014	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:14:49	Dark Brown	Silt	Damp	Pronounced Slope	20	B	No Tree Cover	Rock Cover	Poor					11	12
1274807	CNE	SOIL	9	538043	6865569	-128.2755429	61.92079599	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:27:28	Dark Brown	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Rock Cover	Poor					13	14
1274808	CNE	SOIL	9	538014	6865524	-128.2761047	61.92039498	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:37:16	Dark Brown	Silt	Damp	Subtle Slope	30	C	No Tree Cover	Thin Moss Cover	Poor					15	16
1274809	CNE	SOIL	9	537979	6865486	-128.2767792	61.92005739	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:45:20	Dark Brown	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Rock Cover	Poor					17	18
1274810	CNE	SOIL	9	537950	6865443	-128.2773405	61.91967432	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:56:04	Dark Brown	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Rock Cover	Poor					19	20
1274810	CNE	REP	9	537950	6865443	-128.2773405	61.91967432	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:56:04	Dark Brown	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Rock Cover	Poor					19	20
1274811	CNE	SOIL	9	537906	6865415	-128.2781842	61.91942739	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:07:31	Dark Brown	Silt	Damp	Pronounced Slope	40	B	No Tree Cover	Thin Moss Cover	Poor					21	22
1274812	CNE	SOIL	9	537881	6865370	-128.2786697	61.91902596	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:19:40	Dark Brown	Silt	Damp	Pronounced Slope	20	B	No Tree Cover	Rock Cover	Poor					23	24
1274813	CNE	SOIL	9	537840	6865336	-128.2794575	61.91872486	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:31:10	Dark Brown	Silt	Damp	Flat	30	B	No Tree Cover	Reindeer Moss	Poor					25	26
1274814	CNE	SOIL	9	537798	6865298	-128.2802652	61.91838796	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:41:57	Dark Brown	Silt	Damp	Flat	20	B	No Tree Cover	Reindeer Moss	Poor					27	28
1274814	CNE	REP	9	537798	6865298	-128.2802652	61.91838796	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:41:57	Dark Brown	Silt	Damp	Flat	20	B	No Tree Cover	Reindeer Moss	Poor					27	28
1274815	CNE	SOIL	9	537757	6865264	-128.281053	61.91808685	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:55:35	Chocolate Brown	Silt	Dry	Subtle Slope	30	B	No Tree Cover	Rock Cover	Good					29	30
1274816	CNE	SOIL	9	537720	6865230	-128.2817647	61.91778534	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:04:24	Dark Brown	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Reindeer Moss	Poor					31	32
1274817	CNE	SOIL	9	537675	6865205	-128.2826267	61.91756541	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:15:56	Dark Brown	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Grass Cover	Poor					33	34
1274818	CNE	SOIL	9	537624	6865191	-128.2836006	61.9174448	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:32:04	Dark Brown	Silt	Damp	Subtle Slope	40	B	No Tree Cover	Rock Cover	Good					35	36
1274818	CNE	REP	9	537624	6865191	-128.2836006	61.9174448	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:32:04	Dark Brown	Silt	Damp	Subtle Slope	40	B	No Tree Cover	Rock Cover	Good					35	36
1274819	CNE	SOIL	9	537574	6865200	-128.2845507	61.91753053	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:44:07	Chocolate Brown	Silt	Damp	Pronounced Slope	60	B	No Tree Cover	Rock Cover	Good					37	38
1274820	CNE	SOIL	9	537532	6865171	-128.2853565	61.91727438	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:55:23	Dark Brown	Silt	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good					39	40
1274821	CNE	SOIL	9	537479	6865150	-128.2863699	61.91709111	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:07:25	Dark Brown	Silt	Damp	Subtle Slope	30	B	No Tree Cover	Rock Cover	Poor					41	42
1274822	CNE	SOIL	9	537429	6865136	-128.2873248	61.91697038	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:14:56	Dark Brown	Gravel	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor					43	44
1274823	CNE	SOIL	9	537373	6865145	-128.2883891	61.91705667	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:23:21	Dark Brown	Silt	Damp	Subtle Slope	50	C	No Tree Cover	Grass Cover	Good					45	46
1274776	CNE	SOIL	9	537323	6865144	-128.2893413	61.91705261	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:38:23	Chocolate Brown	Silt	Dry	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Poor					47	48
1274777	CNE	SOIL	9	537276	6865115	-128.2902421	61.91679692	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:50:26	Light Brown	Silt	Dry	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good					49	50
1274778	CNE	SOIL	9	537215	6865145	-128.2913973	61.91707218	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:00:55	Chocolate Brown	Silt	Dry	Flat	70	C	No Tree Cover	Grass Cover	Excellent					51	52
1274779	CNE	SOIL	9	537163	6865155	-128.2923852	61.91716703	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:13:15	Chocolate Brown	Silt	Dry	Subtle Slope	20	B	No Tree Cover	Thin Moss Cover	Poor					53	54
1274780	CNE	SOIL	9	537114	6865135	-128.2933223	61.9169923	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:23:44	Dark Brown	Silt	Damp	Subtle Slope	40	B	No Tree Cover	Rock Cover	Poor					55	56
1274781	CNE	SOIL	9	537061	6865148	-128.2943287	61.91711416	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:32:53	Dark Brown	Silt	Damp	Subtle Slope	30	B	No Tree Cover	Thin Moss Cover	Good					57	58
1274782	CNE	SOIL	9	537008	6865154	-128.2953365	61.91717319	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:45:30	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Thin Moss Cover	Good					59	60
1274783	CNE	SOIL	9	536955	6865155	-128.2963454	61.91718732	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	14:58:09	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Thin Moss Cover	Good					61	62
1274784	CNE	SOIL	9	536903	6865156	-128.2973352	61.91720135	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:11:57	Dark Brown	Silt	Damp	Subtle Slope	30	B	No Tree Cover	Reindeer Moss	Poor					63	64
1274785	CNE	SOIL	9	536851	6865164	-128.2983236	61.9172782	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:24:35	Dark Brown	Silt	Damp	Subtle Slope	30	B	No Tree Cover	Thin Moss Cover	Poor					65	66
1274824	CNE	SOIL	9	536800	6865180	-128.2992913	61.91742676	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:39:12	Chocolate Brown	Silt	Damp	Flat	20	B	No Tree Cover	Grass Cover	Poor					67	68
1274825	CNE	SOIL	9	536800	6865180	-128.2992913	61.91742676	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	15:40:04	Chocolate Brown	Silt	Damp	Flat	20	B	No Tree Cover	Grass Cover	Poor				1274824	69	70
1274786	CNE	SOIL	9	537228	6864684	-128.2912456	61.91293297	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	16:37:55	Dark Brown	Silt	Damp	Pronounced Slope	50	B	No Tree Cover	Rock Cover	Poor					71	72
1274787	CNE	SOIL	9	537272	6864660	-128.2904129	61.91271323	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	16:50:38	Dark Brown	Silt	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good					73	74
1274788	CNE	SOIL	9	537322	6864664	-128.2894603	61.91274423	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	17:02:57	Dark Brown	Silt	Damp	Pronounced Slope	70	B	No Tree Cover	Rock Cover	Good					75	76
1274584	CNE	SOIL	9	538439	6865443	-128.2680296	61.91962516	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	9:52:59	Chocolate Brown	Sand	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			1	2
1274585	CNE	SOIL	9	538392	6865427	-128.268928	61.9194863	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:04:50	Light Brown	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			3	4
1274586	CNE	SOIL	9	538342	6865418	-128.2698819	61.91941056	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:14:52	Chocolate Brown	Sand	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Excellent	Coarse	Rocky			5	6
1274587	CNE	SOIL	9	538298	6865393	-128.270725	61.9191906	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	10:37:16	Chocolate Brown	Sand	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good	Fine				7	8
1274588	CNE	SOIL	9	538266	6865355	-128.2713424	61.91885274	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:07:42	Chocolate Brown	Sand	Wet	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good	Fine	Wet Soil			18	19
1274589	CNE	SOIL	9	538231	6865318	-128.2720167	61.91852415	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:18:01	Chocolate Brown	Sand	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Excellent	Fine				20	21
1274590	CNE	SOIL	9	538198	6865280	-128.2726532	61.91818639	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:28:36	Chocolate Brown	Sand	Damp	Pronounced Slope	40	C	No Tree Cover	Bare Soil	Good	Coarse	Rocky Sample			22	23
1274591	CNE	SOIL	9	538161	6865247	-128.2733647	61.9178939	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:43:03	Light Brown	Sand	Damp	Steep	30	C	No Tree Cover	Bare Soil	Good	Coarse	Rocky Sample			24	25
1274592	CNE	SOIL	9	538119	6865220	-128.2741701	61.91765576	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	11:57:54	Chocolate Brown	Sand	Damp	Steep	30	C	No Tree Cover	Bare Soil	Excellent	Coarse				26	27
1274593	CNE	SOIL	9	538098	6865174	-128.2745797	61.91724497	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:11:18	Chocolate Brown	Sand	Damp	Steep	40	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			28	29
1274594	CNE	SOIL	9	538091	6865125	-128.2747234	61.91680585	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:27:43	Light Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			30	31
1274595	CNE	SOIL	9	538089	6865075	-128.2747721	61.91635726	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	12:59:46	Chocolate Brown	Sand	Damp	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Good	Coarse	Organic 10%			32	33
1274596	CNE	SOIL	9	538063	6865033	-128.275276	61.91598287	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:16:25	Light Brown	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			34	35
1274597	CNE	SOIL	9	538016	6865016	-128.2761744	61.91583498	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	20/08/2012	13:39:53	Chocolate Brown	Sand	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			36	37
1274598	CNE	SOIL	9	537994	6864971	-128.2766028	61.91543327	RYAN GOLD CORP.	05/09/2012	31/08/

sample_id	project_id	sample_type	utm_zone	utm_easting	utm_northing	wgs84_longitude	wgs84_latitude	client	file_created_date	shipment_received_date	analysis_method	job_number	sample_date	sample_time	colour	texture	moisture	site_slope	depth	horizon	site_vegetation	ground_cover	quality	note1	note2	remarks	dupe_of_id	sample_photo_file	site_photo_file
1274676	CNE	SOIL	9	537775	6865673	-128.2806241	61.92175624	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:13:30	Chocolate Brown	Silt	Dry	Steep	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				14	15
1274677	CNE	SOIL	9	537728	6865653	-128.2815232	61.92158139	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:23:03	Chocolate Brown	Gravel	Dry	Steep	20	B	No Tree Cover	Rock Cover	Poor	Rocky Sample				16	17
1274678	CNE	SOIL	9	537678	6865647	-128.2824766	61.92153249	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:33:34	Light Brown	Gravel	Dry	Steep	20	B	No Tree Cover	Rock Cover	Good	Rocky Sample				18	19
1274679	CNE	SOIL	9	537633	6865624	-128.2833383	61.92133051	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:48:02	Chocolate Brown	Gravel	Dry	Steep	20	B	No Tree Cover	Rock Cover	Good	Rocky Sample				20	21
1274680	CNE	SOIL	9	537581	6865617	-128.2843299	61.92127282	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:02:31	Dark Brown	Gravel	Dry	Pronounced Slope	40	B	No Tree Cover	Rock Cover	Poor	Rocky Sample				22	23
1274681	CNE	SOIL	9	537531	6865599	-128.2852858	61.9211162	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:11:50	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				24	25
1274682	CNE	SOIL	9	537437	6865571	-128.2870816	61.92087415	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:54:53	Chocolate Brown	Gravel	Dry	Steep	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				27	28
1274683	CNE	SOIL	9	537395	6865542	-128.2878874	61.92061798	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:03:34	Light Brown	Gravel	Dry	Steep	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				29	30
1274684	CNE	SOIL	9	537347	6865527	-128.2888045	61.92048806	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:16:03	Light Brown	Gravel	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor	Rocky Sample				31	32
1274685	CNE	SOIL	9	537297	6865519	-128.2897582	61.92042117	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:23:17	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky Sample				33	34
1274686	CNE	SOIL	9	537248	6865506	-128.2906939	61.92030928	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:32:23	Chocolate Brown	Silt	Dry	Pronounced Slope	20	B	No Tree Cover	Rock Cover	Good	Organic 10%	Rocky Sample			35	36
1274687	CNE	SOIL	9	537203	6865486	-128.2915549	61.92013417	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:42:15	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Good	Organic 10%	Rocky Sample			37	38
1274688	CNE	SOIL	9	537155	6865470	-128.2924722	61.91999526	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:50:12	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	No Tree Cover	Grass Cover	Good	Rocky Sample				39	40
1274689	CNE	REP	9	537105	6865461	-128.2934261	61.91991936	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:57:31	Light Brown	Gravel	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				41	42
1274689	CNE	SOIL	9	537105	6865461	-128.2934261	61.91991936	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:57:31	Light Brown	Gravel	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				41	42
1274690	CNE	SOIL	9	537059	6865439	-128.2943065	61.91972638	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:05:27	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky Sample				43	44
1274691	CNE	SOIL	9	537015	6865415	-128.2951493	61.91951524	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:15:21	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Thin Moss Cover	Good	Organic 10%	Rocky			45	46
1274692	CNE	SOIL	9	536967	6865398	-128.2960667	61.91936732	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:26:27	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				47	48
1274693	CNE	SOIL	9	536920	6865376	-128.2969662	61.91917442	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:34:40	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Rock Cover	Good	Rocky				49	50
1274694	CNE	SOIL	9	536871	6865365	-128.2979014	61.91908044	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:58:07	Chocolate Brown	Silt	Dry	Pronounced Slope	20	B	No Tree Cover	Rock Cover	Good	Rocky Sample				51	52
1274695	CNE	SOIL	9	536821	6865355	-128.2988555	61.91899553	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:13:16	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Rock Cover	Poor	Rocky Sample				53	54
1274696	CNE	SOIL	9	536771	6865350	-128.2998085	61.91895549	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:25:02	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	Dwarf Birch	Rock Cover	Poor	Organic 10%	Rocky Sample	small		55	56
1274697	CNE	SOIL	9	536721	6865340	-128.3007626	61.91887057	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:35:51	Chocolate Brown	Gravel	Dry	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Poor	Organic 10%	Rocky Sample			57	58
1274698	CNE	SOIL	9	536669	6865341	-128.3017525	61.91888457	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:54:06	Light Brown	Sand	Dry	Steep	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				59	60
1274698	CNE	REP	9	536669	6865341	-128.3017525	61.91888457	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:54:06	Light Brown	Sand	Dry	Steep	30	B	No Tree Cover	Rock Cover	Good	Rocky Sample				59	60
1274699	CNE	SOIL	9	536621	6865355	-128.3026636	61.91901486	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	15:02:07	Light Brown	Gravel	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor	Rocky Sample				61	62
1274700	CNE	SOIL	9	536573	6865374	-128.3035736	61.91919003	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	15:08:42	Chocolate Brown	Silt	Damp	Steep	60	B	Dwarf Birch	Grass Cover	Good	Rocky				63	64
1367002	CNE	SOIL	9	536523	6865379	-128.3045246	61.91923972	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	15:16:56	Chocolate Brown	Silt	Dry	Pronounced Slope	70	B	Dwarf Birch	Rock Cover	Good	Rocky				65	66
1367003	CNE	SOIL	9	536477	6865398	-128.3053966	61.91941469	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	15:26:08	Chocolate Brown	Silt	Damp	Steep	70	C	Dwarf Birch	Bare Soil	Good	Rocky				67	68
1274789	CNE	SOIL	9	538478	6866926	-128.2669683	61.93293254	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	9:15:13	Light Brown	Silt	Damp	Subtle Slope	60	C	No Tree Cover	Rock Cover	Good					2	3
1274790	CNE	SOIL	9	538437	6866895	-128.2677559	61.93265843	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	9:24:53	Dark Brown	Sand	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good					4	5
1274791	CNE	SOIL	9	538386	6866886	-128.2687293	61.93258281	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	9:34:16	Light Brown	Silt	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Excellent					6	7
1274792	CNE	SOIL	9	538342	6866861	-128.2695728	61.93236286	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	9:42:19	Dark Brown	Silt	Damp	Subtle Slope	60	C	No Tree Cover	Rock Cover	Good					8	9
1274793	CNE	SOIL	9	538287	6866857	-128.2706214	61.9323325	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	9:53:47	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good					10	11
1274794	CNE	SOIL	9	538252	6866816	-128.2712968	61.93196802	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:01:53	Dark Brown	Silt	Damp	Subtle Slope	50	C	No Tree Cover	Rock Cover	Good					12	13
1274795	CNE	SOIL	9	538210	6866788	-128.2721028	61.93172092	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:10:22	Light Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Bare Soil	Good					14	15
1274796	CNE	SOIL	9	538187	6866738	-128.2725516	61.93127444	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:19:32	Light Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Bare Soil	Good					16	17
1274797	CNE	SOIL	9	538205	6866689	-128.2722192	61.9308328	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:27:26	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good					18	19
1274798	CNE	SOIL	9	538233	6866641	-128.2716961	61.93039914	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:36:53	Light Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Bare Soil	Good					20	21
1274799	CNE	REP	9	538236	6866583	-128.2716514	61.92987823	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:49:42	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good					22	23
1274799	CNE	SOIL	9	538236	6866583	-128.2716514	61.92987823	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:49:42	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good					22	23
1274800	CNE	SOIL	9	538283	6866524	-128.2707688	61.92934392	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:06:02	Dark Brown	Silt	Damp	Subtle Slope	5	C	No Tree Cover	Rock Cover	Poor			Hand sample. Taken 25m West on line due to lack c		24	25
1274826	CNE	SOIL	9	538253	6866482	-128.2713492	61.92896995	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:21:38	Light Brown	Silt	Dry	Subtle Slope	10	C	No Tree Cover	Rock Cover	Poor			Hand sample		26	27
1274827	CNE	SOIL	9	538210	6866452	-128.2721746	61.928705	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:33:24	Light Grey	Silt	Dry	Subtle Slope	10	C	No Tree Cover	Rock Cover	Poor	Small Sample		Hand sample		28	29
1274828	CNE	SOIL	9	538171	6866420	-128.2729242	61.92842169	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:42:11	Grey	Sand	Damp	Subtle Slope	50	C	No Tree Cover	Rock Cover	Good					30	31
1274829	CNE	SOIL	9	538121	6866406	-128.2738795	61.92830105	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:54:34	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Poor					32	33
1274830	CNE	SOIL	9	538070	6866410	-128.27485	61.92834207	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:04:42	Light Brown	Silt	Dry	Subtle Slope	10	C	No Tree Cover	Rock Cover	Poor			Hand sample		34	35
1274830	CNE	REP	9	538070	6866410	-128.27485	61.92834207	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:04:42	Light Brown	Silt	Dry	Subtle Slope	10	C	No Tree Cover	Rock Cover	Poor			Hand sample		34	35
1274831	CNE	SOIL	9	538018	6866428	-128.2758365	61.92850885	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:16:47	Light Brown	Silt	Dry	Subtle Slope	10	C	No Tree Cover	Rock Cover	Poor			Hand sample		36	37
1274832	CNE	SOIL	9	537976	6866459	-128.2766299	61.9287913	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:28:45	Light Brown	Silt	Dry	Subtle Slope	10	C	No Tree Cover	Rock Cover	Poor			Hand sample		38	39
1274833	CNE	SOIL	9	537924	6866465	-128.277619	61.92885036	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:38:22	Light Brown	Silt	Dry	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Poor					40	41
1274834	CNE	SOIL	9	537877	6866492	-128.2785085	61.9290974	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:00:47	Dark Brown	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					42	43
1274835	CNE	SOIL	9	537843	6866532	-128.2791476	61.92945983	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:11:12	Dark Brown	Silt	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good					44	45
1274836	CNE	SOIL	9	537815	6866578	-128.2796712	61.92987551	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:24:47	Grey	Gravel	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Poor					46	47
1274837	CNE	SOIL	9	537787	6866622	-128.2801952	61.93027324	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:35:03	Grey	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					48	49
1274838	CNE	SOIL	9	537769	6866670	-128.280528	61.93070588	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:45:56	Grey	Sand	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					50	51
1274839	CNE	SOIL	9	537753	6866719	-128.2808224	61.93114729	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:56:39	Dark Brown	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					52	53
1274840	CNE	SOIL	9	537739	6866768	-128.2810787	61.9315885	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:05:47	Dark Brown	Silt	Damp	Pronounced Slope	70	C	No Tree Cover	Rock Cover	Excellent					54	55
1274841	CNE	SOIL	9	537704	6866810	-128.2817365	61.93196897	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:16:28	Dark Brown	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					56	57
1274842	CNE	SOIL	9	537668	6866849	-128.2824141	61.93232261	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:26:18	Dark Brown	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					58	59
1274843	CNE	SOIL	9	537638	6866894	-128.2829761	61.9327295	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:37:47	Grey	Gravel	Dry	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good					60	61
1274844	CNE	SOIL	9	537608	6866935	-128.2835389	61.93310049	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:47:59	Dark Brown	Silt	Dry	Pronounced Slope	60	C	No Tree Cover	Rock Cover	Good					62	63
1274845	CNE	SOIL	9	537586	6866983	-128.2839479	61.93353351	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	15:01:00	Dark Brown	Silt	Damp	Pronounced Slope	50	C	No Tree Cover	Thin Moss Cover	Good					64	65
1274915	CNE	SOIL	9	538541	6866047	-128.2659575	61.9250363	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	9:48:40	Chocolate Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Excellent	Coarse	Rocky			13	14
1274916	CNE	SOIL	9	538505	6866011	-128.2666508	61.92471682	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:04:05	Chocolate Brown	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			15	16
1274917	CNE	SOIL	9	538468	6865979	-128.2673623	61.92443333	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:15:10	Chocolate Brown	Sand	Damp	Pronounced Slope	10	C	No Tree Cover	Rock Cover	Good	Fine	Rocky Sample			17	18
1274918	CNE	SOIL	9	538428	6865949	-128.2681305	61.9241681	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:28:34	Chocolate Brown	Sand	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			19	20
1274919	CNE	SOIL	9	538383	6865926	-128.2689924	61.92396621	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:37:26	Light Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Excellent	Fine				21	22
1274919	CNE	REP	9	538383	6865926	-128.2689924	61.92396621	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:37:26	Light Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Excellent	Fine				21	22
1274920	CNE	SOIL	9	538338	6865904	-128.269854	61.92377328	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	10:50:36	Chocolate Brown	Sand	Damp	Steep	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			23	24
1274921	CNE	SOIL	9	538290	6865886	-128.2707719	61.92361656	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:03:28	Chocolate Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Excellent	Coarse				25	26
1274922	CNE	SOIL	9	538243	6865904	-128.2716631	61.92378286	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:13:05	Dark Brown	Gravel	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Fine	Rocky Sample			27	28
1274923	CNE	SOIL	9	538194	6865889	-128.2725994	61.92365315	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:25:16	Chocolate Brown	Sand	Damp	Subtle Slope	20	C	No Tree Cover	Rock Cover	Good	Rocky Sample	Outcrop Nearby			29	30
1274926	CNE	SOIL	9	538144	6865883	-128.2735529	61.92360432	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:39:43	Dark Grey Black	Gravel	Damp	Flat	30	C	No Tree Cover	Rock Cover	Good	Fine				31	32
1274927	CNE	SOIL	9	538112	6865922	-128.2741539	61.92395759	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	11:54:14	Grey	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Rock Cover	Good	Coarse	Rocky			33	34
1274928	CNE	REP	9	538063	6865933	-128.2750847	61.92406124	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:07:36	Chocolate Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			35	36
1274928	CNE	SOIL	9	538063	6865933	-128.2750847	61.92406124	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:07:36	Chocolate Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			35	36
1274929	CNE	SOIL	9	538012	6865934	-128.2760557	61.92407532	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:41:04	Dark Brown	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			37	38
1274930	CNE	SOIL	9	537963	6865937	-128.2769882	61.92410715	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	12:51:58	Dark Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Fine	Rocky			39	40
1274931	CNE	SOIL	9	537915	6865956	-128.2778983	61.92428249	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:01:21	Grey	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			41	42
1274932	CNE	SOIL	9	537871	6865978	-128.2787315	61.92448435	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:12:20	Dark Brown	Silt	Damp	Subtle Slope	30	B	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			43	44
1274933	CNE	SOIL	9	537823	6865996	-128.2796418	61.9246507	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:20:30	Dark Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Fine				45	46
1274934	CNE	SOIL	9	537775	6866010	-128.280553	61.92478114	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:31:11	Grey	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			47	48
1274935	CNE	SOIL	9	537730	6866032	-128.2814053	61.92498308	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:40:19	Dark Brown	Silt	Damp	Subtle Slope	30	B	No Tree Cover	Rock Cover	Good	Coarse	Rocky			49	50
1274936	CNE	SOIL	9	537705	6866077	-128.2818719	61.92538949	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	13:50:30	Grey	Gravel	Wet	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			51	52
1274937	CNE	SOIL	9	537659	6866097	-128.2827437	61.92557357	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:00:19	Grey	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Fine				53	54
1274938	CNE	SOIL	9	537625	6866133	-128.2833837	61.92590007	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:10:14	Grey	Sand	Wet	Subtle Slope	50	C	No Tree Cover	Rock Cover	Good	Fine	Wet Soil			55	56
1274939	CNE	SOIL	9	537591	6866170	-128.2840234	61.92623555	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:21:50	Chocolate Brown	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Fine	Rocky			57	58
1274940	CNE	SOIL	9	537560	6866210	-128.2846054	61.92659766	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:33:48	Grey	Sand	Damp	Subtle Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			59	60
1274941	CNE	SOIL	9	537542	6866257	-128.2849384	61.92702131	RYAN GOLD CORP.	05/09/2012	31/08/2012	1DX15	WHI12000796	21/08/2012	14:50:33	Chocolate

sample_id	project_id	sample_type	utm_zone	utm_easting	utm_northing	wgs84_longitude	wgs84_latitude	client	file_created_date	shipment_received_date	analysis_method	job_number	sample_date	sample_time	colour	texture	moisture	site_slope	depth	horizon	site_vegetation	ground_cover	quality	note1	note2	remarks	dupe_of_id	sample_photo_file	site_photo_file
1367016	HRN	SOIL	9	508563	6871819	-128.836627	61.97870819	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:21:29	Chocolate Brown	Silt	Dry	Pronounced Slope	60	C	No Tree Cover	Bare Soil	Good	Organic 10%	Rocky			31	32
1367017	HRN	SOIL	9	508603	6871848	-128.8358624	61.97896761	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:29:53	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Reindeer Moss	Good	Rocky				33	34
1367018	HRN	SOIL	9	508643	6871878	-128.8350978	61.97923599	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:40:09	Chocolate Brown	Silt	Dry	Pronounced Slope	50	B	No Tree Cover	Thin Moss Cover	Good	Organic 10%	Rocky			35	36
1367019	HRN	SOIL	9	508682	6871910	-128.8343522	61.97952235	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:48:21	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	No Tree Cover	Grass Cover	Good	Rocky				37	38
1367020	HRN	SOIL	9	508744	6871832	-128.8331731	61.97882075	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:12:04	Light Brown	Silt	Dry	Pronounced Slope	60	B	No Tree Cover	Reindeer Moss	Good	Organic 10%	Rocky			39	40
1367021	HRN	SOIL	9	508705	6871800	-128.8339187	61.9785344	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:21:41	Chocolate Brown	Silt	Dry	Pronounced Slope	60	B	No Tree Cover	Reindeer Moss	Good	Rocky				41	42
1367022	HRN	SOIL	9	508666	6871770	-128.8346642	61.978266	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:30:58	Light Brown	Silt	Dry	Pronounced Slope	50	B	Black Spruce	Thin Moss Cover	Good	Rocky				43	44
1367023	HRN	SOIL	9	508628	6871733	-128.835391	61.97793473	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:40:56	Chocolate Brown	Silt	Dry	Pronounced Slope	40	C	Black Spruce	Reindeer Moss	Good	Rocky				45	46
1367024	HRN	SOIL	9	508588	6871705	-128.8361555	61.9776843	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:52:00	Chocolate Brown	Silt	Dry	Pronounced Slope	60	B	Willows	Grass Cover	Good	Organic 10%	Rocky			47	48
1367025	HRN	SOIL	9	508588	6871705	-128.8361555	61.9776843	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:59:06	Chocolate Brown	Silt	Dry	Pronounced Slope	60	B	Willows	Grass Cover	Good	Organic 10%	Rocky		1367024	49	50
1367026	HRN	SOIL	9	508547	6871677	-128.836939	61.97743388	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:11:07	Dark Brown	Silt	Damp	Pronounced Slope	80	B	Willows	Grass Cover	Poor	Organic 25%	Rocky			51	52
1367027	HRN	SOIL	9	508513	6871639	-128.8375895	61.97709354	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:23:25	Chocolate Brown	Silt	Damp	Steep	40	B	Black Spruce	Bare Soil	Good	Organic 10%	Small Sample			53	54
1367028	HRN	SOIL	9	508470	6871614	-128.838411	61.97687008	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:36:02	Dark Brown	Silt	Damp	Pronounced Slope	50	B	No Tree Cover	Grass Cover	Good	Rocky	Organic 10%			55	56
1367028	HRN	REP	9	508470	6871614	-128.838411	61.97687008	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:36:02	Dark Brown	Silt	Damp	Pronounced Slope	50	B	No Tree Cover	Grass Cover	Good	Rocky	Organic 10%			55	56
1367029	HRN	SOIL	9	508442	6871570	-128.8389473	61.97647574	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:51:11	Chocolate Brown	Silt	Damp	Pronounced Slope	80	B	Willows	Grass Cover	Good	Organic 10%	Possible Creek Contamination			57	58
1367030	HRN	SOIL	9	508394	6871550	-128.839864	61.97629727	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:07:12	Dark Brown	Silt	Damp	Steep	80	B	Willows	Bare Soil	Good	Organic 25%				59	60
1367031	HRN	SOIL	9	508373	6871494	-128.8402672	61.97579505	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:30:07	Chocolate Brown	Gravel	Damp	Steep	40	B	No Tree Cover	Rock Cover	Good	Rocky Sample				64	65
1367032	HRN	SOIL	9	508332	6871461	-128.8410509	61.97549973	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:07:05	Chocolate Brown	Silt	Dry	Steep	40	B	No Tree Cover	Grass Cover	Good	Rocky	Small Sample			66	67
1367033	HRN	SOIL	9	508245	6871411	-128.8427129	61.9750528	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:24:52	Chocolate Brown	Silt	Dry	Steep	30	B	No Tree Cover	Rock Cover	Good	Organic 10%	Rocky			69	70
1367034	HRN	SOIL	9	508220	6871360	-128.8431922	61.97459554	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:39:32	Chocolate Brown	Silt	Dry	Steep	30	B	No Tree Cover	Thin Moss Cover	Good	Organic 10%	Rocky Sample			71	72
1367035	HRN	SOIL	9	508161	6871347	-128.8443183	61.97448012	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:52:24	Chocolate Brown	Silt	Damp	Steep	30	B	No Tree Cover	Thin Moss Cover	Good	Organic 10%	Rocky Sample			73	74
1274852	HRN	SOIL	9	508171	6871258	-128.8441316	61.97368099	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	10:44:39	Chocolate Brown	Silt	Dry	Subtle Slope	30	B	No Tree Cover	Thin Moss Cover	Good					2	3
1274853	HRN	SOIL	9	508188	6871328	-128.8438041	61.97430898	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:03:11	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor			Sample taken 40m East of line due to cliff band		4	5
1274854	HRN	SOIL	9	508249	6871326	-128.8426405	61.9742897	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:14:23	Chocolate Brown	Silt	Dry	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					6	7
1274855	HRN	SOIL	9	508291	6871354	-128.841838	61.97454013	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:24:25	Chocolate Brown	Silt	Damp	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor					8	9
1274856	HRN	SOIL	9	508341	6871372	-128.8408834	61.97470061	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:36:38	Chocolate Brown	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good			Sample taken 15m West of line		10	11
1274857	HRN	SOIL	9	508372	6871412	-128.8402901	61.97505899	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:50:32	Chocolate Brown	Silt	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good					15	16
1274858	HRN	SOIL	9	508411	6871443	-128.8395447	61.9753364	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:03:06	Chocolate Brown	Silt	Damp	Pronounced Slope	60	C	No Tree Cover	Thin Moss Cover	Good					17	18
1274859	HRN	SOIL	9	508447	6871478	-128.8388563	61.97564978	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:15:44	Dark Brown	Silt	Damp	Subtle Slope	60	B	No Tree Cover	Grass Cover	Good					19	20
1274860	HRN	SOIL	9	508488	6871508	-128.8380727	61.97591816	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:26:35	Dark Brown	Silt	Damp	Subtle Slope	80	B	Alders	Grass Cover	Good	Possible Creek Contamination				21	22
1274860	HRN	REP	9	508488	6871508	-128.8380727	61.97591816	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:26:35	Dark Brown	Silt	Damp	Subtle Slope	80	B	Alders	Grass Cover	Good	Possible Creek Contamination				21	22
1274861	HRN	SOIL	9	508528	6871536	-128.8373083	61.97616861	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:37:14	Grey	Silt	Damp	Subtle Slope	80	C	Subalpine Fir	Leaf Cover	Good					23	24
1274862	HRN	SOIL	9	508567	6871568	-128.8365627	61.97645498	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:49:09	Grey	Silt	Damp	Subtle Slope	80	C	Subalpine Fir	Grass Cover	Good					25	26
1274863	HRN	SOIL	9	508605	6871600	-128.8358362	61.97674137	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:59:24	Grey	Silt	Wet	Subtle Slope	90	C	Subalpine Fir	Sphagnum Moss < 30cm	Good	Possible Creek Contamination				27	28
1274864	HRN	SOIL	9	508646	6871629	-128.8350526	61.97700076	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:14:16	Dark Brown	Silt	Damp	Pronounced Slope	40	B	Subalpine Fir	Sphagnum Moss < 30cm	Poor	Volcanic Ash				29	30
1274865	HRN	SOIL	9	508686	6871663	-128.8342879	61.97730505	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:25:19	Grey	Silt	Damp	Subtle Slope	60	C	Subalpine Fir	Grass Cover	Good					31	32
1274866	HRN	SOIL	9	508725	6871693	-128.8335424	61.97757345	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:36:47	Dark Brown	Silt	Damp	Subtle Slope	80	C	Subalpine Fir	Thin Moss Cover	Excellent					33	34
1274867	HRN	SOIL	9	508765	6871724	-128.8327777	61.9778508	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:46:40	Dark Brown	Silt	Damp	Subtle Slope	70	C	Subalpine Fir	Thin Moss Cover	Good					35	36
1274868	HRN	SOIL	9	508804	6871752	-128.8320323	61.97810124	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:00:07	Chocolate Brown	Silt	Damp	Subtle Slope	60	C	Subalpine Fir	Thin Moss Cover	Good					39	40
1274869	HRN	SOIL	9	508985	6871765	-128.8285784	61.97821369	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:16:06	Chocolate Brown	Silt	Damp	Pronounced Slope	50	C	No Tree Cover	Grass Cover	Good					41	42
1274870	HRN	SOIL	9	508946	6871735	-128.829324	61.97794531	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:28:16	Light Brown	Silt	Dry	Pronounced Slope	60	C	No Tree Cover	Rock Cover	Good					43	44
1274871	HRN	SOIL	9	508905	6871704	-128.8301078	61.977668	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:40:54	Dark Brown	Silt	Damp	Subtle Slope	60	C	No Tree Cover	Thin Moss Cover	Good					45	46
1274872	HRN	SOIL	9	508868	6871674	-128.8308151	61.97739957	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:50:14	Chocolate Brown	Silt	Damp	Pronounced Slope	70	C	No Tree Cover	Thin Moss Cover	Good					47	48
1274873	HRN	SOIL	9	508824	6871646	-128.831656	61.97714926	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:59:09	Chocolate Brown	Silt	Damp	Pronounced Slope	60	C	Subalpine Fir	Thin Moss Cover	Good					49	50
1274876	HRN	SOIL	9	508788	6871608	-128.8323446	61.97680898	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:12:29	Chocolate Brown	Silt	Damp	Pronounced Slope	60	C	Subalpine Fir	Sphagnum Moss < 30cm	Good					51	52
1274877	HRN	SOIL	9	508748	6871576	-128.8331093	61.97652266	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:25:07	Dark Brown	Silt	Damp	Pronounced Slope	80	C	Subalpine Fir	Thin Moss Cover	Good					53	54
1274878	HRN	SOIL	9	508707	6871544	-128.8338931	61.97623635	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:42:14	Chocolate Brown	Silt	Damp	Subtle Slope	80	C	Subalpine Fir	Sphagnum Moss < 30cm	Good					55	56
1274879	HRN	SOIL	9	508669	6871519	-128.8346192	61.97601281	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:56:08	Dark Brown	Silt	Damp	Subtle Slope	60	C	Subalpine Fir	Grass Cover	Good					57	58
1274880	HRN	SOIL	9	508631	6871489	-128.8353456	61.97574438	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:08:08	Grey	Silt	Damp	Flat	40	B	No Tree Cover	Grass Cover	Good					59	60
1274881	HRN	SOIL	9	508592	6871455	-128.8360912	61.9754406	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:19:33	Dark Brown	Silt	Damp	Pronounced Slope	60	B	Subalpine Fir	Grass Cover	Poor					61	62
1274882	HRN	SOIL	9	508550	6871426	-128.8368938	61.97518069	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:29:23	Dark Brown	Silt	Damp	Subtle Slope	60	C	Subalpine Fir	Thin Moss Cover	Good					63	64
1274883	HRN	SOIL	9	508511	6871398	-128.8376392	61.97493022	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:44:49	Dark Brown	Silt	Damp	Subtle Slope	60	C	No Tree Cover	Grass Cover	Good					67	68
1274884	HRN	SOIL	9	508473	6871365	-128.8383656	61.97463485	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:57:02	Chocolate Brown	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Poor					69	70
1274885	HRN	REP	9	508429	6871340	-128.8392062	61.97441142	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:10:26	Chocolate Brown	Silt	Damp	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor					71	72
1274885	HRN	SOIL	9	508429	6871340	-128.8392062	61.97441142	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:10:26	Chocolate Brown	Silt	Damp	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor					71	72
1274886	HRN	SOIL	9	508370	6871323	-128.8403325	61.97426012	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:26:40	Chocolate Brown	Silt	Dry	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Poor			sample taken 30m West of line due to cliff band		73	74
1274887	HRN	SOIL	9	508326	6871298	-128.841173	61.97403668	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:44:17	Chocolate Brown	Silt	Damp	Steep	30	C	No Tree Cover	Rock Cover	Poor			sample taken 30m W.est of line		75	76
1274954	HRN	SOIL	9	508411	6871199	-128.8395562	61.97314612	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	10:58:11	Chocolate Brown	Sand	Damp	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Excellent	Coarse	Rocky Terrain			1	2
1274955	HRN	SOIL	9	508463	6871212	-128.8385637	61.97326166	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:16:24	Light Brown	Sand	Damp	Steep	40	C	No Tree Cover	Rock Cover	Good	Fine				4	5
1274956	HRN	SOIL	9	508493	6871254	-128.8379894	61.973638	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:33:13	Light Brown	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Bare Soil	Good	Fine				6	7
1274957	HRN	SOIL	9	508532	6871286	-128.8372439	61.97392438	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:48:05	Chocolate Brown	Sand	Damp	Pronounced Slope	50	C	Subalpine Fir	Thin Moss Cover	Good	Fine	Rocky Sample			8	9
1274958	HRN	SOIL	9	508573	6871315	-128.8364604	61.97418377	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	11:58:04	Chocolate Brown	Silt	Damp	Subtle Slope	40	B	Subalpine Fir	Thin Moss Cover	Poor	Coarse	Rocky Terrain	rocky sample		10	11
1274959	HRN	SOIL	9	508614	6871344	-128.8356769	61.97444316	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:08:38	Chocolate Brown	Sand	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good	Fine	Rocky Terrain	talus		12	13
1274960	HRN	SOIL	9	508650	6871379	-128.8349885	61.97475652	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:17:59	Chocolate Brown	Sand	Damp	Subtle Slope	100	C	No Tree Cover	Thin Moss Cover	Excellent	Coarse				14	15
1274961	HRN	SOIL	9	508689	6871408	-128.8342431	61.97501595	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:27:31	Chocolate Brown	Silt	Damp	Subtle Slope	50	B	Subalpine Fir	Thin Moss Cover	Good	Coarse	Rocky			16	17
1274962	HRN	SOIL	9	508729	6871441	-128.8334784	61.97531126	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:39:28	Chocolate Brown	Sand	Damp	Subtle Slope	50	C	Subalpine Fir	Thin Moss Cover	Good	Fine		some b horizon		18	19
1274963	HRN	SOIL	9	508769	6871472	-128.8327138	61.97558861	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:50:21	Chocolate Brown	Silt	Damp	Subtle Slope	40	C	Subalpine Fir	Thin Moss Cover	Good	Coarse				20	21
1274964	HRN	SOIL	9	508809	6871502	-128.8319492	61.97585698	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	12:59:51	Light Brown	Silt	Damp	Subtle Slope	50	B	Subalpine Fir	Grass Cover	Good	Fine				22	23
1274965	HRN	SOIL	9	508849	6871532	-128.8311847	61.97612534	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:17:24	Chocolate Brown	Silt	Damp	Pronounced Slope	40	B	Subalpine Fir	Thin Moss Cover	Good	Fine				24	25
1274966	HRN	SOIL	9	508889	6871562	-128.8304201	61.97639371	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:39:04	Chocolate Brown	Sand	Damp	Pronounced Slope	60	C	Subalpine Fir	Thin Moss Cover	Excellent	Coarse				26	27
1274967	HRN	SOIL	9	508927	6871594	-128.8296935	61.97668006	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	13:48:50	Chocolate Brown	Silt	Damp	Subtle Slope	30	B	Subalpine Fir	Thin Moss Cover	Good	Fine				28	29
1274968	HRN	SOIL	9	508966	6871626	-128.8289479	61.97696639	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:05:59	Chocolate Brown	Sand	Damp	Pronounced Slope	50	C	Subalpine Fir	Thin Moss Cover	Good	Rocky Terrain	Fine			30	31
1274969	HRN	SOIL	9	509008	6871654	-128.8281452	61.97721674	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:25:48	Chocolate Brown	Silt	Damp	Pronounced Slope	30	B	No Tree Cover	Rock Cover	Poor	Fine	Small Sample			32	33
1274970	HRN	SOIL	9	509046	6871683	-128.8274188	61.97747616	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:36:36	Light Brown	Sand	Damp	Pronounced Slope	40	C	No Tree Cover	Bare Soil	Excellent	Coarse	Quartz Chips			34	35
1274971	HRN	SOIL	9	509186	6871668	-128.8247486	61.97733814	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:48:02	Light Brown	Silt	Damp	Subtle Slope	60	B	No Tree Cover	Thin Moss Cover	Good	Fine				36	37
1274972	HRN	SOIL	9	509148	6871638	-128.8254751	61.97706976	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	14:56:24	Light Brown	Silt	Damp	Subtle Slope	40	B	Dwarf Birch	Thin Moss Cover	Good	Coarse				38	39
1274973	HRN	SOIL	9	509108	6871609	-128.8262397	61.97681041	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:04:19	Chocolate Brown	Silt	Damp	Subtle Slope	40	B	Subalpine Fir	Thin Moss Cover	Good	Coarse				40	41
1274973	HRN	REP	9	509108	6871609	-128.8262397	61.97681041	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:04:19	Chocolate Brown	Silt	Damp	Subtle Slope	40	B	Subalpine Fir	Thin Moss Cover	Good	Coarse				40	41
1274976	HRN	SOIL	9	509072	6871574	-128.8269283	61.97649709	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:17:16	Chocolate Brown	Silt	Damp	Pronounced Slope	40	B	Subalpine Fir	Thin Moss Cover	Good	Fine	Rocky Terrain			42	43
1274977	HRN	SOIL	9	509030	6871547	-128.8277309	61.97625572	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:27:24	Chocolate Brown	Silt	Damp	Pronounced Slope	40	C	Subalpine Fir	Thin Moss Cover	Good	Coarse	Rocky Sample			44	45
1274978	HRN	SOIL	9	508991	6871514	-128.8284766	61.97596042	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:39:19	Chocolate Brown	Silt	Damp	Pronounced Slope	80	C	Subalpine Fir	Thin Moss Cover	Good	Coarse				46	47
1274979	HRN	SOIL	9	508953	6871481	-128.8292032	61.9756651	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	15:49:48	Reddish Yellow	Silt	Damp	Pronounced Slope	50	B	Subalpine Fir	Thin Moss Cover	Good	Fine				48	49
1274980	HRN	SOIL	9	508911	6871456	-128.8300057	61.97544167	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:16:45	Dark Brown	Silt	Damp	Pronounced Slope	40	B	Subalpine Fir	Grass Cover	Poor	Fine		very fine		50	51
1274981	HRN	SOIL	9	508870	6871426	-128.8307893	61.97517334	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:31:38	Chocolate Brown	Silt	Damp	Pronounced Slope	50	B	Subalpine Fir	Thin Moss Cover	Good	Coarse				52	53
1274982	HRN	SOIL	9	508836	6871387	-128.8314399	61.97482405	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:42:27	Grey	Sand	Wet	Subtle Slope	100	C	Willows	Grass Cover	Good	Wet Soil	Coarse			54	55
1274983	HRN	SOIL	9	508792	6871361	-128.8322805	61.97459168	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	16:56:26	Grey	Silt	Damp	Subtle Slope	90	B	Willows	Rock Cover	Poor	Organic 10%	Possible Creek Contamination			56	57
1274984	HRN	SOIL	9	508758	6871325	-128.8329309	61.97426931	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:06:24	Grey	Silt	Damp	Subtle Slope	20	B	No Tree Cover	Rock Cover	Good	Fine	Quartz Chips			58	59
1274985	HRN	SOIL	9	508712	6871300	-128.8338096	61.97404595	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	22/08/2012	17:15:25	Chocolate Brown	Silt	Damp	Pronounced Slope	40	B	No Tree Cover	Thin Moss Cover	Good	Coarse	Rocky Sample			60	61
1274986	HRN	SOIL	9	508673	6871271	-128.834555	61.97378653	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15

sample_id	project_id	sample_type	utm_zone	utm_easting	utm_northing	wgs84_longitude	wgs84_latitude	client	file_created_date	shipment_received_date	analysis_method	job_number	sample_date	sample_time	colour	texture	moisture	site_slope	depth	horizon	site_vegetation	ground_cover	quality	note1	note2	remarks	dupe_of_id	sample_photo_file	site_photo_file
1367059	HRN	SOIL	9	509505	6871664	-128.818663	61.97729437	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:26:41	Light Brown	Silt	Damp	Subtle Slope	60	B	Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	Mud			46	47
1367060	HRN	SOIL	9	509541	6871699	-128.8179743	61.97760764	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:36:04	Chocolate Brown	Silt	Dry	Subtle Slope	50	B	Black Spruce	Sphagnum Moss > 30cm	Good	Rocky				48	49
1367061	HRN	SOIL	9	509586	6871727	-128.8171143	61.97785785	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:14:33	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	Alders	Sphagnum Moss > 30cm	Poor	Organic 50%	Rocky			50	51
1367062	HRN	SOIL	9	509624	6871756	-128.8163877	61.97811721	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:21:38	Chocolate Brown	Silt	Dry	Pronounced Slope	30	C	No Tree Cover	Reindeer Moss	Good	Rocky				52	53
1367063	HRN	SOIL	9	509663	6871788	-128.8156419	61.97840347	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:30:13	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	Willows	Reindeer Moss	Good	Rocky				54	55
1367064	HRN	SOIL	9	509703	6871817	-128.8148772	61.97866276	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:39:02	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	Willows	Reindeer Moss	Good	Rocky				56	57
1367064	HRN	REP	9	509703	6871817	-128.8148772	61.97866276	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:39:02	Chocolate Brown	Silt	Dry	Pronounced Slope	30	B	Willows	Reindeer Moss	Good	Rocky				56	57
1367065	HRN	SOIL	9	509743	6871847	-128.8141124	61.97893104	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:41:14	Chocolate Brown	Silt	Dry	Steep	30	B	Black Spruce	Bare Soil	Good	Organic 10%	Rocky			58	59
1367066	HRN	SOIL	9	509783	6871877	-128.8133476	61.9791993	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	16:04:27	Dark Brown	Silt	Dry	Pronounced Slope	40	B	Black Spruce	Sphagnum Moss > 30cm	Good	Organic 25%	Quartz Chips			60	61
1367067	HRN	SOIL	9	509825	6871911	-128.8125444	61.97950342	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	16:15:11	Chocolate Brown	Silt	Dry	Pronounced Slope	40	B	Black Spruce	Sphagnum Moss > 30cm	Good	Rocky				62	63
1274888	HRN	SOIL	9	508576	6871069	-128.836415	61.97197546	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	9:39:26	Dark Brown	Silt	Damp	Subtle Slope	30	B	Subalpine Fir	Rock Cover	Poor					2	3
1274889	HRN	SOIL	9	508614	6871100	-128.8356887	61.97225288	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	9:55:19	Chocolate Brown	Gravel	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Poor					4	5
1274890	HRN	SOIL	9	508656	6871130	-128.8348861	61.97252122	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:03:14	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Rock Cover	Good					6	7
1274891	HRN	SOIL	9	508694	6871162	-128.8341597	61.9728076	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:15:10	Chocolate Brown	Gravel	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good					8	9
1274892	HRN	SOIL	9	508733	6871192	-128.8334143	61.973076	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:27:02	Chocolate Brown	Silt	Damp	Pronounced Slope	50	C	No Tree Cover	Thin Moss Cover	Good					10	11
1274893	HRN	SOIL	9	508774	6871223	-128.8326307	61.97335333	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:36:53	Light Brown	Silt	Dry	Pronounced Slope	50	B	Subalpine Fir	Reindeer Moss	Poor					12	13
1274894	HRN	SOIL	9	508813	6871255	-128.8318851	61.97363967	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:56:58	Dark Brown	Silt	Damp	Pronounced Slope	50	B	Subalpine Fir	Sphagnum Moss < 30cm	Poor					14	15
1274895	HRN	SOIL	9	508852	6871283	-128.8311398	61.97389011	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:11:48	Chocolate Brown	Silt	Damp	Subtle Slope	50	C	Subalpine Fir	Thin Moss Cover	Good					16	17
1274896	HRN	SOIL	9	508894	6871309	-128.8303373	61.97412252	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:22:14	Dark Brown	Silt	Damp	Flat	50	C	Willows	Grass Cover	Good					18	19
1274897	HRN	SOIL	9	508931	6871346	-128.8296297	61.97445378	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:39:36	Light Brown	Silt	Dry	Pronounced Slope	70	B	Subalpine Fir	Sphagnum Moss < 30cm	Good	Volcanic Ash				20	21
1274898	HRN	SOIL	9	508971	6871377	-128.828865	61.97473111	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:06:58	Dark Brown	Silt	Dry	Pronounced Slope	30	A	Alders	Thin Moss Cover	Poor	Volcanic Ash				22	23
1274899	HRN	SOIL	9	509011	6871407	-128.8281005	61.97499946	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:21:07	Dark Brown	Silt	Damp	Pronounced Slope	70	C	Alders	Grass Cover	Good					24	25
1274900	HRN	SOIL	9	509052	6871436	-128.8273169	61.9752588	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:33:43	Dark Brown	Silt	Damp	Pronounced Slope	70	C	Subalpine Fir	Thin Moss Cover	Good					26	27
1367102	HRN	SOIL	9	509092	6871468	-128.8265522	61.97554509	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:47:22	Dark Brown	Silt	Damp	Pronounced Slope	60	C	No Tree Cover	Thin Moss Cover	Excellent					28	29
1367103	HRN	SOIL	9	509131	6871498	-128.8258066	61.97581345	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:57:48	Dark Brown	Silt	Damp	Subtle Slope	40	C	No Tree Cover	Thin Moss Cover	Good					30	31
1367104	HRN	SOIL	9	509171	6871529	-128.825042	61.97609076	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:06:43	Chocolate Brown	Silt	Dry	Subtle Slope	60	C	No Tree Cover	Thin Moss Cover	Good					32	33
1367104	HRN	REP	9	509171	6871529	-128.825042	61.97609076	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:06:43	Chocolate Brown	Silt	Dry	Subtle Slope	60	C	No Tree Cover	Thin Moss Cover	Good					32	33
1367104	HRN	REP	9	509171	6871529	-128.825042	61.97609076	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:06:43	Chocolate Brown	Silt	Dry	Subtle Slope	60	C	No Tree Cover	Thin Moss Cover	Good					32	33
1367105	HRN	SOIL	9	509208	6871558	-128.8243346	61.97635018	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:15:57	Chocolate Brown	Silt	Dry	Subtle Slope	30	C	No Tree Cover	Thin Moss Cover	Good					34	35
1367106	HRN	SOIL	9	509245	6871591	-128.823627	61.97664551	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:25:05	Chocolate Brown	Silt	Damp	Subtle Slope	30	B	No Tree Cover	Thin Moss Cover	Poor					36	37
1367107	HRN	SOIL	9	509287	6871619	-128.8228243	61.97689583	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:36:02	Dark Brown	Silt	Damp	Pronounced Slope	40	C	Subalpine Fir	Grass Cover	Good					38	39
1367108	HRN	SOIL	9	509329	6871649	-128.8220215	61.97716409	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:48:17	Dark Brown	Silt	Damp	Pronounced Slope	40	B	Subalpine Fir	Grass Cover	Poor					40	41
1367109	HRN	SOIL	9	509369	6871685	-128.8212565	61.97748626	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:01:21	Chocolate Brown	Silt	Damp	Subtle Slope	80	C	Subalpine Fir	Grass Cover	Good					42	43
1367110	HRN	SOIL	9	509404	6871712	-128.8205873	61.97772776	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:12:14	Grey	Silt	Damp	Flat	60	C	Subalpine Fir	Grass Cover	Good					44	45
1367111	HRN	SOIL	9	509445	6871743	-128.8198035	61.97800502	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:23:43	Chocolate Brown	Silt	Damp	Subtle Slope	40	B	No Tree Cover	Sphagnum Moss < 30cm	Good					46	47
1367112	HRN	SOIL	9	509483	6871775	-128.8190768	61.97829132	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:34:01	Dark Brown	Silt	Damp	Subtle Slope	50	B	Subalpine Fir	Grass Cover	Poor					48	49
1367113	HRN	SOIL	9	509525	6871802	-128.818274	61.97853263	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:43:08	Dark Brown	Silt	Damp	Flat	40	C	No Tree Cover	Reindeer Moss	Good					50	51
1367114	HRN	SOIL	9	509563	6871834	-128.8175473	61.97881892	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:50:14	Grey	Silt	Damp	Subtle Slope	50	C	No Tree Cover	Grass Cover	Good					52	53
1367115	HRN	SOIL	9	509602	6871866	-128.8168015	61.97910519	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:59:25	Dark Brown	Silt	Damp	Subtle Slope	40	B	Alders	Thin Moss Cover	Poor					54	55
1367116	HRN	SOIL	9	509643	6871894	-128.8160178	61.97935549	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:12:55	Dark Brown	Silt	Damp	Subtle Slope	40	B	No Tree Cover	Reindeer Moss	Poor					56	57
1367117	HRN	REP	9	509683	6871925	-128.8152529	61.97963274	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:25:35	Chocolate Brown	Silt	Damp	Subtle Slope	50	C	Subalpine Fir	Thin Moss Cover	Good					58	59
1367117	HRN	SOIL	9	509683	6871925	-128.8152529	61.97963274	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:25:35	Chocolate Brown	Silt	Damp	Subtle Slope	50	C	Subalpine Fir	Thin Moss Cover	Good					58	59
1367118	HRN	SOIL	9	509721	6871959	-128.8145261	61.97993697	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:35:13	Dark Brown	Silt	Damp	Subtle Slope	70	C	Subalpine Fir	Thin Moss Cover	Good					60	61
1367119	HRN	SOIL	9	509758	6871984	-128.8138187	61.98016044	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:45:09	Dark Grey Black	Silt	Damp	Subtle Slope	90	C	Black Spruce	Sphagnum Moss < 30cm	Good					62	63
1274989	HRN	SOIL	9	506457	6871676	-128.8768123	61.97746627	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	9:58:42	Chocolate Brown	Sand	Damp	Steep	30	C	No Tree Cover	Rock Cover	Good	Fine	Outcrop Nearby			1	2
1274990	HRN	SOIL	9	506459	6871626	-128.8767759	61.97701741	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:11:06	Chocolate Brown	Sand	Damp	Steep	20	C	No Tree Cover	Rock Cover	Excellent	Quartz Chips	Outcrop Nearby	outcrop with 2 foot quartz vein beside sample site		3	4
1274991	HRN	SOIL	9	506484	6871583	-128.8763006	61.97663099	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:28:19	Grey	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Talus	Rocky Sample			6	7
1274992	HRN	SOIL	9	506486	6871533	-128.8762642	61.97618213	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:41:19	Grey	Gravel	Wet	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Good	Talus	Fine			8	9
1274993	HRN	SOIL	9	506481	6871484	-128.8763614	61.97574236	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	10:55:59	Grey	Sand	Wet	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good	Talus	Rocky Sample			10	11
1274994	HRN	SOIL	9	506514	6871445	-128.8757333	61.97539171	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:10:55	Chocolate Brown	Sand	Wet	Steep	10	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			12	13
1274995	HRN	SOIL	9	506545	6871403	-128.8751434	61.97501415	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:26:29	Chocolate Brown	Sand	Damp	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Good	Top Layer	Talus			14	15
1274996	HRN	SOIL	9	506573	6871362	-128.8746108	61.97464563	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:39:51	Chocolate Brown	Sand	Damp	Steep	30	C	No Tree Cover	Rock Cover	Good	Quartz Chips	Coarse			16	17
1274997	HRN	REP	9	506621	6871353	-128.8736955	61.974564	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:52:54	Grey	Gravel	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Talus	Top Layer			18	19
1274997	HRN	SOIL	9	506621	6871353	-128.8736955	61.974564	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	11:52:54	Grey	Gravel	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Talus	Top Layer			18	19
1274998	HRN	SOIL	9	506670	6871348	-128.8727609	61.97451826	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:05:42	Grey	Sand	Damp	Steep	20	C	No Tree Cover	Rock Cover	Good	Talus	Top Layer			20	21
1274975	HRN	SOIL	9	506721	6871348	-128.871788	61.97451736	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:18:59	Chocolate Brown	Sand	Damp	Steep	20	C	No Tree Cover	Bare Soil	Good	Top Layer	Coarse			22	23
1274974	HRN	SOIL	9	506721	6871348	-128.871788	61.97451736	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	12:20:31	Chocolate Brown	Sand	Damp	Steep	20	C	No Tree Cover	Bare Soil	Good	Top Layer	Coarse		1274975	24	25
1274999	HRN	SOIL	9	506765	6871325	-128.8709495	61.97431012	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:02:41	Grey	Sand	Wet	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Good	Talus	Rocky Sample			26	27
1275000	HRN	SOIL	9	506814	6871340	-128.8700142	61.97444389	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:14:31	Grey	Sand	Damp	Steep	20	C	No Tree Cover	Rock Cover	Good	Coarse	Talus			28	29
1367202	HRN	SOIL	9	506861	6871324	-128.8691183	61.97429942	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:24:40	Grey	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Talus	Rocky Sample			30	31
1367203	HRN	SOIL	9	506908	6871306	-128.8682224	61.97413698	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:36:03	Chocolate Brown	Gravel	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Talus	Rocky Sample			32	33
1367204	HRN	SOIL	9	506952	6871282	-128.867384	61.97392074	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	13:49:23	Grey	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Top Layer			34	35
1367205	HRN	SOIL	9	506998	6871264	-128.8665072	61.97375832	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:04:33	Chocolate Brown	Sand	Damp	Pronounced Slope	5	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample	talus		36	37
1367206	HRN	REP	9	507047	6871254	-128.8655729	61.97366764	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:22:16	Chocolate Brown	Gravel	Damp	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Good	Rocky Sample	Top Layer			38	39
1367206	HRN	SOIL	9	507047	6871254	-128.8655729	61.97366764	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:22:16	Chocolate Brown	Gravel	Damp	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Good	Rocky Sample	Top Layer			38	39
1367207	HRN	SOIL	9	507096	6871247	-128.8646385	61.97360389	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:31:06	Chocolate Brown	Sand	Damp	Pronounced Slope	20	C	No Tree Cover	Rock Cover	Good	Top Layer	Quartz Chips			40	41
1367208	HRN	SOIL	9	507146	6871251	-128.8636845	61.97363886	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:41:51	Grey	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			42	43
1367209	HRN	SOIL	9	507180	6871285	-128.8630346	61.97394342	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	14:57:28	Chocolate Brown	Sand	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Top Layer	Quartz Chips			44	45
1367210	HRN	SOIL	9	507227	6871276	-128.8621384	61.97386174	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:15:43	Chocolate Brown	Silt	Damp	Steep	50	C	No Tree Cover	Rock Cover	Good	Coarse	Outcrop Nearby			46	47
1367211	HRN	SOIL	9	507272	6871256	-128.8612808	61.97368135	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:30:12	Grey	Gravel	Damp	Pronounced Slope	50	C	No Tree Cover	Rock Cover	Good	Top Layer	Rocky Sample			48	49
1367212	HRN	SOIL	9	507320	6871263	-128.8603648	61.97374326	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:52:21	Chocolate Brown	Sand	Damp	Steep	40	C	No Tree Cover	Rock Cover	Good	Quartz Chips	Rocky Sample			50	51
1367212	HRN	REP	9	507320	6871263	-128.8603648	61.97374326	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	15:52:21	Chocolate Brown	Sand	Damp	Steep	40	C	No Tree Cover	Rock Cover	Good	Quartz Chips	Rocky Sample			50	51
1367213	HRN	SOIL	9	507367	6871278	-128.8594677	61.973877	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	16:07:57	Chocolate Brown	Silt	Damp	Steep	30	C	No Tree Cover	Rock Cover	Good	Coarse	Quartz Chips			52	53
1367214	HRN	SOIL	9	507415	6871263	-128.8585526	61.97374141	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	16:27:56	Chocolate Brown	Sand	Damp	Pronounced Slope	60	C	No Tree Cover	Rock Cover	Excellent	Coarse	Outcrop Nearby			54	55
1367215	HRN	SOIL	9	507467	6871240	-128.8575617	61.97353393	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	16:47:59	Chocolate Brown	Sand	Damp	Steep	10	C	No Tree Cover	Rock Cover	Excellent	Coarse		sample site spacing off due to large snow patch		56	57
1367216	HRN	SOIL	9	507517	6871235	-128.8566081	61.97348806	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	17:04:26	Chocolate Brown	Silt	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Top Layer			58	59
1367217	HRN	SOIL	9	507562	6871258	-128.8557487	61.97369362	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	17:16:19	Grey	Silt	Damp	Pronounced Slope	30	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample	top layer		60	61
1367218	HRN	SOIL	9	507605	6871279	-128.8549276	61.97388127	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	17:29:01	Chocolate Brown	Sand	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good	Coarse	Rocky Sample			62	63
1367219	HRN	SOIL	9	507652	6871296	-128.8540303	61.97403293	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	17:39:50	Grey	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good	Rocky Sample	Top Layer			64	65
1367220	HRN	REP	9	507701	6871295	-128.8530956	61.97402296	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	17:59:49	Grey	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good	Coarse	Top Layer			66	67
1367220	HRN	SOIL	9	507701	6871295	-128.8530956	61.97402296	RYAN GOLD CORP.	11/09/2012	31/08/2012	1DX15	WHI12000797	23/08/2012	17:59:49	Grey	Silt	Damp	Pronounced Slope	40	C	No Tree Cover	Rock Cover	Good	Coarse	Top Layer			66	67

SAMPLEID	SAMPLETYPE	Samp_Date	POINTPROSPECT	PROJECTCODE	Best_Pt_Coord_Name	Best_Pt_East	Best_Pt_Elev	Best_Pt_North	GPS_Z09N_X	GPS_Z09N_Y	GPS_Z09N_Z	GC_Alt1_Int	GC_Alt1_Style	GC_Alt1_Type	GC_Alt2_Int	GC_Alt2_Style	GC_Alt2_Type	GC_Alt_Min1	GC_Alt_Min1_pct	GC_Alt_Min2	GC_Alt_Min2_pct	GC_Alt_Min3	GC_Alt_Min3_pct	GC_Colour	GC_Min1_pct	GC_Min1_Type	GC_Min2_pct	GC_Min2_Type	GC_Min3_pct	GC_Min3_Type	GC_Min_Assem1	GC_Min_Assem1_Int	GC_Min_Assem1_Style	GC_Min_Assem2	GC_Min_Assem2_Int	GC_Min_Assem2_Style	GC_Oxidation	GC_RockType	GC_Str1_Azm	GC_Str1_Decl	GC_Str1_Dip	GC_Str1_DipDirection	GC_Str2_Azm	GC_Str2_Decl	GC_Str2_Dip	GC_Str2_DipDirection	GC_Struct1	GC_Struct2	GC_Type_Mod1	GC_Type_Mod2
45001	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.283625	2093.6	61.925217	537613.1689	6860056.77		3_Moderate	Pervasive	Silicification										Light Grey														Oxidized	Sandstone											GrainedMed	Boxwork
45002	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.291228	2074.5	61.925585	537213.5384	6860093.383		4_Strong	Pervasive	Silicification										Grey														Oxidized	Sandstone											Stockwork	GrainedMed
45003	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.296643	2040.3	61.926928	536927.6154	6866239.895		1_Trace	Patchy	Chloritic																						PartlyOxidized	VeinQuartz												
45004	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.292817	1929.6	61.928395	537126.7024	6866405.493		1_Trace	Patchy	Chloritic										White												NotOxidized	_Newltem											Quartz	
45005	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.292708	1930.8	61.928878	537131.8386	6866459.36																										NotOxidized	_Newltem											Quartz	Massive
45006	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.292775	1915.8	61.929657	537127.3761	6866546.098														White												NotOxidized	_Newltem											Quartz	
45007	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.266363	2218.8	61.94253	538497.6891	6867995.468		3_Moderate	Pervasive	Silicification										Grey												WeaklyOxidized	Mylonite			190						Lineament			
45008	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.267995	2229.7	61.942853	538411.6466	6868030.482														White												WeaklyOxidized	VeinQuartz	270		190	90					Vein>1cm			
45321	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.27351	2198.1	61.923607	538146.2464	6865883.325														White												PartlyOxidized	Vein									Vein>1cm		Quartz	
45322	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.273758	2209.2	61.922957	538134.0347	6865810.773		1_Trace	Pervasive	Silicification										Grey												ModeratelyOxidized	Mudstone											Bowork	GrainedVeryFine
45323	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.27366	2207.5	61.923043	538139.0733	6865820.41		3_Moderate	Veinlet<1cm	Silicification										Light Grey							PY	2_Weak	VeinSelvage				Mudstone	133			10					Bedding		Siliceous	Bowork
45324	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.273753	2207.1	61.92296	538134.2935	6865811.11														White												ModeratelyOxidized	VeinQuartz	123	45	23						Bedding			
45326	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.273687	2213.7	61.92252	538138.3072	6865762.135														Greenlight							PY	2_Weak	DissemVeins				WeaklyOxidized	Vein											Quartz	Bowork
45327	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.273927	2222.3	61.922077	538126.2571	6865712.646														White												PartlyOxidized	VeinQuartz												
45328	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.273797	2210.8	61.922118	538133.0322	6865717.29														White		1	Pyrite				PY	3_Moderate	DissemVeins				PartlyOxidized	Vein	160		43						Vein>1cm		Quartz	Bowork
45330	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.274333	2178.7	61.921442	538105.7291	6865641.672		2_Weak	Pervasive	Silicification										Grey												PartlyOxidized	Mudstone			45	60					Bedding		Fissile	GrainedVeryFine
45331	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.27493	2161.3	61.921158	538074.734	6865609.686		3_Moderate	Pervasive	Silicification										White												ModeratelyOxidized	VeinQuartz	140		45	70					Bedding			
45332	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.27639	2123.6	61.920242	537999.2061	6865506.793														White												ModeratelyOxidized	VeinQuartz									Vein>1cm		Quartz	
45333	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.27756	2106.4	61.919572	537938.5976	6865431.474														White												ModeratelyOxidized	VeinQuartz	130	45	90						Vein>1cm			
45334	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.279085	2099.5	61.918955	537859.2783	6865361.854														Grey												PartlyOxidized	Phyllite	22		82						Joint		Siliceous	Bowork
45335	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.280617	2090	61.918282	537779.6573	6865285.993		3_Moderate	Pervasive	Silicification										Grey		4	Pyrite									ModeratelyOxidized	Mudstone	312	45	76						Bedding		Bedded	GrainedVeryFine
45336	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.282268	2044.2	61.917607	537693.7857	6865209.842														Grey							PY	1_Trace	Disseminated				Phyllite	150	312	88						Bedding		Siliceous	
45338	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.282545	2040.1	61.91759	537679.2596	6865207.788														White												ModeratelyOxidized	VeinQuartz	290	45	80						Vein>1cm			
45339	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.285935	1931.2	61.917442	537501.4102	6865189.339		4_Strong	Pervasive	Silicification										Dark Grey Black												StrongOxidized	Mudstone											Laminated	GrainedVeryFine
45340	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.287127	1898.6	61.91704	537439.3019	6865143.87		3_Moderate	Pervasive	Silicification										Grey												ModeratelyOxidized	Mudstone											GrainedVeryFine	Siliceous
45341	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.288227	1879.5	61.917188	537381.3521	6865159.723														White							PY	4_Strong	VeinSelvage				StrongOxidized	Vein	308		72						Bedding		Bowork	Quartz
45342	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.28907	1862.9	61.917077	537337.2155	6865146.873														White							PY	3_Moderate	DissemVeins				StrongOxidized	Vein											Quartz	Bowork
45343	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.28921	1854.8	61.917215	537329.6948	6865162.165														White												StrongOxidized	VeinQuartz												
45344	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.291967	1778.6	61.916945	537185.2331	6865130.507		3_Moderate	Veinl>1cm	Chloritic										White		2	Pyrite				PY	4_Strong	DissemVeins				StrongOxidized	Vein	298		33						Bedding		Quartz	Bowork
45346	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.262907	2042.7	61.922018	538704.9768	6865712.593		1_Trace	VeinSelvage	Argillic										White		1	Pyrite				MC-ML	2_Weak	VeinSelvage				Vein									Vein>1cm		Quartz	Bowork
45347	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.26362	2024.1	61.921763	538667.8602	6865683.763														Grey		0.5	Pyrite									PartlyOxidized	Siltstone	315		24						Bedding		Fissile	
45348	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.26399	2016.4	61.92205	538648.0695	6865715.513														Grey												ModeratelyOxidized	VeinQuartz											Semimassive	
45350	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.264947	1996.7	61.921903	538508.0041	6865698.568		2_Weak	Pervasive	Chloritic										Grey												PartlyOxidized	Siltstone	316		90						Bedding		Massive	
45361	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.266323	1990.7	61.922195	538525.1843	6865730.279		2_Weak	Patchy	Chloritic										White		3	Arsenopyrite									ModeratelyOxidized	VeinQuartz											Bowork	
45362	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.270155	1940.5	61.919702	538327.2933	6865450.304														Grey		1	Arsenopyrite		2 Pyrite		PY-ASP	3_Moderate	VeinSelvage				Phyllite	117		60						Foliation		Siliceous	Banded
45363	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.27355	1975	61.919355	538149.445	6865409.651														White		1	Pyrite				PY	2_Weak	Disseminated				WeaklyOxidized	Porphyry	107		62						Fracture		Felsic	Quartz
45364	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.270437	1955.2	61.919692	538312.4972	6865449.024														White		1	Pyrite		0.5 Arsenopyrite								ModeratelyOxidized	VeinQuartz												
45365	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.272287	1932	61.918845	538216.406	6865353.582														Grey		7	Pyrite		2 Arsenopyrite								StrongOxidized	Phyllite											Siliceous	Quartz
45367	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.274168	1979.3	61.91892	538117.5334	6865360.831														Grey												PartlyOxidized	Phyllite											Veined	Fissile
45368	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.273898	1966.5	61.918945	538131.6811	6865363.775														White		1	Arsenopyrite		2 Pyrite								StrongOxidized	Granite									Dyke		GrainedFine	
45369	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.274697	1851.4	61.916923	538092.2381	6865138.066														Yellow		0.5	Pyrite										VeinQuartz										Bowork	
45371	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.276062	1863.5	61.916578	538020.9802	6865098.835		3_Moderate	VeinSelvage	Silicification										Light Grey												WeaklyOxidized	Phyllite											Veined	Quartz
45401	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.26541	2237	61.925448	538569.225	6866093.187		2_Weak	Pervasive	Silicification	1_Trace	Patchy	Chloritic							Grey												WeaklyOxidized	Siltstone	120		50						Bedding		Veined	Siliceous
45402	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.26636	2208.4	61.925098	538519.7879	6866053.635		2_Weak	Patchy	Chloritic										Brown												ModeratelyOxidized	Siltstone	80		70						Vein>1cm		Veined	Quartz
45403	rock	19-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.270345	2154.7	61.923687	538312.3278	6865894.1		1_Trace	Patchy	Sericitic										White												Oxidized	VeinQuartz											GrainedCoarse	
45404	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.270713	2154.2	61.923637	538293.0682	6865888.313														White												WeaklyOxidized	Granodiorite	158								Dyke		Felsic	GrainedMed
45406	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.272438	2173.1	61.923652	538202.4767	6865888.968		1_Trace	Patchy	Chloritic										White												Oxidized	VeinQuartz	160		32						Vein>1cm			
45407	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.272557	2168.1	61.92266	538196.2185	6865889.789		2_Weak	Patchy	Chloritic										Grey												WeaklyOxidized	Siltstone											GrainedVeryFine	
45408	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.27388	2173.3	61.923993	538126.3384	6865926.106		2_Weak	Patchy	Silicification										Grey		8	Pyrite		2 Arsenopyrite								WeaklyOxidized	Sandstone											Equigranular	Veined
45409	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.273838	2173.3	61.923987	538128.5511	6865925.462														White		2	Arsenopyrite				PY-ASP	2_Weak	Disseminated				NotOxidized	VeinQuartz												
45411	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.285072	2072.1	61.926392	537535.7555	6866186.822		2_Weak	Pervasive	Sericitic	4_Strong	Pervasive	Silicification							Greylight		4	Pyrite									PartlyOxidized	MicroGranite	202								Dyke		Siliceous	
45412	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.286117	2061	61.926978	537480.1739	6866251.496														White												WeaklyOxidized	VeinQuartz											Massive	
45413	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.28613	2062.3	61.926977	537479.4926	6866251.377		2_Weak	Pervasive	Sericitic	1_Trace	Patchy	Chloritic							Grey												WeaklyOxidized	MicroGranite											Intrusive	GrainedFine
45414	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.286115	2060.5	61.92698	537480.2764	6866251.72		3_Moderate	Pervasive	Silicification										Grey												WeaklyOxidized	Sandstone											GrainedMed	
45415	rock	20-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.29026	1738.9	61.932853	537255.5114	6866903.557														Grey		2	Pyrite									PartlyOxidized	Siltstone											Fissile	Semimassive
45416	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.269	1879	61.930638	538374.2312	6866669.199		3_Moderate	Pervasive	Silicification										Grey												WeaklyOxidized	Siltstone											Fissile	
45417	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.274512	1674.8	61.933757	538081.0023	6867013.395		3_Moderate	Pervasive	Silicification										Brown												ModeratelyOxidized	Siltstone											Siliceous	Banded
45418	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.279898	1611.1	61.935327	537796.3588	6867185.138		3_Moderate	Pervasive	Silicification										Grey												Oxidized	Siltstone	298		50						Bedding		Fissile	Veined
45419	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.299497	1897.5	61.932498	536771.085	6866858.747		3_Moderate	Pervasive	Silicification										Grey												Oxidized	Sandstone											GrainedMed	
45420	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.299382	1787.2	61.936027	536772.8795	6867251.926		3_Moderate	Pervasive	Silicification										Grey												WeaklyOxidized	Siltstone											Fissile	Siliceous
45422	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.306687	1502.3	61.939083	536385.842	6867588.235		3_Moderate	Pervasive	Silicification										Grey												Oxidized	Siltstone	32		84						Vein>1cm		Fissile	Siliceous
45423	rock	21-Aug-12	CanEast	CT	GPS_WGS84_LL	-128.306967	1479.5	61.939795	536370.301	6867667.391		3_Moderate	Pervasive	Silicification										Grey												Oxidized	Siltstone	130		88						Bedding		Fissile	Siliceous
42151	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.91852	1945.8	61.332025	557879.3666	6800250.024														White												PartlyOxidized	VeinQuartz	138								Lineament		Massive	
42152	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.917945	1955.6	61.332447	557909.3589	6800297.536		3_Moderate	Pervasive	Silicification										GreyDark												WeaklyOxidized	Sandstone											Biotite	Siliceous
42153	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.918068	1950.7	61.332412	557902.8412	6800293.528														Grey		1	Pyrite									WeaklyOxidized	Lamprophyre											GrainedFine	
42154	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.915392	1947	61.332058	557832.6405	6800252.927		4_Strong	Pervasive	Silicification										Grey												StrongOxidized	Sandstone	53		55						Bedding		Bedded	GrainedCoarse
42155	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.920273	1913.7	61.331178	557786.746	6800176.409		3_Moderate	VeinSelvage	Silicification										GreyLight												WeaklyOxidized	Sandstone	73		45						Bedding		Veined	Biotite
42157	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.92177	1898.3	61.329735	557709.654	6799992.088														White												WeaklyOxidized	Sandstone											Veined	Quartz
45009	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.917293	1977.8	61.331553	557945.9015	6800198.541												Biotite	3												ModeratelyOxidized	Sandstone	132	190	87						Bedding		Bedded	GrainedFine
45010	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.918372	2005.7	61.331335	557888.56	6800173.303		4_Strong	Pervasive	Silicification	2_Weak	Pervasive	Chloritic	Biotite	3					Grey							PY	1_Trace	Patchy				Oxidized	Sandstone											Bedded	GrainedFine
45012	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.917035	1970.7	61.331267	557960.237	6800166.915		3_Moderate	Pervasive	Silicification										Grey												PartlyOxidized	Sandstone	320	190	70						Bedding		Bedded	GrainedFine
45013	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.917013	1986.9	61.331323	557961.3109	6800173.172		4_Strong	Pervasive	Silicification										White												ModeratelyOxidized	Quartzite	330		78						Dyke		GrainedMed	Siliceous
45014	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.916438	2000.1	61.331515	557991.728	6800195.068		4_Strong	Pervasive	Silicification										Bluish Grey												Oxidized	Sandstone	302		60						Bedding		GrainedCoarse	Siliceous
45015	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.915293	2022.1	61.331882	558052.3248	6800236.961		4_Strong	Pervasive	Silicification										Bluish Grey												Oxidized	Sandstone			90						VeinStockwork		Siliceous	Stockwork
45017	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.914498	2033.6	61.332037	558094.5826	6800254.932														White												WeaklyOxidized	VeinQuartz												
45018	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.91372	2057.4	61.332383	558135.5763	6800294.162		3_Moderate	Pervasive	Silicification										Grey												ModeratelyOxidized	Sandstone											GrainedFine	Siliceous
45019	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.913708	2049	61.332405	558136.1777	6800296.623		4_Strong	Pervasive	Silicification										Bluish Grey												PartlyOxidized	Sandstone											Siliceous	GrainedMed
45021	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.914577	2044.6	61.33274	558089.0532	6800333.161		4_Strong	Pervasive	Silicification										Grey												WeaklyOxidized	Sandstone	90	190	82						Joint		GrainedFine	Siliceous
45023	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.914848	2041.3	61.332795	558074.4491	6800339.046		4_Strong	Pervasive	Silicification										White												WeaklyOxidized	VeinQuartz												
45424	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.919505	1951.9	61.330717	557829.0649	6800103.467		1_Trace	VeinSelvage	Chloritic										White							PY-ASP	2_Weak	DissemVeins														Vein	96		82						Joint		Quartz	
45425	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.919508	1949.2	61.330562	557829.19	6800086.2														White		1	Pyrite				PY-ASP	2_Weak	Disseminated				StrongOxidized	Sandstone	80		70						Joint		Carbonaceous	
45426	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.91952	1924	61.330058	557829.4768	6800030.055														Light Brown		1	Arsenopyrite		2 Pyrite								StrongOxidized	Sandstone	280		50						Bedding		Carbonaceous	
45427	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.920163	1905.1	61.329537	557796.024	6799971.457														White		1	Arsenopyrite		2 Pyrite		PY-ASP	3_Moderate	DissemVeins				StrongOxidized	Vein	310		70						Bedding		Quartz	Biotite
45428	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.922247	1897.7	61.329105	557685.2835	6799921.498														Light Grey		1	Pyrite									StrongOxidized	Sandstone	326		68						Bedding		Siliceous	Bowork
45429	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.925383	1853.3	61.327652	557520.1074	6799756.897														Grey		0.5	Pyrite											130		58						Bedding		Carbonaceous	Siliceous
45431	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.926077	1848.7	61.327247	557483.7045	6799711.178														Grey		0.5	Pyrite									StrongOxidized	Sandstone											Siliceous	
45432	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.928063	1802	61.32569	557380.2538	6799536.013														White		0.5	Pyrite									PartlyOxidized	Vein	321		86						Joint		Quartz	
45434	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.928677	1801.2	61.325303	557348.0959	6799492.37														White												PartlyOxidized	Vein	310		38						Joint		Quartz	
45434	rock	22-Aug-12	Elf	CT	GPS_WGS84_LL	-127.928682	1628.5	61.320808	557356.0422	6798991.715														Grey		0.5	Arsenopyrite		0.5 Pyrite		PY-ASP	3_Moderate	Disseminated				PartlyOxidized	Sandstone	238		84						Joint		Fissile	

SAMPLEID	SAMPLETYPE	Samp_Date	POINTPROSPECT	PROJECTCODE	Best_Pt_Coord_Name	Best_Pt_East	Best_Pt_Elev	Best_Pt_North	GPS_Z09N_X	GPS_Z09N_Y	GPS_Z09N_Z	GC_Alt1_Int	GC_Alt1_Style	GC_Alt1_Type	GC_Alt2_Int	GC_Alt2_Style	GC_Alt2_Type	GC_Alt_Min1	GC_Alt_Min1_pct	GC_Alt_Min2	GC_Alt_Min2_pct	GC_Alt_Min3	GC_Alt_Min3_pct	GC_Colour	GC_Min1_pct	GC_Min1_Type	GC_Min2_pct	GC_Min2_Type	GC_Min3_pct	GC_Min3_Type	GC_Min_Assem1	GC_Min_Assem1_Int	GC_Min_Assem1_Style	GC_Min_Assem2	GC_Min_Assem2_Int	GC_Min_Assem2_Style	GC_Oxidation	GC_RockType	GC_Str1_Azm	GC_Str1_Decl	GC_Str1_Dip	GC_Str1_DipDirection	GC_Str2_Azm	GC_Str2_Decl	GC_Str2_Dip	GC_Str2_DipDirection	GC_Struct1	GC_Struct2	GC_Type_Mod1	GC_Type_Mod2
42158	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.86708	1944.6	61.980033	506966.5403	6871962.942		1_Trace	Patchy	Chloritic										Grey												NotOxidized	QuartzMonzonite	295								Dyke		GrainedMed	Veined
42159	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.867487	1949.9	61.97978	506945.2663	6871934.714														Grey		1	Pyrite				PY	2_Weak	Disseminated				QuartzMonzonite	117		57						Dyke		Dyke	GrainedMed
42160	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.867552	1943	61.979778	506941.86	6871934.484														White												WeaklyOxidized	VeinQuartz	359		78						VeinStockwork		Stockwork	
42161	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.867128	1949.9	61.980002	506964.0316	6871959.483														White												W

SAMPLEID	SAMPLETYPE	Samp_Date	POINTPROSPECT	PROJECTCODE	Best_Pt_Coord_Name	Best_Pt_East	Best_Pt_Elev	Best_Pt_North	GPS_Z09N_X	GPS_Z09N_Y	GPS_Z09N_Z	GC_Alt1_Int	GC_Alt1_Style	GC_Alt1_Type	GC_Alt2_Int	GC_Alt2_Style	GC_Alt2_Type	GC_Alt_Min1	GC_Alt_Min1_pct	GC_Alt_Min2	GC_Alt_Min2_pct	GC_Alt_Min3	GC_Alt_Min3_pct	GC_Colour	GC_Min1_pct	GC_Min1_Type	GC_Min2_pct	GC_Min2_Type	GC_Min3_pct	GC_Min3_Type	GC_Min_Assem1	GC_Min_Assem1_Int	GC_Min_Assem1_Style	GC_Min_Assem2	GC_Min_Assem2_Int	GC_Min_Assem2_Style	GC_Oxidation	GC_RockType	GC_Str1_Azm	GC_Str1_Decl	GC_Str1_Dip	GC_Str1_DipDirection	GC_Str2_Azm	GC_Str2_Decl	GC_Str2_Dip	GC_Str2_DipDirection	GC_Struct1	GC_Struct2	GC_Type_Mod1	GC_Type_Mod2
45392	rock	27-Aug-12	Horn	CT	GPS_WGS84_LL	-128.835487	1471.9	61.992533	508618.8457	6873359.242		2_Weak	Patchy	Chloritic										White	3	Pyrite						1	Chalcopyrite						Vein	308	120	82						Vein>1cm		Quartz	Brecciated
45393	rock	27-Aug-12	Horn	CT	GPS_WGS84_LL	-128.83136	1419.4	61.994305	508834.5462	6873557.199		2_Weak	VeinSelvage	Chloritic										White														Vein	106	120	18						Axialflane		Quartz	Brecciated
45436	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.884285	2286.5	61.979648	506064.877	6871918.325														White														VeinQuartz											Siliceous	
45437	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.884187	2276.5	61.979423	506070.0581	6871893.27		4_Strong	Pervasive	Silicification	2_Weak	Pervasive	Chloritic							GreyLight														NotOxidized	Monzogranite											Massive	Equigranular
45438	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.880188	2126.1	61.97556	506280.4503	6871463.31														Grey	0.5	Pyrite												WeaklyOxidized	VeinQuartz	270		30						Schistosity			
45439	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.879185	2110.5	61.974377	506333.272	6871331.621		3_Moderate	Pervasive	Chloritic										Grey														PartlyOxidized	Monzogranite											Massive	Equigranular
45441	rock	23-Aug-12	Horn	CT	GPS_WGS84_LL	-128.870808	2093.8	61.972502	506772.8202	6871123.591		2_Weak	Pervasive	Chloritic										White	5	Arsenopyrite	4	Pyrite										PartlyOxidized	Monzogranite											Veined	Quartz
45442	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.869157	2083.6	61.97229	506859.4205	6871100.147		3_Moderate	Pervasive	Chloritic	3_Moderate	Pervasive	Silicification							Greyish Green	5	Arsenopyrite	3	Pyrite										WeaklyOxidized	Monzogranite											Intrusive	Siliceous
45443	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.868535	2077.9	61.972198	506892.0494	6871089.964		3_Moderate	Pervasive	Sericitic	2_Weak	Patchy	Chloritic							Grey														PartlyOxidized	Monzogranite											Intrusive	Quartz
45444	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.868225	2072.4	61.972168	506908.3079	6871086.655		1_Trace	Pervasive	Sericitic	2_Weak	Patchy	Chloritic							Grey	10	Arsenopyrite	5	Pyrite										ModeratelyOxidized	VeinQuartz											Intrusive	
45446	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.868212	2072.7	61.972162	506908.9908	6871085.988		2_Weak	Pervasive	Sericitic										Grey	1	Arsenopyrite												PartlyOxidized	Monzogranite											Intrusive	Quartz
45447	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.86767	2072.5	61.97217	506937.4034	6871086.937		1_Trace	Fracture	Chloritic	2_Weak	Pervasive	Sericitic							Grey	1.5	Pyrite												WeaklyOxidized	MicroGranite											Quartz	Equigranular
45448	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.866822	2065.8	61.972113	506981.8728	6871080.678		2_Weak	Patchy	Sericitic	1_Trace	Fracture	Chloritic							Grey	2	Pyrite	5	Arsenopyrite										WeaklyOxidized	VeinQuartz	330		66						Joint			
45449	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.866242	2056.5	61.972097	507012.283	6871078.958		2_Weak	Fracture	Chloritic										Grey	5	Arsenopyrite	0											PartlyOxidized	VeinQuartz												
45451	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.873492	2255.6	61.983207	506629.7886	6872315.856														White														Vein	84		30						Vein>1cm		Stockwork	
45452	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.873338	2251.8	61.98324	506637.852	6872319.548														White							PY	3_Moderate	VeinSelvage						Vein	90		90						Joint		Stockwork	Quartz
45453	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.873453	2241.6	61.983242	506631.8248	6872319.759														GreenLight	2	Pyrite					PY	3_Moderate	Disseminated						Phyllite											Stockwork	Siliceous
45454	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.873372	2249.1	61.983248	506636.0684	6872320.435		2_Weak	Patchy	Sericitic										Grey	1	Pyrite					PY	1_Trace	Patchy				WeaklyOxidized	QuartzMonzonite											Porphyritic	GrainedFine
45455	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.873427	2245.7	61.983183	506633.2002	6872313.189		1_Trace	Patchy	Sericitic																	PY	3_Moderate	Patchy				Oxidized	QuartzMonzonite											Porphyritic	GrainedFine	Porphyritic
45457	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.873952	2227	61.98319	506605.6855	6872313.915														Grey	1	Pyrite												PartlyOxidized	Slate	320		90						Foliation		Fissile	
45458	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.874758	2219.9	61.983187	506563.4469	6872313.499														Greyish Green	5	Pyrite					PY	3_Moderate	Patchy				PartlyOxidized	Limestone											Foliated	Fissile
45459	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.875668	2247.9	61.983125	506515.7706	6872306.5														Grey	0.5	Pyrite												WeaklyOxidized	Monzogranite											Quartz	
45460	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.87555	2244.2	61.983105	506521.9588	6872304.284														White														WeaklyOxidized	VeinQuartz												
45461	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.876987	2179.6	61.982	506446.8843	6872181.043														White	1	Pyrite					PY	2_Weak	VeinSelvage				PartlyOxidized	Vein											Boxwork	Quartz
45462	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.877413	2176.3	61.981913	506424.5768	6872171.309														Grey	1	Pyrite												PartlyOxidized	Monzogranite	3		90						Joint		Stockwork	
45463	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.882715	685.9	61.99373	506144.3291	6873487.217														Grey														WeaklyOxidized	QuartzMonzonite											Porphyritic	GrainedFine
45464	rock	24-Aug-12	Horn	CT	GPS_WGS84_LL	-128.878573	2161.8	61.981667	506363.8345	6872143.79														White	0.5	Pyrite												PartlyOxidized	Vein	325		38						Foliation		Quartz	
45466	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.86734	2266.3	61.985303	506951.7133	6872549.995														White														Vein	329		62						Vein>1cm		Quartz	
45467	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.865082	2255.5	61.985775	507069.9287	6872602.82														White														PartlyOxidized	VeinQuartz	102	310	46						Vein>1cm		Massive	Boxwork
45468	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.863997	2214.4	61.986168	507126.6927	6872646.719														Grey	2	Pyrite												PartlyOxidized	Monzogranite											GrainedMed	
45470	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.863018	2168.1	61.986792	507177.8465	6872716.341														Grey															Vein	103		88						Joint		Quartz	
45471	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.861253	2079.7	61.98793	507270.0612	6872843.311														Grey	0.5	Pyrite													Monzogranite	93		20						Joint		Equigranular	GrainedMed
45472	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.861248	2082.2	61.987937	507270.3216	6872844.092														White													PartlyOxidized	Vein	176		73						Fault		Boxwork	Quartz
45473	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.856518	1948.6	61.987885	507518.1764	6872838.838														White	0.8	Pyrite												PartlyOxidized	VeinQuartz											Massive	
45474	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.855198	1910.9	61.987562	507587.4221	6872803.009		3_Moderate	Pervasive	Silicification										Light Grey	1	Pyrite												PartlyOxidized	Sandstone											GrainedMed	Siliceous
45475	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.852328	1839.6	61.98702	507737.9433	6872742.969														Grey	0.5	Pyrite					PY	2_Weak	Disseminated				PartlyOxidized	Sandstone	295		65						Foliation		Boxwork	Laminated
45477	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.8523	1840.7	61.987023	507739.4097	6872741.306														White	0.5	Pyrite												PartlyOxidized	Vein	127		86						Vein>1cm		Quartz	Boxwork
45478	rock	25-Aug-12	Horn	CT	GPS_WGS84_LL	-128.8361	1675.8	61.98714	508588.2479	6872758.378														Grey	1	Pyrite					PY	3_Moderate	Disseminated				StronglyOxidized	Sandstone	84		34						Foliation		Fissile	GrainedMed
45479	rock	26-Aug-12	Horn	CT	GPS_WGS84_LL	-128.896317	2113	61.978888	505434.3891	6871832.595														Grey	2	Pyrite													Sandstone	328		78						Joint		Fractured	Boxwork
45481	rock	26-Aug-12	Horn	CT	GPS_WGS84_LL	-128.898602	2089.3	61.977445	505314.8754	6871671.655		2_Weak	Pervasive	Silicification										BrownLight														ModeratelyOxidized	Sandstone	313		46						Foliation		GrainedFine	Foliated
45482	rock	26-Aug-12	Horn	CT	GPS_WGS84_LL	-128.909078	2231.3	61.999948	504762.2537	6874177.692		2_Weak	Pervasive	Silicification										Greyish Green														Oxidized	Quartzite	6		70						Joint		Boxwork	Veined
45483	rock	26-Aug-12	Horn	CT	GPS_WGS84_LL	-128.90937	2224.5	61.999952	504746.9589	6874178.116														White														WeaklyOxidized	VeinQuartz	194								Vein>1cm			
45484	rock	26-Aug-12	Horn	CT	GPS_WGS84_LL	-128.902335	2183.4	62.000248	505115.3838	6874211.626														White	1	Pyrite												PartlyOxidized	Vein											Boxwork	Quartz
45485	rock	26-Aug-12	Horn	CT	GPS_WGS84_LL	-128.902293	2180.5	62.000187	505117.5938	6874204.834														GreyDark	3	Pyrite					PY	3_Moderate	Phenocryst				StronglyOxidized	Lamprophyre	136						Dyke		GrainedFine	
45487	rock	26-Aug-12	Horn	CT	GPS_WGS84_LL	-128.900318	2158	62.000687	505220.9527	6874260.691														Grey	2	Pyrite													Phyllite	83		19						Foliation		GrainedFine	Fractured

SAMPLEID	PROJECTCODE	POINTPROSPECT	Obs_Type	GPS_ZONE_X	GPS_ZONE_Y	GridName_D	Samp_Date	Sampler	GC_Colour	GC_RockType	GC_Type_Mod1	GC_Type_Mod2	GC_Alt1_Type	GC_Alt1_Style	GC_Alt1_Int	GC_Alt2_Type	GC_Alt2_Style	GC_Alt2_Int	GC_Alt_Min1	GC_Alt_Min1_pct	GC_Alt_Min2	GC_Alt_Min2_pct	GC_Alt_Min3	GC_Alt_Min3_pct	GC_Min1_Type	GC_Min1_pct	GC_Min2_Type	GC_Min2_pct	GC_Min3_Type	GC_Min3_pct	GC_Min_Assem1	GC_Min_Assem1_Style	GC_Min_Assem1_Int	GC_Min_Assem2	GC_Min_Assem2_Style	GC_Min_Assem2_Int	GC_Oxidation	GC_Struct1	GC_Str1_Azm	GC_Str1_Decl	GC_Str1_Dip	GC_Str1_DipDirection	GC_Struct2	GC_Str2_Azm	GC_Str2_Decl	GC_Str2_Dip	GC_Str2_DipDirection	Samp_Comment	Samp_Contractor	Samp_Country	Samp_StateProvince	Photo_file	PRIORITY
	45001	CT	CanEast	SubCropGrab	537613.1689	6866056.77	WGS84	20-Aug-12	JNunn	Light Grey	Sandstone	GrainedMed	Biowork	Silicification	Pervasive	3_Moderate									Pyrite	2				PY	Disseminated	2_Weak				Oxidized											quartz veins and Veinlets present up to 5cm, buck qtz, voques and bioworck prese	Canada	Yukon			
	45002	CT	CanEast	SubCropGrab	537213.5384	6866093.383	WGS84	20-Aug-12	JNunn	Grey	Sandstone	Stockwork	GrainedMed	Silicification	Pervasive	4_Strong																			Oxidized											qtz veinlets stock-works 0.5cm some drusy qtz, veining perpendicular to bedding,	Canada	Yukon			
	45003	CT	CanEast	SubCropGrab	536927.6154	6866239.895	WGS84	20-Aug-12	JNunn	VeinQuartz				Chloritic	Patchy	1_Trace																			PartlyOxidized											drusy qtz with elongate crystals combed qtz texture in some spots, hosted in san	Canada	Yukon	RG26_2012.08.20_1441		
	45004	CT	CanEast	OutcropChip	537126.7024	6866405.493	WGS84	20-Aug-12	JNunn	White	_NewItem	Quartz		Chloritic	Patchy	1_Trace																			NotOxidized											anotectic sweats of qtz- ani a siltstone, massive qtz, sections up to 1m,	Canada	Yukon	RG26_2012.08.20_1513		
	45005	CT	CanEast	OutcropChip	537131.8386	6866459.36	WGS84	20-Aug-12	JNunn		_NewItem	Quartz	Massive																							NotOxidized											anotectic sweat field, sections or balls up to 4m wide	Canada	Yukon	RG26_2012.08.20_1519		
	45006	CT	CanEast	OutcropChip	537127.3761	6866546.098	WGS84	20-Aug-12	JNunn	White	_NewItem	Quartz																							NotOxidized											anotectic qtz- sweat field, qtz alters bedding around the qtz ball, like a porphobla	Canada	Yukon			
	45007	CT	CanEast	SubCropGrab	538497.6891	6867995.468	WGS84	21-Aug-12	Keating	Grey	MyVonite			Silicification	Pervasive	3_Moderate																			WeaklyOxidized	Lineament		190								within a 5 m wide fault zone between phyllite and a greywacke. Fault zone consi	Canada	Yukon	RG39_2012.08.21_1432		
	45008	CT	CanEast	SubCropGrab	538411.6466	6868030.482	WGS84	21-Aug-12	Keating	White	VeinQuartz																							WeaklyOxidized	Veinx1cm	270	190	90								metre wide vein	Canada	Yukon			
	45321	CT	CanEast	SubCropGrab	538146.2464	6868383.325	WGS84	20-Aug-12	GMcKenzie	White	Vein	Quartz																							PartlyOxidized	Veinx1cm										drusy qtz vein with oxidation along the fractures and abundant bowork yet very	Canada	Yukon	RG22_2012.08.20_0850		
	45322	CT	CanEast	OutcropGrab	538134.0347	6868310.773	WGS84	20-Aug-12	Keating	Grey	Mudstone	Bowork	GrainedVeryFine	Silicification	Pervasive	1_Trace																			ModeratelyOxidized											contains qtz veins and veinlets and is abundant in weathered out pyrite creating	Canada	Yukon	RG22_2012.08.20_0905		
	45323	CT	CanEast	OutcropGrab	538139.0733	6868520.41	WGS84	20-Aug-12	GMcKenzie	Light Grey	Mudstone	Siliceous	Bowork	Silicification	Pervasive	3_Moderate														PY	VeinSelvage	2_Weak															a silicified zone within the phyllitic mudstone x cut of numerous small qtz veins, i	Canada	Yukon	RG22_2012.08.20_0911		
	45324	CT	CanEast	OutcropChip	538134.2935	6868511.11	WGS84	20-Aug-12	Keating	White	VeinQuartz																							ModeratelyOxidized	Bedding	123	45	23								qtz vein is approximately a foot in diameter and runs along bedding. Surrounding	Canada	Yukon	RG39_2012.08.20_0930		
	45326	CT	CanEast	SubCropGrab	538138.3072	6867762.135	WGS84	20-Aug-12	GMcKenzie	Greenlight	Vein	Quartz	Bowork																	PY	DisseminVein	2_Weak				WeaklyOxidized											50cm vein x 4m horrnfelsed along the margin wth. Abundant bioworck, colloform	Canada	Yukon	RG22_2012.08.20_0949		
	45327	CT	CanEast	SubCropChip	538126.2571	6867712.646	WGS84	20-Aug-12	Keating	White	VeinQuartz																							PartlyOxidized											qtz vein 4 inches in diameter within siliceous phyllitic mudstone. Vein orientation	Canada	Yukon	RG39_2012.08.20_1005		
	45328	CT	CanEast	OutcropChip	538133.0322	6867717.29	WGS84	20-Aug-12	GMcKenzie	White	Vein	Quartz	Bowork												Pyrite	1				PY	DisseminVein	3_Moderate				PartlyOxidized	Veinx1cm	160		43							a two-metre wide zone of qtz veining and hornfels along the shear.vein is silicified	Canada	Yukon	RG39_2012.08.20_1011		
	45330	CT	CanEast	OutcropChip	538105.7291	6866541.672	WGS84	20-Aug-12	Keating	Grey	Mudstone	Fissile	GrainedVeryFine	Silicification	Pervasive	2_Weak																			PartlyOxidized	Bedding		45	60							qtz veining is coming in along laminations with oxidation along the rims of the ve	Canada	Yukon	RG39_2012.08.20_1047		
	45331	CT	CanEast	OutcropChip	538074.734	6865609.686	WGS84	20-Aug-12	Keating	White	VeinQuartz			Silicification	Pervasive	3_Moderate																			ModeratelyOxidized	Bedding	140	45	70							veins have come in along bedding planes and completely silicified laminated Cana	Canada	Yukon			
	45332	CT	CanEast	OutcropChip	537999.2061	6865506.793	WGS84	20-Aug-12	Keating	White	VeinQuartz																							ModeratelyOxidized	Veinx1cm										vein is roughy a foot in diameter and is subparrallel to bedding. Cross cuts a few	Canada	Yukon	RG39_2012.08.20_1140		
	45333	CT	CanEast	OutcropChip	537938.5976	6865431.474	WGS84	20-Aug-12	Keating	White	VeinQuartz																							ModeratelyOxidized	Veinx1cm	130	45	90							vein is along bedding with oxidation and is roughly 15 inches thick. Qtz vein is m	Canada	Yukon	RG39_2012.08.20_1232		
	45334	CT	CanEast	OutcropChip	537859.2783	6866361.854	WGS84	20-Aug-12	GMcKenzie	Grey	Phyllite	Siliceous	Bowork																					PartlyOxidized	Joint	22		82							oxidized siliceous phyllitic mudstone,bowork along the bedding plane with less	Canada	Yukon	RG22_2012.08.20_1249		
	45335	CT	CanEast	OutcropChip	537779.6573	6865285.993	WGS84	20-Aug-12	Keating	Grey	Mudstone	Bedded	GrainedVeryFine	Silicification	Pervasive	3_Moderate									Pyrite	4									ModeratelyOxidized	Bedding	312	45	76							sample contains quartz veins and veinlets...stockworkish but most of the veins a	Canada	Yukon	RG22_2012.08.20_1315		
	45336	CT	CanEast	OutcropChip	537693.7857	6865209.842	WGS84	20-Aug-12	GMcKenzie	Grey	Phyllite	Siliceous																	PY	Disseminated	1_Trace					Bedding	150	312	88							oxidized phyllite along the bedding plane,veinlets parallel to the bedding with di	Canada	Yukon	RG22_2012.08.20_1333		
	45338	CT	CanEast	OutcropChip	537679.2596	6865207.788	WGS84	20-Aug-12	Keating	White	VeinQuartz																							ModeratelyOxidized	Veinx1cm	290	45	80							has some subhedral to anhedral grains and is drusy in areas. Vein comes in along	Canada	Yukon	RG39_2012.08.20_1351		
	45339	CT	CanEast	OutcropChip	537501.4102	6865189.339	WGS84	20-Aug-12	Keating	Dark Grey Black	Mudstone	Laminated	GrainedVeryFine	Silicification	Pervasive	4_Strong																			StronglyOxidized											cannot get bedding due to slump. Veins and veinlets are parallel and perpendicu	Canada	Yukon			
	45340	CT	CanEast	OutcropChip	537439.3019	6865143.87	WGS84	20-Aug-12	Keating	Grey	Mudstone	GrainedVeryFine	Siliceous	Silicification	Pervasive	3_Moderate																			ModeratelyOxidized												Canada	Yukon			
	45341	CT	CanEast	OutcropGrab	537381.3521	6865159.723	WGS84	20-Aug-12	GMcKenzie	White	Vein	Bowork	Quartz																	PY	VeinSelvage	4_Strong				StronglyOxidized	Bedding	308		72							half mete vein qtz vein wth abundant bowork along the vein selvage yet only	Canada	Yukon	RG22_2012.08.20_1456		
	45342	CT	CanEast	OutcropGrab	537337.2155	6865146.873	WGS84	20-Aug-12	GMcKenzie	White	Vein	Quartz	Bowork																	PY	DisseminVein	3_Moderate				StronglyOxidized											strongly oxidized qtz vein with bioxwork along the margin,1% visible py dissem,di	Canada	Yukon	RG22_2012.08.20_1516		
	45343	CT	CanEast	OutcropChip	537329.6948	6865162.165	WGS84	20-Aug-12	Keating	White	VeinQuartz																							StronglyOxidized											slumping therefore cannot get measurement. Veins is massive with some drusy c	Canada	Yukon			
	45344	CT	CanEast	OutcropGrab	537185.2331	6865130.507	WGS84	20-Aug-12	Keating	White	Vein	Quartz	Bowork	Chloritic	Vein<1cm	3_Moderate									Pyrite	2				PY	DisseminVein	4_Strong				StronglyOxidized	Bedding	298		33							strongly oxidized qtz vein with 2% pyrite dissem,abundant bowork along the mi	Canada	Yukon	RG22_2012.08.20_1539		
	45346	CT	CanEast	OutcropChip	536704.9768	6865712.593	WGS84	21-Aug-12	GMcKenzie	White	Vein	Quartz	Bowork	Argillic	VeinSelvage	1_Trace									Pyrite	1				MC-ML	VeinSelvage	2_Weak															10cm wide qtz vein in outcrop with oxidation and weak bowork along the many	Canada	Yukon	RG22_2012.08.21_0909		
	45347	CT	CanEast	OutcropChip	538667.8602	6865683.763	WGS84	21-Aug-12	GMcKenzie	Grey	Siltstone	Fissile													Pyrite	0.5									PartlyOxidized	Bedding	315		24							oxidized phyllitic siltstone along all fracture surfaces	Canada	Yukon	RG22_2012.08.21_0939		
	45348	CT	CanEast	OutcropChip	538648.0695	6865715.513	WGS84	21-Aug-12	JMarsh	Grey	VeinQuartz	Semimassive																							ModeratelyOxidized											quartz vein running through the semimassive fissile siltstone .	Canada	Yukon			
	45350	CT	CanEast	OutcropChip	538598.0041	6865698.568	WGS84	21-Aug-12	JMarsh	Grey	Siltstone	Massive		Chloritic	Patchy	2_Weak																			PartlyOxidized	Bedding	316		90							partly oxidized fissile massive/semimassive siltstone. Drusy qartz veins wth in	Canada	Yukon			
	45361	CT	CanEast	TalusGrab	538525.1843	6865730.279	WGS84	21-Aug-12	JMarsh	Grey	VeinQuartz	Bowork		Chloritic	Patchy	2_Weak									Arsenopyrite	3									ModeratelyOxidized											float/talus vein of qtz-oxidized quartz vein set in intercalated phyllite. Voids with	Canada	Yukon			
	45362	CT	CanEast	OutcropGrab	538327.2933	6865450.304	WGS84	21-Aug-12	GMcKenzie	Grey	Phyllite	Siliceous	Banded												Arsenopyrite	1	Pyrite	2	PY-ASP	VeinSelvage	3_Moderate					Foliation	117		60							siliceous phyllitic mudstone with siliceous banding adjacent to a qtz vein with py	Canada	Yukon	RG22_2012.08.21_1131		
	45363	CT	CanEast	OutcropGrab	538149.445	6865409.651	WGS84	21-Aug-12	GMcKenzie	White	Porphyry	Felsic	Quartz												Pyrite	1				PY	Disseminated	2_Weak				WeaklyOxidized	Fracture	107		62							in orange weathered qtz porphyry dyke x cutting the phyllite,one percent di	Canada	Yukon	RG22_2012.08.21_1331		
	45364	CT	CanEast	OutcropGrab	538312.4972	6865449.024	WGS84	21-Aug-12	JMarsh	Grey	Phyllite	Siliceous													Pyrite	1	Arsenopyrite	0.5								ModerateOxidized											pyrite bowork within the selvage of the quartz vein.	Canada	Yukon			
	45365	CT	CanEast	SubCropGrab	538216.406	6865353.582	WGS84	21-Aug-12	JMarsh	Grey	Phyllite	Siliceous	Quartz												Pyrite	7	Arsenopyrite	2								StronglyOxidized											very oxidized and weathered phyllite. With quartz stringers , high silicification , b	Canada	Yukon	RG32_2012.08.21_1309		
	45367	CT	CanEast	OutcropChip	538317.5334	6865360.831	WGS84	21-Aug-12	JMarsh	Grey	Phyllite	Veined	Fissile																					PartlyOxidized											partly/moderately oxidized phyllite with minor quartz veins <6cm wide. some ca	Canada	Yukon			
	45368	CT	CanEast	OutcropChip	538131.6811	6865363.775	WGS84	21-Aug-12	JMarsh	White	Granite	GrainedFine													Arsenopyrite	1	Pyrite	2								StronglyOxidized	Dyke										a fine grained granite mineralized with py-asp and oxidized along all fracture sur	Canada	Yukon	RG22_2012.08.21_1359		
	45369	CT	CanEast	OutcropChip	538092.2381	6865138.066	WGS84	21-Aug-12	JMarsh	Yellow	VeinQuartz	Bowork													Pyrite	0.5																		

SAMPLEID	PROJECTCODE	POINTPROSPECT	Obs_Type	GPS_ZONE_X	GPS_ZONE_Y	GridName_D	Samp_Date	Sampler	GC_Colour	GC_RockType	GC_Type_Mod1	GC_Type_Mod2	GC_Alt1_Type	GC_Alt1_Style	GC_Alt1_Int	GC_Alt2_Type	GC_Alt2_Style	GC_Alt2_Int	GC_Alt_Min1	GC_Alt_Min1_pct	GC_Alt_Min2	GC_Alt_Min2_pct	GC_Alt_Min3	GC_Alt_Min3_pct	GC_Min1_Type	GC_Min1_pct	GC_Min2_Type	GC_Min2_pct	GC_Min3_Type	GC_Min3_pct	GC_Min_Assem1	GC_Min_Assem1_Style	GC_Min_Assem1_Int	GC_Min_Assem2	GC_Min_Assem2_Style	GC_Min_Assem2_Int	GC_Oxidation	GC_Struct1	GC_Str1_Azm	GC_Str1_Decl	GC_Str1_Dip	GC_Str1_DipDirection	GC_Struct2	GC_Str2_Azm	GC_Str2_Decl	GC_Str2_Dip	GC_Str2_DipDirection	Samp_Comment	Samp_Contractor	Samp_Country	Samp_StateProvince	Photo_file	PRIORITY
RG22_120822114517	CT	Elf	Outcrop	557324.6198	6799320.86	WGS84	22-Aug-12	GMcKenzie	Grey	Siltstone	Siliceous															Pyrrhotite	2											Oxidized	Joint	214	0	90						joint measurement		Canada	Yukon	RG22_2012.08.22_1451	
RG26_120822095132	CT	Elf	Outcrop	557848.7024	6800249.516	WGS84	22-Aug-12	JNunn	Bluish Grey	Greywacke	Siliceous	GrainedMed	Silicification	Pervasive	4_Strong																							WeaklyOxidized										can tell pyrrhotite due to magnitism_		Canada	Yukon		
RG26_120822113013	CT	Elf	Outcrop	558143.8465	6800327.945	WGS84	22-Aug-12	JNunn	Bluish Grey	Sandstone	Siliceous	GrainedMed	Silicification	Pervasive	4_Strong																							WeaklyOxidized																		
RG26_120823131564	CT	Elf	Outcrop	558163.3866	6800350.339	WGS84	23-Aug-12	JNunn	Bluish Grey	Sandstone	GrainedMed	Siliceous	Silicification	Pervasive	4_Strong																							WeaklyOxidized	Bedding	302	75															
RG32_120822110443	CT	Elf	Outcrop	557833.5479	6800227.206	WGS84	22-Aug-12	JMarsh	Grey	Sandstone	GrainedFine																													Bedding	310									bedding measurement _ small scale folding_ tight isoclinal folds.		Canada	Yukon		
RG32_120822105924	CT	Elf	Outcrop	557798.3992	6800181.227	WGS84	22-Aug-12	JMarsh	GreyDark	Sandstone	GrainedVeryFine	Quartz	Silicification	Pervasive	4_Strong																																				massive sandstone		Canada	Yukon		
RG32_120822110955	CT	Elf	Outcrop	557785.1037	6800178.61	WGS84	22-Aug-12	JMarsh		Sandstone																													Vein<1cm	3	40								vein quartz		Canada	Yukon		
RG32_120822114416	CT	Elf	Outcrop	557769.8062	6800051.572	WGS84	22-Aug-12	JMarsh		Sandstone																													Bedding	336		55							bedding measurement		Canada	Yukon		
RG32_120822111437	CT	Elf	Outcrop	557769.9631	6800051.798	WGS84	22-Aug-12	JMarsh		Sandstone																													Joint	219		86							joint measurement		Canada	Yukon		
RG32_120822112108	CT	Elf	Outcrop	557695.0774	6799976.807	WGS84	22-Aug-12	JMarsh		Sandstone																													Joint	24		53									Canada	Yukon		
RG32_120822112159	CT	Elf	Outcrop	557648.7077	6799954.652	WGS84	22-Aug-12	JMarsh		Siltstone																													Bedding	287		90							siltstone bedding measurement		Canada	Yukon		
RG32_120822112580	CT	Elf	Outcrop	557569.6195	6799907.001	WGS84	22-Aug-12	JMarsh		Lamprophyre	Feldspar	Veined																																						feldspars alteration . quartz veining --looks like metemorphic sweats		Canada	Yukon		
RG32_120822113051	CT	Elf	Outcrop	557545.5206	6799907.496	WGS84	22-Aug-12	JMarsh		Lamprophyre																																									Canada	Yukon		
RG32_120822113413	CT	Elf	Outcrop	557457.3711	6799782.381	WGS84	22-Aug-12	JMarsh	Dark Grey Black	Mudstone	Disseminated																											Arsenopyrite	0.5									mudstone with very few grains of arsenopyrite		Canada	Yukon		
RG32_120822113434	CT	Elf	Outcrop	557450.7137	6799780.266	WGS84	22-Aug-12	JMarsh		Lamprophyre																																								Canada	Yukon		
RG32_120822113545	CT	Elf	Outcrop	557459.3409	6799743.597	WGS84	22-Aug-12	JMarsh		Siltstone																													Bedding	315		41							bedding measurement . elf jm06		Canada	Yukon		
RG36_120822102040	CT	Elf	Outcrop	557639.5394	6799861.362	WGS84	22-Aug-12	ASilva	BrownDark	Sandstone	Massive	Siliceous																											Joint	210		86									Canada	Yukon		
RG36_120822122261	CT	Elf	Outcrop	557524.8339	6799755.972	WGS84	22-Aug-12	ASilva	Brown	Sandstone	Massive	Siliceous																											Bedding	130		58									Canada	Yukon		
RG36_120822123342	CT	Elf	Outcrop	557407.0775	6799584.917	WGS84	22-Aug-12	ASilva	BrownLight	Siltstone	Fissile	Siliceous																									WeaklyOxidized	Bedding	320		80									Canada	Yukon		
RG36_120822131583	CT	Elf	Outcrop	557379.794	6799534.669	WGS84	22-Aug-12	ASilva	BrownLight	Siltstone	Fissile	Siliceous														Pyrrhotite	2											PartlyOxidized	Bedding	150		50									Canada	Yukon		
RG36_120822141404	CT	Elf	Outcrop	557316.301	6799260.005	WGS84	22-Aug-12	ASilva	Greyish Green	Siltstone	Banded	Fissile																											Joint	140		80									Canada	Yukon		
RG36_120822115015	CT	Elf	Outcrop	557348.5751	6799035.599	WGS84	22-Aug-12	ASilva	Grey	Siltstone	Banded	Fissile																											Bedding	130		74									Canada	Yukon		
RG39_120820109136	CT	Elf	Outcrop	557864.069	6800291.326	WGS84	22-Aug-12	KKeating	Grey	Sandstone	Bedded	Siliceous	Silicification	Pervasive	4_Strong											Pyrrhotite	4 Pyrite	3										ModeratelyOxidized	Bedding	270	190	43						sandstone is fine grained with disseminated sulphides		Canada	Yukon		
RG39_120821210347	CT	Elf	Outcrop	557982.1782	6800189.896	WGS84	22-Aug-12	KKeating	GreyLight	Quartzite	GrainedMed	Bedded	Silicification	Pervasive	4_Strong																							WeaklyOxidized	Bedding	326	190	74						may not be a quartzite.....could just be an extremely silicous bed		Canada	Yukon		
RG39_120822104848	CT	Elf	Outcrop	557997.083	6800206.626	WGS84	22-Aug-12	KKeating	Grey	Sandstone	Bedded	GrainedFine	Silicification	Pervasive	3_Moderate																							WeaklyOxidized	Joint	228	190	90									Canada	Yukon		
RG39_120822130309	CT	Elf	Outcrop	558142.4989	6800334.941	WGS84	22-Aug-12	KKeating	Grey	Sandstone	Bedded	Siliceous	Silicification	Pervasive	4_Strong																							WeaklyOxidized	Joint	228	190	87									Canada	Yukon		
RG39_120822113090	CT	Elf	Outcrop	558152.2912	6800344.797	WGS84	22-Aug-12	KKeating	GreyLight	Sandstone	Bedded	GrainedFine	Silicification	Pervasive	4_Strong																							WeaklyOxidized										qtz stockwork		Canada	Yukon		
RG39_120833131181	CT	Elf	Outcrop	558159.8452	6800354.058	WGS84	22-Aug-12	KKeating	Grey	Sandstone	Bedded	GrainedFine	Silicification	Pervasive	3_Moderate																							PartlyOxidized	Joint	257	190	90						minor qtz stockwork		Canada	Yukon	RG39_2012.08.22_1338	
RG39_120822113392	CT	Elf	Outcrop	558107.8912	6800317.32	WGS84	22-Aug-12	KKeating	GreyDark	Sandstone	Bedded	GrainedFine	Silicification	Pervasive	3_Moderate																							WeaklyOxidized	VeinStockwork	356	190	80						elM405		Canada	Yukon		
RG40_120820109138	CT	Elf	Outcrop	557899.8721	6800298.27	WGS84	22-Aug-12	LvanderMeer	Brown	Lamprophyre	GrainedMed		Silicification	Pervasive	4_Strong																																				Canada	Yukon	RG40_2012.08.22_0913	
RG40_120820109479	CT	Elf	Outcrop	557878.5804	6800242.546	WGS84	22-Aug-12	LvanderMeer	Grey	Sandstone	Bedded		Silicification	Pervasive	4_Strong																							StronglyOxidized	Bedding	156		61									Canada	Yukon	RG40_2012.08.22_0949	
RG40_120822102000	CT	Elf	Outcrop	557889.911	6800285.627	WGS84	22-Aug-12	LvanderMeer		Lamprophyre	Massive																											Contact									contact zone		Canada	Yukon		
RG40_120822102081	CT	Elf	Outcrop	557837.2095	6800251.777	WGS84	22-Aug-12	LvanderMeer	GreyDark	Sandstone	Bedded																											Bedding	80		39									Canada	Yukon		
RG40_120822112112	CT	Elf	Outcrop	557692.7295	6799960.861	WGS84	22-Aug-12	LvanderMeer	Grey	Sandstone	Bedded																											Bedding	273		50									Canada	Yukon		
RG40_120822103003	CT	Elf	Outcrop	557567.7719	6799905.411	WGS84	22-Aug-12	LvanderMeer	Grey	Sandstone	Bedded		Silicification	Pervasive	4_Strong																									Bedding	140		90									Canada	Yukon		
RG40_120822121354	CT	Elf	Outcrop	557460.0245	6799804.6	WGS84	22-Aug-12	LvanderMeer	BrownDark	Sandstone																													Fault			27							potential fault trace		Canada	Yukon	RG40_2012.08.22_1335	
	42158	CT	Horn	OutcropChip	06966.5403	6871962.942	WGS84	23-Aug-12	JNunn	Grey	QuartzMonzonite	GrainedMed	Veined	Chloritic	Patchy	1_Trace																									Oyke	295								dyke maybe 150m wide, lots of cross cutin quartz veins that run thru, up to 1m s		Canada	Yukon	RG26_2012.08.23_1350	
	42159	CT	Horn	OutcropChip	506945.2663	6871934.714	WGS84	23-Aug-12	LvanderMeer	Grey	QuartzMonzonite	Dyke	GrainedMed													Pyrite	1			PY	Disseminated	2_Weak						Oyke	117		57						10mw dyke subparallel to foliations contains frequent quartz veins 1 to 10 cm wi		Canada	Yukon	RG40_2012.08.23_1355	
	42160	CT	Horn	OutcropChip	506961.86	6871934.484	WGS84	23-Aug-12	LvanderMeer	White	VeinQuartz	Stockwork																											VeinStockwork	359		78						quartz vein in monzonite, with sugary texture vein 20cm wide, chip sample hnjn0		Canada	Yukon	RG26_2012.08.23_1403	
	42161	CT	Horn	OutcropChip	506964.0316	6871959.483	WGS84	23-Aug-12	JNunn	White	VeinQuartz																											WeaklyOxidized	Vein<1cm	35		68						quartz vein, 25cm wide, in phyllite, massive quartz with sugary texture, chip sa		Canada	Yukon		
	42162	CT	Horn	OutcropChip	506942.6485	6871933.372	WGS84	23-Aug-12	JNunn	White	VeinQuartz			Chloritic	Patchy	1_Trace																							WeaklyOxidized		292		82						quartz vein, 25cm wide, in phyllite, massive quartz with sugary texture, chip sa		Canada	Yukon	RG26_2012.08.23_1413	
	42163	CT	Horn	OutcropChip	506884.313	6871856.052	WGS84	23-Aug-12	JNunn	White	VeinQuartz																											NotOxidized	Vein<1cm	228		48						vein is at least 40cm wide, sheeted veins, coarse grained qtz, long prismatic crysts		Canada	Yukon		
	42164	CT	Horn	OutcropChip	506876.0688	6871863.611	WGS84	23-Aug-12	JNunn	Grey	QtzMonzodiorite	Pegmatitic	GrainedFine	Sericitic	Pervasive	3_Moderate																							PartlyOxidized	Oyke	284		68						large quartz crystals and the rock was fine grained, chip sample hnlv04, dyke 15m		Canada	Yukon		
	42166	CT	Horn	OutcropChip	506760.4688	6871825.392	WGS84	23-Aug-12	LvanderMeer	Tan	QuartzMonzonite	Veined																											WeaklyOxidized	Vein<1cm	128		83						oxidized intrusive mzonite w/ the dyke cross cutting syngenic veins 1 to 2 cm wide		Canada	Yukon	RG26_2012.08.23_1515	
	42167	CT	Horn	OutcropChip	506751.0067	6871812.896	WGS84	23-Aug-12	JNunn	White	VeinQuartz		GrainedCoarse	Massive																									WeaklyOxidized	Vein<1cm	343		50						quartz vein, 20cm wide, massive bull qtz, chip sample hnjn05, in monzodiorite		Canada	Yukon	RG26_2012.08.23_1529	
	42169	CT	Horn	OutcropChip	506765.3198	6871758.115	WGS84	23-Aug-12	JNunn	Grey	QuartzMonzonite	GrainedFine	Veined	Sericitic	Pervasive	2_Weak																							NotOxidized										chilled margin against sedi, quartz veins running thru different directions, chip s		Canada	Yukon		
	42171	CT	Horn	OutcropChannel	506740.8192	6871863.821	WGS84	23-Aug-12	JNunn	Grey	Phyllite	Foliated																											Oxidized	Foliation	260		86						5m outcrop channel		Canada	Yukon		
	42172	CT	Horn	OutcropChannel	506728.9296	6871659.342	WGS84	23-Aug-12	JNunn	Grey	QuartzMonzonite	GrainedFine	Sericitic	Patchy	2_Weak																							PartlyOxidized										quartz veining, lots sheeted veins, different directions near stockwork, chilled ma		Canada	Yukon		
	42173	CT	Horn	OutcropChannel	506731.5625	6871653.22	WGS84	23-Aug-12	JNunn	Brown	Phyllite	Foliated																											NotOxidized										sedimentary rift maybe a 1m. quartz veining, chip sample hnjn08		Canada	Yukon		
	42174	CT	Horn	OutcropChannel	506732.6058	6871655.784	WGS84	23-Aug-12	JNunn		QuartzMonzonite	GrainedCoarse		Sericitic	Pervasive	2_Weak																							NotOxidized	VeinSheeted	80		90						has sheeted qtz veins up to 10cm wide, 20cm interval, chip sample hnjn09		Canada	Yukon		
	42175	CT	Horn	OutcropChannel	506732.7415	6871640.188	WGS84	23-Aug-12	JNunn	BrownLight	QuartzMonzonite	GrainedFine	Banded																											NotOxidized	Flowbands	278		90						stockwork cross cutting qtz veins anvd veinlets, chip sample hnjn10		Canada	Yukon		
	42176	CT	Horn	OutcropChannel	506730.5664	6871626.816	WGS84	23-Aug-12	JNunn	White	VeinQuartz																											NotOxidized										huge quartz vein 15m wide, contains sedimentry rafts, sugary qtz. milky white qz		Canada	Yukon	RG26_2012.08.23_1653	
	42177	CT	Horn	OutcropChip	506726.2678	6871627.03	WGS84	23-Aug-12	JNunn	White	VeinQuartz																											NotOxidized	Vein<1cm	210								up to 15m wide, hard to say which way it is trending, may be larger as sections c		Canada	Yukon	RG26_2012.08.23_1658	
	42179	CT	Horn	OutcropGrab	507303.2962	6874944.92	WGS84	24-Aug-12	JMarsh	White	Sandstone	Biowork	GrainedFine																											PartlyOxidized										qtz veining, biowork within the quartz vein. equigranular fine grained sandst		Canada	Yukon		
	42180	CT	Horn	TalusGrab	507545.6537	6872380.817	WGS84	26-Aug-12	JMarsh	White	VeinQuartz															Pyrite	1											PartlyOxidized										partly oxidized quartz vein with 1percent disseminated pyrite . Intercollated with		Canada	Yukon	RG32_2012.08.26_1026	
	42181	CT	Horn	TalusGrab	507817.8347	6872203.747	WGS84	26-Aug-12	KKeating	Grey	VeinQuartz			Silicification	Pervasive	4_Strong										Pyrite	2											PartlyOxidized										phyllite with massive quartz veining and voids <2cm wide. Some primary structu		Canada	Yukon		
	42182	CT	Horn	SubCropGrab	507827.6874	6872112.644	WGS84	26-Aug-12	JMarsh	Grey	Phyllite	Veined	Quartz													Pyrite	3											PartlyOxidized										dark green foliated phyllitic mudstone, foliation measurement _numerous quartz v		Canada	Yukon		
	42183	CT	Horn	SubCropGrab	508002.5826	6872177.441	WGS84	26-Aug-12	JMarsh	Grey	VeinQuartz	Massive		Silicification	Pervasive	3_Moderate										Pyrite	3											ModeratelyOxidized	Foliation	118	310	72						some dyke with oxidized pyrite. Phyllite is host rock and is interolated Canada		Canada	Yukon		
	42184	CT	Horn	OutcropChip	506445.1239	6870613.817	WGS84	24-Aug-12	JMarsh	Light Grey	Phyllite															Pyrite	0.5											PartlyOxidized	Foliation	265		29						voids in partly oxidized phyllite, probably with some oxidized pyrite . hnjn17		Canada	Yukon		
	42185	CT	Horn	OutcropChip	506706.277	6871663.753	WGS84	24-Aug-12	JMarsh	Greyish Green	Phyllite	Massive	Quartz													Pyrite	2											NotOxidized	Foliation	110		62						oxidized pyrite in a mod oxidized phyllite. within the big 10m quartz vein with m		Canada	Yukon		
	42187	CT	Horn	SubCropGrab	507443.3788	6871700.934	WGS84	27-Aug-12	JNunn	Chocolate Brown	Limestone	PyriteDiagenetic	Biowork																PY	Phenocryst	3_Moderate						Oxidized										chip sample hnjn30		Canada	Yukon		
	42241	CT	Horn	TalusGrab	506393.7031	6871895.199	WGS84	23-Aug-12	JMarsh	White	Vein	Biowork		Argillic	DisseminVeins	2_Weak										Pyrite	0.5			PY	DisseminVeins	2_Weak						WeaklyOxidized	Vein<1cm									drusy equartz qtz vein with abundant biowork along the vein margin,strong co		Canada	Yukon	RG39_2012.08.23_0942	
	45026	CT	Horn	OutcropChip	506413.2584	6873947.929	WGS84	23-Aug-12	JMarsh	White	VeinQuartz																											WeaklyOxidized	Vein<1cm	340	310	51						some massive and drusy qtz cross cutting the phyllite. hnkk02		Canada	Yukon	RG39_2012.08.23_0945	
	45027	CT	Horn	OutcropChip	506425.4796	6873998.528	WGS84	23-Aug-12	JMarsh	GreyLight	Phyllite	GrainedFine	Fissile	Silicification	Pervasive	2_Weak																							WeaklyOxidized	Foliation	288	310	87						contains biowork up to 0.5 cm. hnkk05		Canada	Yukon	RG39_2012.08.23_1024	
	45028	CT	Horn	OutcropChip	506425.3424	6873987.944	WGS84	23-Aug-12	JMarsh	White	Vein	Quartz	Biowork													Pyrite	0.5			PY-ASP	DisseminVeins	2_Weak						WeaklyOxidized	Vein<1cm	7		78						30cm wide vein with very strong bioworck development along the vein margin		Canada	Yukon	RG39_2012.08.23_1029	
	45029	CT	Horn	OutcropChip	506428.3999	6873978.593	WGS84	23-Aug-12	JMarsh	White	Vein	Quartz	Bioworck													Pyrite	0.5			PY	DisseminVeins	2_Weak						StronglyOxidized	Vein<1cm	285		70						strongly oxidized with bioworck and py-sxp qtz vein with vugs appearing parallel		Canada	Yukon	RG22_2012.08.23_1043	
	45030	CT	Horn	OutcropChip	506569.6762	6873964.38	WGS84	23-Aug-12	JMarsh	Grey	Phyllite	GrainedFine	Fissile	Silicification	Pervasive	2_Weak	Argillic	Patchy	2_Weak							Pyrite	3 Pyrite	8		PY-ASP	Disseminated	2_Weak						StronglyOxidized	Foliation	135	310	84						5hkk06. Outcrop has lots of bioworck that hasn't weathered out yet. Protolith of t		Canada	Yukon		
	45033	CT	Horn	OutcropGrab	506465.989	6872028.46	WGS84	23-Aug-12	JMarsh	Grey	Phyllite	Bioworck																											StronglyOxidized	Foliation	319		76						abundant biowork and visible py-aup adjacent to a qtz vein,hngm05		Canada	Yukon	RG22_2012.08.23_1120	
	45034	CT	Horn	OutcropGrab	506466.414	6872025.453	WGS84	23-Aug-12	JMarsh	White	Vein	Quartz																											WeaklyOxidized	Vein<1cm	106		86						30cm wide qtz vein oxidized and bioworck along the selvage,visible mwi,vein		Canada	Yukon	RG22_2012.08.23_1127	
	45034	CT	Horn	OutcropGrab	506489.9791	6872035.747	WGS84	23-Aug-12	JMarsh	White	VeinQuartz																											WeaklyOxidized	Foliation	112	310	78						slate is the host rock to the vein and the qtz veins runs parallel and subparallel t		Canada	Yukon	RG39_2012.08.23_1142	
	45036	CT	Horn	OutcropGrab	506416.5371	6871793.533	WGS84	23-Aug-12	JMarsh	White	Vein	Quartz																											WeaklyOxidized	Foliation	84		60						qtz vein cross cutting phyllite. Vein is 15cm wide,trace py along the selvage		Canada	Yukon	RG22_2012.08.23_1309	
	45037	CT	Horn	OutcropGrab	506308.046	6871846.58	WGS84	23-Aug-12	Kkeating	Grey	Phyllite	Banded	Siliceous													Pyrite	5											ModeratelyOxidized	Foliation	15	310	50						phyllite seems to be near a contact due to silicesous nature...definitely hornfelsed		Canada	Yukon		
	45038	CT	Horn	OutcropGrab	506324.9028	6871801.16	WGS84	23-Aug-12	JMarsh	Grey	Phyllite	Hornfelsed	Siliceous													Pyrite	2 Pyrite	5		PY-ASP	Disseminated	4_Strong						WeaklyOxidized	Foliation	80		36						a hornfelsed phyllite with 3-5% py-aup along the contact between an intrusive an		Canada	Yukon	RG22_2012.08.23_1347	
	45039	CT	Horn	OutcropGrab	506363.2016	6871809.698	WGS84	23-Aug-12	JMarsh	Greyish Green	Granite	Siliceous														Pyrite	0.5											WeaklyOxidized	Joint	88		58						a grey-green quartz granite with disseminated half a percent pyrite,hnkk08,hnm		Canada	Yukon	RG22_2012.08.23_1404	
	45040	CT	Horn	SubCropGrab	506434.6102	6872115.587	WGS84	23-Aug-12	KKeating	Grey	VeinQuartz																											WeaklyOxidized										drusy qtz crystals up to 5 inches in length. Pinches and swells from 15 cm to .5 m		Canada	Yukon		
	45041	CT	Horn	SubCropGrab	506443.7586	6872728.415	WGS84	23-Aug-12	GMcKenzie	GreenLight	Granite	Siliceous	Hornfelsed													Pyrite	1																					numerous oxidized fractures containing pyrite x cutting the hornfelsed granite,st		Canada	Yukon	RG22_2012.08.23_1535	
	45042	CT	Horn	SubCropGrab	506780.8631	6871938.613	WGS84	24-Aug-12	KKeating	Grey	Phyllite	GrainedVeryFine	Veined	Silicification	Pervasive	3_Moderate										Pyrite	1											ModeratelyOxidized										qtz veining within phyllitic mudstone.. some areas have minute bioworck. Pyrite i		Canada	Yukon		
	45043	CT	Horn	OutcropChip	507128.5719	6872050.059	WGS84	24-Aug-12	KKeating	Grey	Phyllite	Quartz	Massive	Silicification	Pervasive	4_Strong																							WeaklyOxidized	Shear	321	310	90						massive, subparallel to sub-vertical qtz blow out within the intrusive. Vein is roug		Canada	Yukon		
	45045	CT	Horn	OutcropChip	507262.4473	6872139.24	WGS84	24-Aug-12	KKeating	Grey	MicroGranite	GrainedFine																											PartlyOxidized										hnlv10 med to fine grained intrusive qtz rich with weak mineralization		Canada	Yukon	RG39_2012.08.24_1402	
	45046	CT	Horn	OutcropChip	507254.3543	6872174.091	WGS84	24-Aug-12	KKeating	White	VeinQuartz	Massive																											PartlyOxidized										mov qtz blow out with weak oxidation on margins occasional qtz druz and occasi		Canada	Yukon	RG39_2012.08.24_1424	
	45047	CT	Horn	OutcropChip	507580.5414	6871493.474	WGS84	25-Aug-12	JMarsh	White	VeinQuartz																											NotOxidized										quartz vein, 2m wide buck qtz milky texture, hnkv13		Canada	Yukon		
	45048	CT	Horn	OutcropChip	508946.5331	6872069.955	WGS84	25-Aug-12	JMarsh	White	VeinQuartz																											NotOxidized	Vein<1cm	230		84						quartz vein, 2m wide buck quartz, chip sample hnlv14, vein 20cm wide,		Canada	Yukon	RG26_2012.08.25_1620	
	45049	CT	Horn	SubCropGrab	505662.278	6871552.46	WGS84	26-Aug-12	JMarsh	Grey	Quartzite	GrainedCoarse	Siliceous	Silicification	Pervasive	3_Moderate																							WeaklyOxidized										weakly oxidized, weathered		Canada	Yukon		
	45050	CT	Horn	OutcropGrab	505442.4069	6871800.747	WGS84	26-Aug-12	JMarsh	Grey	Sandstone	GrainedFine	Siliceous	Silicification	Pervasive	4_Strong																							ModeratelyOxidized										contains magnesse oxid and stockwork qtz veining, chip sample hnjn23		Canada	Yukon		
	45187	CT	Horn		507449.1528	6871697.159	WGS84	27-Aug-12	JNunn																																									Canada	Yukon		
	45366	CT	Horn	OutcropGrab	-128.272287	61.918845	WGS84_ZONN	24-Aug-12	JMarsh	Grey	Monzogranite																											StronglyOxidized												Canada	Yukon		
	45372	CT	Horn	SubCropGrab	507141.2111	6871097.162	WGS84	24-Aug-12	JMarsh	BrownLight	Monzogranite	Veined		Chloritic	Fracture	2_Weak	Sericitic	Pervasive	1_Trace																			PartlyOxidized										oxidized intrusive monzogranite with quartz veining . no visible sulphides		Canada	Yukon		
	45373	CT	Horn	OutcropGrab	507179.2901	6871121.187	WGS84	24-Aug-12	JMarsh	Light Grey	Monzogranite	GrainedFine	Equigranular	Sericitic	Pervasive	3_Moderate										Arsenopyrite	2 Pyrite	1										PartlyOxidized										bioworck within the monzogranite but not much visible pyrite . hnkk05		Canada	Yukon		
	45374	CT	Hor

| SAMPLEID | PROJECTCODE | POINTPROSPECT | Obs_Type | GPS_209N_X | GPS_209N_Y | GridName_D | Samp_Date | Sampler | GC_Colour | GC_RockType | GC_Type_Mod1 | GC_Type_Mod2 | GC_Alt_1Type | GC_Alt1_Style | GC_Alt1_Int | GC_Alt2_Type | GC_Alt2_Style | GC_Alt2_Int | GC_Alt_Min1 | GC_Alt_Min1_pct | GC_Alt_Min2 | GC_Alt_Min2_pct | GC_Alt_Min3 | GC_Alt_Min3_pct | GC_Min1_Type | GC_Min1_pct | GC_Min2_Type | GC_Min2_pct | GC_Min3_Type | GC_Min3_pct | GC_Min_Assem1 | GC_Min_Assem1_Style | GC_Min_Assem1_Int | GC_Min_Assem2 | GC_Min_Assem2_Style | GC_Min_Assem2_Int | GC_Oxidation | GC_Struct1 | GC_Str1_Azm | GC_Str1_Decl | GC_Str1_Dip | GC_Str1_DipDirection | GC_Struct2 | GC_Str2_Azm | GC_Str2_Decl | GC_Str2_Dip | GC_Str2_DipDirection | Samp_Comment | Samp_Contractor | Samp_Country | Samp_StateProvince | Photo_file | PRIORITY |
|---|---|---

| SAMPLEID | PROJECTCODE | POINTPROSPECT | Obs_Type | GPS_20fN_X | GPS_20fN_Y | GridName_D | Samp_Date | Sampler | GC_Colour | GC_RockType | GC_Type_Mod1 | GC_Type_Mod2 | GC_Alt1_Type | GC_Alt1_Style | GC_Alt1_Int | GC_Alt2_Type | GC_Alt2_Style | GC_Alt2_Int | GC_Alt_Min1 | GC_Alt_Min1_pct | GC_Alt_Min2 | GC_Alt_Min2_pct | GC_Alt_Min3 | GC_Alt_Min3_pct | GC_Min1_Type | GC_Min1_pct | GC_Min2_Type | GC_Min2_pct | GC_Min3_Type | GC_Min3_pct | GC_Min_Assem1 | GC_Min_Assem1_Style | GC_Min_Assem1_Int | GC_Min_Assem2 | GC_Min_Assem2_Style | GC_Min_Assem2_Int | GC_Oxidation | GC_Struct1 | GC_Str1_Azm | GC_Str1_Decl | GC_Str1_Dip | GC_Str1_DipDirection | GC_Struct2 | GC_Str2_Azm | GC_Str2_Decl | GC_Str2_Dip | GC_Str2_DipDirection | Samp_Comment | Samp_Contractor | Samp_Country | Samp_StateProvince | Photo_file | PRIORITY |
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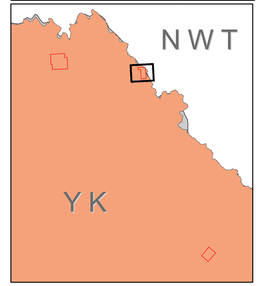
Appendix F – Maps & Figures

RYAN GOLD CORP.

N

CanEast Soil Geochemistry

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

2012 Soil Results

Gold, Au (ppb)

- 0.3 - 10.0
- 10.1 - 30.0
- 30.1 - 50.0
- 50.1 - 100.0
- 100.1 - 123.3
- Property Boundary
- Lakes
- Wetland/Swamp
- Rivers/Streams
- Contour 100ft

CANEAST

0 0.2 0.4 0.8

Kilometers

1:10,000

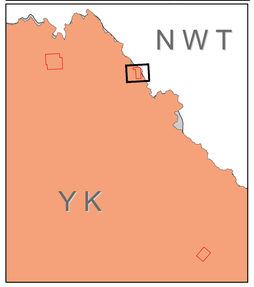
122

RYAN GOLD CORP.

N

CanEast
Rock Geochemistry

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

Sample Locations

Gold (Au) g/t

- 0.0005 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- 5.0 - 20.0

Property Boundary

Contour 100ft

Lakes

Rivers/Streams

Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

1:10,000

CANEAST

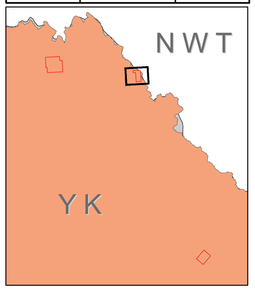
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RYAN GOLD CORP.

N

CanEast Geology Observations

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

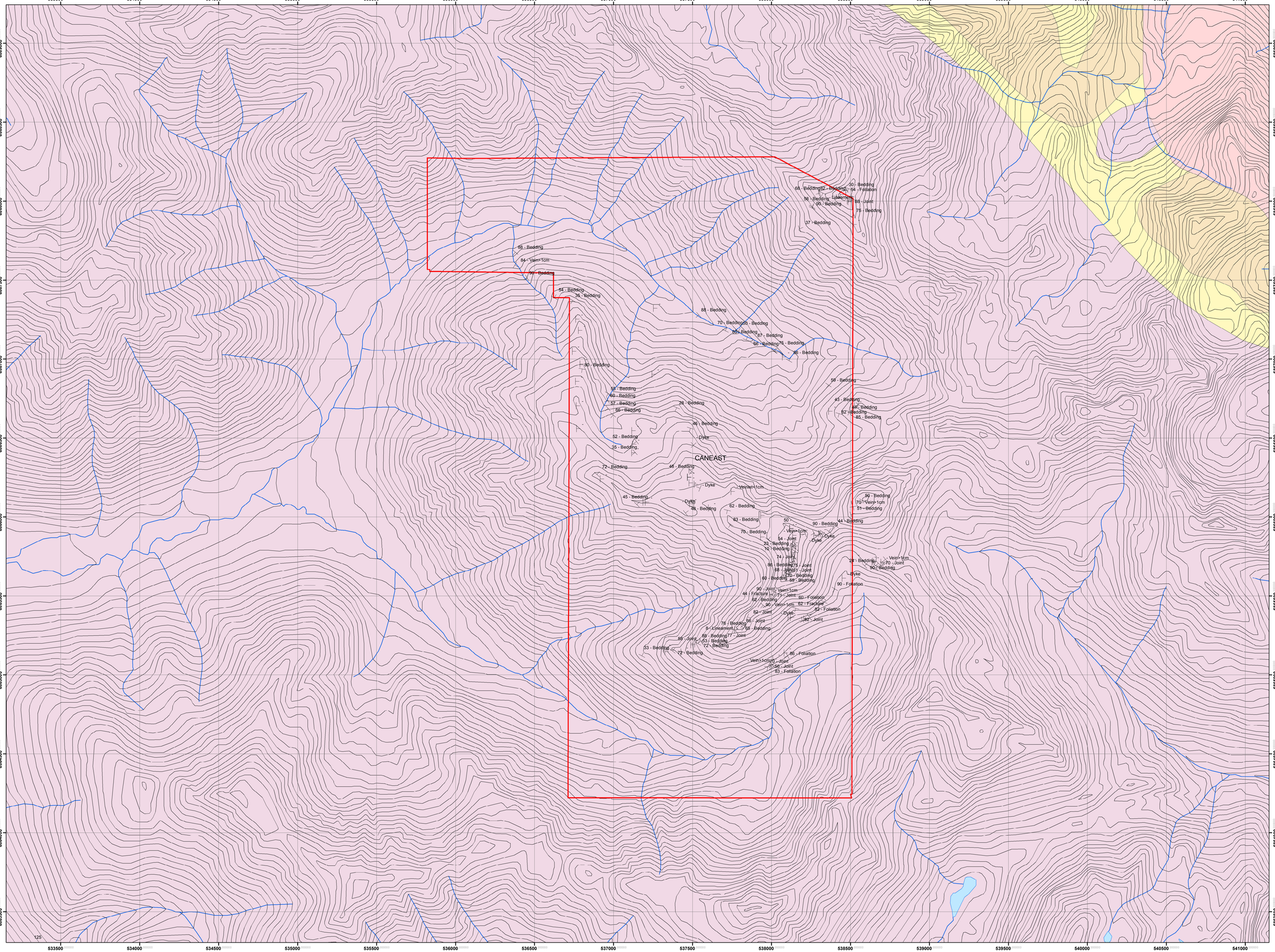
- Observation Points
- Property Boundary
- Contour 100ft
- Lakes
- Rivers/Streams
- Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

1:10,000

124

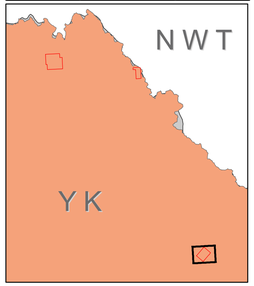

CANEAST
Dyke
Vein<1cm
Vein>1cm
Joint
Bedding
Foliation
Fracture
Lineament
Property Boundary
Contour 100ft
Lakes
Rivers/Streams
Wetland/Swamp
Structural Points
Legend
N
NWT
YK
RYAN GOLD CORP.
CanEast Structural Observations
Sept 19, 2012
WGS84_UTM_Zn9
By: L.V.
0 0.2 0.4 0.8
Kilometers
1:10,000
125

RYAN GOLD CORP.

N

Elf
Rock Geochemistry

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

Sample Locations

Gold (Au) g/t

- 0.0005 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- 5.0 - 20.0

Property Boundary

Contour 100ft

Lakes

Rivers/Streams

Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

1:10,000

ELF

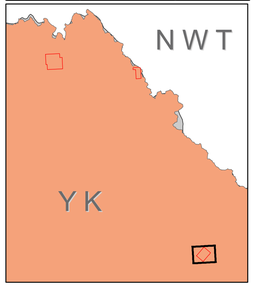
126

RYAN GOLD CORP.

N

Elf Geology Observations

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

- Observation Points
- Property Boundary
- Contour 100ft
- Lakes
- Rivers/Streams
- Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

1:10,000

ELF

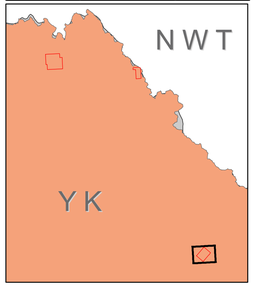
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Elf Structural Observations

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.

RYAN GOLD CORP.

N



Legend

- Structural Points
- Property Boundary
- Contour 100ft
- Lakes
- Rivers/Streams
- Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

1:10,000

ELF

Contact
Lineament
39 - Bedding
49 - Bedding
57 - Bedding
82 - Joint
62 - Joint
75 - Bedding
90 - Joint
87 - Joint
58 - Bedding
90 - Joint
55 - Dyke
60 - Bedding
70 - Bedding
70 - Joint
55 - Bedding
90 - Joint
48 - Bedding
90 - Bedding
53 - Joint
70 - Bedding
50 - Bedding
82 - Joint
90 - Bedding
81 - Joint
90 - Joint
70 - Joint
Fault
40 - Bedding
41 - Bedding
58 - Bedding
58 - Bedding
60 - Bedding
58 - Bedding
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82 - Joint
50 - Bedding
86 - Joint
88 - Bedding
90 - Bedding
90 - Joint
80 - Bedding
74 - Bedding
84 - Joint

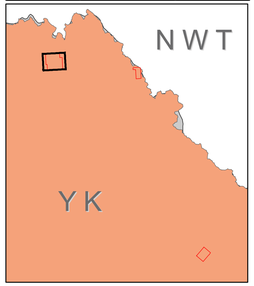
128

RYAN GOLD CORP.

N

Horn Soil Geochemistry

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

2012 Soil Results

Gold, Au (ppb)

- 0.3 - 10.0
- 10.1 - 30.0
- 30.1 - 50.0
- 50.1 - 100.0
- 100.1 - 123.3
- Property Boundary
- Lakes
- Wetland/Swamp
- Rivers/Streams
- Contour 100ft

HORN

HYLAND

0 0.2 0.4 0.8

Kilometers

1:10,000

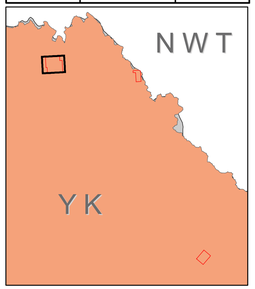
129

RYAN GOLD CORP.

N

Horn Rock Geochemistry

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

Sample Locations

Gold (Au) g/t

- 0.0005 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- 5.0 - 20.0

- Property Boundary
- Contour 100ft
- Lakes
- Rivers/Streams
- Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

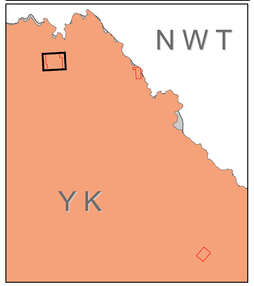
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RYAN GOLD CORP.

N

Horn Geology Observations

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

- Observation Points
- Property Boundary
- Contour 100ft
- Lakes
- Rivers/Streams
- Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

1:10,000

HORN

HYLAND

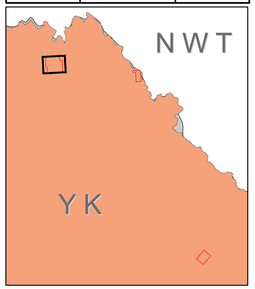
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RYAN GOLD CORP.

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Horn Structural Observations

Sept 19, 2012	WGS84_UTM_Zn9	By: L.V.



Legend

- Structural Points
- Property Boundary
- Contour 100ft
- Lakes
- Rivers/Streams
- Wetland/Swamp

0 0.2 0.4 0.8

Kilometers

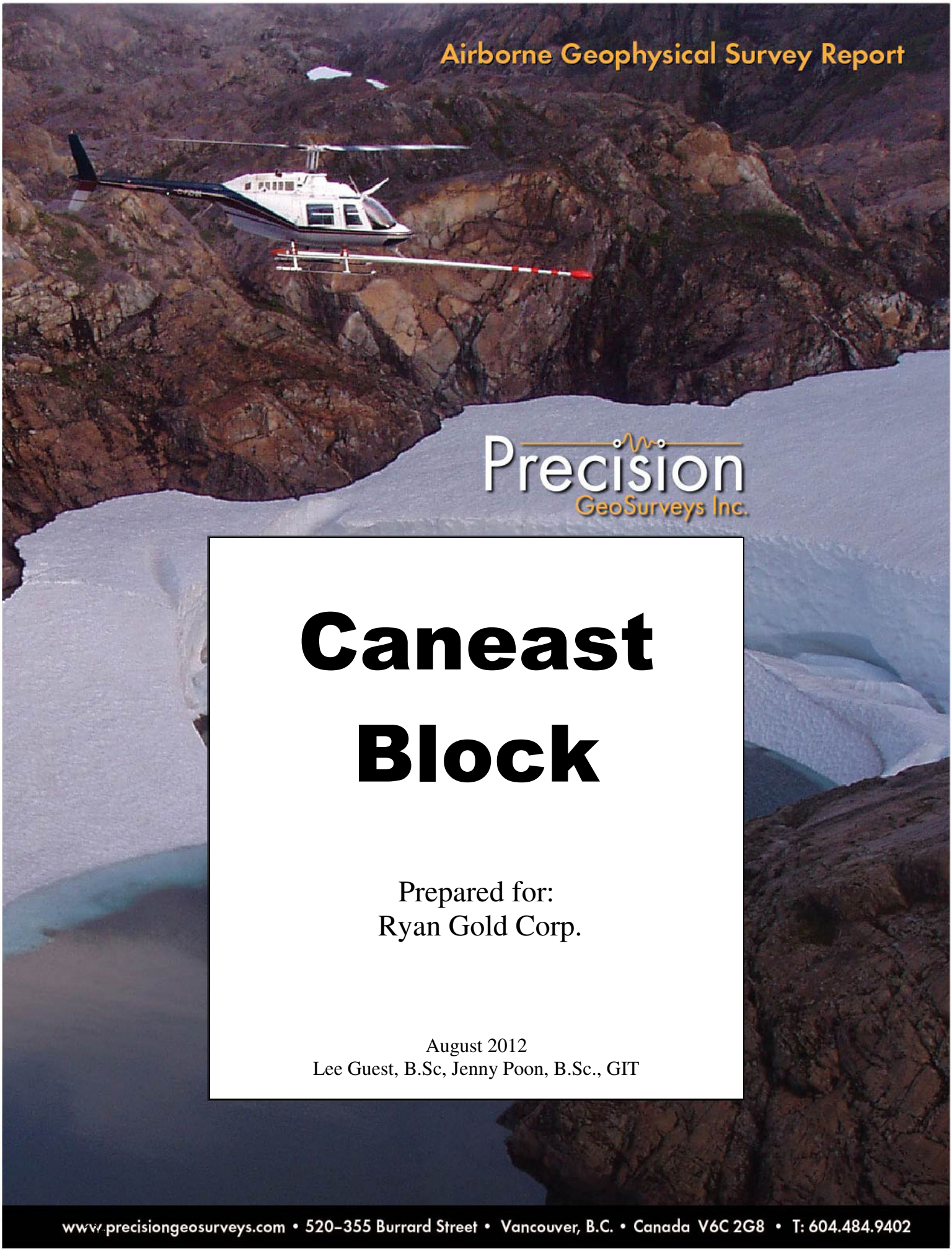
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Appendix G – Geophysics Reports



Caneast Block

Prepared for:
Ryan Gold Corp.

August 2012
Lee Guest, B.Sc, Jenny Poon, B.Sc., GIT

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1.0 Introduction:

This report outlines the survey operations and data processing actions taken during the airborne geophysical survey flown at the Caneast block. The survey area is located east of Ross River, Yukon Territory, Canada and north east of Selwyn Mountains (Figure 1). The airborne geophysical survey was flown by Precision GeoSurveys Inc. for Ryan Gold Corp. The geophysical survey, carried out from August 15, 2012 to August 16, 2012 saw the acquisition of high resolution magnetic and radiometric data.

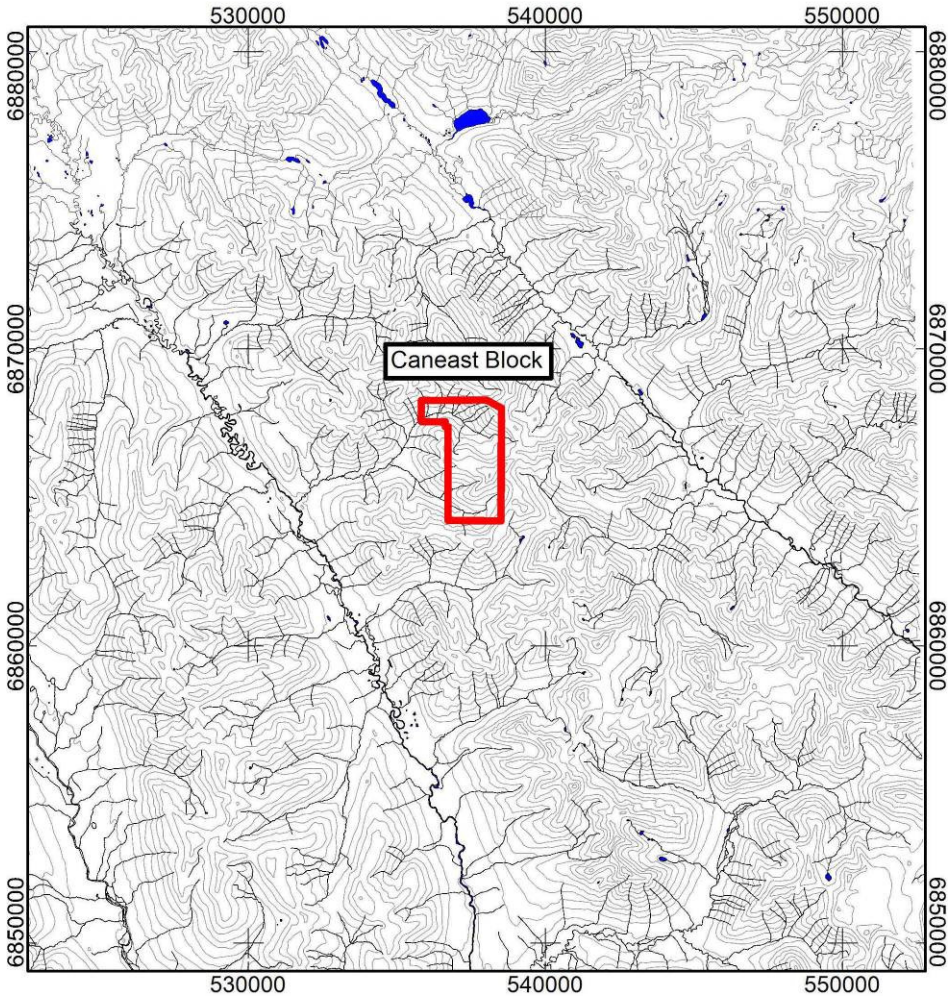


Figure 1: Block location map.

Precision GeoSurveys Inc.

1.1 Survey Area

The Caneast block is located west of the Cantung Mine in the Nahanni area of western Northwest Territories, Canada, approximately 300 km by road northeast of Watson Lake, Yukon, close to the Yukon border. The survey block is approximately 218 km east of Ross River, Yukon Territory, Canada (Figure 2).



Figure 2: Caneast block location relative Ross River, Yukon Territory on Google Earth.

The Caneast block is approximately 4 km by 2 km (Figure 3). A total of 88 line kilometers of magnetic and radiometric data were flown for this survey; this total includes tie lines and survey lines.

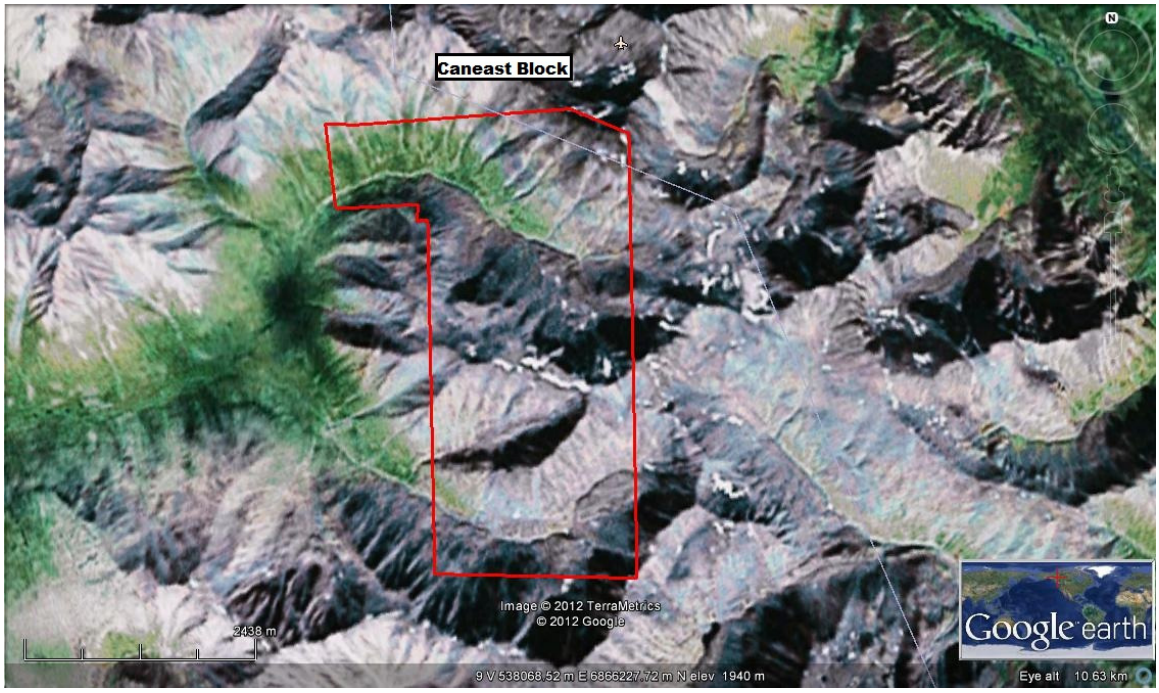


Figure 3: Caneast block survey boundary in red.

The Caneast block survey lines were flown at 100 meter spacing at a 000°/180° heading; the tie lines were flown at 1 km spacing at a heading of 090°/270° (Figures 4 and 5).

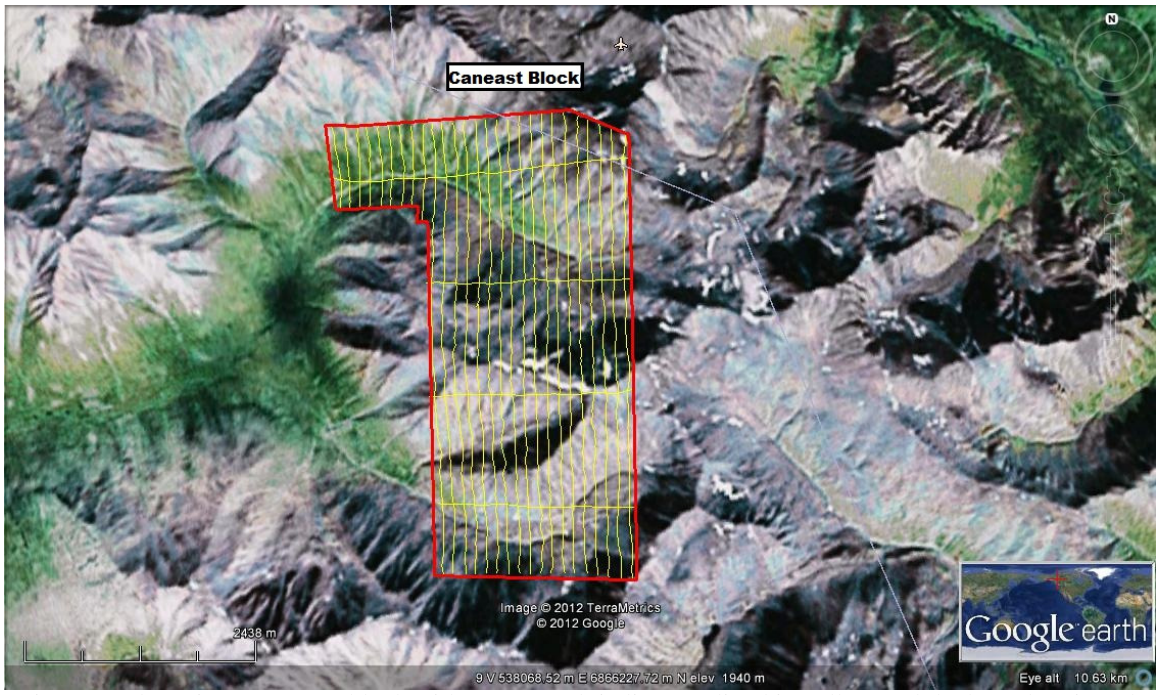


Figure 4: Plan View - Caneast block with survey and tie lines outlined in yellow and the boundary in red.

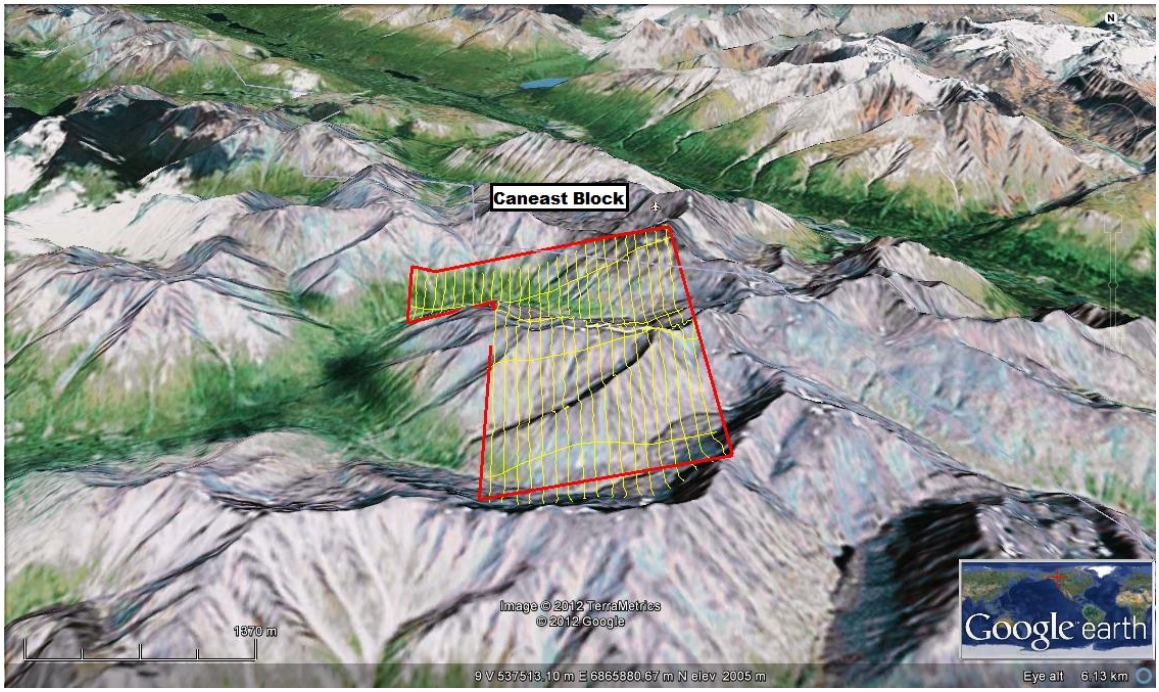


Figure 5: Terrain View - Caneast block with survey and tie lines outlined in yellow and the boundary in red.

1.2 Survey Specifications:

The geodetic system used for this survey is WGS 84 and the area is contained in zone 9N (Figure 6). The survey data acquisition specifications and coordinates for Caneast block survey are specified as followed (Tables 1 to 2).

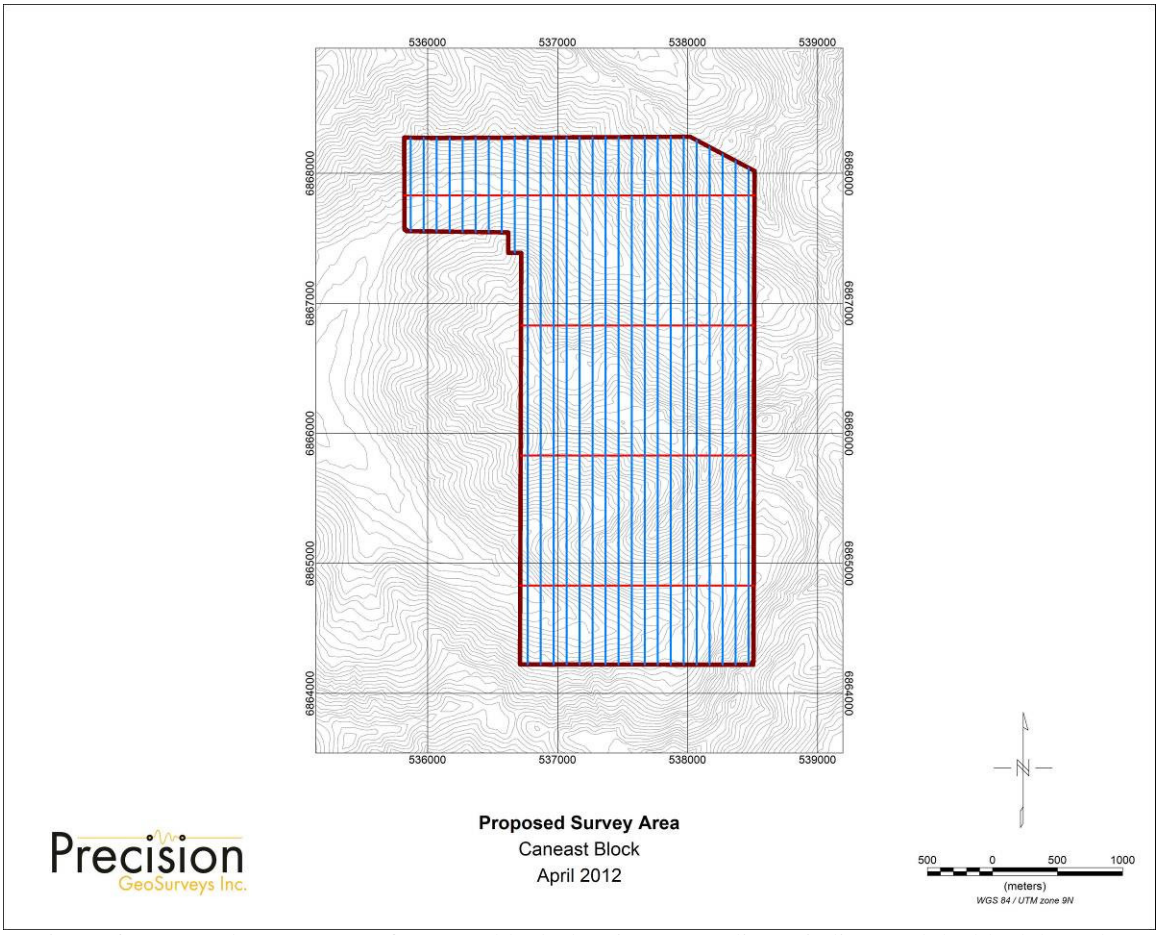


Figure 6: Proposed survey map of Caneast block showing survey lines, tie lines and the block boundary.

Survey block	Line Spacing m	Planned Survey Line km	Planned Tie Line km	Total Planned Line km	Total Actual Flown km	Survey Line Orientation	Nominal Survey Height m
Caneast	100	79	9	88	88	000°/180°	35
Total				88	88		

Table 1: Caneast block survey acquisition specifications.

Longitude	Latitude	Easting	Northing
128.31714808	61.93895359	535836.75	6867567.61
128.31745312	61.93894613	535821.41	6867567.40
128.31733033	61.94530124	535820.42	6868274.81
128.31271921	61.94525140	536061.69	6868271.70
128.27542342	61.94515015	538019.41	6868281.62
128.26602852	61.94272152	538515.43	6868017.08
128.26697374	61.90884702	538507.83	6864242.87
128.26714504	61.90884794	538498.85	6864242.87
128.26701653	61.90864975	538506.45	6864220.87
128.30116284	61.90884522	536711.51	6864222.73
128.30036148	61.93725353	536720.35	6867388.12
128.30226665	61.93726319	536619.84	6867388.12
128.30223430	61.93868139	536619.96	6867546.10
128.31715048	61.93884588	535836.75	6867555.50

Table 2: Caneast block survey polygon coordinates using WGS 84 in zone 9N.

2.0 Geophysical Data:

Geophysical data are collected in a variety of ways and are used to aid in the exploration and determination of geology, mineral deposits, oil and gas deposits, contaminated land sites and UXO detection.

For the purposes of this survey, airborne magnetic and radiometric data were collected to serve in the exploration of the Caneast block which contains rocks that are prospective for gold deposit.

2.1 Magnetic Data:

Magnetic surveying is probably the most common airborne survey type to be conducted for both mineral and hydrocarbon exploration. The type of survey specifications, instrumentation, and interpretation procedures, depend on the objectives of the survey. Typically magnetic surveys are performed for:

1. Geological Mapping to aid in mapping lithology, structure and alteration in both hard rock environments and for mapping basement lithology, structure and alteration in sedimentary basins or for regional tectonic studies.
2. Depth to Basement mapping for exploration in sedimentary basins or mineralization associated with the basement surface.

2.2 Radiometric Data:

Radiometric surveys detect and map natural radioactive emanations, called gamma rays, from rocks and soils. All detectable gamma radiation from earth materials come from the natural decay products of three primary elements; uranium (U), thorium (Th), and potassium (K). The purpose of radiometric surveys is to determine either the absolute and relative amounts of U, Th, and K in surface rocks and soils.

Radiometric data were collected simultaneously along with the acquisition of magnetic data. Patches of snow cover were found on the property that could compromise the quality of radiometric data as radiation from the ground is significantly attenuated and thus the counts measured are reduced. For example, 2 cm of snow cover can reduce the penetration of gamma ray radiation by 35 % (*IAEA, 2003*).

3.0 Survey Operations:

Precision GeoSurveys will be operating out of Inconnu Lodge, YT. The crew will have the base station set up prior to the start of the survey. The experience of the pilot helped to ensure that the data quality objectives were met and that the safety of the flight crew was never compromised given the potential risks involved in airborne surveying. Field processing and quality control checks are done daily.

3.1 Operations Base and Crew:

The base of operations for this survey was at the Inconnu Lodge, Yukon Territory, Canada. The Precision crew consisted of four members:

Harmen Keyser– Pilot
Erik Keyser – Operator
Jenny Poon - Geophysicist
Lee Guest - Geophysicist

The survey was started on August 15, 2012 and completed on August 16, 2012. It did not encounter any delays from weather or magnetic solar storms.

3.2 Base Station Specifications:

Two magnetic base stations were set up before every flight to ensure that diurnal activity was recorded during the survey flights. In this case, two GEM GSM 19T base stations were plotted in the bushes. GEM 3 (Serial # 5081669) and GEM 5 (Serial # 1094678) were located close to Inconnu Lodge but was plotted in a magnetically noise-free area (Table 3).

Station name	Easting/ Northing	Longitude/ Latitude	Datum/ Projection
GEM 3 (Serial # 5081669)	0437049E, 6853758N	130° 11' 40.379"W 61° 48' 41.338" N	WGS84, Zone 9N
GEM 5 (Serial # 1094678)	0437054E, 6853758N	130° 11' 40.038"W 61° 48' 41.341" N	WGS84, Zone 9N

Table 3: Base station specifications.

Base station readings were reviewed at regular intervals to ensure that no data were collected during periods with high diurnal activity (greater than 5 nT per minute). The base stations were installed at a magnetically noise-free area, away from metallic items such as steel objects, vehicles, or power lines (Figure 7) that could affect the survey data.



Figure 7: GEM 3 (left) and GEM 5 (right) base station locations.

The diurnal magnetic variations recorded from the stationary base stations are removed from the magnetic data recorded in flight to ensure that the anomalies seen are real and not due to solar activity.

3.3 Field Processing and Quality Control:

On a flight-by-flight basis, the survey data were transferred onto a USB flash drive and copied onto a field data processing laptop. The raw data files are in PEI binary data format and are converted into Geosoft GDB database format. Using Geosoft Oasis Montaj 7.5, the quality of the data is inspected to see if it meets the contract specifications (see Table 4). If survey and tie lines exhibit excessive deviation from (left/right or up/down) the contract specifications, or were considered to be inferior quality, were reflown. Any suspicious anomalies, especially those found on a single flight line, were reflown. All re-flights will be a minimum of 2000 m long and survey line re-flights crosses at least two tie lines, and tie line re-flights will cross at least 7 survey lines where applicable. For this survey project, no re-flights were required due to diurnal or equipment malfunctions.

Specification	Technology	Details
Line Spacing	Position	Flight lines deviate from flight path by more than +/- 15 m left/ right for 1 km or more.
Height		Flight lines deviate from height by more than +/- 10 up/down (with a nominal flight height of 35 m above ground) for 1 km or more.
Diurnal Variations	Magnetics	Non-linear magnetic diurnal variations exceed 10nT from a linear chord of length one (1) mintue
Normalized 4th Difference		Magnetic data exceeding 0.30 nT peak to peak for distances greater than 1 km or more (provided noise is not due to geological or cultural features).
Test Line Data	Radiometrics	If signals from the four spectrometer windows (K, Th, U, and TC) over the test line exceed by more than 12%, the flights shall be reflown or suspended.

Table 4: Contract re-flight specifications.

Due to rugged, steep terrain, and tall trees (of more than 40 m in height), C-GOHK could not maintain a nominal height of 35 m without compromising the safety of the flight crew. Hence, C-GOHK flew at a mean height of 49 m.

4.0 Aircraft and Equipment:

All geophysical and subsidiary equipment are carefully installed on Precision GeoSurvey's aircraft. For this survey, a magnetometer, spectrometer, a data acquisition system, base stations, laser altimeter, pilot guidance unit (PGU), and a GPS navigation system were required to carry out the survey and collect quality, high resolution data. The survey magnetometer was carried in an approved "stinger" configuration to enhance flight safety and improve data quality in this mountainous terrain.

4.1 Aircraft:

Precision GeoSurveys flew the blocks using a Eurocopter AS350 helicopter (Figure 8), registration C-GOHK. The survey lines were flown at a nominal line spacing of one hundred (100) meters and the tie lines were flown at 1 km spacing for both the magnetometer and spectrometer. The average survey elevation was 49 meters vertically above ground for both blocks.



Figure 8: Eurocopter AS350 equipped with mag stinger for magnetic data acquisition and internal spectrometer crystals for radiometric data acquisition.

4.2 Equipment:

4.2.1 AGIS:

The Airborne Geophysical Information System, AGIS, (Figure 9), is the main computer used in data recording, data synchronizing, displaying real-time QC data for the geophysical operator, and the generation of navigation information for the pilot and operator display system.



Figure 9: AGIS installed in the Eurocopter AS350.

The AGIS was manufactured by Pico Envirotec; therefore the system uses standardized Pico software and external sensors are connected to the system via RS-232 serial communication cables. The AGIS data format is easily converted into Geosoft or ASCII file formats by a supplied conversion program called PEIView. Additional Pico software allows for post real time magnetic compensation and survey quality control procedures.

4.2.2 Magnetometer:

The magnetometer used by Precision GeoSurveys is a Scintrex cesium vapor CS-3 magnetometer. The system was housed in a front mounted "stinger" (Figure 10). The CS-3 is a high sensitivity/low noise magnetometer with automatic hemisphere switching and a wide voltage range, the static noise rating for the unit is +/- 0.01 nT. On the AGIS screen the operator can view the raw magnetic response, the magnetic fourth difference, aircraft position, and the survey altitude for immediate QC of the magnetic data. The magnetic data are recorded at 10 Hz. A magnetic compensator is also used to remove noise created by the movement of the helicopter as it pitches, rolls and yaws within the Earth's geomagnetic field.



Figure 10: View of the mag stinger.

4.2.3 Spectrometer:

The IRIS, or Integrated Radiometric Information System is a fully integrated, gamma radiation detection system containing 16.8 litres of NaI (T1) downward looking crystals and 4.2 litres NaI (T1) upward looking crystals (Figure 11). The IRIS is equipped with upward-shielding high density RayShield® gamma-attenuating material to minimize cosmic and solar gamma noise. Real time data acquisition, navigation and communication tasks are integrated into a single unit that is installed in the rear of the aircraft as indicated below. Information such as total count, counts of various radioelements (K, U, Th, etc.), temperature, cosmic radiation, barometric pressure, atmospheric humidity and survey altitude can all be monitored on the AGIS screen for immediate QC. All the radiometric data are recorded at 1 Hz.

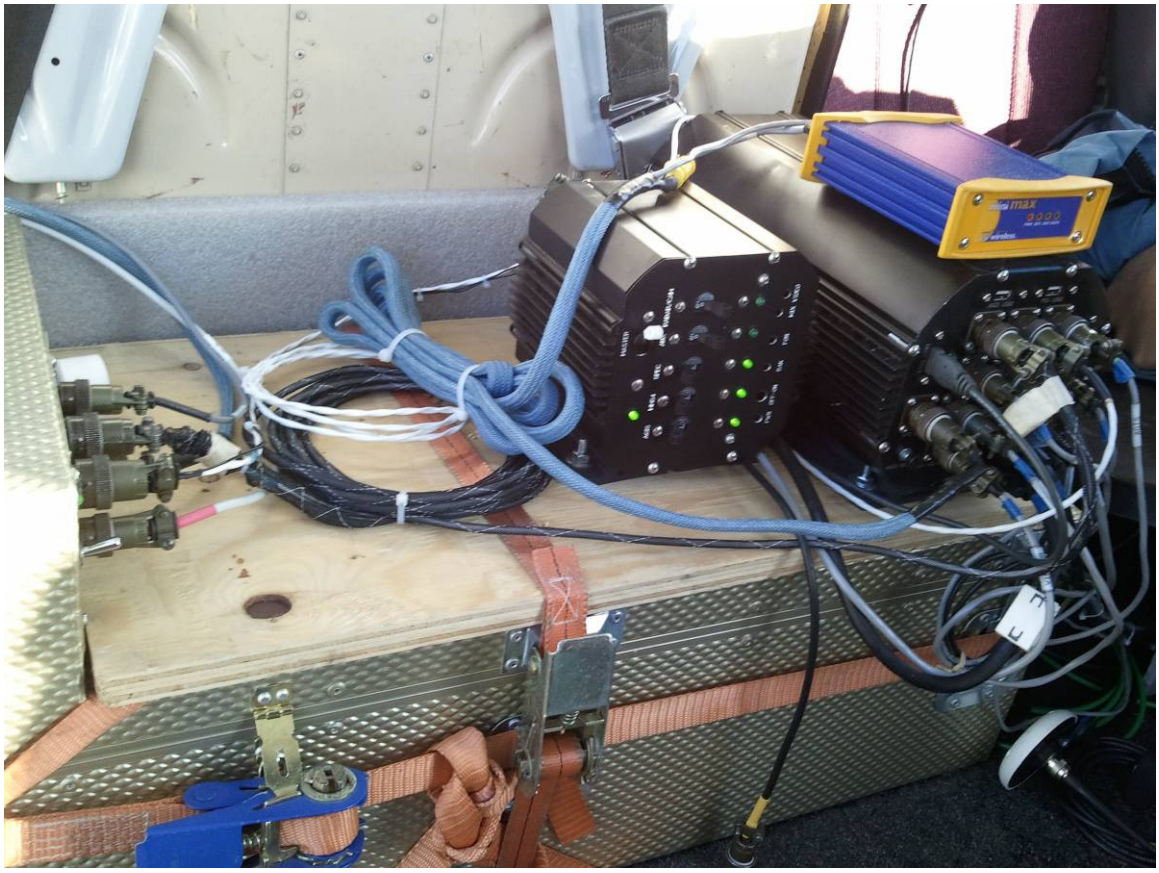


Figure 11: One of the IRIS strapped in the back seat of the Eurocopter AS350.

4.2.4 Base Station:

For monitoring and recording of the Earth's diurnal magnetic field variation, Precision GeoSurveys operates two magnetometer base stations continuously throughout the airborne data acquisition survey. Precision GeoSurveys operates two GEM GSM-19T magnetometer base stations. The base stations are installed mounted close to the survey blocks, and in an area with low magnetic gradient, as possible to give accurate magnetic field data. It is located in an area away from electric transmission power lines and moving ferrous objects, such as aircraft and motor vehicles that could affect the survey data integrity.

The GEM GSM-19T magnetometer with GPS (Figure 12) uses the proton precession technology sampling at a rate of 0.5 Hz. The GSM-19T has an accuracy of +/- 0.2 nT at 1 Hz. Base station data recorded in the solid-state memory of the base station, are downloaded onto a field laptop using GEMLink 5.0 software. Profile plots of the base station readings are generated and updated at the end of each survey day



Figure 12: GEM GSM-19T proton precession magnetometer.

4.2.5 Laser Altimeter:

The pilot is provided with terrain guidance and clearance information from an Acuity AccuRange AR3000 laser altimeter (Figure 13). This is attached at the aft end of the magnetometer boom. The AR3000 sensor is a time-of-flight sensor that measures distance by a rapidly-modulated and collimated laser beam that creates a dot on the target surface. The maximum range of the laser altimeter is 300 m off of natural surfaces with 90% reflectance and 3 km off special reflectors. Within the sensor unit, reflected signal light is collected by the lens and focused onto a photodiode. Through serial communications and analog outputs, the distance data are transmitted and collected by the AGIS at 10 Hz.



Figure 13: Acuity AccuRange AR3000 laser altimeter.

4.2.6 Pilot Guidance Unit:

The PGU (Pilot Guidance Unit) is a graphical display type unit that provides continuous steering and elevation information to the pilot (Figure 14). It is mounted remotely from the data system on top of the instrument panel. The PGU assists the pilot to keep the helicopter on the flight path and at the desired ground clearance.



Figure14: Pilot Guidance Unit.

The LCD monitor measures 7 inches, with a full VGA 800 x 600 pixel display. The CPU for the PGU is housed in the PC-104 console and uses Windows XP Embedded operating system control, with input from the GPS antenna, laser altimeter, and AGIS.

4.2.7 GPS Navigation System:

A Garmin GPS 16x-HVS navigation system integrated with the pilot display (PGU) and AGIS provided navigational information and control. The GPS 16x are complete GPS sensor with embedded receiver and antenna. It's capable of tracking multiple satellites at a time while providing fast time-to-first-fix, one-second navigation updates, and at low power consumption. This GPS sensor includes the capability of FAA Wide Area Augmentation System (WAAS) differential GPS.



Figure 15: Garmin GPS 16x navigation system.

The survey flight lines (coordinates) were programmed onto AGIS prior to the start of the survey and information will be displayed onto the pilot guidance unit (PGU) to provide airborne navigation.

5.0 Data Acquisition Equipment Checks and Calibration:

At the start of the survey, airborne equipment tests were conducted. There are three tests conducted for the airborne magnetometer: compensation flight, lag test, and the heading error test (clover leaf test). Gamma ray spectrometer checks and calibrations are also conducted prior to the start of the survey. The three tests conducted were the calibration pad test, cosmic flight test, and the Brekenridge test range.

5.1 Magnetometer Checks:

5.1.1 Compensation Flight Test:

During aeromagnetic surveying noise is introduced to the magnetic data by the aircraft itself. Movement in the aircraft (roll, pitch and yaw) and the permanent magnetization of the aircraft parts (engine and other ferric objects) are large contributing factors to this noise. To remove this noise a process called magnetic compensation is implemented. The magnetic compensation process starts with a test flight at the beginning of the survey where the aircraft flies in the four orthogonal headings required for the survey ($000^o/180^o$ and $090^o/270^o$ in the case of this survey) at an altitude (typically > 1,500 m AGL) where there is no ground effect in the magnetic data. In each heading, three specified roll, pitch,

and yaw maneuvers are performed by the pilot; these maneuvers provide the data that are required to calculate the necessary parameters for compensating the magnetic data.

5.1.2 Lag Test:

A lag test was performed to determine the relationship between the time the digital reading was recorded by the instrument and the time for the position fix that the fiducial of the reading was obtained by the GPS system.

The test was flown in the four orthogonal headings over an identifiable magnetic anomaly (ie.Truck, Trailer, etc.) at survey speed and height. A lag of 10 fiducials (1.0 seconds) was determined from the lag test.

5.1.3 Heading Error Test:

To determine the magnetic heading effect a cloverleaf pattern flight test was conducted. The cloverleaf test was flown in the same heading as the survey and tie lines at 300 m AGL in area with low magnetic gradient. For each direction, it must fly over a recognizable feature on the ground in order to calculate the heading error. For all four directions it must pass over the same mid-point all four times.

5.2 Gamma-ray Spectrometer Checks and Calibrations:

Pre-survey calibrations and testing of the GRS-10 airborne gamma-ray spectrometry system were carried out prior the start of the survey. The calibration of the spectrometer system involved three tests which enabled the conversion of airborne data to ground concentration of natural radioactive elements. These tests were the calibration pad test, cosmic flight test, and the Breckenridge test range. The measurements were made in accordance with IAEA technical report series No. 323, "Airborne Gamma Ray Spectrometer Surveying", and AGSO Record 1995/60, "A Guide to the Technical Specification for Airborne Gamma-Ray Surveys".

5.2.1 Calibration Pad Test:

The calibration pad test was conducted by Pico Envirotec at the GSC (Geological Survey of Canada) testing facility in Ottawa, Ontario over the approved GSC calibration pad. It is a slab of concrete containing known concentrations of the radioelements (K, Th, and U) and is ideally used to stimulate a geological source of radiation. The measurements collected from the calibration pad test are used to determine the Compton scattering and Grasty Backscatter (spectral overlap between element windows) coefficients.

5.2.2 Cosmic Flight Test:

As the height of the aircraft increases, radiation in each spectral window increases Caneastnentially due to the radiation of cosmic origin. Also, the background source of radiation from the aircraft itself is constant. The cosmic flight test is conducted to determine the aircraft background attenuation coefficients for the detector crystal packs and the cosmic coefficients.

The pilot is required to fly over the same location repeatedly in opposite directions starting from 1,500 m to 3,000 m at every 500 m interval for approximately 2 minutes each. Due to extremely high elevation in the survey area and low cloud cover, the test was not carried out within the survey area for safety reasons. Therefore, the standard values recommended for a single crystal pack were obtained from the IAEA Technical report.

5.2.3 Brekenridge Test Range:

The Brekenridge test range is very similar to the cosmic flight test but is conducted at lower elevations (from ground level). The pilot is required to fly over the same location at the following elevations in meters above ground; 30, 50, 100, 150, 200, 250, and 300. As the distance of the aircraft increases away from the radioactive source, the source signature Caneastnentially degrades. As a result, this test is used to determine the altitude attenuation coefficients and the radio-element sensitivity of the airborne spectrometer system.

6.0 Data Processing:

After all the data are collected from a survey flight several procedures are undertaken to ensure that the data meet a high standard of quality. All data were processed using Pico Envirotec software and Geosoft Oasis Montaj geophysical processing software.

6.1 Magnetic Processing:

Before any processing and editing of the raw magnetic data, the data obtained from the compensation flight test must be applied to the raw magnetic data. A computer program called PEIComp is used to create a model from the compensation flight test for each survey to remove the noise induced by aircraft movement; this model is applied to each survey flight so the data can be further processed.

Filtering is applied to the laser altimeter data to remove vegetation clutter and to show the actual ground clearance. To remove vegetation clutter a Rolling Statistic filter is applied to the laser altimeter data and a low pass filter is used to smooth out the laser altimeter profile to remove isolated noise. As a result, filtering the data will yield a more uniform surface in close conformance with the actual terrain.

The processing of the magnetic data involved the correction for diurnal variations. The base station data is edited, plotted and merged into a Geosoft (.gdb) database daily. The airborne magnetic data are corrected for diurnal variations by subtracting the observed

magnetic base station deviations. Following the diurnal correction, a lag correction is applied. A lag correction of 1.0 seconds was applied to the total magnetic field data to compensate for the lag in the recording system as the magnetometer sensor flies 5.70 m ahead of the GPS antenna. Lastly, a heading correction was applied to the data.

Some filtering of the magnetic data is also required. A Non Linear filter was used for spike removal. The 1D Non-Linear Filter is ideal for removing very short wavelength, but high amplitude features from data. It is often thought of as a noise spike-rejection filter, but it can also be effective for removing short wavelength geological features, such as signals from surficial features. The 1D Non-Linear Filter is used to locate and remove data that is recognized as noise. The algorithm is 'non- linear' because it looks at each data point and decides if that datum is noise or a valid signal. If the point is noise, it is simply removed and replaced by an estimate based on surrounding data points. Parts of the data that are not considered noise are not modified. The combination of a Non-Linear filter for noise removal and a low pass trend enhancement filter resulted in level data as indicated in the results section of this report. The low pass filter smooths out the magnetic profile to remove isolated noise.

The corrected magnetic data from the survey and tie lines were used to level the entire survey dataset. Two forms of leveling are applied to the corrected data: conventional leveling and micro-leveling. There are two components to conventional leveling; the first involves statistical leveling of magnetic data to correct miss ties (intersection errors) followed by specific patterns or trends. For the second component, tie lines are brought to a common regional base value using the mean value of the cross-level error. To obtain the best possible leveled data, individual corrections are edited at selected intersections. Lastly, micro-leveling is applied to the corrected conventional leveled data. This will remove any residual noise related to flight line direction, and any low amplitude component of flight line noise, that still remains in the data after tie line leveling.

6.2 Radiometric Processing:

Calibrating the spectrometer system in the helicopter is the first and vital step before the airborne radiometric data can be processed. Once calibration of the system has been complete, the radiometric data are processed by windowing the full spectrum to create channels for U, K, Th and total count. A 5-point Hanning filter was applied to the Cosmic window before going any further with processing the radiometric data.

Aircraft background and cosmic stripping corrections were applied to all three elements, and total count using the following formula:

$$C_{ac} = C_{lt} - (a_c + b_c * \mathrm{Cos}_f)$$

where: C_{ac} is the background and cosmic corrected channel
C_{lt} is the live time corrected channel
a_c is the aircraft background for this channel
b_c is the cosmic stripping coefficient for this channel
Cos_f is the filtered cosmic channel

The radon backgrounds are first removed followed by Compton stripping. Spectral overlap corrections are applied on to potassium, uranium, and thorium as part of the Compton stripping process. This is done by using the striping ratios that have been calculated for the spectrometer by prior calibration, this breaks the corrected elemental values down into the apparent radioelement concentrations. Lastly, attenuation corrections are applied to the data which involves nominal survey altitude corrections, in this case 49 metres is applied to total count, potassium, uranium, and thorium data.

With all corrections applied to the radiometric data, the final step is to convert the corrected potassium, uranium, and thorium to apparent radioelement concentrations using the following formula:

$$eE = C_{cor} / s$$

where: eE is the element concentration K(%) and equivalent element concentration of U(ppm) & Th(ppm)
s is the experimentally determined sensitivity
Ccor is the fully corrected channel

Finally, the natural air absorption dose rate is determined using the following formula:

$$E = 13.08 * K + 5.43 * eU + 2.69 * eTh$$

where: E is the absorption dose rate in nG/h
K is the concentration of potassium (%)
eU is the equivalent concentration of uranium (ppm)
eTh is the equivalent concentration of thorium (ppm)

To calculate for radiometric ratios it follows the guidelines in the IAEA report. Due to statistical uncertainties in the individual radioelement measurements, some care was taken in the calculation of the ratio in order to obtain statistically significant values. Following IAEA guidelines, the method of determining ratios of the eU/eTh, eU/K and eTh/K was as follows:

1. Any data points where the potassium concentration was less than 0.25 were neglected.
2. The element with the lowest corrected count rate was determined.

3. The element concentrations of adjacent points on either side of each data point were summed until they exceeded a certain threshold value. This threshold was set to be equivalent to 100 counts of the element with the lowest count rate. Additional minimum thresholds of 1.6% for Potassium, 20 ppm for thorium, and 30 ppm for uranium were set up to insure meaningful ratios.
4. The ratios were calculated using the accumulated sums.

With this method, the errors associated with the calculated ratios will be similar for all data points.

7.0 Deliverables:

All digital data will be presented on a compact disc (CD) and a copy of the logistic report and maps will be printed out. The survey data are presented as digital databases, maps, and report.

7.1 Digital Data:

The file format will be provided in two (2) formats, the first will be a .GDB file for use in Geosoft Oasis Montaj, the second format will be a .XYZ file, this is text file. A complete file provided in each format will contain both magnetic and radiometric data. Full description of the digital data and contents are included into the report (Appendix B).

The digital data are represented into grids. The following grids prepared for the Caneast block are listed below:

- Digital terrain model (DTM)
- Leveled total magnetic intensity (TMI)
- Calculated vertical gradient (CVG) - first vertical derivative
- Potassium (Kcor) - radiometric data in concentrations
- Thorium (Thcor) - radiometric data in concentrations
- Uranium (Ucor) - radiometric data in concentrations
- Total count (TCcor) – radiometric data in concentrations
- Total count (TCexp) – radiometric data in exposure rate
- Thorium over Potassium ratio (eTh/%K ratio) – radiometric ratios
- Uranium over Potassium ratio (eU/%K ratio) – radiometric ratios
- Uranium over Thorium ratio (eU/%Th ratio) – radiometric ratios

7.2 KMZ Grids:

The digital data represented into grids are exported into kmz files which can be displayed using Google Earth. The grids are laid overtop topography and rendered to give a 3D view.

7.3 Maps:

Maps were created for the Caneast block at a scale of 1:13600. The following map products prepared are listed below:

Magnetic Maps (colour images with elevation contour lines):

- Digital terrain model
- Flight lines
- Total magnetic intensity
- Total magnetic intensity with plotted flight lines
- Calculated vertical gradient

Gamma-ray Spectrometry Maps (colour images with elevation contour lines):

- Potassium – equivalent concentration
- Thorium – equivalent concentration
- Uranium – equivalent concentration
- Total Count – equivalent dose rate
- Total Count (exp) – Exposure rate of SUM(%k, eU, eTh) * determined factors
- Thorium over Potassium ratio
- Uranium over Potassium ratio
- Uranium over Thorium ratio

All maps created were in prepared in World Geodetic System 84 (WGS 84) datum, and UTM zone 9N.

7.4 Report:

The report provides information about the acquisition, procedures, magnetic and radiometric processing, and presentation of the Caneast block survey data. A pdf copy of the report is included along with the digital data and maps that are provided on the CD report.

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Appendix A

Equipment Specifications

- GEM GSM-19T Proton Precession Magnetometer (Base Station)
- Garmin GPS 16x-HVS
- Scintrex CS-3 Survey Magnetometer
- Bartington Mag-03 three-axis fluxgate magnetic field sensor
- Pico Envirotec GRS-10 Gamma Spectrometer
- Pico Envirotec AGIS data recorder system (for Navigation, Gamma spectrometer, VLF-EM and Magnetometer Data Acquisition)

GEM GSM-19T Proton Precession Magnetometer (Base Station)

Configuration Options	15
Cycle Time	999 to 0.5 sec
Environmental	-40 to 60 ° Celsius
Gradient Tolerance	7,000 nT/m
Magnetic Readings	299,593
Operating Range	10, 000 to 120,000 nT
Power	12 V @ 0.62 A
Sensitivity	0.1 nT @ 1 sec
Weight (Console/ Sensor)	3.2 Kg
Integrated GPS	Yes

Garmin GPS 16x-HVS

Receiver	WAAS enabled GPS receiver continuously tracks and uses multiple satellites to compute and update position	
Acquisition Times	Reacquisition: Less than 2 secs Hot: Approx. 1 sec (all data known) Warm: Approx. 38 secs (initial position, time, and almanac known; ephemeris unknown Cold: Approx 45 secs	
Sentence Rate	1 sec default; NMEA 0183 output interval configurable from 1 to 900 secs in 1-sec increment	
Interfaces	True RS-232 output, asynchronous serial input compatible with RS-232 or TTL voltage levels, RS-232 polartiy. User selectable baud rate: 4800, 9600, 19200, or 38400	
Accuracy	GPS Standard Positioning Service (SPS)	Position: <15 meters, 95% typical Velocity: 0.1 knot RMS steady state
	DGPS (USCG/RTCM)	Position: 3-5 meters, 95% typical Velocity: 0.1 knot RMS steady state
	DGPS (WAAS)	Position: <3 meters, 95% typical Velocity: 0.1 knot RMS steady state
	PPS Time	± Microsecond at rising edge of PPS pulse
	Dynamic	999 knots velocity (only limited at altitude greater than 60,000 feet, 3g dynamics

Scintrex CS-3 Survey Magnetometer

Operating Principal	Self-oscillation split-beam Cesium Vapor (non-radioactive Cs-133)
Operating Rage	15,000 to 105,000 nT
Gradient Tolerance	40,000 nT/metre
Operating Zones	10° to 85° and 95° to 170°
Hemisphere Switching	a) Automatic b) Electronic control actuated by the control voltage levels (TTL/CMOS) c) Manual
Sensitivity	0.0006 nT √Hz rms.
Noise Envelope	Typically 0.002 nT P-P, 0.1 to 1 Hz bandwidth
Heading Error	+/- 0.25 nT (inside the optical axis to the field direction angle range 15° to 75° and 105° to 165°)
Absolute Accuracy	<2.5 nT throughout range
Output	a) continuous signal at the Larmor frequency which is proportional to the magnetic field (proportionality constant 3.49857 Hz/nT) sine wave signal amplitude modulated on the power supply voltage b) square wave signal at the I/O connector, TTL/CMOS compatible
Information Bandwidth	Only limited by the magnetometer processor used
Sensor Head	Diameter: 63 mm (2.5”) Length: 160 mm (6.3”) Weight: 1.15 kg (2.6 lb)
Sensor Electronics	Diameter: 63 mm (2.5”) Length: 350 mm (13.8”) Weight: 1.5 kg (3.3 lb)
Cable, Sensor to Sensor Electronics	3m (9’ 8”), lengths up to 5m (16’ 4”) available
Operating Temperature	-40°C to +50°C
Humidity	Up to 100%, splash proof
Supply Power	24 to 35 Volts DC
Supply Current	Approx. 1.5A at start up, decreasing to 0.5A at 20°C
Power Up Time	Less than 15 minutes at -30°C

Bartington Mag-03 three-axis fluxgate magnetic field sensor

Number of axes	3
Bandwidth	0 to 3kHz at 50µT peak
Internal Noise: **Basic version** **Standard version** **Low Noise version**	 >10 to 20pTrms/√Hz at 1Hz 6 to ≤10pTrms/√Hz at 1Hz <6pTrms/√Hz at 1Hz
Scaling error (DC)	<±0.5%
Orthogonality error	<0.1°
Alignment error (Z axis to reference face)	<0.1°
Linearity error	<0.0015%
Frequency response	0 to 1kHz maximally flat, ±5% maximum at 1kHz
Input voltage	±12V to ±17V
Supply current	+30mA, -10mA (+1.4mA per 100µT for each axis)
Power supply rejection ratio	5µV/V (-106dB)
Analog output	±10V (±12V supply) swings to within 0.5V of supply voltage
Output impedance	10 Ω
Operating temperature range	-40°C to +70°C
Environmental protection	IP51
Dimensions (W x H x L)	32 x 32 x 152mm
Weight	160g
Enclosure material	Reinforced epoxy
Connector	ITT Cannon DEM-9P-NMB
Mating connector	ITT Cannon DEM-9S-NMB
Mounting	2 x M5 fixing holes

Pico Envirotec GRS-10 Gamma Spectrometer

Crystal volume	16.8 liters downward plus 4.2 liters upward
Resolution	256/512 channels
Tuning	Automatic using peak determination algorithm
Detector	Digital Peak
Calibration	Fully automated detector
Real Time	Linearization and gain stabilization
Communication	RS232
Detectors	Expandable to 10 detectors and digital peak
Count Rate	Up to 60,000 cps per detector
Count Capacity per channel	65545
Energy detection range:	36 KeV to 3 MeV
Cosmic channel	Above 3 MeV
Upward Shielding	RayShield® non-radioactive shielding on downward looking crystals
Downward Shielding	6mm lead plate on upward looking crystals
Spectra	Collected spectra of 256/512 channels, internal spectrum resolution 1024
Software	**Calibration:** High voltage adjustment, linearity correction coefficients calculation, and communication test support **Real Time Data Collection:** Automatic Gain real time control on natural isotopes, and PC based test and calibration software suite
Sensor	Each box containing two (2) gamma detection NaI(Tl) crystals – each 4.2 liters. (256 cu in.) (approx. 100 x 100 x 650 mm) Total volume of approx 8.4 litres or 512 cu in with detector electronics
Spectra Stabilization	Real time automatic corrections on radio nuclei: Th, Ur, K. No implanted sources.

Pico Envirotec AGIS data recorder system
(for Navigation, Gamma spectrometer, VLF-EM and Magnetometer Data Acquisition)

Functions	Airborne Geophysical Information System (AGIS) with integrated Global Positioning System Receiver (GPS) and all necessary navigation guidance software. Inputs for geophysical sensors - portable gamma ray spectrometer GRS-10, MMS4 Magnetometer, Totem 2A EM, A/D converter, temperature probe, humidity probe, barometric pressure probe, and laser altimeter. Output for the 2 line Pilot Indicator
Display	Touch screen with display of 800 x 600 pixels; customized keypad and operator keyboard. Multi-screen options for real-time viewing of all data inputs, fiducial points, flight line tracking, and GPS channels by operator.
GPS Navigation	Garmin 12-channel, WAAS-enabled
Data Sampling	Sensor dependent
Data Synchronization	Synchronized to GPS position
Data File	PEI Binary data format
Storage	80 GB
Supplied Software	**PEIView:** Allows fast data Quality Control (QC) **Data Format:** Geosoft GBN and ASCII output **PEIConv**: For survey preparation and survey plot after data acquisition
Software	**Calibration:** High voltage adjustment, linearity correction coefficients calculation, and communication test support **Real Time Data Collection:** Automatic Gain real time control on natural isotopes and PC based test and calibration software suite
Power Requirements	24 to 32 VDC
Temperature	Operating:-10 to +55 deg C; storage:-20 to +70 deg C

Appendix B

Digital File Descriptions

- Magnetic database description
- Radiometric database description
- Grids
- Maps

Magnetic Database:

Abbreviations used in the GDB files listed below:

Channel	Units	Description
X	m	UTM Easting - WGS84 Zone 9 North
Y	m	UTM Northing - WGS84 Zone 9 North
Lat_deg	deg	Latitude
Long_deg	deg	Longitude
LineNo		Line number
FLT		Flight number
Date	yyyy/mm/dd	Date(s) of survey flight(s)
Galt	m	GPS height - WGS84 Zone 9 North
Lalt	m	Laser Altimeter readings
DTM	m	Digital Terrain Model
GPStime	Hours:min:secs	GPS time (UTC)
basemag	nT	Base station diurnal data
Mag	nT	Total Magnetic Intensity

Radiometric Database:

Abbreviations used in the GDB files listed below:

Channel	Units	Description
X	m	UTM Easting - WGS84 Zone 9 North
Y	m	UTM Northing - WGS84 Zone 9 North
Galt	m	GPS height - WGS84 Zone 9 North
Lalt	m	Laser Altimeter readings
DTM	m	Digital Terrain Model
BaroSTP_Kp	KiloPascal	Barometric Altitude (Pres and Temp Corrected)
Press_kP	KiloPascal	Atmospheric Pressure
Temp_degC	Degrees C	Air Temperature
COSFILT	counts/sec	Spectrometer - Filtered Cosmic
TCcor	µR	Dose Rate Equivalent
TCexp	µR/hour	Caneastsure Rate - SUM(%k, eU, eTh) * determined factors
Kcor	%	Equivalent Concentration - Potassium
Ucor	ppm	Equivalent Concentration - Uranium
Thcor	ppm	Equivalent Concentration - Thorium
THKratio		Spectrometer - eTh/%K ratio
UKratio		Spectrometer - eU/%K ratio
UTHratio		Spectrometer - eU/eTh ratio
Date	yyyy/mm/dd	Dates of the survey flight(s)
FLT		Flight numbers
LineNo		Line number

Grids: WGS84 Datum, Zone 9N

File Name	Description
Caneast_Block_DTM	Caneast block digital terrain model
Caneast_Block_TMI.grd	Caneast block total magnetic intensity
Caneast_Block_CVG.grd	Caneast block calculated vertical gradient
Caneast_Block_Kcor_EquivalentConcentration_Radiometric.grd	Caneast block potassium (Kcor) equivalent concentration
Caneast_Block_Thcor_EquivalentConcentration_Radiometric.grd	Caneast block Thorium (Thcor) equivalent concentration
Caneast_Block_Ucor_EquivalentConcentration_Radiometric.grd	Caneast block Uranium (Ucor) equivalent concentration
Caneast_Block_TCcor_EquivalentDoseRate_Radiometric.grd	Caneast block Total Count (TCcor) equivalent dose rate
Caneast_Block_TCexp_ExposureRate_Radiometric.grd	Caneast block Total Count (TCexp) exposure rate
Caneast_Block_THKratio_Radiometric.grd	Caneast block thorium over potassium ratio (eTh/%K)
Caneast_Block_UKratio_Radiometric.grd	Caneast block uranium over potassium ratio (eU/%K)
Caneast_Block_UThratio_Radiometric.grd	Caneast block uranium over thorium ratio (eU/eTh)

Maps: WGS84 Datum, Zone 9N

File Name	Description
Caneast_Block_DTM.pdf	Caneast block digital terrain model
Caneast_Block_FlightLines.pdf	Caneast block flight lines flown
Caneast_Block_TMI.pdf	Caneast block total magnetic intensity
Caneast_Block_TMI_with_Flightlines.pdf	Caneast block total magnetic intensity with flight lines flown
Caneast_Block_CVG. pdf	Caneast block calculated vertical gradient
Caneast_Block_Kcor_EquivalentConcentration_Radiometrics. pdf	Caneast block potassium (Kcor) equivalent concentration
Caneast_Block_Thcor_EquivalentConcentration_ Radiometrics. pdf	Caneast block Thorium (Thcor) equivalent concentration
Caneast_Block_Ucor_EquivalentConcentration_ Radiometrics. pdf	Caneast block Uranium (Ucor) equivalent concentration
Caneast_Block_TCcor_EquivalentDoseRate_Radiometrics. pdf	Caneast block Total Count (TCcor) equivalent dose rate
Caneast_Block_TCexp_ExposureRate_Radiometrics.pdf	Caneast block Total Count (TCexp) Caneastsure rate
Caneast_Block_Thorium_over_Potassium_Ratio_Radiometrics.pdf	Caneast block thorium over potassium ratio
Caneast_Block_ Uranium_over_Potassium_Ratio _Radiometrics. pdf	Caneast block uranium over potassium ratio
Caneast_CVG_ Uranium_over_Thorium_Ratio _Radiometrics. pdf	Caneast block uranium over thorium ratio

Appendix C

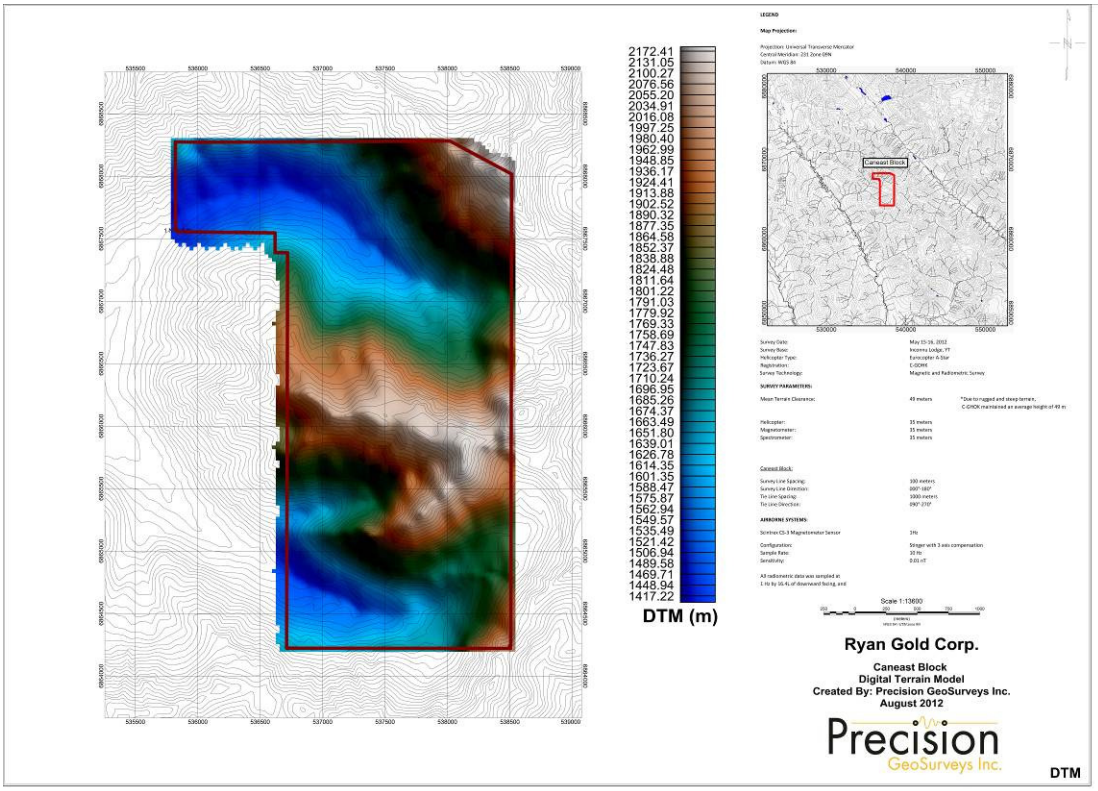
Caneast Block Maps

Magnetic Maps (colour image with elevation contour lines):

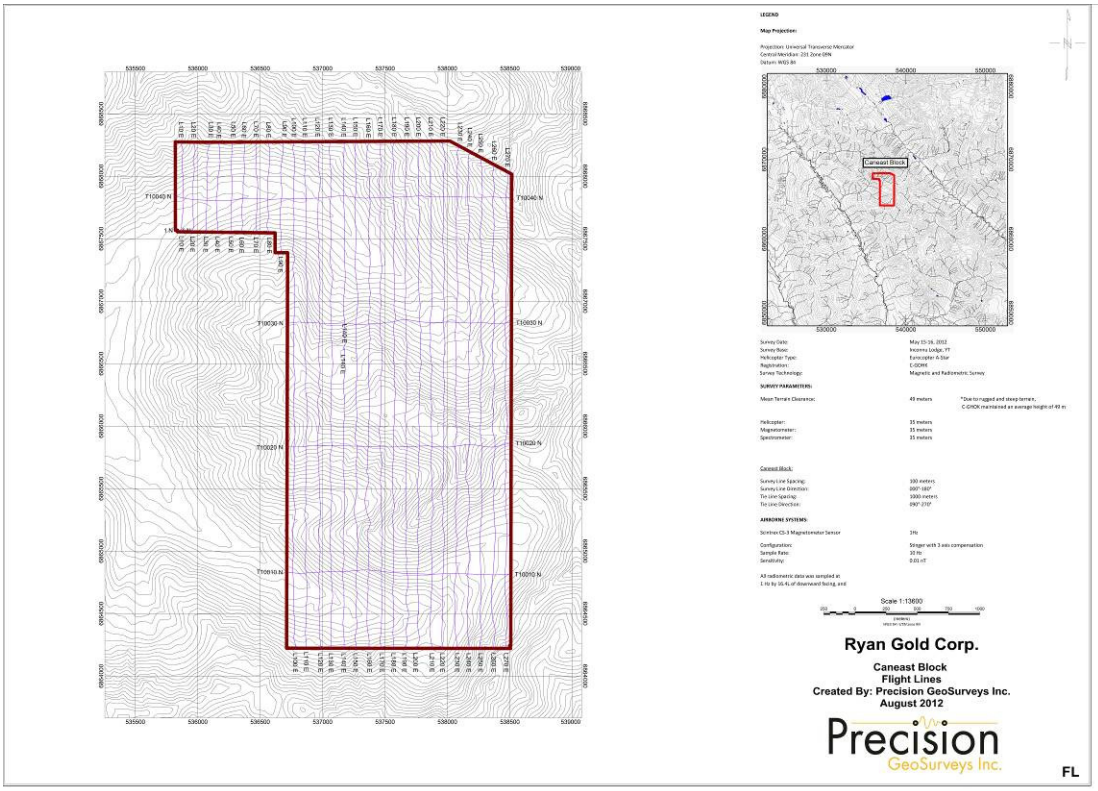
- Digital Terrain Model (DTM)
- Flight lines map
- Total Magnetic Intensity (TMI)
- Total Magnetic Intensity (TMI) with flight lines
- Calculated Vertical Gradient (CVG)

Gamma-Ray Spectrometry Maps (colour image with elevation contour lines):

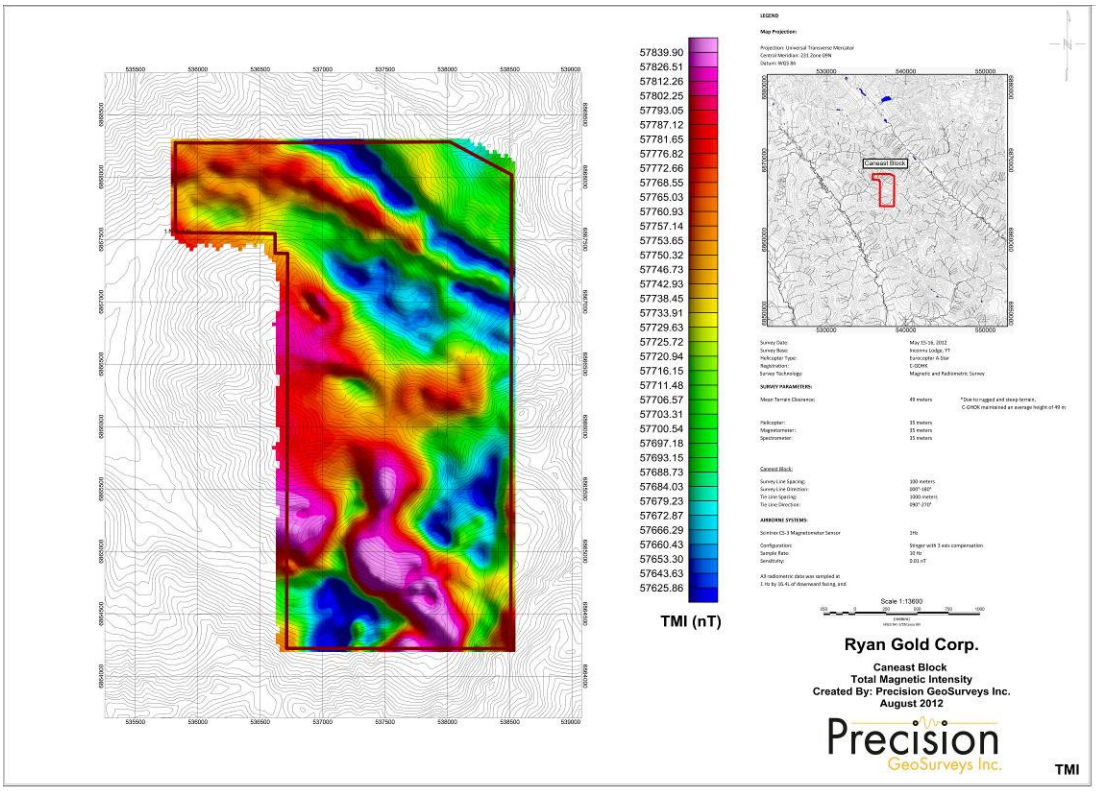
- Potassium – Equivalent Concentration (% K)
- Thorium – Equivalent Concentration (eTh)
- Uranium – Equivalent Concentration (eU)
- Total Count – Dose Rate Equivalent (TC)
- Total Count - Exposure Rate - SUM(%k, eU, eTh) * determined factors
- Thorium over Potassium Ratio - Spectrometer - eTh/%K ratio
- Uranium over Potassium Ratio - Spectrometer - eU/%K ratio
- Uranium over Thorium Ratio - Spectrometer - eU/eTh ratio



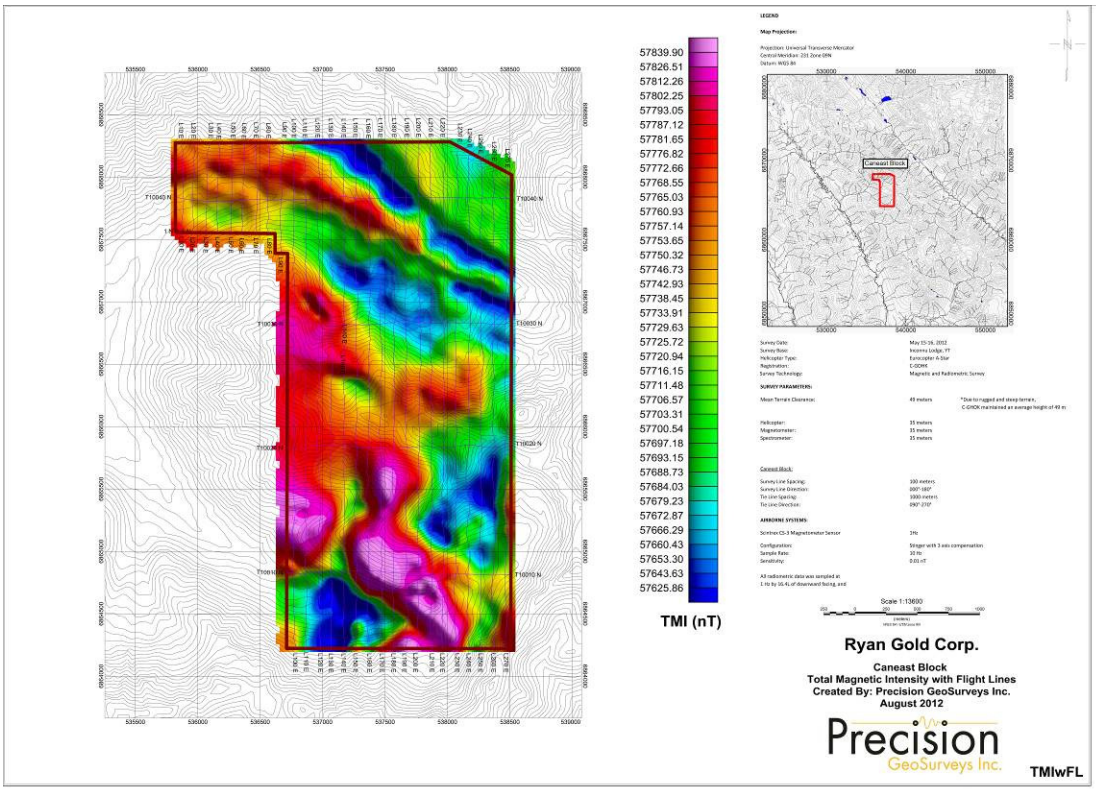
Map 1: Caneast block digital terrain model.



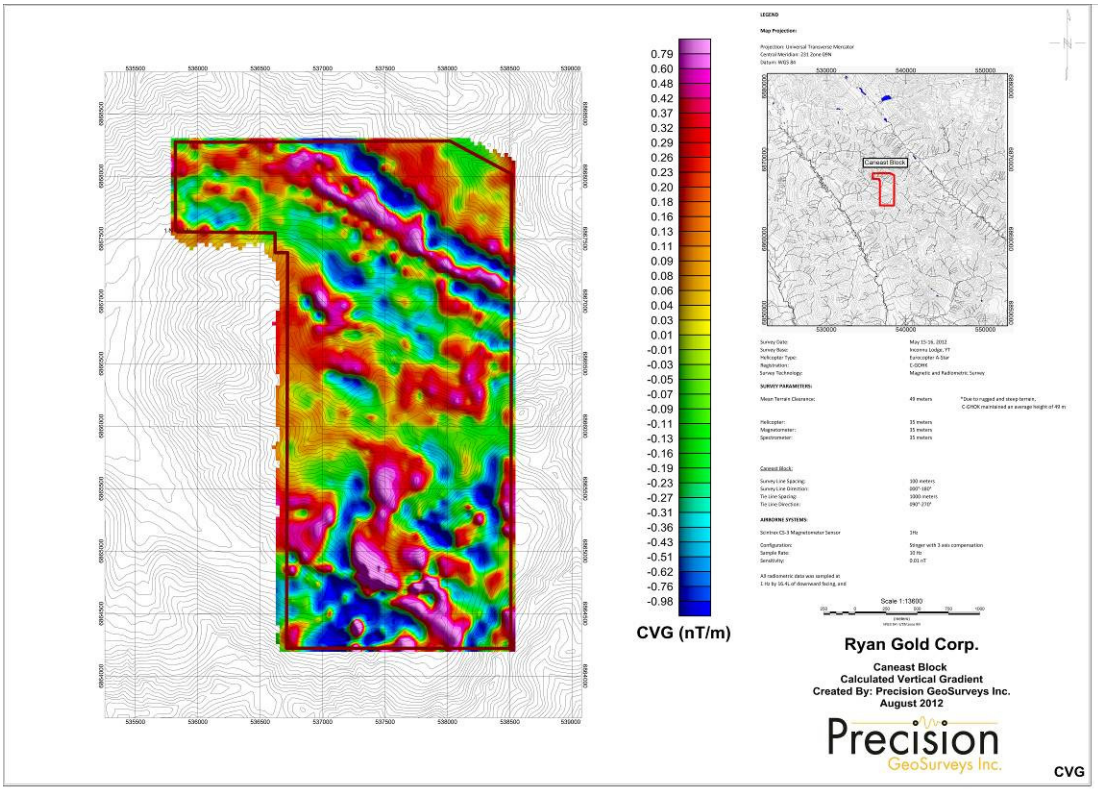
Map 2: Caneast block flight lines.



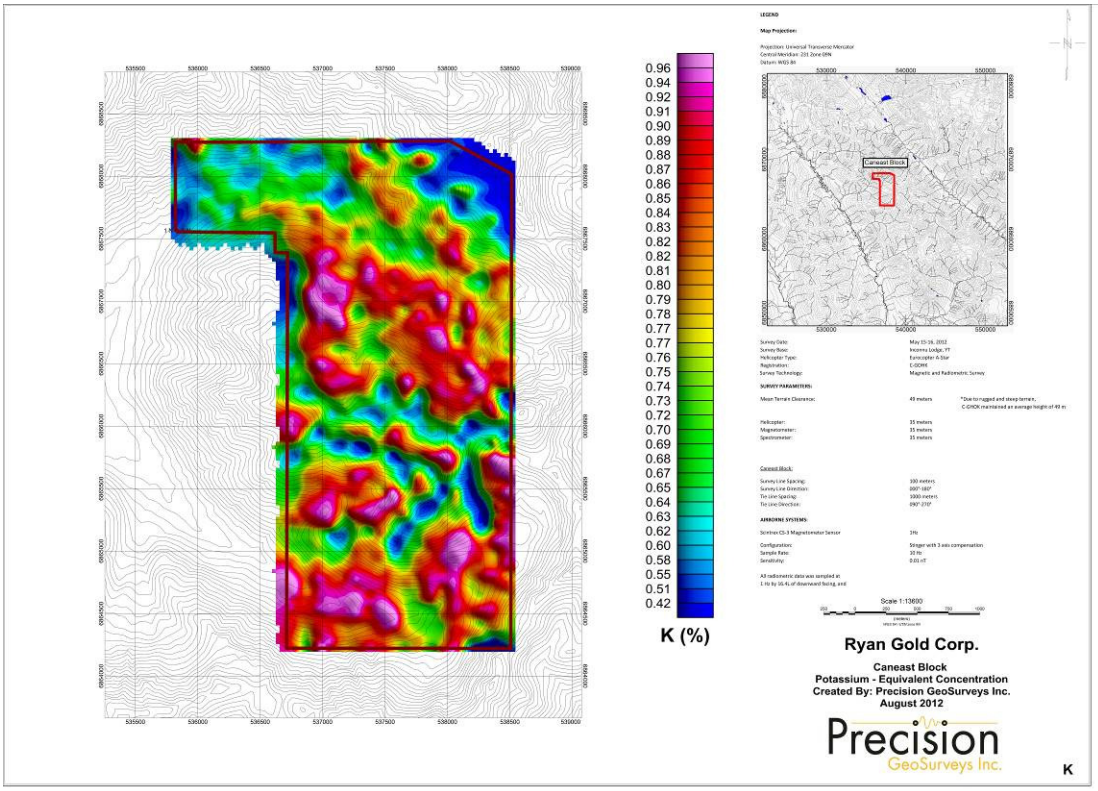
Map 3: Caneast block total magnetic intensity.



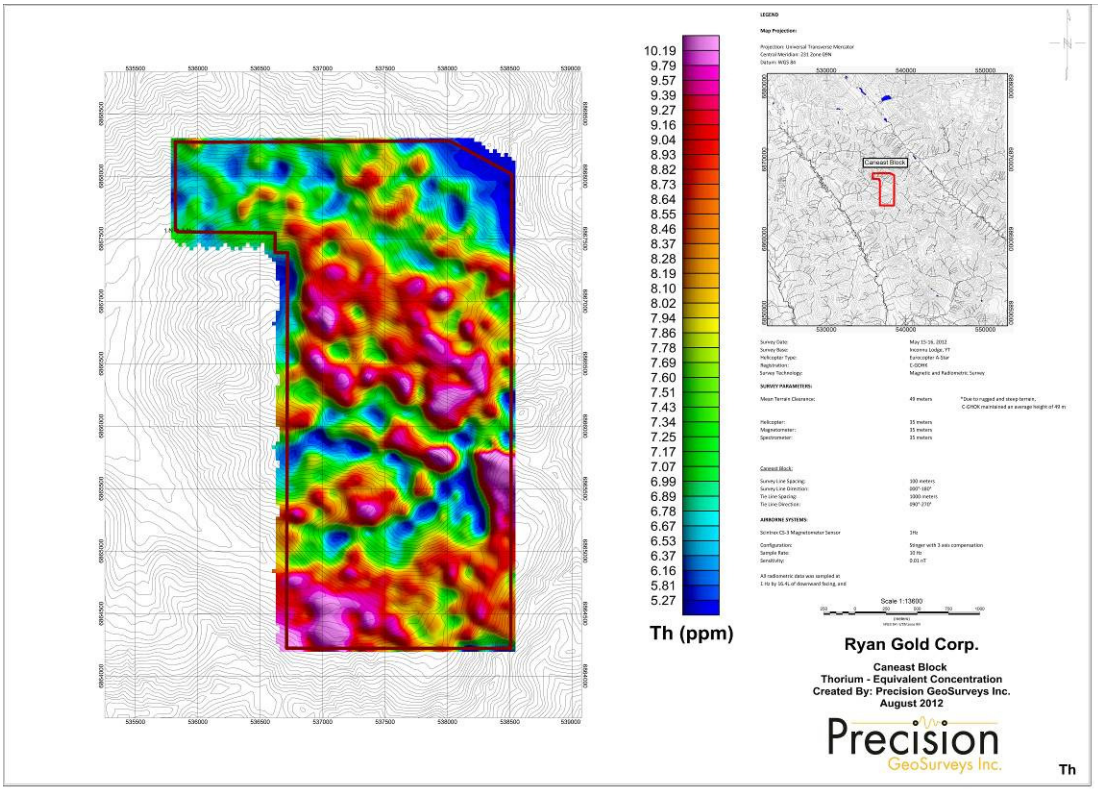
Map 4: Caneast block total magnetic intensity with plotted flight lines.



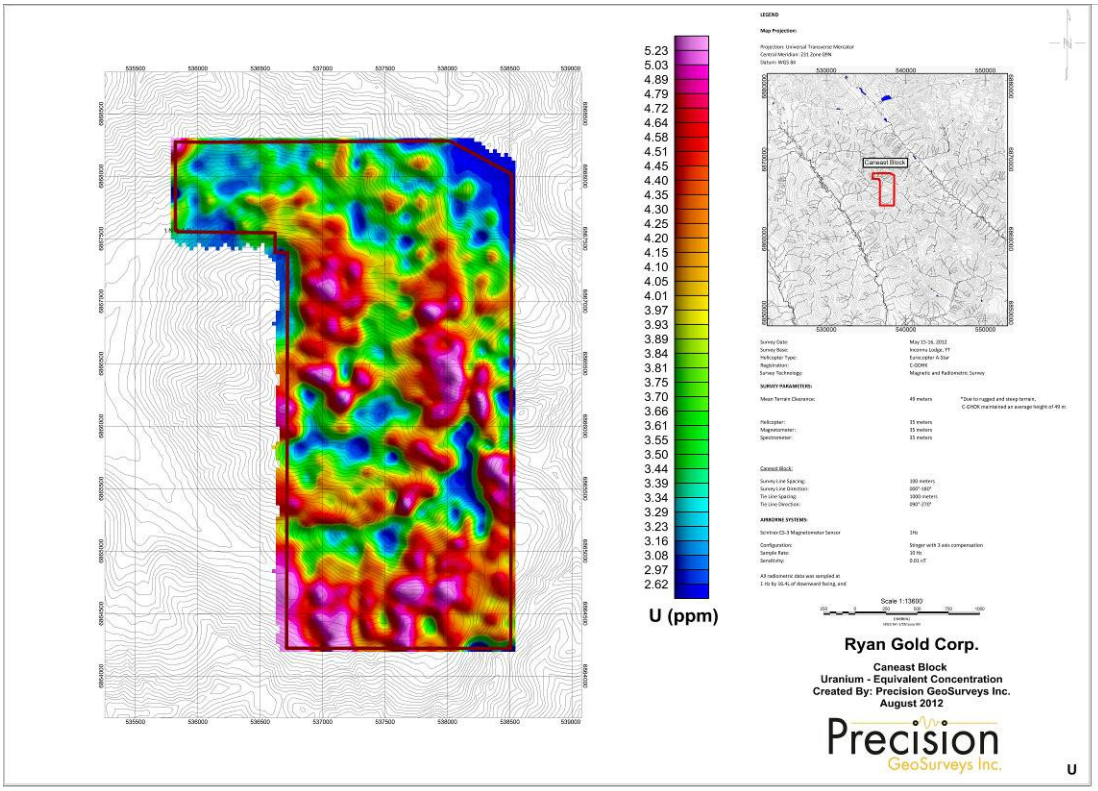
Map 5: Caneast block calculated vertical gradient.



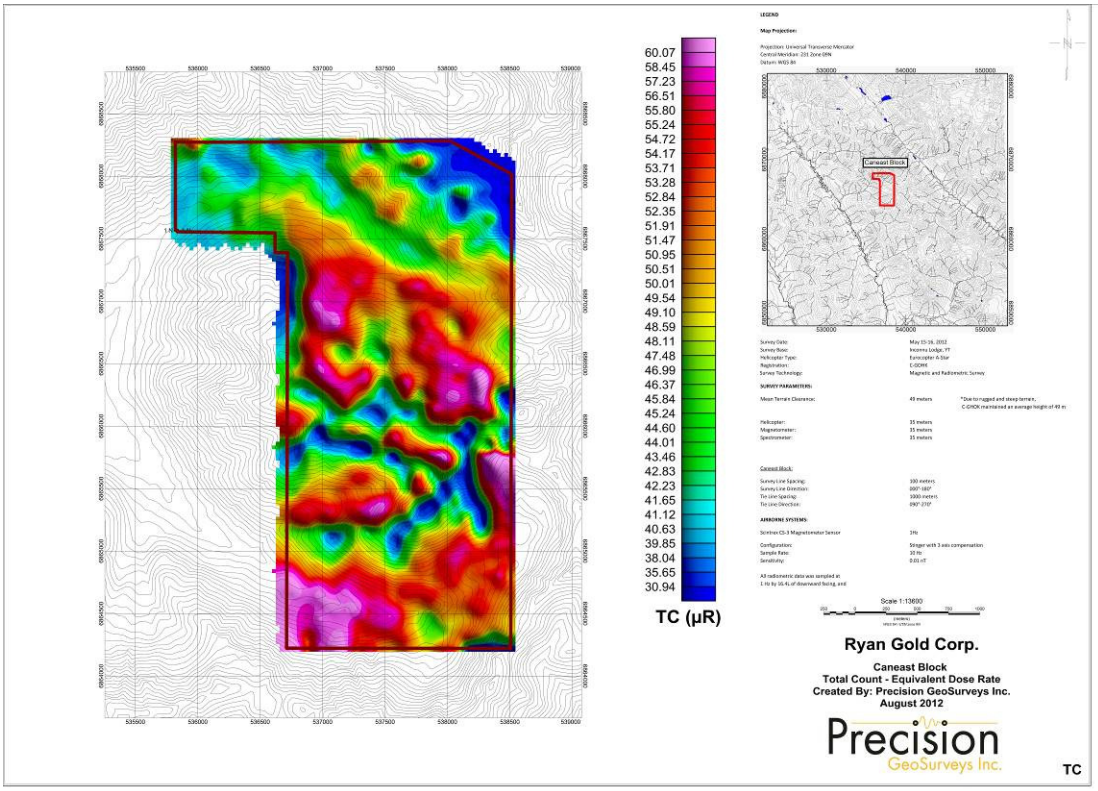
Map 6: Caneast block potassium – equivalent concentration.



Map 7: Caneast block thorium – equivalent concentration.

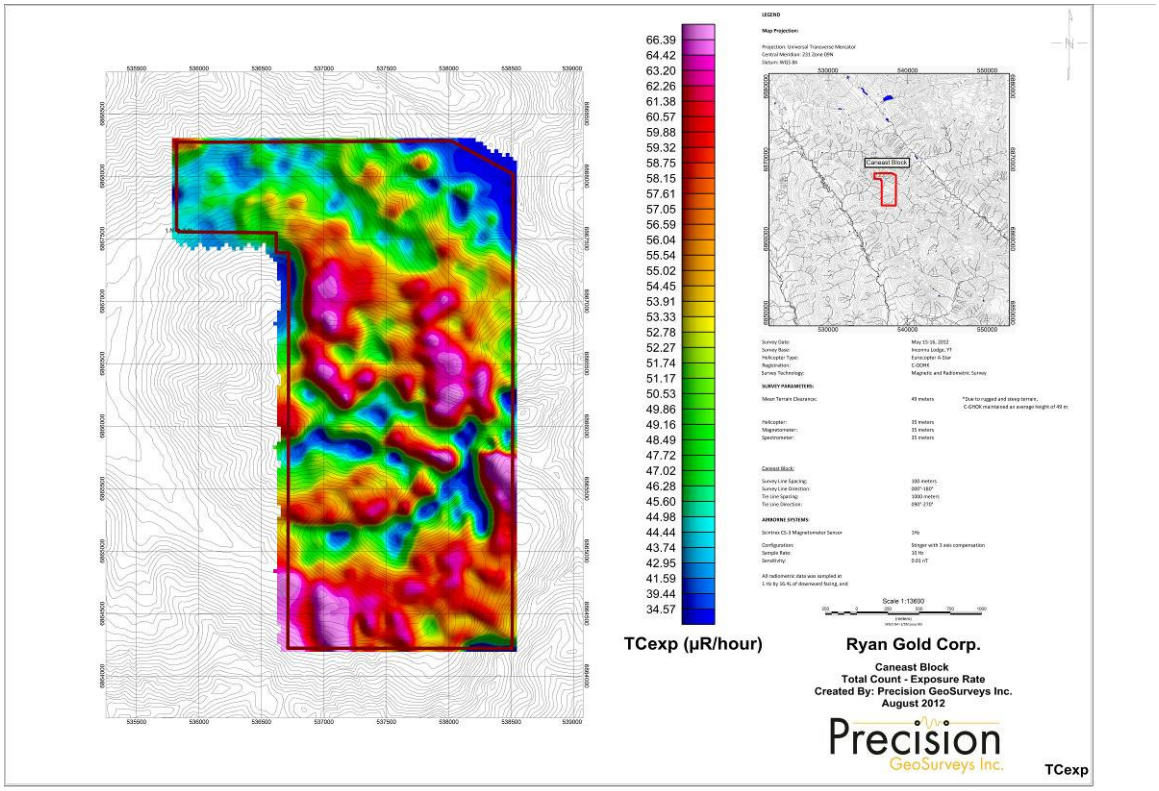


Map 8: Caneast block uranium – equivalent concentration.



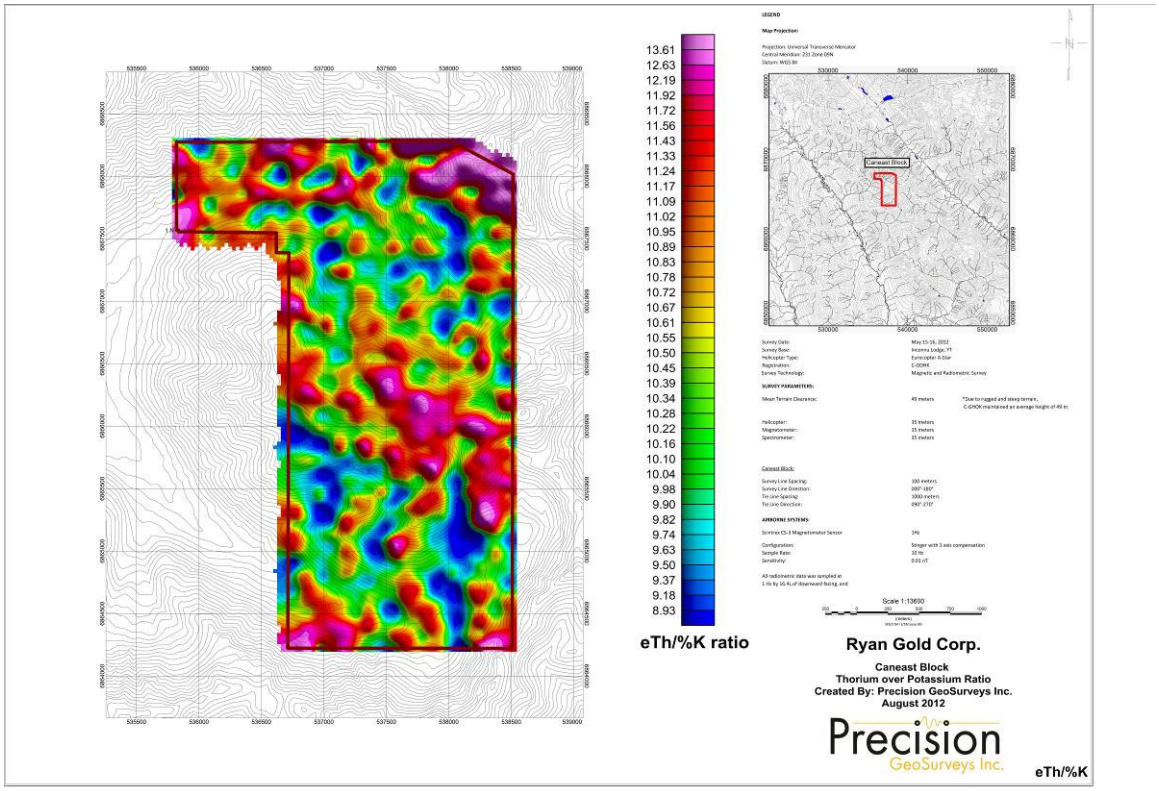
Map 9: Caneast block total count – equivalent dose rate.

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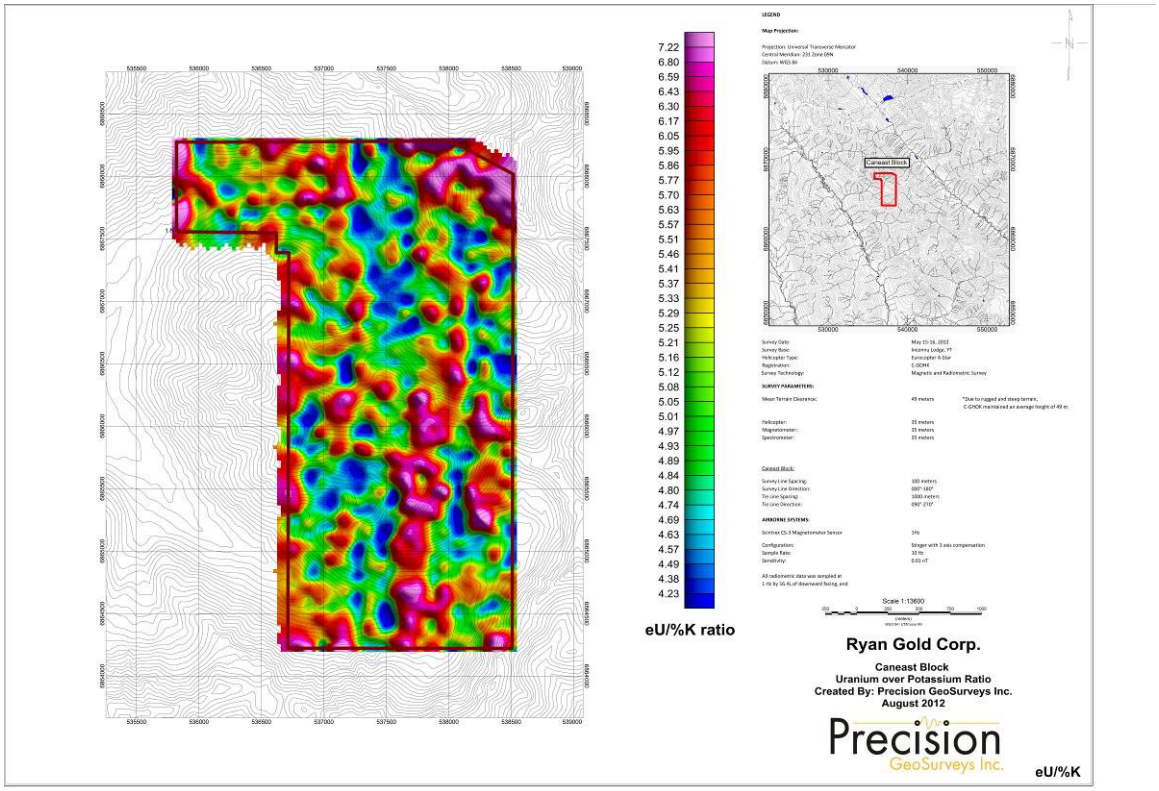
Map 10: Caneast block total count – Exposure rate.

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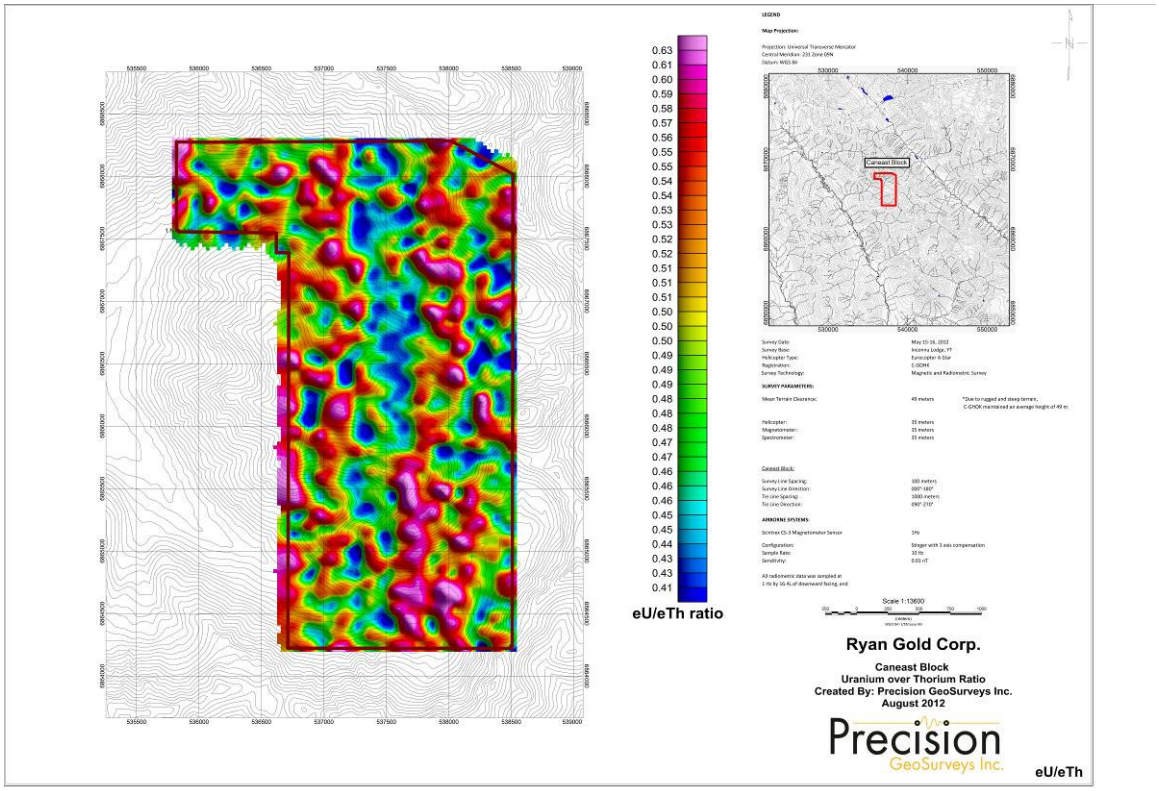


Map 11: Caneast block thorium over potassium ratio.

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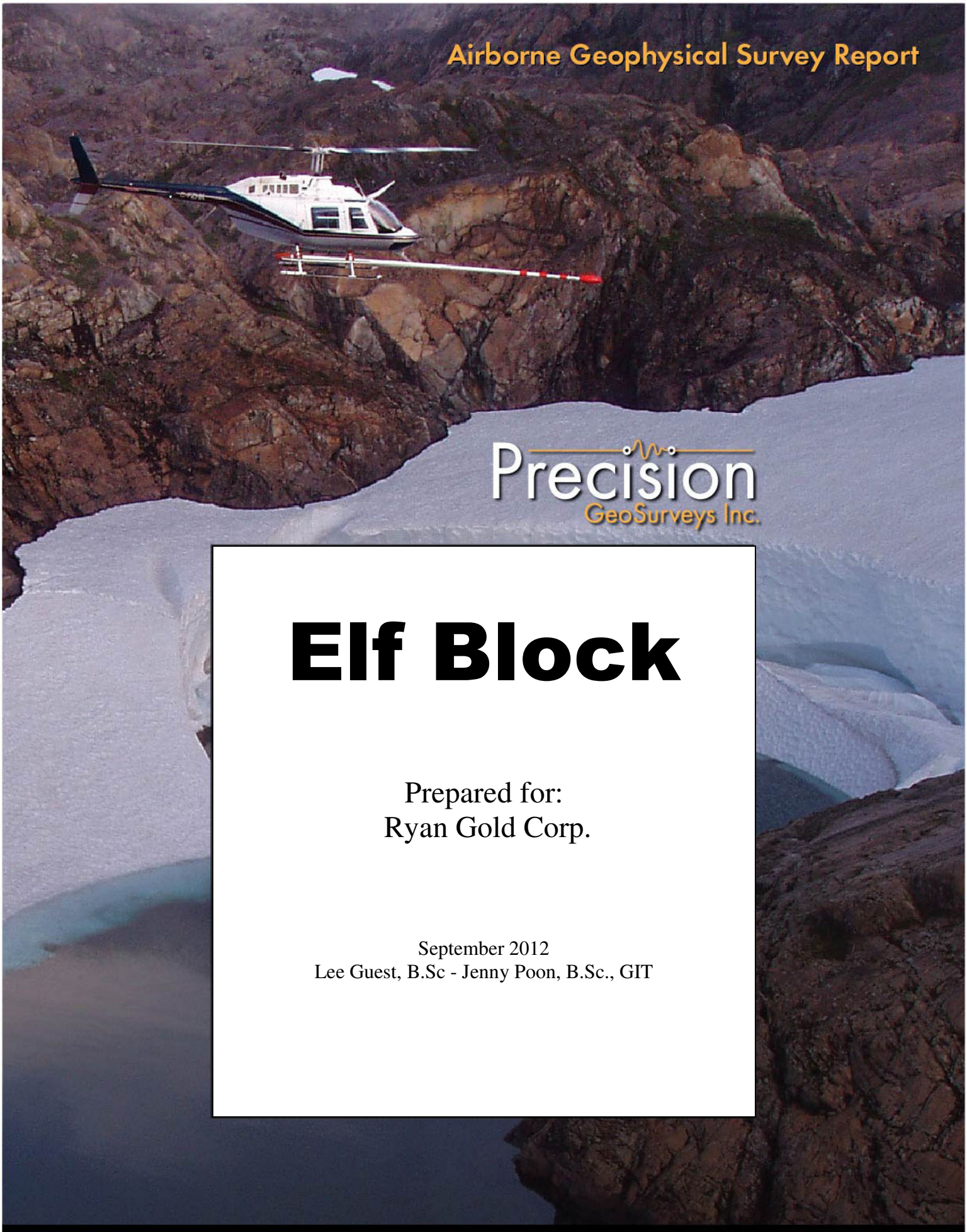


Map 12: Caneast block uranium over potassium ratio.



Map 13: Caneast block uranium over thorium ratio.

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Airborne Geophysical Survey Report

Precision GeoSurveys Inc.

Elf Block

Prepared for:
Ryan Gold Corp.

September 2012

Lee Guest, B.Sc - Jenny Poon, B.Sc., GIT

www.precisiongeosurveys.com • 520–355 Burrard Street • Vancouver, B.C. • Canada V6C 2G8 • T: 604.484.9402

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1.0 Introduction:

This report outlines the survey operations and data processing actions taken during the airborne geophysical survey flown at the Elf Block. The survey area is located approximately 150 km north east of Watson Lake, Yukon Territory, Canada and approximately 28 km south west of the North West Territories – Yukon Territories border (Figure 1). The airborne geophysical survey was flown by Precision GeoSurveys Inc. for Ryan Gold Corp. The geophysical survey, carried out from August 14, 2012 to August 15, 2012 saw the acquisition of high resolution magnetic and radiometric data.



Figure 1: Elf Block location map.

1.1 Survey Area

The Elf block is located east of the Hyland River and is approximately 80 km east of Frances Lake, YT, Canada (Figure 2).

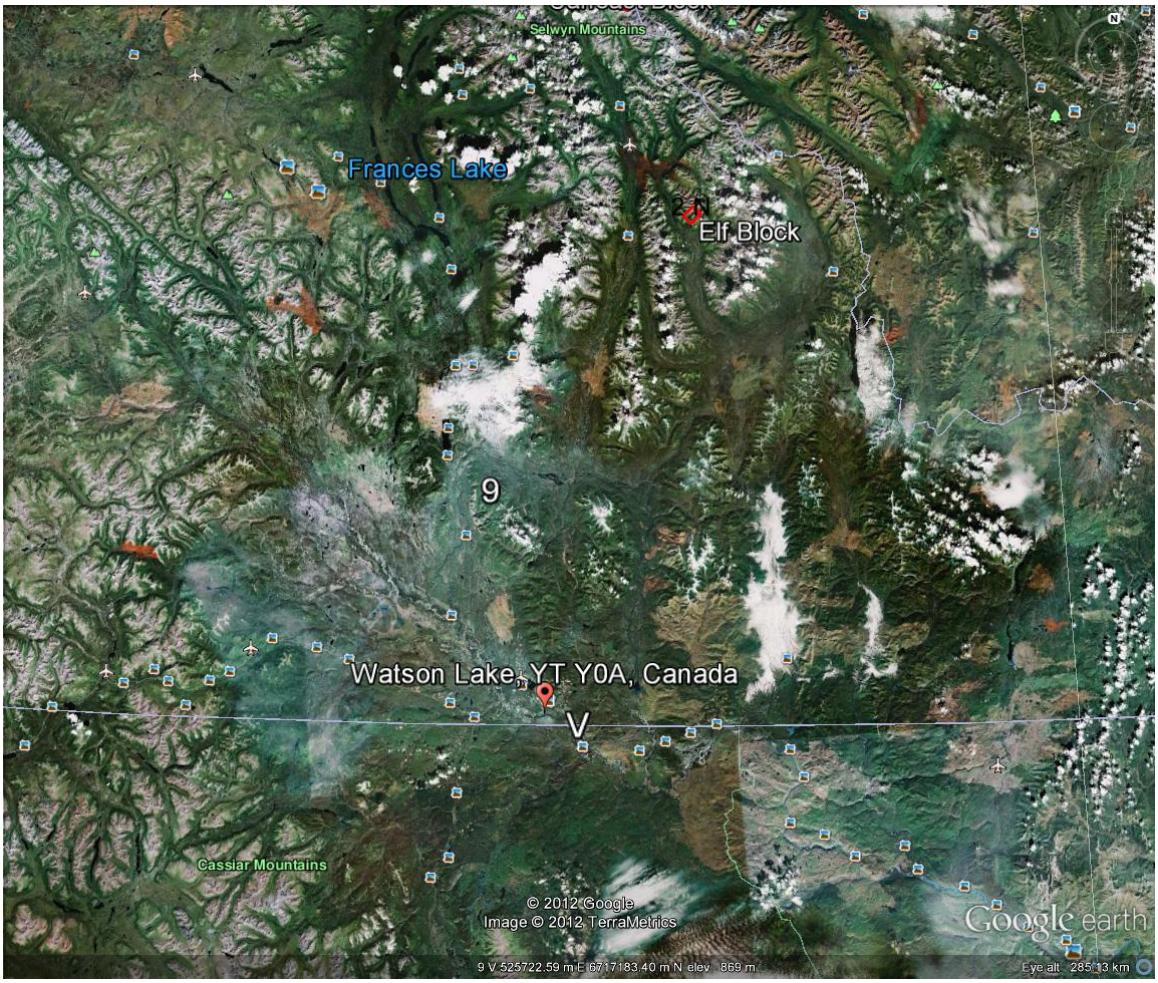


Figure 2: Elf block location in Yukon Territory on Google Earth.

The Elf block is approximately 4 km by 3.2 km (Figure 3). A total of 146 line kilometers of magnetic and radiometric data were flown for this survey; this total includes tie lines and survey lines.



Figure 3: Elf block survey boundary in red.

The Elf block's survey lines were flown at 100 meter spacing at a 000°/180° heading; the tie lines were flown at 1 km spacing at a heading of 090°/270° (Figures 4 and 5).

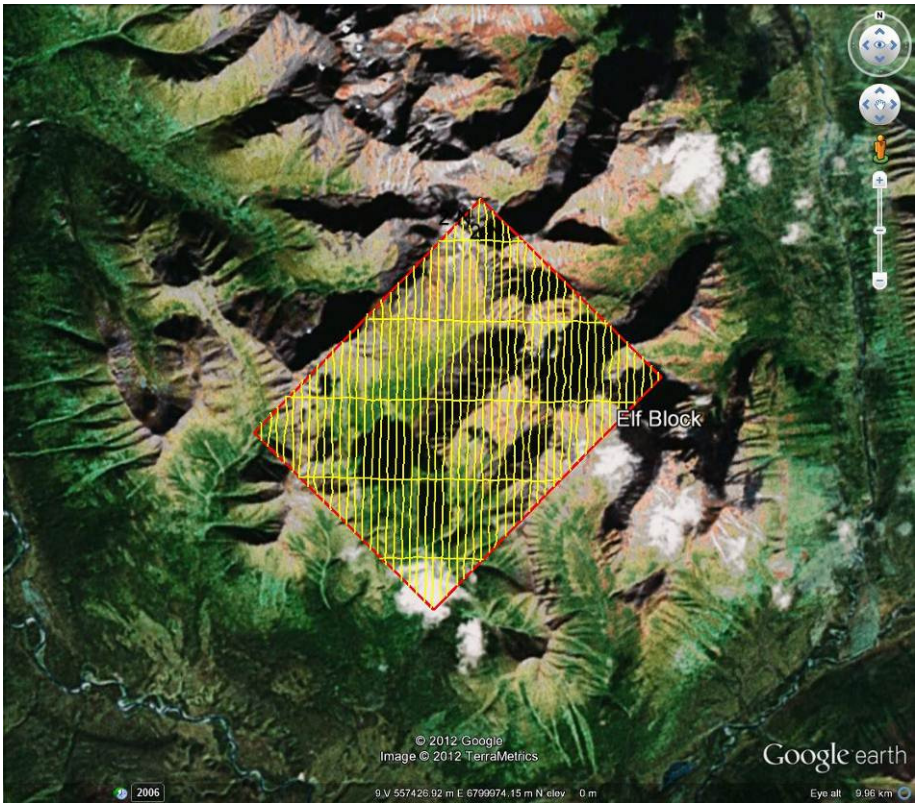


Figure 4: Plane View - Elf block with survey and tie lines outlined in yellow and the property boundary in red.

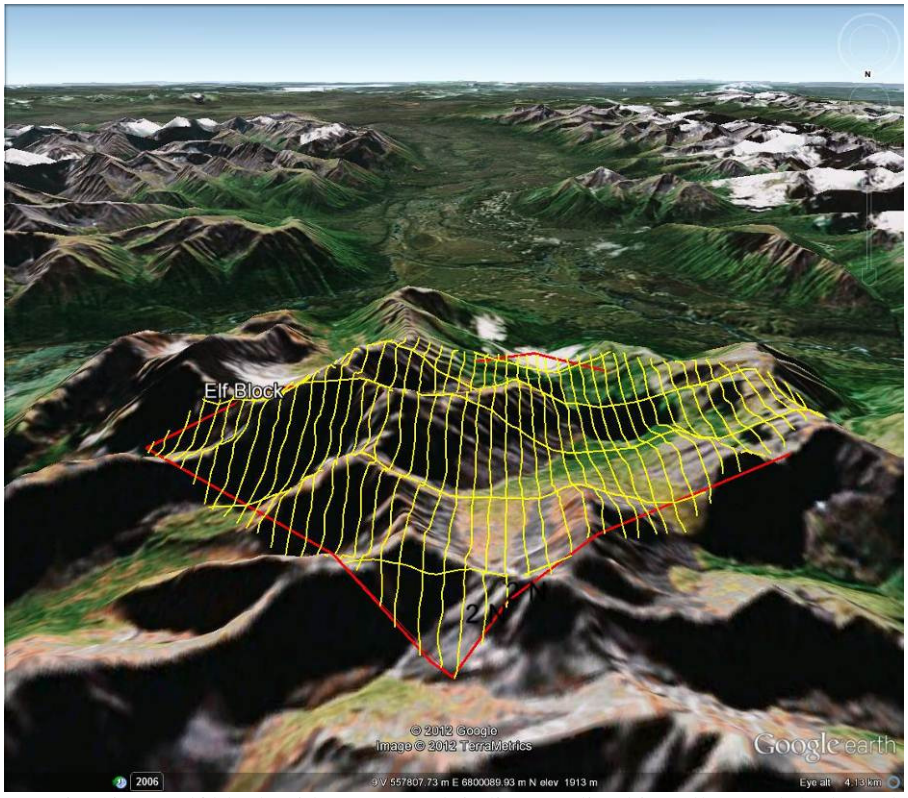


Figure 5: Terrain View - Elf block with survey and tie lines outlined in yellow and the boundary in red.

1.2 Survey Specifications:

The geodetic system used for this survey is WGS 84 and the area is contained in zone 9N (Figure 6). The survey data acquisition specifications and coordinates for Elf block survey are specified as followed (Tables 1 to 2).

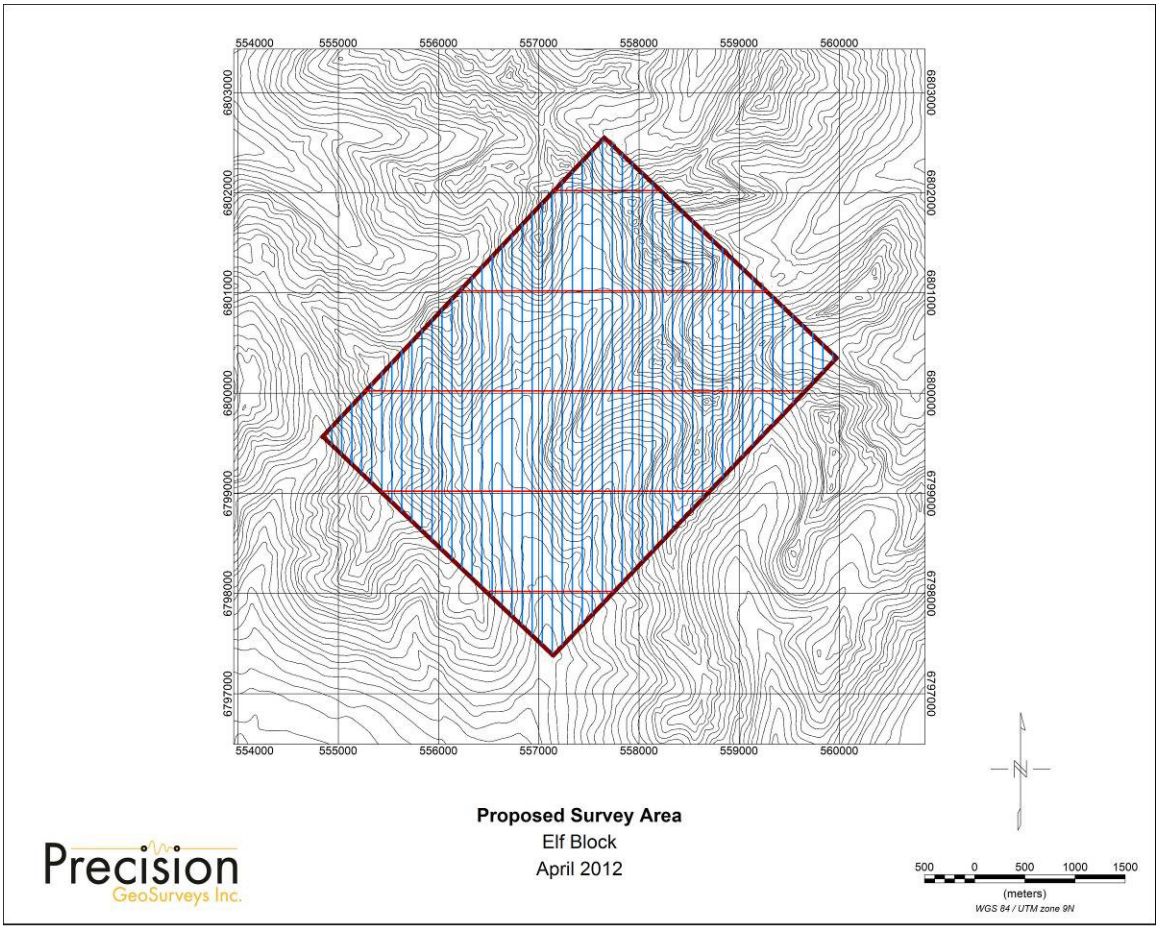


Figure 6: Proposed survey map of Elf block showing survey lines, tie lines and the block boundary.

Survey block	Line Spacing m	Planned Survey Line km	Planned Tie Line km	Total Planned Line km	Total Actual Flown km	Survey Line Orientation	Nominal Survey Height m
Elf	100	131	14	145	146	000°/180°	35
Total				145	146		

Table 1: Elf block survey acquisition specifications.

Longitude	Latitude	Easting	Northing
127.92196307	61.35274715	557657	6802555
127.87929710	61.33274847	559977	6800366
127.93309130	61.30651585	557146	6797396
127.97560912	61.32642478	554834	6799577

Table 2: Elf block survey polygon coordinates using WGS 84 in zone 9N.

2.0 Geophysical Data:

Geophysical data are collected in a variety of ways and are used to aid in the exploration and determination of geology, mineral deposits, oil and gas deposits, contaminated land sites and UXO detection.

For the purposes of this survey, airborne magnetic and radiometric data were collected to serve in the exploration of the Elf block which contains rocks that are prospective for gold mineralization.

2.1 Magnetic Data:

Magnetic surveying is probably the most common airborne survey type to be conducted for both mineral and hydrocarbon exploration. The type of survey specifications, instrumentation, and interpretation procedures, depend on the objectives of the survey. Typically magnetic surveys are performed for:

1. Geological Mapping to aid in mapping lithology, structure and alteration in both hard rock environments and for mapping basement lithology, structure and alteration in sedimentary basins or for regional tectonic studies.
2. Depth to Basement mapping for exploration in sedimentary basins or mineralization associated with the basement surface.

2.2 Radiometric Data:

Radiometric surveys detect and map natural radioactive emanations, called gamma rays, from rocks and soils. All detectable gamma radiation from earth materials come from the natural decay products of three primary elements; uranium (U), thorium (Th), and potassium (K). The purpose of radiometric surveys is to determine either the absolute and relative amounts of U, Th, and K in surface rocks and soils.

Radiometric data were collected simultaneously along with the acquisition of magnetic data. Patches of snow cover were found on the property that could compromise the quality of radiometric data as radiation from the ground is significantly attenuated and thus the counts measured are reduced. For example, 2 cm of snow cover can reduce the penetration of gamma ray radiation by 35 % (*IAEA, 2003*).

3.0 Survey Operations:

Precision GeoSurveys will be operating out of Inconnu Lodge, YT. The crew will have the base station set up prior to the start of the survey. The experience of the pilot helped to ensure that the data quality objectives were met and that the safety of the flight crew was never compromised given the potential risks involved in airborne surveying. Field processing and quality control checks are done daily.

3.1 Operations Base and Crew:

The base of operations for this survey was at the Inconnu Lodge, Yukon Territory, Canada. The Precision crew consisted of three members:

Harmen Keyser– Pilot
Erik Keyser - Operator
Lee Guest - Geophysicist

The survey was started on August 14, 2012 and completed on August 15, 2012. It encountered delays due to poor weather; rain and low clouds.

3.2 Base Station Specifications:

Two magnetic base stations were set up before every flight to ensure that diurnal activity was recorded during the survey flights. In this case, two GEM GSM 19T base stations were plotted in the bushes. GEM 3 (Serial # 5081669) and GEM 5 (Serial # 1094678) were located outside of Inconnu Lodge, YT, Canada (Table 3).

Station name	Easting/ Northing	Longitude/ Latitude	Datum/ Projection
GEM 3 (Serial # 5081669)	0437049E, 6853758N	130° 11' 40.379" W 61° 48' 41.338" N	WGS84, Zone 9N
GEM 5 (Serial # 1094678)	0437054E, 6853758N	130° 11' 40.038" W 61° 48' 41.341" N	WGS84, Zone 9N

Table 3: Base station specifications.

Base station readings were reviewed at regular intervals to ensure that no data were collected during periods with high diurnal activity (greater than 5 nT per minute). The base stations were installed at a magnetically noise-free area, away from metallic items such as steel objects, vehicles, or power lines (Figure 7) that could affect the survey data.



Figure 7: GEM 3 (left) and GEM 5 (right) base station locations.

The diurnal magnetic variations recorded from the stationary base stations are removed from the magnetic data recorded in flight to ensure that the anomalies seen are real and not due to solar activity.

3.3 Field Processing and Quality Control:

On a flight-by-flight basis, the survey data were transferred onto a USB flash drive and copied onto a field data processing laptop. The raw data files are in PEI binary data format and are converted into Geosoft GDB database format. Using Geosoft Oasis Montaj 7.5, the quality of the data is inspected to see if it meets the contract specifications (see Table 4). If survey and tie lines exhibit excessive deviation from (left/right or up/down) the contract specifications, or were considered to be inferior quality, were re-flown. Any suspicious anomalies, especially those found on a single flight line, were re-flown. All re-flights will be a minimum of 2000 m long and survey line re-flights crosses at least two tie lines, and tie line re-flights will cross at least 7 survey lines where applicable. For this survey project, no re-flights were required due to diurnal or equipment malfunctions.

Specification	Technology	Details
Line Spacing	Position	Flight lines deviate from flight path by more than +/- 20 m left/ right for 1 km or more.
Height		Flight lines deviate from height by more than +/- 10 up/down (with a nominal flight height of 35 m above ground) for 1 km or more.
Diurnal Variations	Magnetics	Non-linear magnetic diurnal variations exceed 10nT from a linear chord of length one (1) minute
Normalized 4th Difference		Magnetic data exceeding 0.30 nT peak to peak for distances greater than 1 km or more (provided noise is not due to geological or cultural features).
Test Line Data	Radiometrics	If signals from the four spectrometer windows (K, Th, U, and TC) over the test line exceed by more than 12%, the flights shall be reflown or suspended.

Table 4: Contract re-flight specifications.

Due to rugged, steep terrain, and tall trees (of more than 40 m in height), C-GOHK could not maintain a nominal height of 35 m without compromising the safety of the flight crew. Hence, C-GOHK flew at a mean height of 52 m.

4.0 Aircraft and Equipment:

All geophysical and subsidiary equipment are carefully installed on Precision GeoSurvey's aircraft. For this survey, a magnetometer, spectrometer, a data acquisition system, base stations, laser altimeter, pilot guidance unit (PGU), and a GPS navigation system were required to carry out the survey and collect quality, high resolution data. The survey magnetometer was carried in an approved "stinger" configuration to enhance flight safety and improve data quality in this mountainous terrain.

4.1 Aircraft:

Precision GeoSurveys flew the blocks using a Eurocopter AS350 helicopter (Figure 8), registration C-GOHK. The survey lines were flown at a nominal line spacing of one hundred (100) meters and the tie lines were flown at 1 km spacing for both the magnetometer and spectrometer. The average survey elevation was 52 meters vertically above ground without compromising the safety of the flight crew.



Figure 8: Eurocopter AS350 equipped with mag stinger for magnetic data acquisition, and internal spectrometer crystals for radiometric data acquisition.

4.2 Equipment:

4.2.1 AGIS:

The Airborne Geophysical Information System, AGIS, (Figure 9), is the main computer used in data recording, data synchronizing, displaying real-time QC data for the geophysical operator, and the generation of navigation information for the pilot and operator display system.



Figure 9: AGIS installed in the Eurocopter AS350.

The AGIS was manufactured by Pico Envirotec; therefore the system uses standardized Pico software and external sensors are connected to the system via RS-232 serial communication cables. The AGIS data format is easily converted into Geosoft or ASCII file formats by a supplied conversion program called PEIView. Additional Pico software allows for post real time magnetic compensation and survey quality control procedures.

4.2.2 Magnetometer:

The magnetometer used by Precision GeoSurveys is a Scintrex cesium vapor CS-3 magnetometer. The system was housed in a front mounted "stinger" (Figure 10). The CS-3 is a high sensitivity/low noise magnetometer with automatic hemisphere switching and a wide voltage range, the static noise rating for the unit is +/- 0.01 nT. On the AGIS screen the operator can view the raw magnetic response, the magnetic fourth difference, aircraft position, and the survey altitude for immediate QC of the magnetic data. The magnetic data are recorded at 10 Hz. A magnetic compensator is also used to remove noise created by the movement of the helicopter as it pitches, rolls and yaws within the Earth's geomagnetic field.



Figure 10: View of the mag stinger.

4.2.3 Spectrometer:

The IRIS, or Integrated Radiometric Information System is a fully integrated, gamma radiation detection system containing 16.8 litres of NaI (T1) downward looking crystals and 4.2 litres NaI (T1) upward looking crystals (Figure 11). The IRIS is equipped with upward-shielding high density RayShield® gamma-attenuating material to minimize cosmic and solar gamma noise. Real time data acquisition, navigation and communication tasks are integrated into a single unit that is installed in the rear of the aircraft as indicated below. Information such as total count, counts of various radioelements (K, U, Th, etc.), temperature, cosmic radiation, barometric pressure, atmospheric humidity and survey altitude can all be monitored on the AGIS screen for immediate QC. All the radiometric data are recorded at 1 Hz.

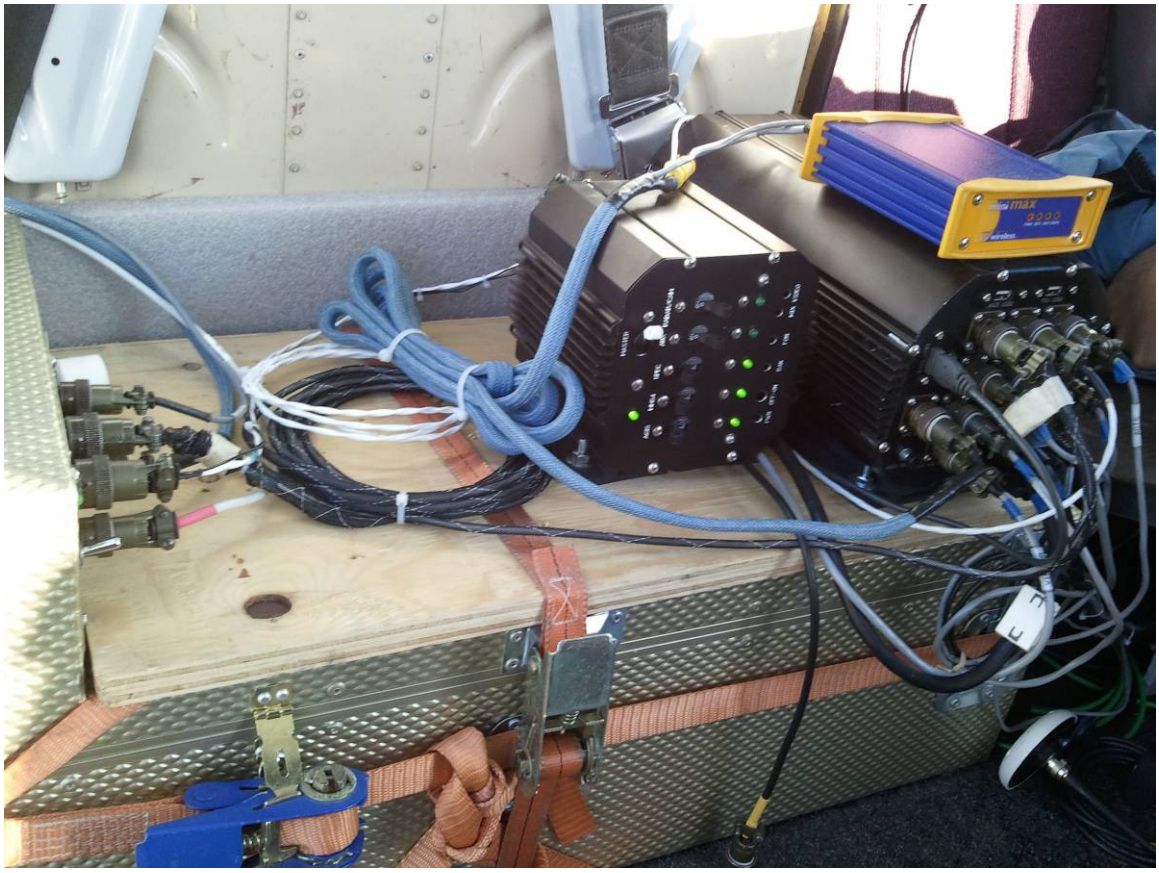


Figure 11: One of the IRIS strapped in the back seat of the Eurocopter AS350.

4.2.4 Base Station:

For monitoring and recording of the Earth's diurnal magnetic field variation, Precision GeoSurveys operates two magnetometer base stations continuously throughout the airborne data acquisition survey. Precision GeoSurveys operates two GEM GSM-19T magnetometer base stations. The base stations are installed mounted close to the survey blocks, and in an area with low magnetic gradient, as possible to give accurate magnetic field data. It is located in an area away from electric transmission power lines and moving ferrous objects, such as aircraft and motor vehicles that could affect the survey data integrity.

The GEM GSM-19T magnetometer with GPS (Figure 12) uses the proton precession technology sampling at a rate of 0.5 Hz. The GSM-19T has an accuracy of +/- 0.2 nT at 1 Hz. Base station data recorded in the solid-state memory of the base station, are downloaded onto a field laptop using GEMLink 5.0 software. Profile plots of the base station readings are generated and updated at the end of each survey day



Figure 12: GEM GSM-19T proton precession magnetometer.

4.2.5 Laser Altimeter:

The pilot is provided with terrain guidance and clearance information from an Acuity AccuRange AR3000 laser altimeter (Figure 13). This is attached at the aft end of the magnetometer boom. The AR3000 sensor is a time-of-flight sensor that measures distance by a rapidly-modulated and collimated laser beam that creates a dot on the target surface. The maximum range of the laser altimeter is 300 m off of natural surfaces with 90% reflectance and 3 km off special reflectors. Within the sensor unit, reflected signal light is collected by the lens and focused onto a photodiode. Through serial communications and analog outputs, the distance data are transmitted and collected by the AGIS at 10 Hz.



Figure 13: Acuity AccuRange AR3000 laser altimeter.

4.2.6 Pilot Guidance Unit:

The PGU (Pilot Guidance Unit) is a graphical display type unit that provides continuous steering and elevation information to the pilot (Figure 14). It is mounted remotely from the data system on top of the instrument panel. The PGU assists the pilot to keep the helicopter on the flight path and at the desired ground clearance.



Figure14: Pilot Guidance Unit.

The LCD monitor measures 7 inches, with a full VGA 800 x 600 pixel display. The CPU for the PGU is housed in the PC-104 console and uses Windows XP Embedded operating system control, with input from the GPS antenna, laser altimeter, and AGIS.

4.2.7 GPS Navigation System:

A Garmin GPS 16x-HVS navigation system integrated with the pilot display (PGU) and AGIS provided navigational information and control. The GPS 16x are complete GPS sensor with embedded receiver and antenna. It's capable of tracking multiple satellites at a time while providing fast time-to-first-fix, one-second navigation updates, and at low power consumption. This GPS sensor includes the capability of FAA Wide Area Augmentation System (WAAS) differential GPS.



Figure 15: Garmin GPS 16x navigation system.

The survey flight lines (coordinates) were programmed onto AGIS prior to the start of the survey and information will be displayed onto the pilot guidance unit (PGU) to provide airborne navigation.

5.0 Data Acquisition Equipment Checks and Calibration:

At the start of the survey, airborne equipment tests were conducted. There are three tests conducted for the airborne magnetometer: compensation flight, lag test, and the heading error test (clover leaf test). Gamma ray spectrometer checks and calibrations are also conducted prior to the start of the survey. The three tests conducted were the calibration pad test, cosmic flight test, and the Brekenridge test range.

5.1 Magnetometer Checks:

5.1.1 Compensation Flight Test:

During aeromagnetic surveying noise is introduced to the magnetic data by the aircraft itself. Movement in the aircraft (roll, pitch and yaw) and the permanent magnetization of the aircraft parts (engine and other ferric objects) are large contributing factors to this noise. To remove this noise a process called magnetic compensation is implemented. The magnetic compensation process starts with a test flight at the beginning of the survey where the aircraft flies in the four orthogonal headings required for the survey ($000^o/180^o$ and $090^o/270^o$ in the case of this survey) at an altitude (typically > 1,500 m AGL) where there is no ground effect in the magnetic data. In each heading, three specified roll, pitch,

and yaw maneuvers are performed by the pilot; these maneuvers provide the data that are required to calculate the necessary parameters for compensating the magnetic data.

5.1.2 Lag Test:

A lag test was performed to determine the relationship between the time the digital reading was recorded by the instrument and the time for the position fix that the fiducial of the reading was obtained by the GPS system.

The test was flown in the four orthogonal headings over an identifiable magnetic anomaly (ie.Truck, Trailer, etc.) at survey speed and height. A lag of 10 fiducials (1.0 seconds) was determined from the lag test.

5.1.3 Heading Error Test:

To determine the magnetic heading effect a cloverleaf pattern flight test was conducted. The cloverleaf test was flown in the same heading as the survey and tie lines at 300 m AGL in area with low magnetic gradient. For each direction, it must fly over a recognizable feature on the ground in order to calculate the heading error. For all four directions it must pass over the same mid-point all four times.

5.2 Gamma-ray Spectrometer Checks and Calibrations:

Pre-survey calibrations and testing of the GRS-10 airborne gamma-ray spectrometry system were carried out prior the start of the survey. The calibration of the spectrometer system involved three tests which enabled the conversion of airborne data to ground concentration of natural radioactive elements. These tests were the calibration pad test, cosmic flight test, and the Breckenridge test range. The measurements were made in accordance with IAEA technical report series No. 323, "Airborne Gamma Ray Spectrometer Surveying", and AGSO Record 1995/60, "A Guide to the Technical Specification for Airborne Gamma-Ray Surveys".

5.2.1 Calibration Pad Test:

The calibration pad test was conducted by Pico Envirotec at the GSC (Geological Survey of Canada) testing facility in Ottawa, Ontario over the approved GSC calibration pad. It is a slab of concrete containing known concentrations of the radioelements (K, Th, and U) and is ideally used to stimulate a geological source of radiation. The measurements collected from the calibration pad test are used to determine the Compton scattering and Grasty Backscatter (spectral overlap between element windows) coefficients.

5.2.2 Cosmic Flight Test:

As the height of the aircraft increases, radiation in each spectral window increases Elfnentially due to the radiation of cosmic origin. Also, the background source of radiation from the aircraft itself is constant. The cosmic flight test is conducted to determine the aircraft background attenuation coefficients for the detector crystal packs and the cosmic coefficients.

The pilot is required to fly over the same location repeatedly in opposite directions starting from 1,500 m to 3,000 m at every 500 m interval for approximately 2 minutes each. Due to extremely high elevation in the survey area and low cloud cover, the test was not carried out within the survey area for safety reasons. Therefore, the standard values recommended for a single crystal pack were obtained from the IAEA Technical report.

5.2.3 Brekenridge Test Range:

The Brekenridge test range is very similar to the cosmic flight test but is conducted at lower elevations (from ground level). The pilot is required to fly over the same location at the following elevations in meters above ground; 30, 50, 100, 150, 200, 250, and 300. As the distance of the aircraft increases away from the radioactive source, the source signature Elfnentially degrades. As a result, this test is used to determine the altitude attenuation coefficients and the radio-element sensitivity of the airborne spectrometer system.

6.0 Data Processing:

After all the data are collected from a survey flight several procedures are undertaken to ensure that the data meet a high standard of quality. All data were processed using Pico Envirotec software and Geosoft Oasis Montaj geophysical processing software.

6.1 Magnetic Processing:

Before any processing and editing of the raw magnetic data, the data obtained from the compensation flight test must be applied to the raw magnetic data. A computer program called PEIComp is used to create a model from the compensation flight test for each survey to remove the noise induced by aircraft movement; this model is applied to each survey flight so the data can be further processed.

Filtering is applied to the laser altimeter data to remove vegetation clutter and to show the actual ground clearance. To remove vegetation clutter a Rolling Statistic filter is applied to the laser altimeter data and a low pass filter is used to smooth out the laser altimeter profile to remove isolated noise. As a result, filtering the data will yield a more uniform surface in close conformance with the actual terrain.

The processing of the magnetic data involved the correction for diurnal variations. The base station data is edited, plotted and merged into a Geosoft (.gdb) database daily. The airborne magnetic data are corrected for diurnal variations by subtracting the observed

magnetic base station deviations. Following the diurnal correction, a lag correction is applied. A lag correction of 1.0 seconds was applied to the total magnetic field data to compensate for the lag in the recording system as the magnetometer sensor flies 5.70 m ahead of the GPS antenna. Lastly, a heading correction was applied to the data.

Some filtering of the magnetic data is also required. A Non Linear filter was used for spike removal. The 1D Non-Linear Filter is ideal for removing very short wavelength, but high amplitude features from data. It is often thought of as a noise spike-rejection filter, but it can also be effective for removing short wavelength geological features, such as signals from surficial features. The 1D Non-Linear Filter is used to locate and remove data that is recognized as noise. The algorithm is 'non- linear' because it looks at each data point and decides if that datum is noise or a valid signal. If the point is noise, it is simply removed and replaced by an estimate based on surrounding data points. Parts of the data that are not considered noise are not modified. The combination of a Non-Linear filter for noise removal and a low pass trend enhancement filter resulted in level data as indicated in the results section of this report. The low pass filter smooths out the magnetic profile to remove isolated noise.

The corrected magnetic data from the survey and tie lines were used to level the entire survey dataset. Two forms of leveling are applied to the corrected data: conventional leveling and micro-leveling. There are two components to conventional leveling; the first involves statistical leveling of magnetic data to correct miss ties (intersection errors) followed by specific patterns or trends. For the second component, tie lines are brought to a common regional base value using the mean value of the cross-level error. To obtain the best possible leveled data, individual corrections are edited at selected intersections. Lastly, micro-leveling is applied to the corrected conventional leveled data. This will remove any residual noise related to flight line direction, and any low amplitude component of flight line noise, that still remains in the data after tie line leveling.

6.2 Radiometric Processing:

Calibrating the spectrometer system in the helicopter is the first and vital step before the airborne radiometric data can be processed. Once calibration of the system has been complete, the radiometric data are processed by windowing the full spectrum to create channels for U, K, Th and total count. A 5-point Hanning filter was applied to the Cosmic window before going any further with processing the radiometric data.

Aircraft background and cosmic stripping corrections were applied to all three elements, and total count using the following formula:

$$C_{ac} = C_{lt} - (a_c + b_c * \mathrm{Cos}_f)$$

where: C_{ac} is the background and cosmic corrected channel
C_{lt} is the live time corrected channel
a_c is the aircraft background for this channel
b_c is the cosmic stripping coefficient for this channel
Cos_f is the filtered cosmic channel

The radon backgrounds are first removed followed by Compton stripping. Spectral overlap corrections are applied on to potassium, uranium, and thorium as part of the Compton stripping process. This is done by using the striping ratios that have been calculated for the spectrometer by prior calibration, this breaks the corrected elemental values down into the apparent radioelement concentrations. Lastly, attenuation corrections are applied to the data which involves nominal survey altitude corrections, in this case 52 metres is applied to total count, potassium, uranium, and thorium data.

With all corrections applied to the radiometric data, the final step is to convert the corrected potassium, uranium, and thorium to apparent radioelement concentrations using the following formula:

$$eE = C_{cor} / s$$

where: eE is the element concentration K(%) and equivalent element concentration of U(ppm) & Th(ppm)
s is the experimentally determined sensitivity
Ccor is the fully corrected channel

Finally, the natural air absorption dose rate is determined using the following formula:

$$E = 13.08 * K + 5.43 * eU + 2.69 * eTh$$

where: E is the absorption dose rate in nG/h
K is the concentration of potassium (%)
eU is the equivalent concentration of uranium (ppm)
eTh is the equivalent concentration of thorium (ppm)

To calculate for radiometric ratios it follows the guidelines in the IAEA report. Due to statistical uncertainties in the individual radioelement measurements, some care was taken in the calculation of the ratio in order to obtain statistically significant values. Following IAEA guidelines, the method of determining ratios of the eU/eTh, eU/K and eTh/K was as follows:

1. Any data points where the potassium concentration was less than 0.25 were neglected.
2. The element with the lowest corrected count rate was determined.

3. The element concentrations of adjacent points on either side of each data point were summed until they exceeded a certain threshold value. This threshold was set to be equivalent to 100 counts of the element with the lowest count rate. Additional minimum thresholds of 1.6% for Potassium, 20 ppm for thorium, and 30 ppm for uranium were set up to insure meaningful ratios.
4. The ratios were calculated using the accumulated sums.

With this method, the errors associated with the calculated ratios will be similar for all data points.

7.0 Deliverables:

All digital data will be presented on a compact disc (CD) and a copy of the logistic report and maps will be printed out. The survey data are presented as digital databases, maps, and report.

7.1 Digital Data:

The file format will be provided in two (2) formats, the first will be a .GDB file for use in Geosoft Oasis Montaj, the second format will be a .XYZ file, this is text file. A complete file provided in each format will contain both magnetic and radiometric data. Full description of the digital data and contents are included into the report (Appendix B).

The digital data are represented into grids. The following grids prepared for the Elf block are listed below:

- Digital terrain model (DTM)
- Leveled total magnetic intensity (TMI)
- Calculated vertical gradient (CVG) - first vertical derivative
- Potassium (Kcor) - radiometric data in concentrations
- Thorium (Thcor) - radiometric data in concentrations
- Uranium (Ucor) - radiometric data in concentrations
- Total count (TCcor) – radiometric data in concentrations
- Total count (TCexp) – radiometric data in exposure rate
- Thorium over Potassium ratio (eTh/%K ratio) – radiometric ratios
- Uranium over Potassium ratio (eU/%K ratio) – radiometric ratios
- Uranium over Thorium ratio (eU/%Th ratio) – radiometric ratios

7.2 KMZ Grids:

The digital data represented into grids are exported into kmz files which can be displayed using Google Earth. The grids are laid overtop topography and rendered to give a 3D view.

7.3 Maps:

Maps were created for the Elf block at a scale of 1:43000. The following map products prepared are listed below:

Magnetic Maps (colour images with elevation contour lines):

- Digital terrain model
- Flight lines
- Total magnetic intensity
- Total magnetic intensity with plotted flight lines
- Calculated vertical gradient

Gamma-ray Spectrometry Maps (colour images with elevation contour lines):

- Potassium – equivalent concentration
- Thorium – equivalent concentration
- Uranium – equivalent concentration
- Total Count – equivalent dose rate
- Total Count (exp) – Exposure rate of SUM(%k, eU, eTh) * determined factors
- Thorium over Potassium ratio
- Uranium over Potassium ratio
- Uranium over Thorium ratio

All maps created were in prepared in World Geodetic System 84 (WGS 84) datum, and UTM zone 9N.

7.4 Report:

The report provides information about the acquisition, procedures, magnetic and radiometric processing, and presentation of the Elf block survey data. A pdf copy of the report is included along with the digital data and maps that are provided on the CD report.

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Appendix A

Equipment Specifications

- GEM GSM-19T Proton Precession Magnetometer (Base Station)
- Garmin GPS 16x-HVS
- Scintrex CS-3 Survey Magnetometer
- Bartington Mag-03 three-axis fluxgate magnetic field sensor
- Pico Envirotec GRS-10 Gamma Spectrometer
- Pico Envirotec AGIS data recorder system (for Navigation, Gamma spectrometer, VLF-EM and Magnetometer Data Acquisition)

GEM GSM-19T Proton Precession Magnetometer (Base Station)

Configuration Options	15
Cycle Time	999 to 0.5 sec
Environmental	-40 to 60 ° Celsius
Gradient Tolerance	7,000 nT/m
Magnetic Readings	299,593
Operating Range	10, 000 to 120,000 nT
Power	12 V @ 0.62 A
Sensitivity	0.1 nT @ 1 sec
Weight (Console/ Sensor)	3.2 Kg
Integrated GPS	Yes

Garmin GPS 16x-HVS

Receiver	WAAS enabled GPS receiver continuously tracks and uses multiple satellites to compute and update position	
Acquisition Times	Reacquisition: Less than 2 secs Hot: Approx. 1 sec (all data known) Warm: Approx. 38 secs (initial position, time, and almanac known; ephemeris unknown Cold: Approx 45 secs	
Sentence Rate	1 sec default; NMEA 0183 output interval configurable from 1 to 900 secs in 1-sec increment	
Interfaces	True RS-232 output, asynchronous serial input compatible with RS-232 or TTL voltage levels, RS-232 polartiy. User selectable baud rate: 4800, 9600, 19200, or 38400	
Accuracy	GPS Standard Positioning Service (SPS)	Position: <15 meters, 95% typical Velocity: 0.1 knot RMS steady state
	DGPS (USCG/RTCM)	Position: 3-5 meters, 95% typical Velocity: 0.1 knot RMS steady state
	DGPS (WAAS)	Position: <3 meters, 95% typical Velocity: 0.1 knot RMS steady state
	PPS Time	± Microsecond at rising edge of PPS pulse
	Dynamic	999 knots velocity (only limited at altitude greater than 60,000 feet, 3g dynamics

Scintrex CS-3 Survey Magnetometer

Operating Principal	Self-oscillation split-beam Cesium Vapor (non-radioactive Cs-133)
Operating Rage	15,000 to 105,000 nT
Gradient Tolerance	40,000 nT/metre
Operating Zones	10° to 85° and 95° to 170°
Hemisphere Switching	a) Automatic b) Electronic control actuated by the control voltage levels (TTL/CMOS) c) Manual
Sensitivity	0.0006 nT √Hz rms.
Noise Envelope	Typically 0.002 nT P-P, 0.1 to 1 Hz bandwidth
Heading Error	+/- 0.25 nT (inside the optical axis to the field direction angle range 15° to 75° and 105° to 165°)
Absolute Accuracy	<2.5 nT throughout range
Output	a) continuous signal at the Larmor frequency which is proportional to the magnetic field (proportionality constant 3.49857 Hz/nT) sine wave signal amplitude modulated on the power supply voltage b) square wave signal at the I/O connector, TTL/CMOS compatible
Information Bandwidth	Only limited by the magnetometer processor used
Sensor Head	Diameter: 63 mm (2.5”) Length: 160 mm (6.3”) Weight: 1.15 kg (2.6 lb)
Sensor Electronics	Diameter: 63 mm (2.5”) Length: 350 mm (13.8”) Weight: 1.5 kg (3.3 lb)
Cable, Sensor to Sensor Electronics	3m (9’ 8”), lengths up to 5m (16’ 4”) available
Operating Temperature	-40°C to +50°C
Humidity	Up to 100%, splash proof
Supply Power	24 to 35 Volts DC
Supply Current	Approx. 1.5A at start up, decreasing to 0.5A at 20°C
Power Up Time	Less than 15 minutes at -30°C

Bartington Mag-03 three-axis fluxgate magnetic field sensor

Number of axes	3
Bandwidth	0 to 3kHz at 50µT peak
Internal Noise: **Basic version** **Standard version** **Low Noise version**	 >10 to 20pTrms/√Hz at 1Hz 6 to ≤10pTrms/√Hz at 1Hz <6pTrms/√Hz at 1Hz
Scaling error (DC)	<±0.5%
Orthogonality error	<0.1°
Alignment error (Z axis to reference face)	<0.1°
Linearity error	<0.0015%
Frequency response	0 to 1kHz maximally flat, ±5% maximum at 1kHz
Input voltage	±12V to ±17V
Supply current	+30mA, -10mA (+1.4mA per 100µT for each axis)
Power supply rejection ratio	5µV/V (-106dB)
Analog output	±10V (±12V supply) swings to within 0.5V of supply voltage
Output impedance	10 Ω
Operating temperature range	-40°C to +70°C
Environmental protection	IP51
Dimensions (W x H x L)	32 x 32 x 152mm
Weight	160g
Enclosure material	Reinforced epoxy
Connector	ITT Cannon DEM-9P-NMB
Mating connector	ITT Cannon DEM-9S-NMB
Mounting	2 x M5 fixing holes

Pico Envirotec GRS-10 Gamma Spectrometer

Crystal volume	16.8 liters downward plus 4.2 liters upward
Resolution	256/512 channels
Tuning	Automatic using peak determination algorithm
Detector	Digital Peak
Calibration	Fully automated detector
Real Time	Linearization and gain stabilization
Communication	RS232
Detectors	Expandable to 10 detectors and digital peak
Count Rate	Up to 60,000 cps per detector
Count Capacity per channel	65545
Energy detection range:	36 KeV to 3 MeV
Cosmic channel	Above 3 MeV
Upward Shielding	RayShield® non-radioactive shielding on downward looking crystals
Downward Shielding	6mm lead plate on upward looking crystals
Spectra	Collected spectra of 256/512 channels, internal spectrum resolution 1024
Software	**Calibration:** High voltage adjustment, linearity correction coefficients calculation, and communication test support **Real Time Data Collection:** Automatic Gain real time control on natural isotopes, and PC based test and calibration software suite
Sensor	Each box containing two (2) gamma detection NaI(Tl) crystals – each 4.2 liters. (256 cu in.) (approx. 100 x 100 x 650 mm) Total volume of approx 8.4 litres or 512 cu in with detector electronics
Spectra Stabilization	Real time automatic corrections on radio nuclei: Th, Ur, K. No implanted sources.

Pico Envirotec AGIS data recorder system
(for Navigation, Gamma spectrometer, VLF-EM and Magnetometer Data Acquisition)

Functions	Airborne Geophysical Information System (AGIS) with integrated Global Positioning System Receiver (GPS) and all necessary navigation guidance software. Inputs for geophysical sensors - portable gamma ray spectrometer GRS-10, MMS4 Magnetometer, Totem 2A EM, A/D converter, temperature probe, humidity probe, barometric pressure probe, and laser altimeter. Output for the 2 line Pilot Indicator
Display	Touch screen with display of 800 x 600 pixels; customized keypad and operator keyboard. Multi-screen options for real-time viewing of all data inputs, fiducial points, flight line tracking, and GPS channels by operator.
GPS Navigation	Garmin 12-channel, WAAS-enabled
Data Sampling	Sensor dependent
Data Synchronization	Synchronized to GPS position
Data File	PEI Binary data format
Storage	80 GB
Supplied Software	**PEIView:** Allows fast data Quality Control (QC) **Data Format:** Geosoft GBN and ASCII output **PEIConv**: For survey preparation and survey plot after data acquisition
Software	**Calibration:** High voltage adjustment, linearity correction coefficients calculation, and communication test support **Real Time Data Collection:** Automatic Gain real time control on natural isotopes and PC based test and calibration software suite
Power Requirements	24 to 32 VDC
Temperature	Operating:-10 to +55 deg C; storage:-20 to +70 deg C

Appendix B

Digital File Descriptions

- Magnetic database description
- Radiometric database description
- Grids
- Maps

Magnetic Database:

Abbreviations used in the GDB files listed below:

Channel	Units	Description
X	m	UTM Easting - WGS84 Zone 9 North
Y	m	UTM Northing - WGS84 Zone 9 North
Lat_deg	deg	Latitude
Long_deg	deg	Longitude
LineNo		Line number
FLT		Flight number
Date	yyyy/mm/dd	Date(s) of survey flight(s)
Galt	M	GPS height - WGS84 Zone 9 North
Lalt	M	Laser Altimeter readings
DTM	M	Digital Terrain Model
GPStime	Hours:min:secs	GPS time (UTC)
basemag	nT	Base station diurnal data
Mag	nT	Total Magnetic Intensity

Radiometric Database:

Abbreviations used in the GDB files listed below:

Channel	Units	Description
X	m	UTM Easting - WGS84 Zone 9 North
Y	m	UTM Northing - WGS84 Zone 9 North
Galt	m	GPS height - WGS84 Zone 9 North
Lalt	m	Laser Altimeter readings
DTM	m	Digital Terrain Model
BaroSTP_Kp	KiloPascal	Barometric Altitude (Pres and Temp Corrected)
Press_kP	KiloPascal	Atmospheric Pressure
Temp_degC	Degrees C	Air Temperature
COSFILT	counts/sec	Spectrometer - Filtered Cosmic
TCcor	µR	Dose Rate Equivalent
TCexp	µR/hour	Elfsure Rate - SUM(%k, eU, eTh) * determined factors
Kcor	%	Equivalent Concentration - Potassium
Ucor	ppm	Equivalent Concentration - Uranium
Thcor	ppm	Equivalent Concentration - Thorium
THKratio		Spectrometer - eTh/%K ratio
UKratio		Spectrometer - eU/%K ratio
UTHratio		Spectrometer - eU/eTh ratio
Date	yyyy/mm/dd	Dates of the survey flight(s)
FLT		Flight numbers
LineNo		Line number

Grids: WGS84 Datum, Zone 9N

File Name	Description
Elf_Block_DTM	Elf block digital terrain model
Elf_Block_TMI.grd	Elf block total magnetic intensity
Elf_Block_CVG.grd	Elf block calculated vertical gradient
Elf_Block_Kcor.grd	Elf block potassium (Kcor) equivalent concentration
Elf_Block_Thcor.grd	Elf block Thorium (Thcor) equivalent concentration
Elf_Block_Ucor.grd	Elf block Uranium (Ucor) equivalent concentration
Elf_Block_TCcor.grd	Elf block Total Count (TCcor) equivalent dose rate
Elf_Block_TCexp.grd	Elf block Total Count (TCexp) exposure rate
Elf_Block_THKratio.grd	Elf block thorium over potassium ratio (eTh/%K)
Elf_Block_UKratio.grd	Elf block uranium over potassium ratio (eU/%K)
Elf_Block_UThratio.grd	Elf block uranium over thorium ratio (eU/eTh)

Maps: WGS84 Datum, Zone 9N

File Name	Description
Elf_Block_DTM.pdf	Elf block digital terrain model
Elf_Block_FlightLines.pdf	Elf block flight lines flown
Elf_Block_TMI.pdf	Elf block total magnetic intensity
Elf_Block_TMI_with_Flightlines.pdf	Elf block total magnetic intensity with flight lines flown
Elf_Block_CVG. pdf	Elf block calculated vertical gradient
Elf_Block_Kcor_EquivalentConcentration_Radiometrics. pdf	Elf block potassium (Kcor) equivalent concentration
Elf_Block_Thcor_EquivalentConcentration_Radiometrics. pdf	Elf block Thorium (Thcor) equivalent concentration
Elf_Block_Ucor_EquivalentConcentration_Radiometrics. pdf	Elf block Uranium (Ucor) equivalent concentration
Elf_Block_TCcor_EquivalentDoseRate_Radiometrics. pdf	Elf block Total Count (TCcor) equivalent dose rate
Elf_Block_TCexp_ExposureRate_Radiometrics.pdf	Elf block Total Count (TCexp) exposure rate
Elf_Block_eTh%Kratio_Radiometrics.pdf	Elf block thorium over potassium ratio
Elf_Block_ eU%Kratio_Radiometrics. pdf	Elf block uranium over potassium ratio
Elf_CVG_ eUeThratio_Radiometrics. pdf	Elf block uranium over thorium ratio

Appendix C

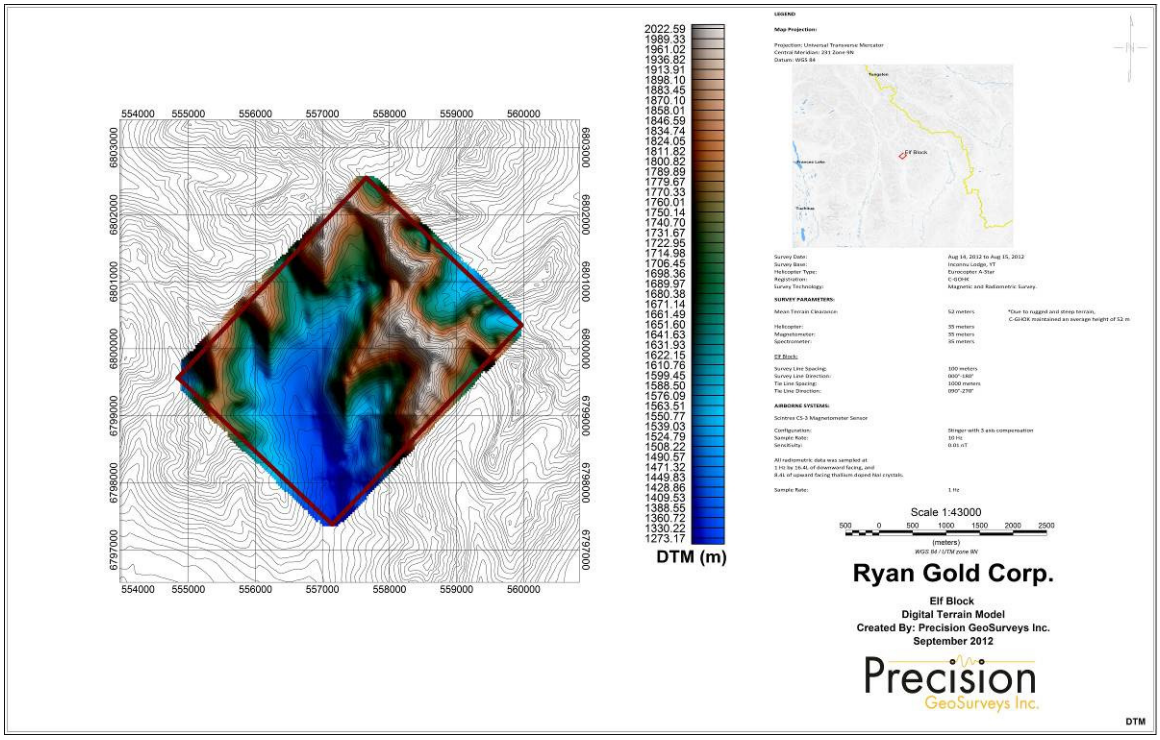
Elf Block Maps

Magnetic Maps (colour image with elevation contour lines):

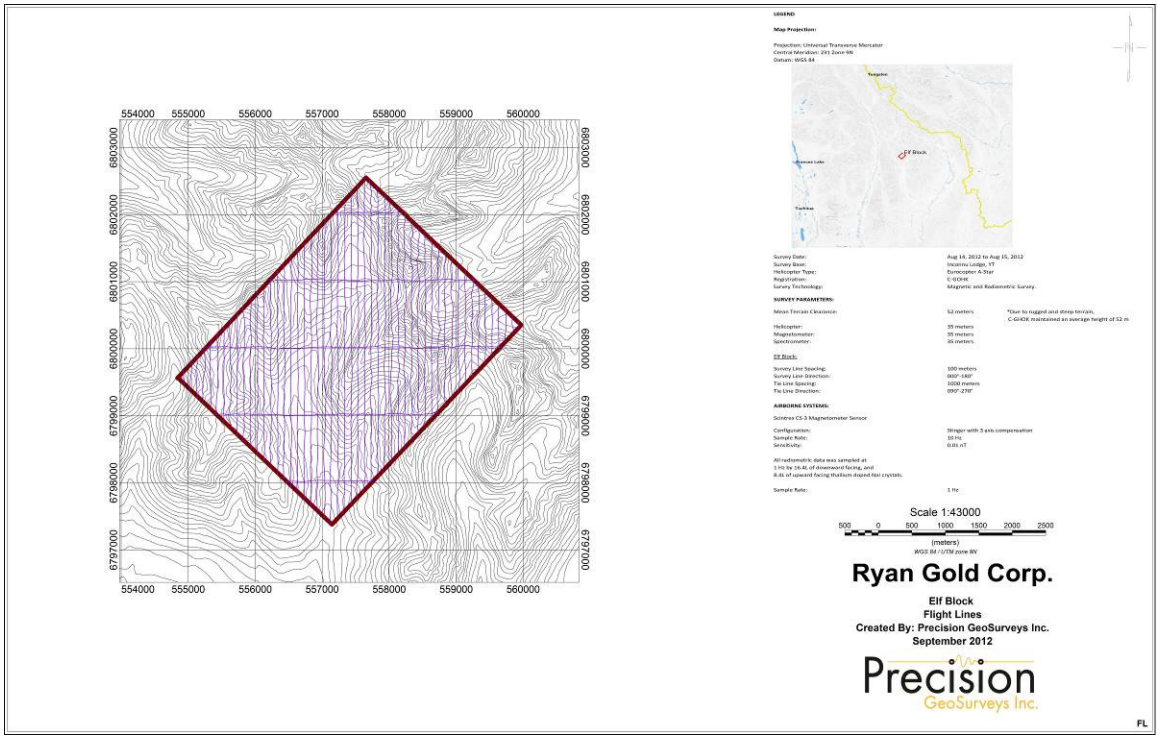
- Digital Terrain Model (DTM)
- Flight lines map
- Total Magnetic Intensity (TMI)
- Total Magnetic Intensity (TMI) with flight lines
- Calculated Vertical Gradient (CVG)

Gamma-Ray Spectrometry Maps (colour image with elevation contour lines):

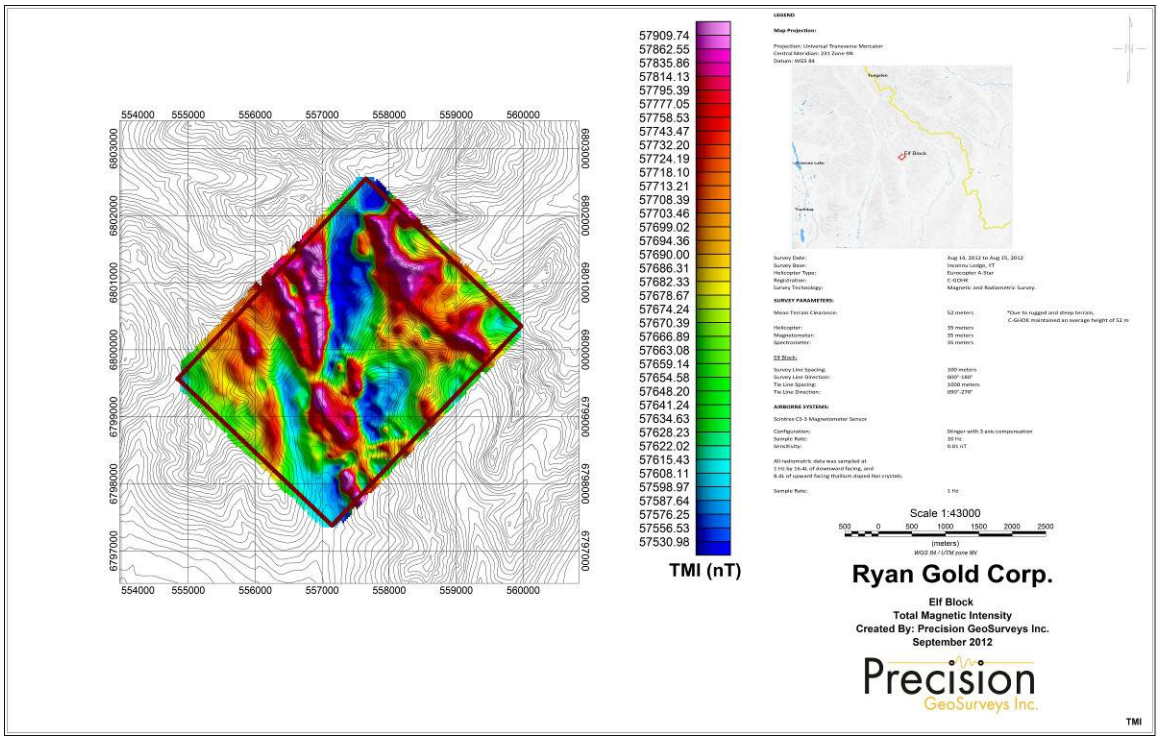
- Potassium – Equivalent Concentration (% K)
- Thorium – Equivalent Concentration (eTh)
- Uranium – Equivalent Concentration (eU)
- Total Count – Dose Rate Equivalent (TC)
- Total Count - Exposure Rate - SUM(%K, eU, eTh) * determined factors
- Thorium over Potassium Ratio - Spectrometer - eTh/%K ratio
- Uranium over Potassium Ratio - Spectrometer - eU/%K ratio
- Uranium over Thorium Ratio - Spectrometer - eU/eTh ratio



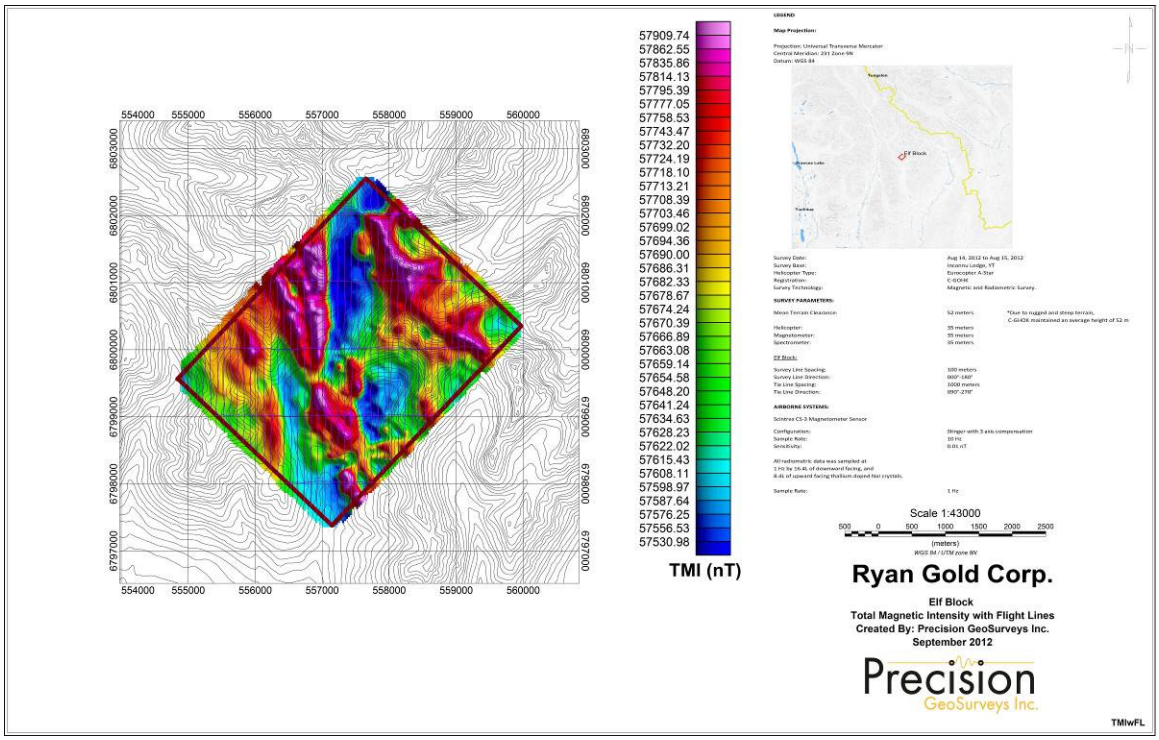
Map 1: Elf block digital terrain model.



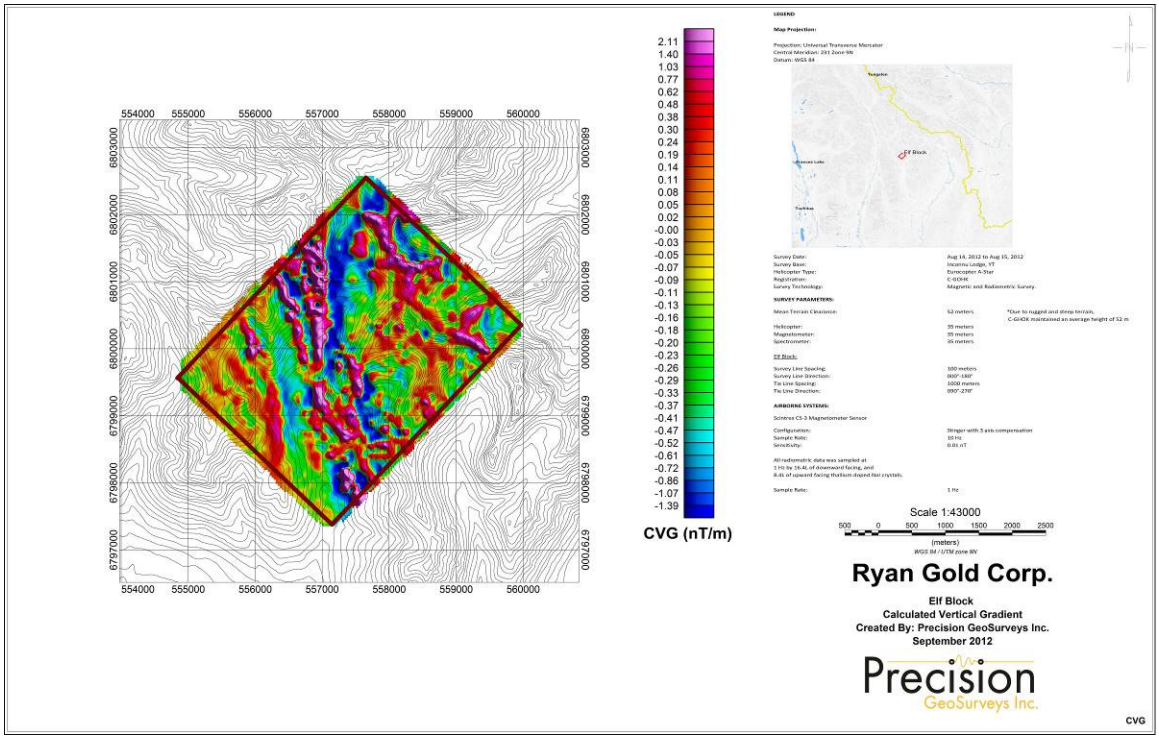
Map 2: Elf block flight lines.



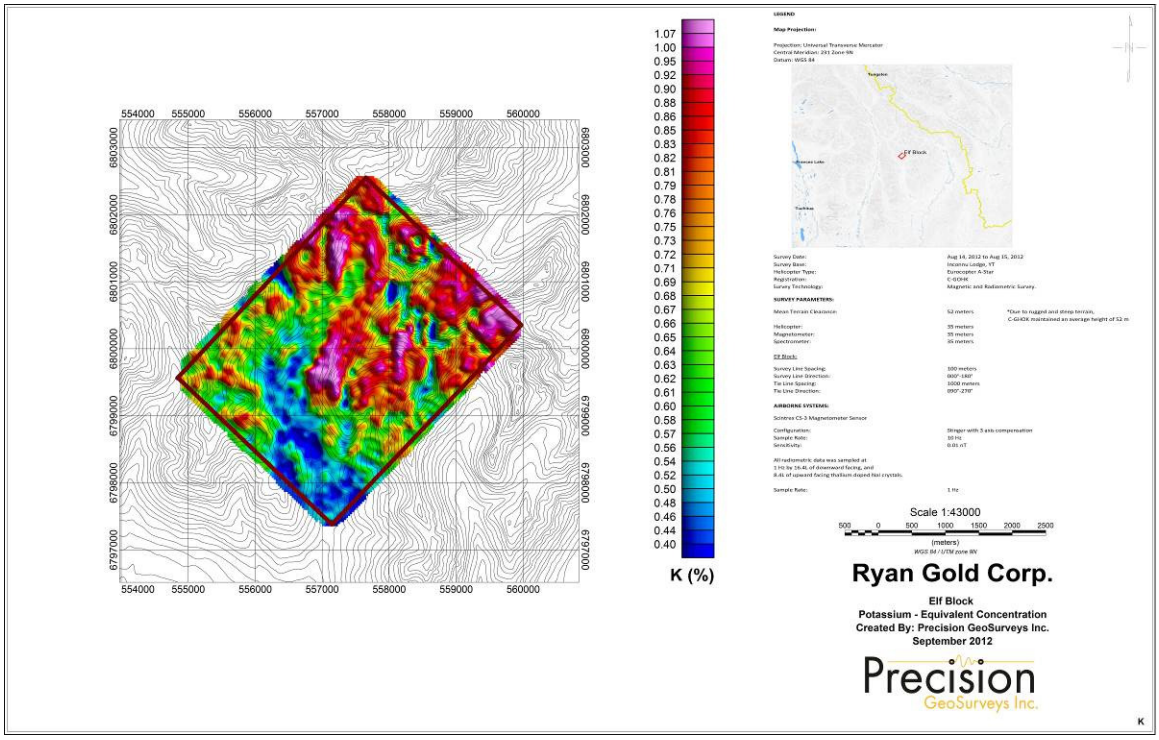
Map 3: Expo block total magnetic intensity.



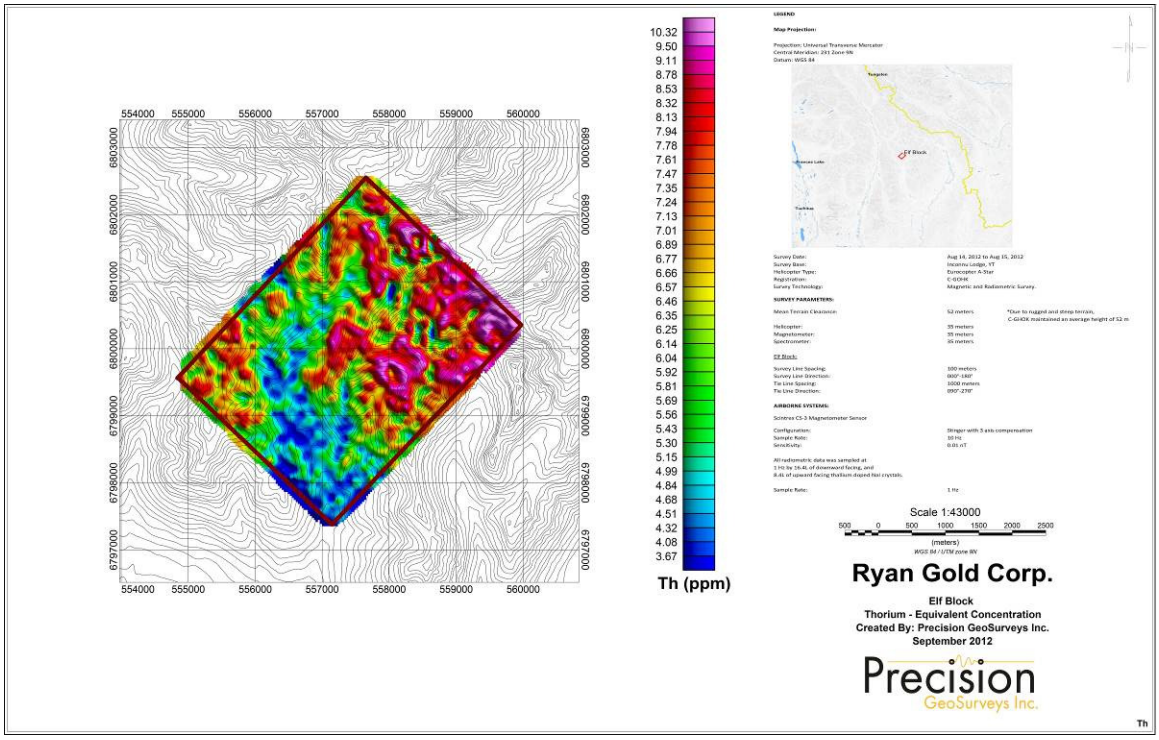
Map 4: Elf block total magnetic intensity with plotted flight lines.



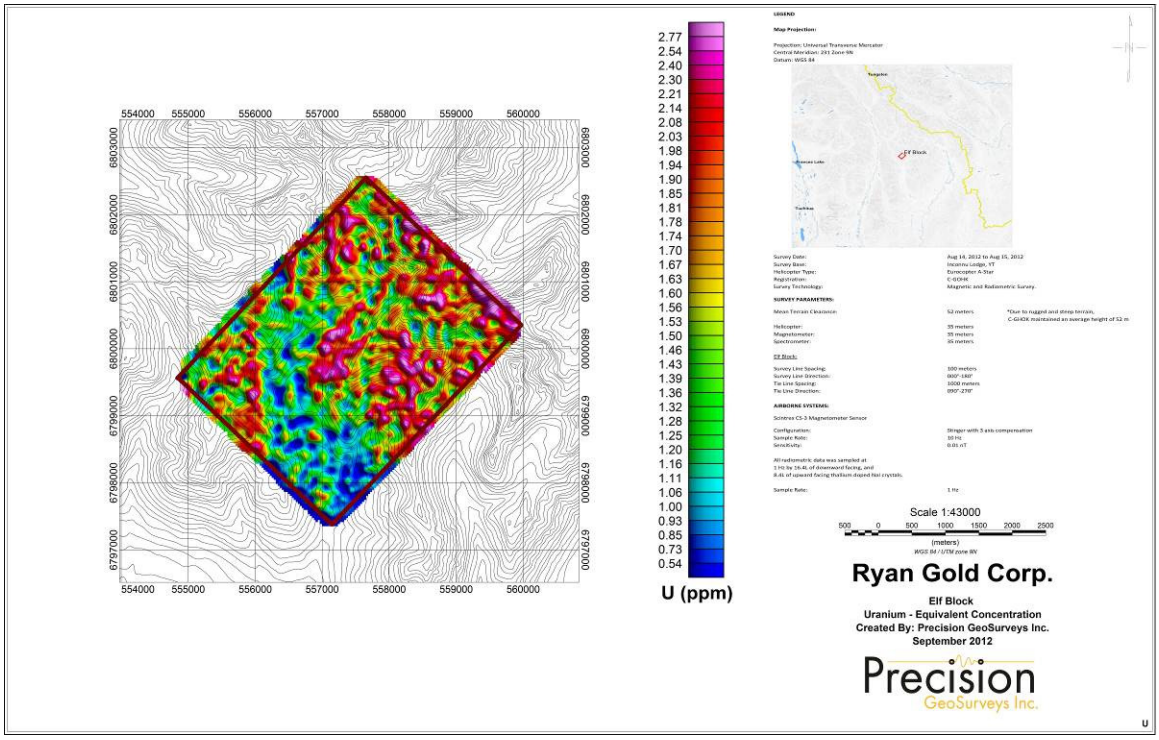
Map 5: Elf block calculated vertical gradient.



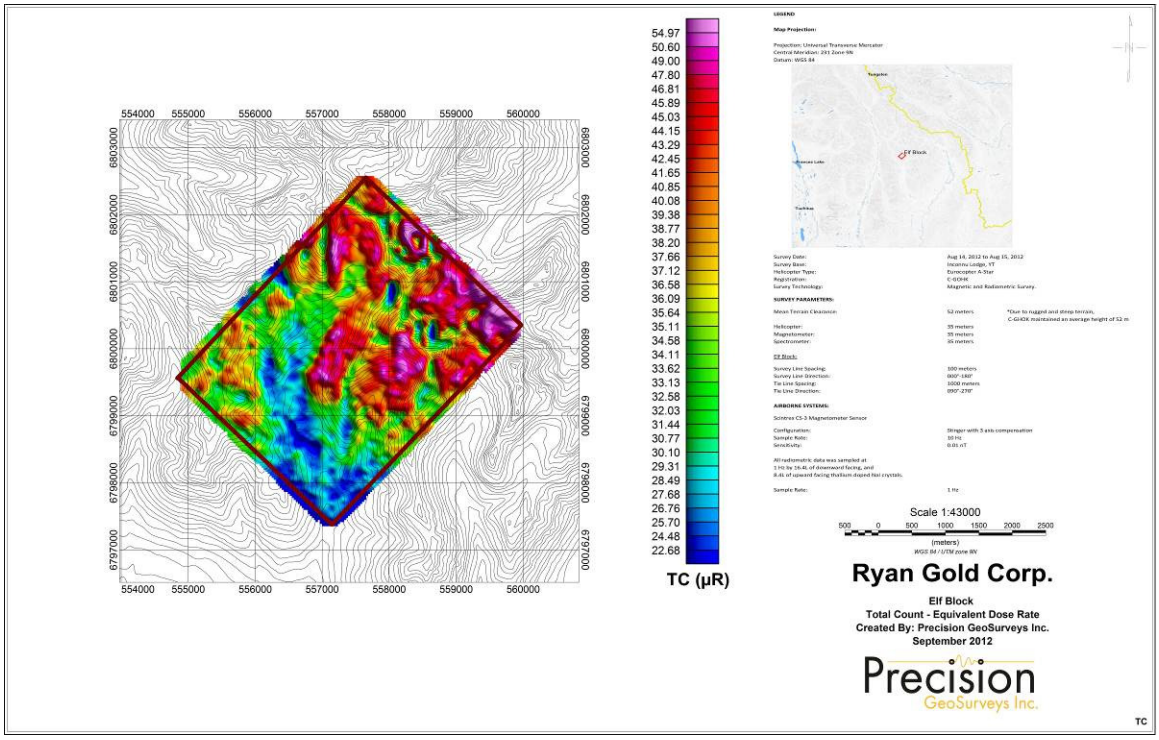
Map 6: Elf block potassium – equivalent concentration.



Map 7: Elf block thorium – equivalent concentration.

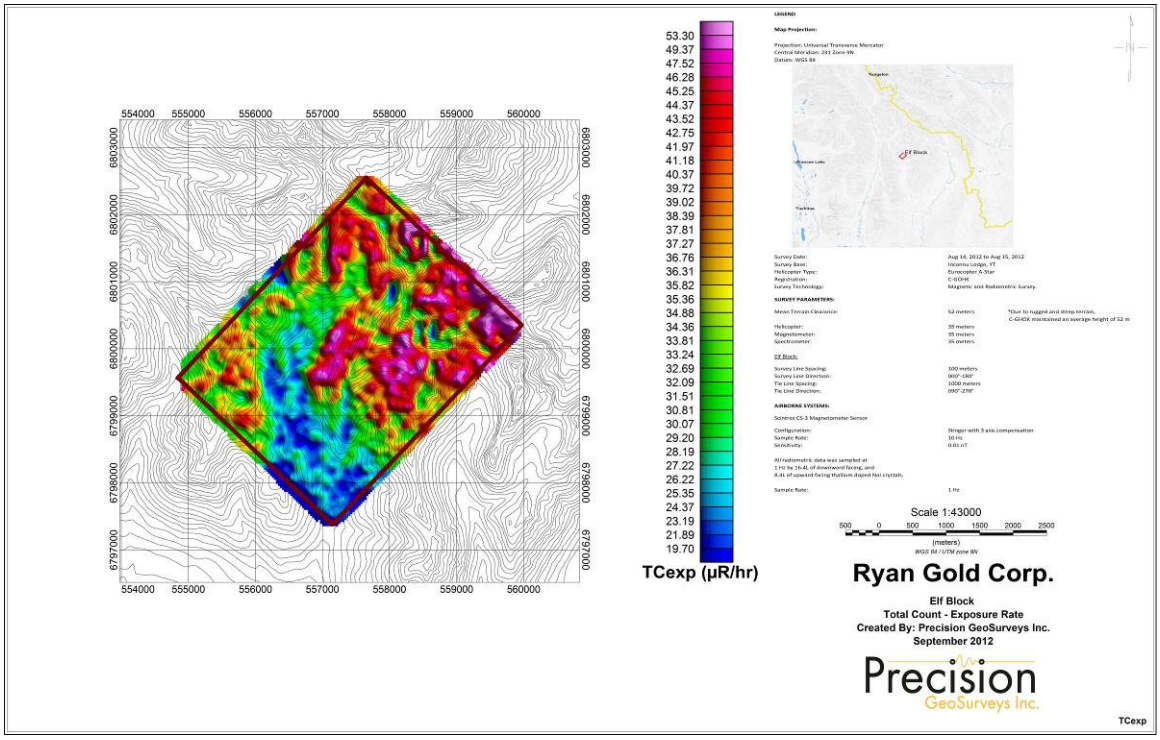


Map 8: Elf block uranium – equivalent concentration.



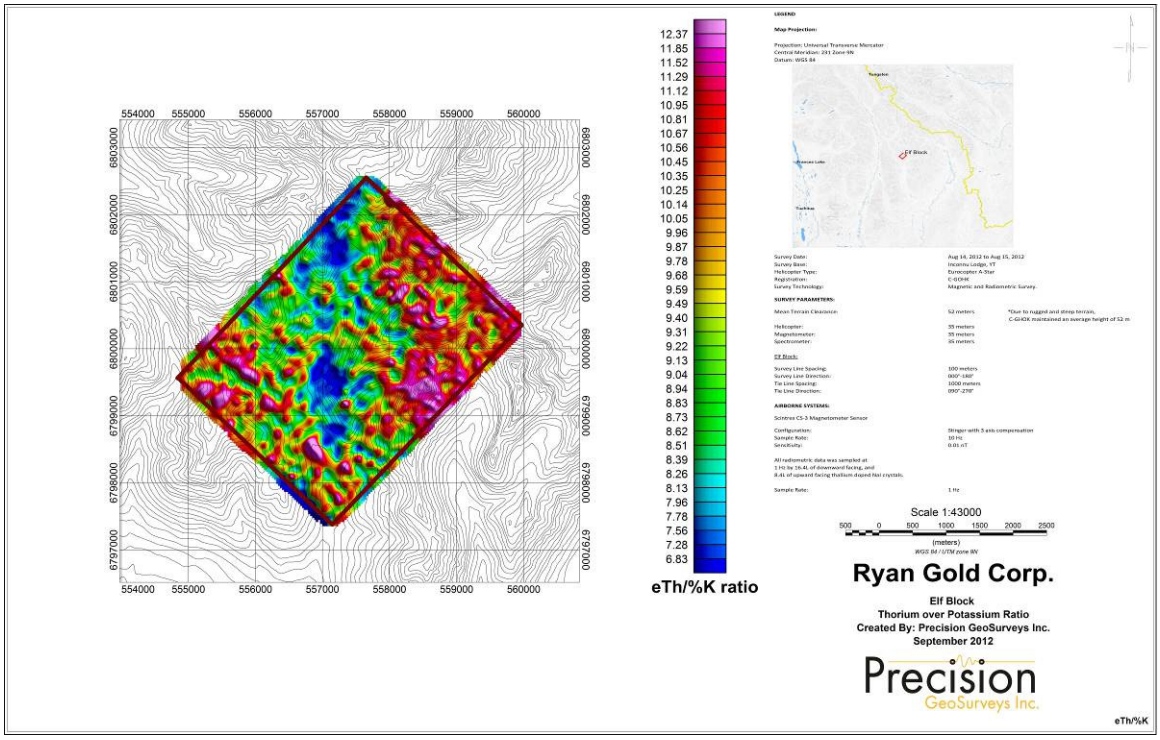
Map 9: Elf block total count – equivalent dose rate.

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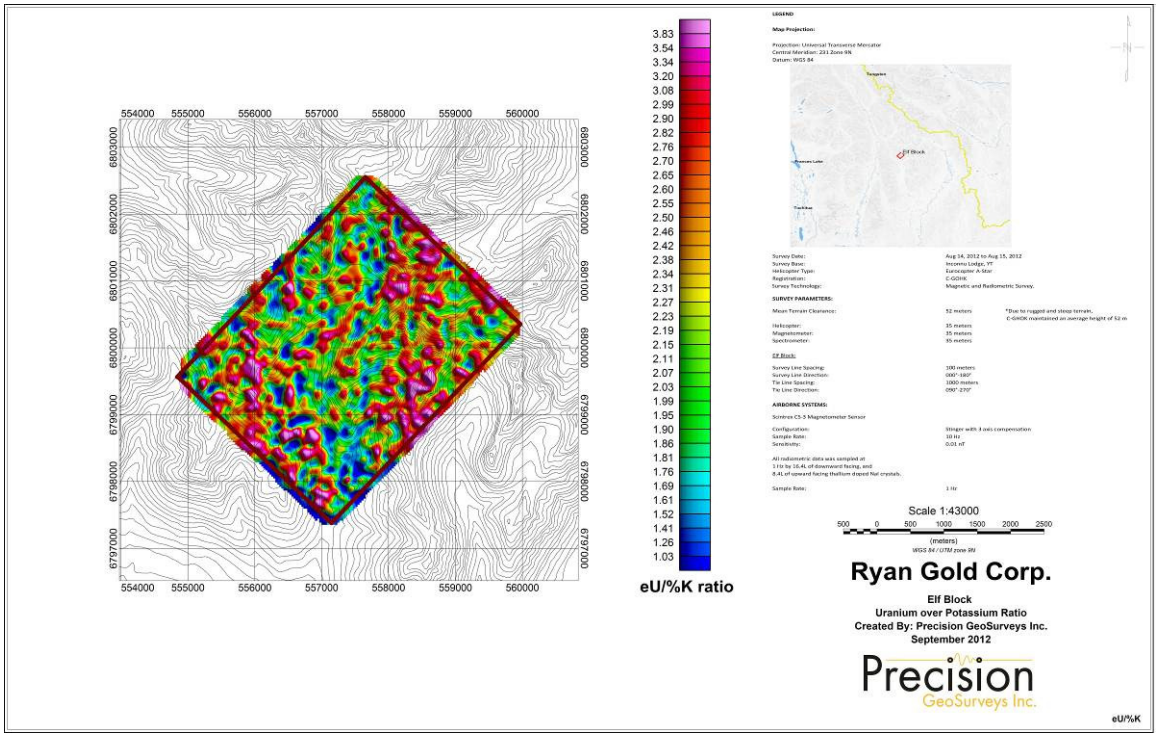
Map 10: Elf block total count – exposure rate.

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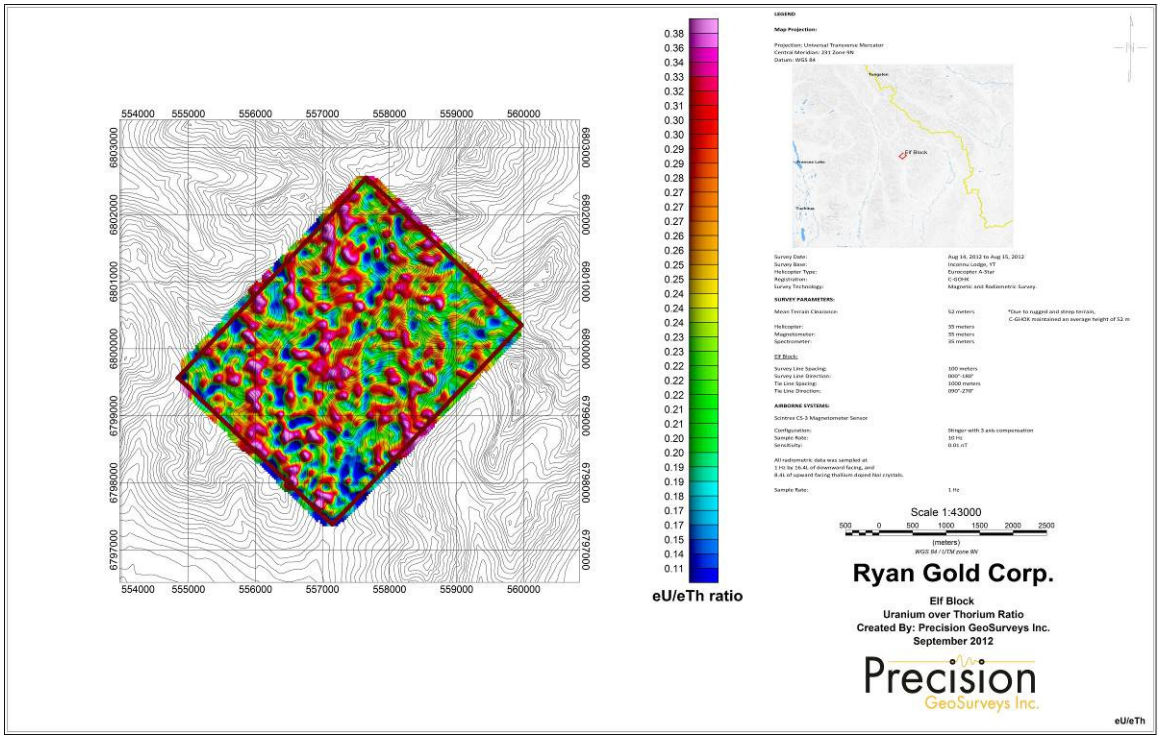


Map 11: Elf block thorium over potassium ratio.

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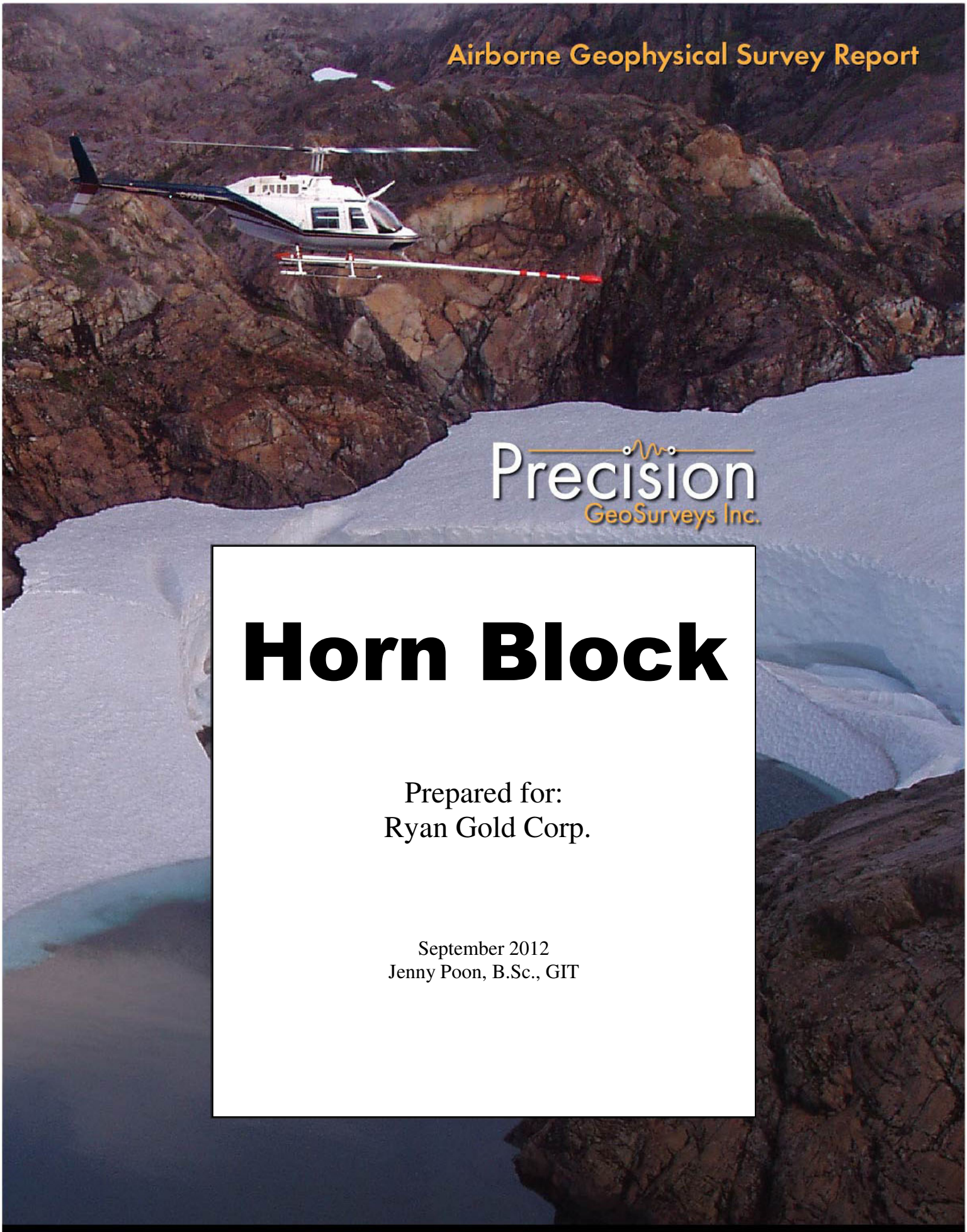


Map 12: Elf block uranium over potassium ratio.



Map 13: Elf block uranium over thorium ratio.

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Horn Block

Prepared for:
Ryan Gold Corp.

September 2012
Jenny Poon, B.Sc., GIT

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1.0 Introduction:

This report outlines the survey operations and data processing actions taken during the airborne geophysical survey flown at the Horn block. The survey area is located east of Ross River, Yukon Territory, Canada and south of Upper Hyland Lake (Figure 1). The airborne geophysical survey was flown by Precision GeoSurveys Inc. for Ryan Gold Corp. The geophysical survey, carried out from August 12, 2012 to August 16, 2012 saw the acquisition of high resolution magnetic and radiometric data.

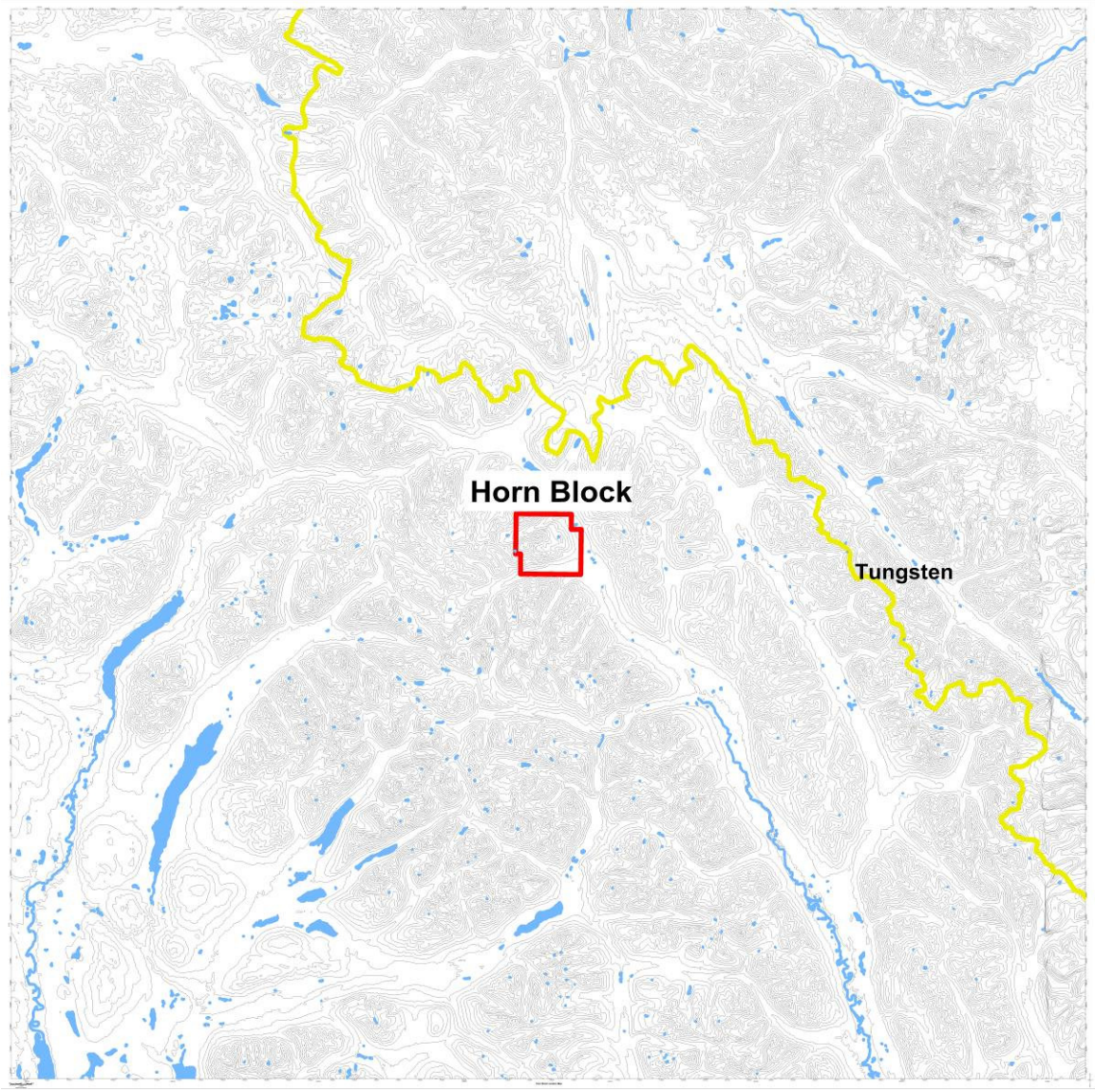


Figure 1: Block location map.

1.1 Survey Area

The Horn block is located north west of Selwyn Mountains and is approximately 27 km west of the Northwest Territory – Yukon Territory border (Figure 2).

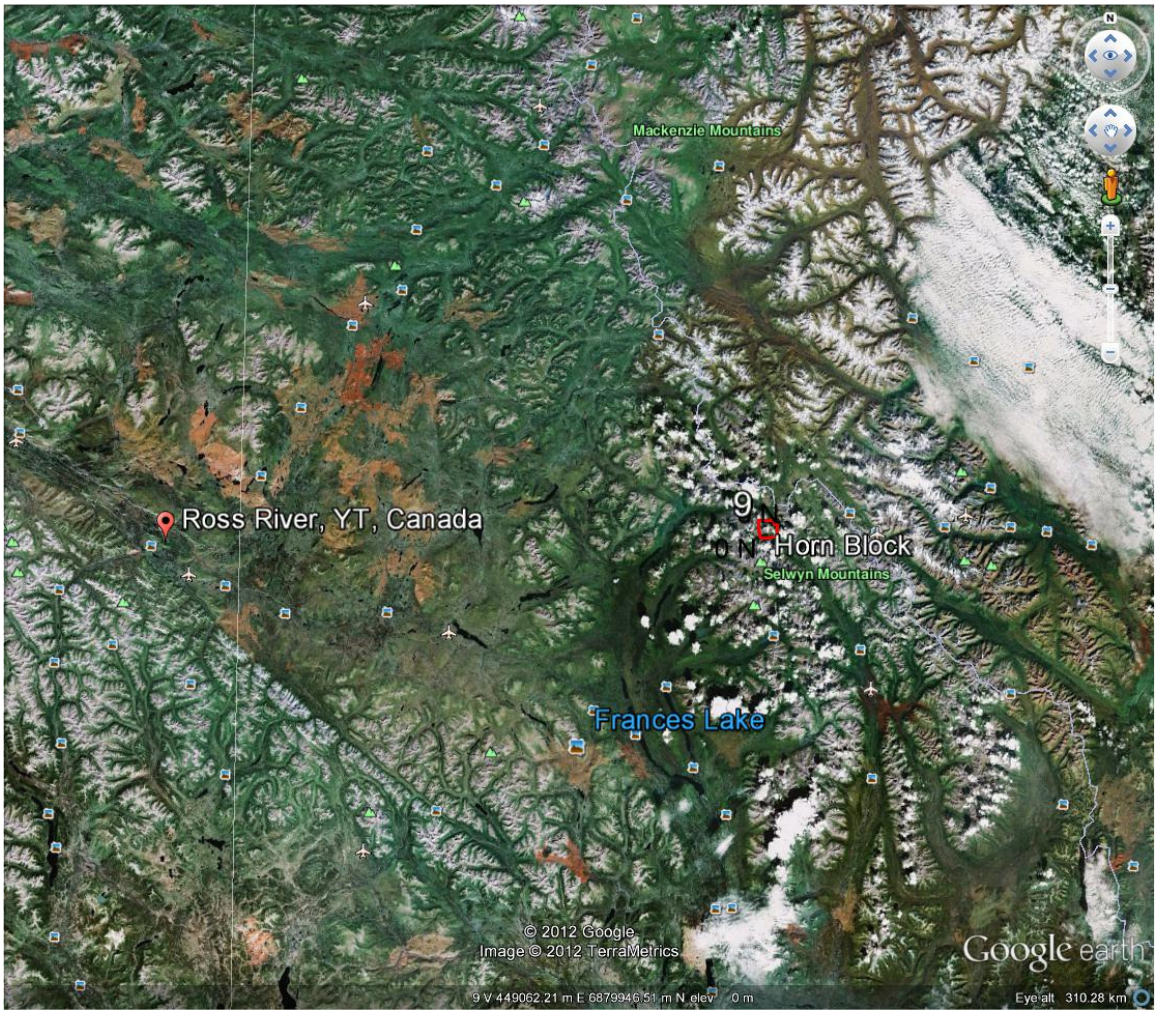


Figure 2: Horn block location relative Ross River, Yukon Territory on Google Earth.

The Horn block is approximately 6 km by 5.5 km (Figure 3). A total of 338 line kilometers of magnetic and radiometric data were flown for this survey; this total includes tie lines and survey lines.

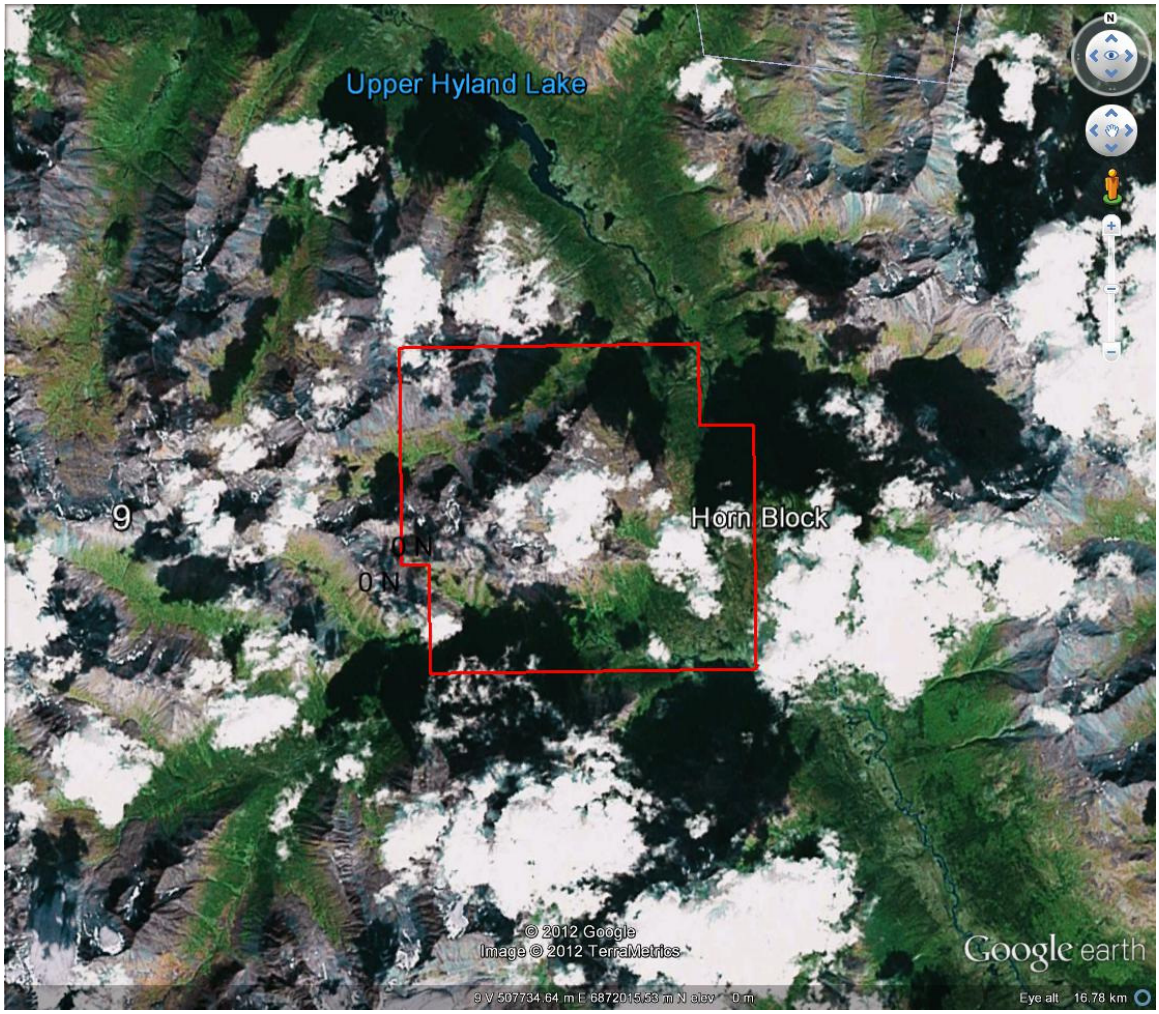


Figure 3: Horn block survey boundary in red.

The Horn block survey lines were flown at 100 meter spacing at a 000°/180° heading; the tie lines were flown at 1 km spacing at a heading of 090°/270° (Figures 4 and 5).

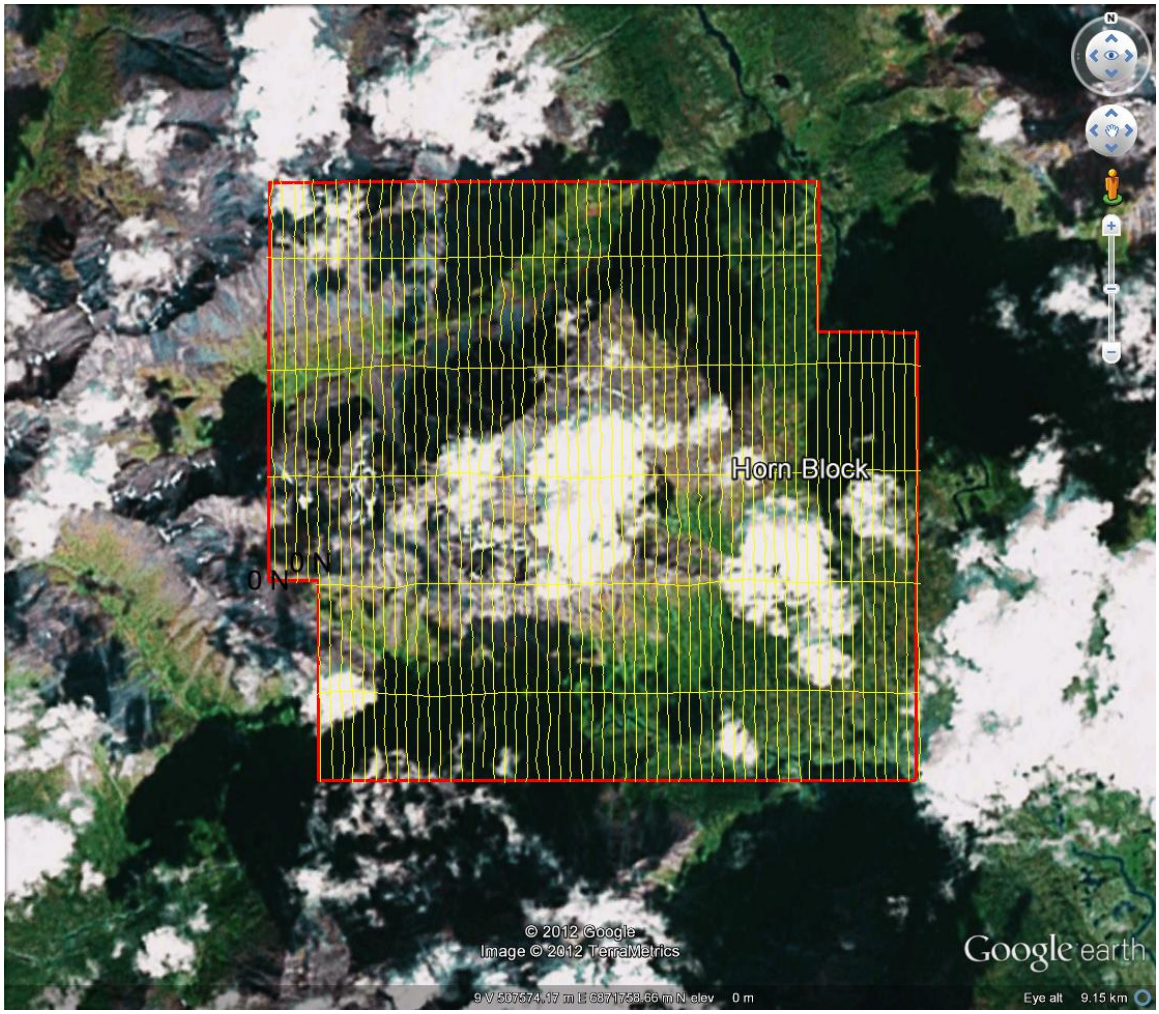


Figure 4: Plan View - Horn block with survey and tie lines outlined in yellow and the boundary in red.

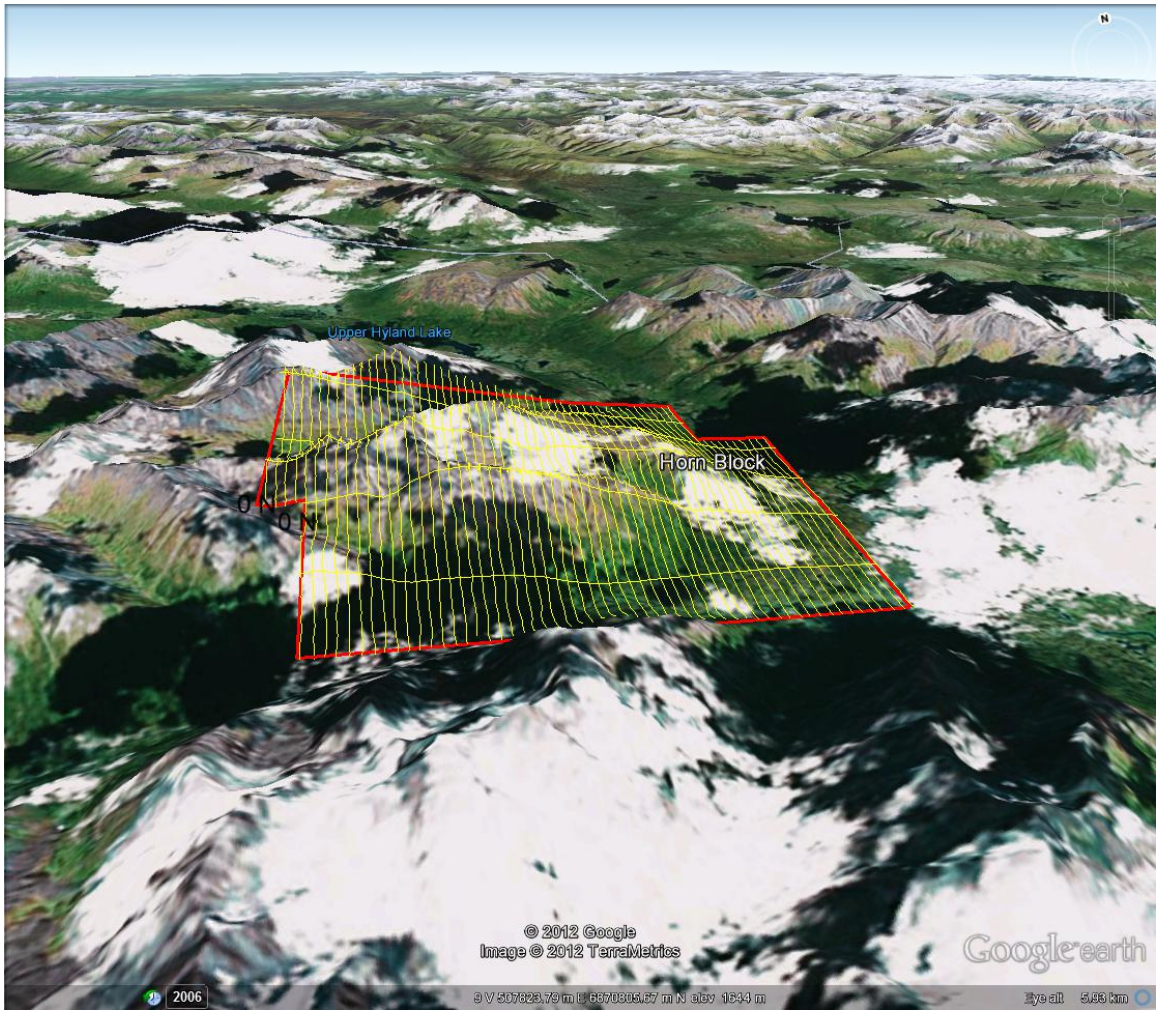


Figure 5: Terrain View - Horn block with survey and tie lines outlined in yellow and the boundary in red.

1.2 Survey Specifications:

The geodetic system used for this survey is WGS 84 and the area is contained in zone 9N (Figure 6). The survey data acquisition specifications and coordinates for Horn block survey are specified as followed (Tables 1 to 2).

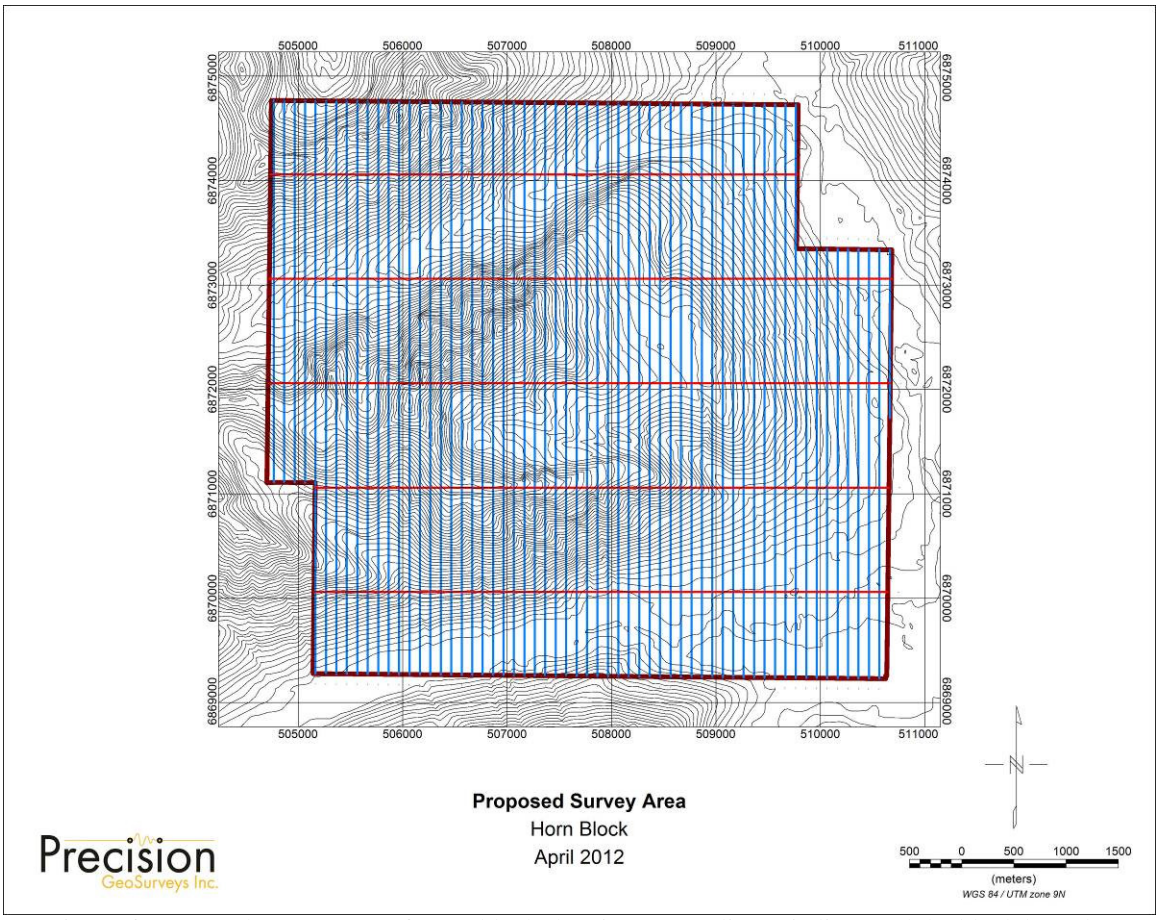


Figure 6: Proposed survey map of Horn block showing survey lines, tie lines and the block boundary.

Survey block	Line Spacing m	Planned Survey Line km	Planned Tie Line km	Total Planned Line km	Total Actual Flown km	Survey Line Orientation	Nominal Survey Height m
Horn	100	307	28	335	338	000°/180°	35
Total				335	338		

Table 1: Horn block survey acquisition specifications.

Longitude	Latitude	Easting	Northing
128.90838276	61.97241009	504802.54	6871109.87
128.91034759	61.97237547	504700.09	6871106.19
128.90942991	62.00523821	504742.92	6874767.20
128.84061118	62.00492455	508346.78	6874739.32
128.84068771	62.00489771	508342.67	6874735.83
128.81309567	62.00477334	509788.27	6874726.40
128.81349592	61.99240412	509770.69	6873348.12
128.79605072	61.99228069	510684.87	6873337.32
128.79726759	61.95563084	510634.46	6869253.67
128.79743887	61.95567598	510625.12	6869259.00
128.79744059	61.95541566	510625.18	6869230.24
128.90196912	61.95596048	505141.95	6869277.99
128.90153496	61.97236946	505161.59	6871106.49

Table 2: Horn block survey polygon coordinates using WGS 84 in zone 9N.

2.0 Geophysical Data:

Geophysical data are collected in a variety of ways and are used to aid in the exploration and determination of geology, mineral deposits, oil and gas deposits, contaminated land sites and UXO detection.

For the purposes of this survey, airborne magnetic and radiometric data were collected to serve in the exploration of the Horn block which contains rocks that are prospective for gold mineralization.

2.1 Magnetic Data:

Magnetic surveying is probably the most common airborne survey type to be conducted for both mineral and hydrocarbon exploration. The type of survey specifications, instrumentation, and interpretation procedures, depend on the objectives of the survey. Typically magnetic surveys are performed for:

1. Geological Mapping to aid in mapping lithology, structure and alteration in both hard rock environments and for mapping basement lithology, structure and alteration in sedimentary basins or for regional tectonic studies.
2. Depth to Basement mapping for exploration in sedimentary basins or mineralization associated with the basement surface.

2.2 Radiometric Data:

Radiometric surveys detect and map natural radioactive emanations, called gamma rays, from rocks and soils. All detectable gamma radiation from earth materials come from the natural decay products of three primary elements; uranium (U), thorium (Th), and potassium (K). The purpose of radiometric surveys is to determine either the absolute and relative amounts of U, Th, and K in surface rocks and soils.

Radiometric data were collected simultaneously along with the acquisition of magnetic data. Patches of snow cover were found on the property that could compromise the quality of radiometric data as radiation from the ground is significantly attenuated and thus the counts measured are reduced. For example, 2 cm of snow cover can reduce the penetration of gamma ray radiation by 35 % (*IAEA, 2003*).

3.0 Survey Operations:

Precision GeoSurveys will be operating out of Inconnu Lodge, YT. The crew will have the base station set up prior to the start of the survey. The experience of the pilot helped to ensure that the data quality objectives were met and that the safety of the flight crew was never compromised given the potential risks involved in airborne surveying. Field processing and quality control checks are done daily.

3.1 Operations Base and Crew:

The base of operations for this survey was at the Inconnu Lodge, Yukon Territory, Canada. The Precision crew consisted of three members:

Harmen Keyser– Pilot
Erik Keyser - Operator
Jenny Poon - Geophysicist

The survey was started on August 12, 2012 and completed on August 16, 2012. It encountered delays due to poor weather; rain and low clouds.

3.2 Base Station Specifications:

Two magnetic base stations were set up before every flight to ensure that diurnal activity was recorded during the survey flights. In this case, two GEM GSM 19T base stations were plotted in the bushes. GEM 3 (Serial # 5081669) and GEM 5 (Serial # 1094678) were located outside of Inconnu Lodge, YT, Canada (Table 3).

Station name	Easting/ Northing	Longitude/ Latitude	Datum/ Projection
GEM 3 (Serial # 5081669)	0437049E, 6853758N	130° 11' 40.379" W 61° 48' 41.338" N	WGS84, Zone 9N
GEM 5 (Serial # 1094678)	0437054E, 6853758N	130° 11' 40.038" W 61° 48' 41.341" N	WGS84, Zone 9N

Table 3: Base station specifications.

Base station readings were reviewed at regular intervals to ensure that no data were collected during periods with high diurnal activity (greater than 5 nT per minute). The base stations were installed at a magnetically noise-free area, away from metallic items such as steel objects, vehicles, or power lines (Figure 7) that could affect the survey data.



Figure 7: GEM 3 (left) and GEM 5 (right) base station locations.

The diurnal magnetic variations recorded from the stationary base stations are removed from the magnetic data recorded in flight to ensure that the anomalies seen are real and not due to solar activity.

3.3 Field Processing and Quality Control:

On a flight-by-flight basis, the survey data were transferred onto a USB flash drive and copied onto a field data processing laptop. The raw data files are in PEI binary data format and are converted into Geosoft GDB database format. Using Geosoft Oasis Montaj 7.5, the quality of the data is inspected to see if it meets the contract specifications (see Table 4). If survey and tie lines exhibit excessive deviation from (left/right or up/down) the contract specifications, or were considered to be inferior quality, were reflown. Any suspicious anomalies, especially those found on a single flight line, were reflown. All re-flights will be a minimum of 2000 m long and survey line re-flights crosses at least two tie lines, and tie line re-flights will cross at least 7 survey lines where applicable. For this survey project, no re-flights were required due to diurnal or equipment malfunctions.

Specification	Technology	Details
Line Spacing	Position	Flight lines deviate from flight path by more than +/- 20 m left/ right for 1 km or more.
Height		Flight lines deviate from height by more than +/- 10 up/down (with a nominal flight height of 35 m above ground) for 1 km or more.
Diurnal Variations	Magnetics	Non-linear magnetic diurnal variations exceed 10nT from a linear chord of length one (1) minute
Normalized 4th Difference		Magnetic data exceeding 0.30 nT peak to peak for distances greater than 1 km or more (provided noise is not due to geological or cultural features).
Test Line Data	Radiometrics	If signals from the four spectrometer windows (K, Th, U, and TC) over the test line exceed by more than 12%, the flights shall be re-flown or suspended.

Table 4: Contract re-flight specifications.

Due to rugged, steep terrain, and tall trees (of more than 40 m in height), C-GOHK could not maintain a nominal height of 35 m without compromising the safety of the flight crew. Hence, C-GOHK flew at a mean height of 50 m.

4.0 Aircraft and Equipment:

All geophysical and subsidiary equipment are carefully installed on Precision GeoSurvey's aircraft. For this survey, a magnetometer, spectrometer, a data acquisition system, base stations, laser altimeter, pilot guidance unit (PGU), and a GPS navigation system were required to carry out the survey and collect quality, high resolution data. The survey magnetometer was carried in an approved "stinger" configuration to enhance flight safety and improve data quality in this mountainous terrain.

4.1 Aircraft:

Precision GeoSurveys flew the blocks using a Eurocopter AS350 helicopter (Figure 8), registration CGOHK. The survey lines were flown at a nominal line spacing of one hundred (100) meters and the tie lines were flown at 1 km spacing for both the magnetometer and spectrometer. The average survey elevation was 50 meters vertically above ground without compromising the safety of the flight crew.



Figure 8: Eurocopter AS350 equipped with mag stinger for magnetic data acquisition, and internal spectrometer crystals for radiometric data acquisition.

4.2 Equipment:

4.2.1 AGIS:

The Airborne Geophysical Information System, AGIS, (Figure 9), is the main computer used in data recording, data synchronizing, displaying real-time QC data for the geophysical operator, and the generation of navigation information for the pilot and operator display system.



Figure 9: AGIS installed in the Eurocopter AS350.

The AGIS was manufactured by Pico Envirotec; therefore the system uses standardized Pico software and external sensors are connected to the system via RS-232 serial communication cables. The AGIS data format is easily converted into Geosoft or ASCII file formats by a supplied conversion program called PEIView. Additional Pico software allows for post real time magnetic compensation and survey quality control procedures.

4.2.2 Magnetometer:

The magnetometer used by Precision GeoSurveys is a Scintrex cesium vapor CS-3 magnetometer. The system was housed in a front mounted "stinger" (Figure 10). The CS-3 is a high sensitivity/low noise magnetometer with automatic hemisphere switching and a wide voltage range, the static noise rating for the unit is +/- 0.01 nT. On the AGIS screen the operator can view the raw magnetic response, the magnetic fourth difference, aircraft position, and the survey altitude for immediate QC of the magnetic data. The magnetic data are recorded at 10 Hz. A magnetic compensator is also used to remove noise created by the movement of the helicopter as it pitches, rolls and yaws within the Earth's geomagnetic field.



Figure 10: View of the mag stinger.

4.2.3 Spectrometer:

The IRIS, or Integrated Radiometric Information System is a fully integrated, gamma radiation detection system containing 16.8 litres of NaI (T1) downward looking crystals and 4.2 litres NaI (T1) upward looking crystals (Figure 11). The IRIS is equipped with upward-shielding high density RayShield® gamma-attenuating material to minimize cosmic and solar gamma noise. Real time data acquisition, navigation and communication tasks are integrated into a single unit that is installed in the rear of the aircraft as indicated below. Information such as total count, counts of various radioelements (K, U, Th, etc.), temperature, cosmic radiation, barometric pressure, atmospheric humidity and survey altitude can all be monitored on the AGIS screen for immediate QC. All the radiometric data are recorded at 1 Hz.

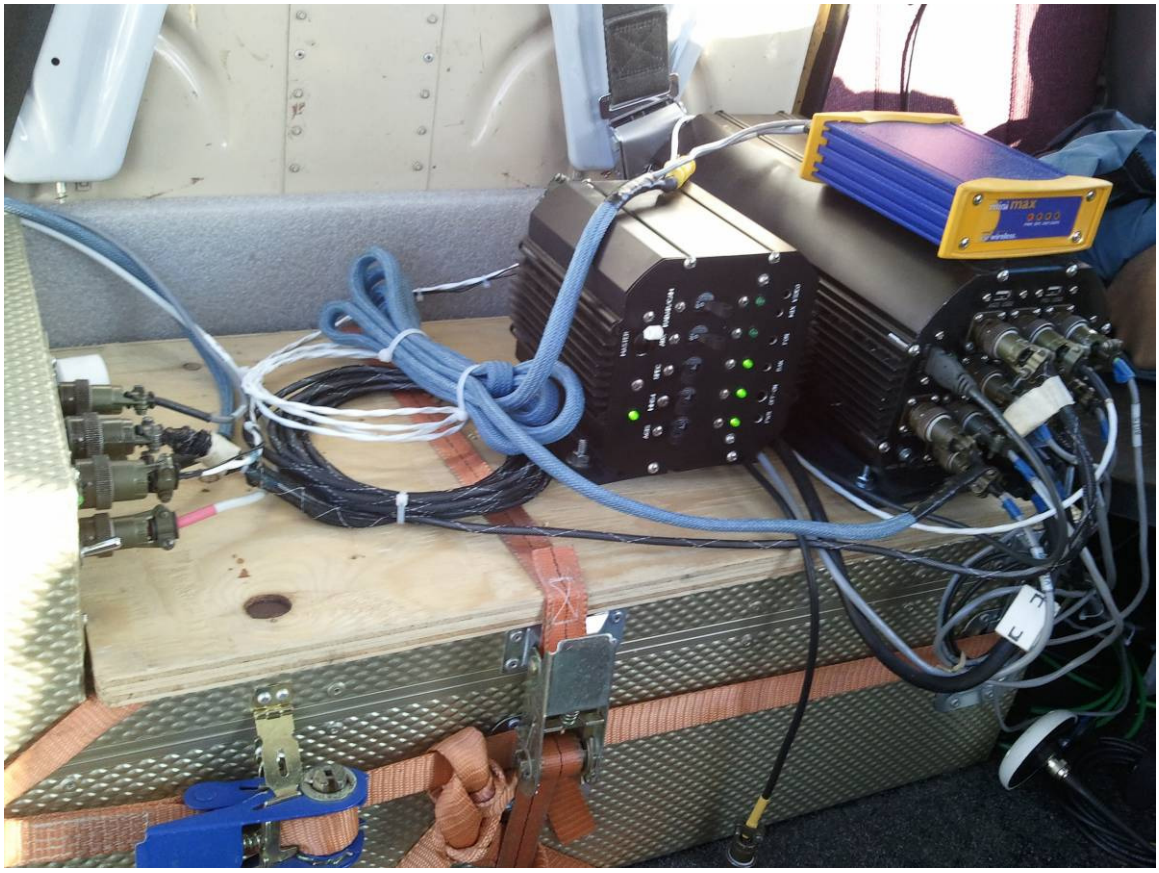


Figure 11: One of the IRIS strapped in the back seat of the Eurocopter AS350.

4.2.4 Base Station:

For monitoring and recording of the Earth's diurnal magnetic field variation, Precision GeoSurveys operates two magnetometer base stations continuously throughout the airborne data acquisition survey. Precision GeoSurveys operates two GEM GSM-19T magnetometer base stations. The base stations are installed mounted close to the survey blocks, and in an area with low magnetic gradient, as possible to give accurate magnetic field data. It is located in an area away from electric transmission power lines and moving ferrous objects, such as aircraft and motor vehicles that could affect the survey data integrity.

The GEM GSM-19T magnetometer with GPS (Figure 12) uses the proton precession technology sampling at a rate of 0.5 Hz. The GSM-19T has an accuracy of +/- 0.2 nT at 1 Hz. Base station data recorded in the solid-state memory of the base station, are downloaded onto a field laptop using GEMLink 5.0 software. Profile plots of the base station readings are generated and updated at the end of each survey day



Figure 12: GEM GSM-19T proton precession magnetometer.

4.2.5 Laser Altimeter:

The pilot is provided with terrain guidance and clearance information from an Acuity AccuRange AR3000 laser altimeter (Figure 13). This is attached at the aft end of the magnetometer boom. The AR3000 sensor is a time-of-flight sensor that measures distance by a rapidly-modulated and collimated laser beam that creates a dot on the target surface. The maximum range of the laser altimeter is 300 m off of natural surfaces with 90% reflectance and 3 km off special reflectors. Within the sensor unit, reflected signal light is collected by the lens and focused onto a photodiode. Through serial communications and analog outputs, the distance data are transmitted and collected by the AGIS at 10 Hz.



Figure 13: Acuity AccuRange AR3000 laser altimeter.

4.2.6 Pilot Guidance Unit:

The PGU (Pilot Guidance Unit) is a graphical display type unit that provides continuous steering and elevation information to the pilot (Figure 14). It is mounted remotely from the data system on top of the instrument panel. The PGU assists the pilot to keep the helicopter on the flight path and at the desired ground clearance.



Figure14: Pilot Guidance Unit.

The LCD monitor measures 7 inches, with a full VGA 800 x 600 pixel display. The CPU for the PGU is housed in the PC-104 console and uses Windows XP Embedded operating system control, with input from the GPS antenna, laser altimeter, and AGIS.

4.2.7 GPS Navigation System:

A Garmin GPS 16x-HVS navigation system integrated with the pilot display (PGU) and AGIS provided navigational information and control. The GPS 16x are complete GPS sensor with embedded receiver and antenna. It's capable of tracking multiple satellites at a time while providing fast time-to-first-fix, one-second navigation updates, and at low power consumption. This GPS sensor includes the capability of FAA Wide Area Augmentation System (WAAS) differential GPS.



Figure 15: Garmin GPS 16x navigation system.

The survey flight lines (coordinates) were programmed onto AGIS prior to the start of the survey and information will be displayed onto the pilot guidance unit (PGU) to provide airborne navigation.

5.0 Data Acquisition Equipment Checks and Calibration:

At the start of the survey, airborne equipment tests were conducted. There are three tests conducted for the airborne magnetometer: compensation flight, lag test, and the heading error test (clover leaf test). Gamma ray spectrometer checks and calibrations are also conducted prior to the start of the survey. The three tests conducted were the calibration pad test, cosmic flight test, and the Brekenridge test range.

5.1 Magnetometer Checks:

5.1.1 Compensation Flight Test:

During aeromagnetic surveying noise is introduced to the magnetic data by the aircraft itself. Movement in the aircraft (roll, pitch and yaw) and the permanent magnetization of the aircraft parts (engine and other ferric objects) are large contributing factors to this noise. To remove this noise a process called magnetic compensation is implemented. The magnetic compensation process starts with a test flight at the beginning of the survey where the aircraft flies in the four orthogonal headings required for the survey ($000^o/180^o$ and $090^o/270^o$ in the case of this survey) at an altitude (typically > 1,500 m AGL) where there is no ground effect in the magnetic data. In each heading, three specified roll, pitch,

and yaw maneuvers are performed by the pilot; these maneuvers provide the data that are required to calculate the necessary parameters for compensating the magnetic data.

5.1.2 Lag Test:

A lag test was performed to determine the relationship between the time the digital reading was recorded by the instrument and the time for the position fix that the fiducial of the reading was obtained by the GPS system.

The test was flown in the four orthogonal headings over an identifiable magnetic anomaly (ie.Truck, Trailer, etc.) at survey speed and height. A lag of 10 fiducials (1.0 seconds) was determined from the lag test.

5.1.3 Heading Error Test:

To determine the magnetic heading effect a cloverleaf pattern flight test was conducted. The cloverleaf test was flown in the same heading as the survey and tie lines at 300 m AGL in area with low magnetic gradient. For each direction, it must fly over a recognizable feature on the ground in order to calculate the heading error. For all four directions it must pass over the same mid-point all four times.

5.2 Gamma-ray Spectrometer Checks and Calibrations:

Pre-survey calibrations and testing of the GRS-10 airborne gamma-ray spectrometry system were carried out prior the start of the survey. The calibration of the spectrometer system involved three tests which enabled the conversion of airborne data to ground concentration of natural radioactive elements. These tests were the calibration pad test, cosmic flight test, and the Breckenridge test range. The measurements were made in accordance with IAEA technical report series No. 323, “Airborne Gamma Ray Spectrometer Surveying”, and AGSO Record 1995/60, “A Guide to the Technical Specification for Airborne Gamma-Ray Surveys”.

5.2.1 Calibration Pad Test:

The calibration pad test was conducted by Pico Envirotec at the GSC (Geological Survey of Canada) testing facility in Ottawa, Ontario over the approved GSC calibration pad. It is a slab of concrete containing known concentrations of the radioelements (K, Th, and U) and is ideally used to stimulate a geological source of radiation. The measurements collected from the calibration pad test are used to determine the Compton scattering and Grasty Backscatter (spectral overlap between element windows) coefficients.

5.2.2 Cosmic Flight Test:

As the height of the aircraft increases, radiation in each spectral window increases Hornnentially due to the radiation of cosmic origin. Also, the background source of radiation from the aircraft itself is constant. The cosmic flight test is conducted to determine the aircraft background attenuation coefficients for the detector crystal packs and the cosmic coefficients.

The pilot is required to fly over the same location repeatedly in opposite directions starting from 1,500 m to 3,000 m at every 500 m interval for approximately 2 minutes each. Due to extremely high elevation in the survey area and low cloud cover, the test was not carried out within the survey area for safety reasons. Therefore, the standard values recommended for a single crystal pack were obtained from the IAEA Technical report.

5.2.3 Brekenridge Test Range:

The Brekenridge test range is very similar to the cosmic flight test but is conducted at lower elevations (from ground level). The pilot is required to fly over the same location at the following elevations in meters above ground; 30, 50, 100, 150, 200, 250, and 300. As the distance of the aircraft increases away from the radioactive source, the source signature Hornnentially degrades. As a result, this test is used to determine the altitude attenuation coefficients and the radio-element sensitivity of the airborne spectrometer system.

6.0 Data Processing:

After all the data are collected from a survey flight several procedures are undertaken to ensure that the data meet a high standard of quality. All data were processed using Pico Envirotec software and Geosoft Oasis Montaj geophysical processing software.

6.1 Magnetic Processing:

Before any processing and editing of the raw magnetic data, the data obtained from the compensation flight test must be applied to the raw magnetic data. A computer program called PEIComp is used to create a model from the compensation flight test for each survey to remove the noise induced by aircraft movement; this model is applied to each survey flight so the data can be further processed.

Filtering is applied to the laser altimeter data to remove vegetation clutter and to show the actual ground clearance. To remove vegetation clutter a Rolling Statistic filter is applied to the laser altimeter data and a low pass filter is used to smooth out the laser altimeter profile to remove isolated noise. As a result, filtering the data will yield a more uniform surface in close conformance with the actual terrain.

The processing of the magnetic data involved the correction for diurnal variations. The base station data is edited, plotted and merged into a Geosoft (.gdb) database daily. The airborne magnetic data are corrected for diurnal variations by subtracting the observed

magnetic base station deviations. Following the diurnal correction, a lag correction is applied. A lag correction of 1.0 seconds was applied to the total magnetic field data to compensate for the lag in the recording system as the magnetometer sensor flies 5.70 m ahead of the GPS antenna. Lastly, a heading correction was applied to the data.

Some filtering of the magnetic data is also required. A Non Linear filter was used for spike removal. The 1D Non-Linear Filter is ideal for removing very short wavelength, but high amplitude features from data. It is often thought of as a noise spike-rejection filter, but it can also be effective for removing short wavelength geological features, such as signals from surficial features. The 1D Non-Linear Filter is used to locate and remove data that is recognized as noise. The algorithm is 'non- linear' because it looks at each data point and decides if that datum is noise or a valid signal. If the point is noise, it is simply removed and replaced by an estimate based on surrounding data points. Parts of the data that are not considered noise are not modified. The combination of a Non-Linear filter for noise removal and a low pass trend enhancement filter resulted in level data as indicated in the results section of this report. The low pass filter smooths out the magnetic profile to remove isolated noise.

The corrected magnetic data from the survey and tie lines were used to level the entire survey dataset. Two forms of leveling are applied to the corrected data: conventional leveling and micro-leveling. There are two components to conventional leveling; the first involves statistical leveling of magnetic data to correct miss ties (intersection errors) followed by specific patterns or trends. For the second component, tie lines are brought to a common regional base value using the mean value of the cross-level error. To obtain the best possible leveled data, individual corrections are edited at selected intersections. Lastly, micro-leveling is applied to the corrected conventional leveled data. This will remove any residual noise related to flight line direction, and any low amplitude component of flight line noise, that still remains in the data after tie line leveling.

6.2 Radiometric Processing:

Calibrating the spectrometer system in the helicopter is the first and vital step before the airborne radiometric data can be processed. Once calibration of the system has been complete, the radiometric data are processed by windowing the full spectrum to create channels for U, K, Th and total count. A 5-point Hanning filter was applied to the Cosmic window before going any further with processing the radiometric data.

Aircraft background and cosmic stripping corrections were applied to all three elements, and total count using the following formula:

$$C_{ac} = C_{lt} - (a_c + b_c * \mathrm{Cos}_f)$$

where: C_{ac} is the background and cosmic corrected channel
C_{lt} is the live time corrected channel
a_c is the aircraft background for this channel
b_c is the cosmic stripping coefficient for this channel
Cos_f is the filtered cosmic channel

The radon backgrounds are first removed followed by Compton stripping. Spectral overlap corrections are applied on to potassium, uranium, and thorium as part of the Compton stripping process. This is done by using the striping ratios that have been calculated for the spectrometer by prior calibration, this breaks the corrected elemental values down into the apparent radioelement concentrations. Lastly, attenuation corrections are applied to the data which involves nominal survey altitude corrections, in this case 50 metres is applied to total count, potassium, uranium, and thorium data.

With all corrections applied to the radiometric data, the final step is to convert the corrected potassium, uranium, and thorium to apparent radioelement concentrations using the following formula:

$$eE = C_{cor} / s$$

where: eE is the element concentration K(%) and equivalent element concentration of U(ppm) & Th(ppm)
s is the experimentally determined sensitivity
Ccor is the fully corrected channel

Finally, the natural air absorption dose rate is determined using the following formula:

$$E = 13.08 * K + 5.43 * eU + 2.69 * eTh$$

where: E is the absorption dose rate in nG/h
K is the concentration of potassium (%)
eU is the equivalent concentration of uranium (ppm)
eTh is the equivalent concentration of thorium (ppm)

To calculate for radiometric ratios it follows the guidelines in the IAEA report. Due to statistical uncertainties in the individual radioelement measurements, some care was taken in the calculation of the ratio in order to obtain statistically significant values. Following IAEA guidelines, the method of determining ratios of the eU/eTh, eU/K and eTh/K was as follows:

1. Any data points where the potassium concentration was less than 0.25 were neglected.

2. The element with the lowest corrected count rate was determined.
3. The element concentrations of adjacent points on either side of each data point were summed until they exceeded a certain threshold value. This threshold was set to be equivalent to 100 counts of the element with the lowest count rate. Additional minimum thresholds of 1.6% for Potassium, 20 ppm for thorium, and 30 ppm for uranium were set up to insure meaningful ratios.
4. The ratios were calculated using the accumulated sums.

With this method, the errors associated with the calculated ratios will be similar for all data points.

7.0 Deliverables:

All digital data will be presented on a compact disc (CD) and a copy of the logistic report and maps will be printed out. The survey data are presented as digital databases, maps, and report.

7.1 Digital Data:

The file format will be provided in two (2) formats, the first will be a .GDB file for use in Geosoft Oasis Montaj, the second format will be a .XYZ file, this is text file. A complete file provided in each format will contain both magnetic and radiometric data. Full description of the digital data and contents are included into the report (Appendix B).

The digital data are represented into grids. The following grids prepared for the Horn block are listed below:

- Digital terrain model (DTM)
- Leveled total magnetic intensity (TMI)
- Calculated vertical gradient (CVG) - first vertical derivative
- Potassium (Kcor) - radiometric data in concentrations
- Thorium (Thcor) - radiometric data in concentrations
- Uranium (Ucor) - radiometric data in concentrations
- Total count (TCcor) – radiometric data in concentrations
- Total count (TCexp) – radiometric data in Hornsure rate
- Thorium over Potassium ratio (eTh/%K ratio) – radiometric ratios
- Uranium over Potassium ratio (eU/%K ratio) – radiometric ratios
- Uranium over Thorium ratio (eU/%Th ratio) – radiometric ratios

7.2 KMZ Grids:

The digital data represented into grids are Hornrted into kmz files which can be displayed using Google Earth. The grids are laid overtop topography and rendered to give a 3D view.

7.3 Maps:

Maps were created for the Horn block at a scale of 1:46000. The following map products prepared are listed below:

Magnetic Maps (colour images with elevation contour lines):

- Digital terrain model
- Flight lines
- Total magnetic intensity
- Total magnetic intensity with plotted flight lines
- Calculated vertical gradient

Gamma-ray Spectrometry Maps (colour images with elevation contour lines):

- Potassium – equivalent concentration
- Thorium – equivalent concentration
- Uranium – equivalent concentration
- Total Count – equivalent dose rate
- Total Count (exp) – Exposure rate of SUM(%k, eU, eTh) * determined factors
- Thorium over Potassium ratio
- Uranium over Potassium ratio
- Uranium over Thorium ratio

All maps created were in prepared in World Geodetic System 84 (WGS 84) datum, and UTM zone 9N.

7.4 Report:

The report provides information about the acquisition, procedures, magnetic and radiometric processing, and presentation of the Horn block survey data. A pdf copy of the report is included along with the digital data and maps that are provided on the CD report.

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Appendix A

Equipment Specifications

- GEM GSM-19T Proton Precession Magnetometer (Base Station)
- Garmin GPS 16x-HVS
- Scintrex CS-3 Survey Magnetometer
- Bartington Mag-03 three-axis fluxgate magnetic field sensor
- Pico Envirotec GRS-10 Gamma Spectrometer
- Pico Envirotec AGIS data recorder system (for Navigation, Gamma spectrometer, VLF-EM and Magnetometer Data Acquisition)

GEM GSM-19T Proton Precession Magnetometer (Base Station)

Configuration Options	15
Cycle Time	999 to 0.5 sec
Environmental	-40 to 60 ° Celsius
Gradient Tolerance	7,000 nT/m
Magnetic Readings	299,593
Operating Range	10, 000 to 120,000 nT
Power	12 V @ 0.62 A
Sensitivity	0.1 nT @ 1 sec
Weight (Console/ Sensor)	3.2 Kg
Integrated GPS	Yes

Garmin GPS 16x-HVS

Receiver	WAAS enabled GPS receiver continuously tracks and uses multiple satellites to compute and update position	
Acquisition Times	Reacquisition: Less than 2 secs Hot: Approx. 1 sec (all data known) Warm: Approx. 38 secs (initial position, time, and almanac known; ephemeris unknown Cold: Approx 45 secs	
Sentence Rate	1 sec default; NMEA 0183 output interval configurable from 1 to 900 secs in 1-sec increment	
Interfaces	True RS-232 output, asynchronous serial input compatible with RS-232 or TTL voltage levels, RS-232 polartiy. User selectable baud rate: 4800, 9600, 19200, or 38400	
Accuracy	GPS Standard Positioning Service (SPS)	Position: <15 meters, 95% typical Velocity: 0.1 knot RMS steady state
	DGPS (USCG/RTCM)	Position: 3-5 meters, 95% typical Velocity: 0.1 knot RMS steady state
	DGPS (WAAS)	Position: <3 meters, 95% typical Velocity: 0.1 knot RMS steady state
	PPS Time	± Microsecond at rising edge of PPS pulse
	Dynamic	999 knots velocity (only limited at altitude greater than 60,000 feet, 3g dynamics

Scintrex CS-3 Survey Magnetometer

Operating Principal	Self-oscillation split-beam Cesium Vapor (non-radioactive Cs-133)
Operating Rage	15,000 to 105,000 nT
Gradient Tolerance	40,000 nT/metre
Operating Zones	10° to 85° and 95° to 170°
Hemisphere Switching	a) Automatic b) Electronic control actuated by the control voltage levels (TTL/CMOS) c) Manual
Sensitivity	0.0006 nT √Hz rms.
Noise Envelope	Typically 0.002 nT P-P, 0.1 to 1 Hz bandwidth
Heading Error	+/- 0.25 nT (inside the optical axis to the field direction angle range 15° to 75° and 105° to 165°)
Absolute Accuracy	<2.5 nT throughout range
Output	a) continuous signal at the Larmor frequency which is proportional to the magnetic field (proportionality constant 3.49857 Hz/nT) sine wave signal amplitude modulated on the power supply voltage b) square wave signal at the I/O connector, TTL/CMOS compatible
Information Bandwidth	Only limited by the magnetometer processor used
Sensor Head	Diameter: 63 mm (2.5”) Length: 160 mm (6.3”) Weight: 1.15 kg (2.6 lb)
Sensor Electronics	Diameter: 63 mm (2.5”) Length: 350 mm (13.8”) Weight: 1.5 kg (3.3 lb)
Cable, Sensor to Sensor Electronics	3m (9’ 8”), lengths up to 5m (16’ 4”) available
Operating Temperature	-40°C to +50°C
Humidity	Up to 100%, splash proof
Supply Power	24 to 35 Volts DC
Supply Current	Approx. 1.5A at start up, decreasing to 0.5A at 20°C
Power Up Time	Less than 15 minutes at -30°C

Bartington Mag-03 three-axis fluxgate magnetic field sensor

Number of axes	3
Bandwidth	0 to 3kHz at 50µT peak
Internal Noise: **Basic version** **Standard version** **Low Noise version**	 >10 to 20pTrms/√Hz at 1Hz 6 to ≤10pTrms/√Hz at 1Hz <6pTrms/√Hz at 1Hz
Scaling error (DC)	<±0.5%
Orthogonality error	<0.1°
Alignment error (Z axis to reference face)	<0.1°
Linearity error	<0.0015%
Frequency response	0 to 1kHz maximally flat, ±5% maximum at 1kHz
Input voltage	±12V to ±17V
Supply current	+30mA, -10mA (+1.4mA per 100µT for each axis)
Power supply rejection ratio	5µV/V (-106dB)
Analog output	±10V (±12V supply) swings to within 0.5V of supply voltage
Output impedance	10 Ω
Operating temperature range	-40°C to +70°C
Environmental protection	IP51
Dimensions (W x H x L)	32 x 32 x 152mm
Weight	160g
Enclosure material	Reinforced epoxy
Connector	ITT Cannon DEM-9P-NMB
Mating connector	ITT Cannon DEM-9S-NMB
Mounting	2 x M5 fixing holes

Pico Envirotec GRS-10 Gamma Spectrometer

Crystal volume	16.8 liters downward plus 4.2 liters upward
Resolution	256/512 channels
Tuning	Automatic using peak determination algorithm
Detector	Digital Peak
Calibration	Fully automated detector
Real Time	Linearization and gain stabilization
Communication	RS232
Detectors	Expandable to 10 detectors and digital peak
Count Rate	Up to 60,000 cps per detector
Count Capacity per channel	65545
Energy detection range:	36 KeV to 3 MeV
Cosmic channel	Above 3 MeV
Upward Shielding	RayShield® non-radioactive shielding on downward looking crystals
Downward Shielding	6mm lead plate on upward looking crystals
Spectra	Collected spectra of 256/512 channels, internal spectrum resolution 1024
Software	**Calibration:** High voltage adjustment, linearity correction coefficients calculation, and communication test support **Real Time Data Collection:** Automatic Gain real time control on natural isotopes, and PC based test and calibration software suite
Sensor	Each box containing two (2) gamma detection NaI(Tl) crystals – each 4.2 liters. (256 cu in.) (approx. 100 x 100 x 650 mm) Total volume of approx 8.4 litres or 512 cu in with detector electronics
Spectra Stabilization	Real time automatic corrections on radio nuclei: Th, Ur, K. No implanted sources.

Pico Envirotec AGIS data recorder system
(for Navigation, Gamma spectrometer, VLF-EM and Magnetometer Data Acquisition)

Functions	Airborne Geophysical Information System (AGIS) with integrated Global Positioning System Receiver (GPS) and all necessary navigation guidance software. Inputs for geophysical sensors - portable gamma ray spectrometer GRS-10, MMS4 Magnetometer, Totem 2A EM, A/D converter, temperature probe, humidity probe, barometric pressure probe, and laser altimeter. Output for the 2 line Pilot Indicator
Display	Touch screen with display of 800 x 600 pixels; customized keypad and operator keyboard. Multi-screen options for real-time viewing of all data inputs, fiducial points, flight line tracking, and GPS channels by operator.
GPS Navigation	Garmin 12-channel, WAAS-enabled
Data Sampling	Sensor dependent
Data Synchronization	Synchronized to GPS position
Data File	PEI Binary data format
Storage	80 GB
Supplied Software	**PEIView:** Allows fast data Quality Control (QC) **Data Format:** Geosoft GBN and ASCII output **PEIConv**: For survey preparation and survey plot after data acquisition
Software	**Calibration:** High voltage adjustment, linearity correction coefficients calculation, and communication test support **Real Time Data Collection:** Automatic Gain real time control on natural isotopes and PC based test and calibration software suite
Power Requirements	24 to 32 VDC
Temperature	Operating:-10 to +55 deg C; storage:-20 to +70 deg C

Appendix B

Digital File Descriptions

- Magnetic database description
- Radiometric database description
- Grids
- Maps

Magnetic Database:

Abbreviations used in the GDB files listed below:

Channel	Units	Description
X	m	UTM Easting - WGS84 Zone 9 North
Y	m	UTM Northing - WGS84 Zone 9 North
Long	deg	Longitude
Lat	deg	Latitude
Date	yyyy/mm/dd	Dates of the survey flight(s)
FLT		Flight Line numbers
Line		Line numbers
Galt	m	GPS height – WGS84 Zone 9 North
Lalt	m	Laser Altimeter readings
DTM	m	Digital Terrain Model
GPStime	Hours:min:secs	GPS time (UTC)
basemag	nT	Base station diurnal data
Mag	nT	Total Magnetic Intensity

Radiometric Database:

Abbreviations used in the GDB files listed below:

Channel	Units	Description
X	m	UTM Easting – WGS84 Zone 9 North
Y	m	UTM Northing – WGS84 Zone 9 North
Galt	m	GPS height – WGS84 Zone 9 North
Lalt	m	Laser Altimeter readings
DTM	m	Digital Terrain Model
BaroSTP_Kp	KiloPascal	Barometric Altitude (Pres and Temp Corrected)
Press_kP	KiloPascal	Atmospheric Pressure
Temp_degC	Degrees C	Air Temperature
COSFILT	counts/sec	Spectrometer - Filtered Cosmic
Tccor	µR	Dose Rate Equivalent
TCexp	µR/hour	Exposure Rate – SUM(%k, eU, eTh) * determined factors
Kcor	%	Equivalent Concentration – Potassium
Ucor	ppm	Equivalent Concentration – Uranium
Thcor	ppm	Equivalent Concentration – Thorium
THKratio		Spectrometer – eTh/%K ratio
Ukratio		Spectrometer – eU/%K ratio
UTHratio		Spectrometer – eU/eTh ratio
Date	yyyy/mm/dd	Dates of the survey flight(s)
FLT		Flight numbers
Line		Line numbers

Grids: WGS84 Datum, Zone 9N

File Name	Description
Horn_Block_DTM	Horn block digital terrain model
Horn_Block_TMI.grd	Horn block total magnetic intensity
Horn_Block_CVG.grd	Horn block calculated vertical gradient
Horn_Block_Kcor.grd	Horn block potassium (Kcor) equivalent concentration
Horn_Block_Thcor.grd	Horn block Thorium (Thcor) equivalent concentration
Horn_Block_Ucor.grd	Horn block Uranium (Ucor) equivalent concentration
Horn_Block_TCcor.grd	Horn block Total Count (TCcor) equivalent dose rate
Horn_Block_TCexp.grd	Horn block Total Count (TCexp) exposure rate
Horn_Block_THKratio.grd	Horn block thorium over potassium ratio (eTh/%K)
Horn_Block_UKratio.grd	Horn block uranium over potassium ratio (eU/%K)
Horn_Block_UThratio.grd	Horn block uranium over thorium ratio (eU/eTh)

Maps: WGS84 Datum, Zone 9N

File Name	Description
Horn_Block_DTM.pdf	Horn block digital terrain model
Horn_Block_FlightLines.pdf	Horn block flight lines flown
Horn_Block_TMI.pdf	Horn block total magnetic intensity
Horn_Block_TMI_with_Flightlines.pdf	Horn block total magnetic intensity with flight lines flown
Horn_Block_CVG. pdf	Horn block calculated vertical gradient
Horn_Block_Potassium_EquivalentConcentration_Radiometrics.pdf	Horn block potassium (Kcor) equivalent concentration
Horn_Block_Thorium_EquivalentConcentration_Radiometrics.pdf	Horn block Thorium (Thcor) equivalent concentration
Horn_Block_Uranium_EquivalentConcentration_Radiometrics.pdf	Horn block Uranium (Ucor) equivalent concentration
Horn_Block_TotalCount_EquivalentDoseRate_Radiometrics.pdf	Horn block Total Count (TCcor) equivalent dose rate
Horn_Block_TotalCount_HornsureRate_Radiometrics.pdf	Horn block Total Count (TCexp) exposure rate
Horn_Block_Thorium_over_Potassium_Ratio_Radiometrics.pdf	Horn block thorium over potassium ratio
Horn_Block_Uranium_over_Potassium_Ratio_Radiometrics. pdf	Horn block uranium over potassium ratio
Horn_CVG_Uranium_over_Thorium_Ratio_Radiometrics. pdf	Horn block uranium over thorium ratio

Appendix C

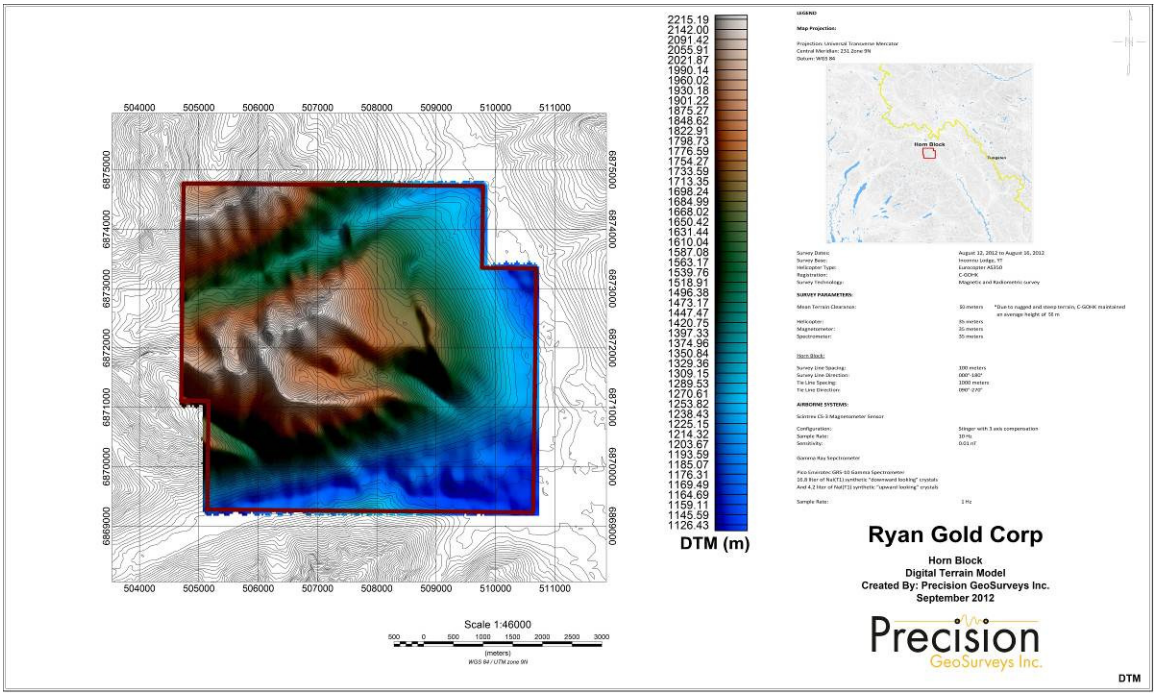
Horn Block Maps

Magnetic Maps (colour image with elevation contour lines):

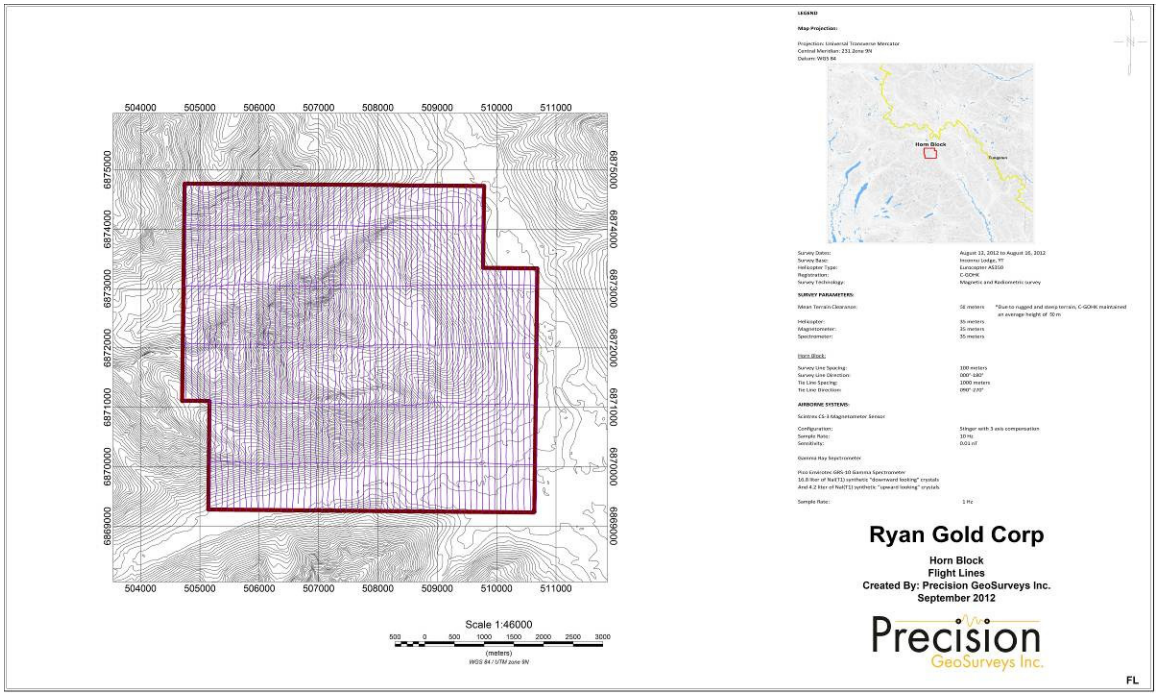
- Digital Terrain Model (DTM)
- Flight lines map
- Total Magnetic Intensity (TMI)
- Total Magnetic Intensity (TMI) with flight lines
- Calculated Vertical Gradient (CVG)

Gamma-Ray Spectrometry Maps (colour image with elevation contour lines):

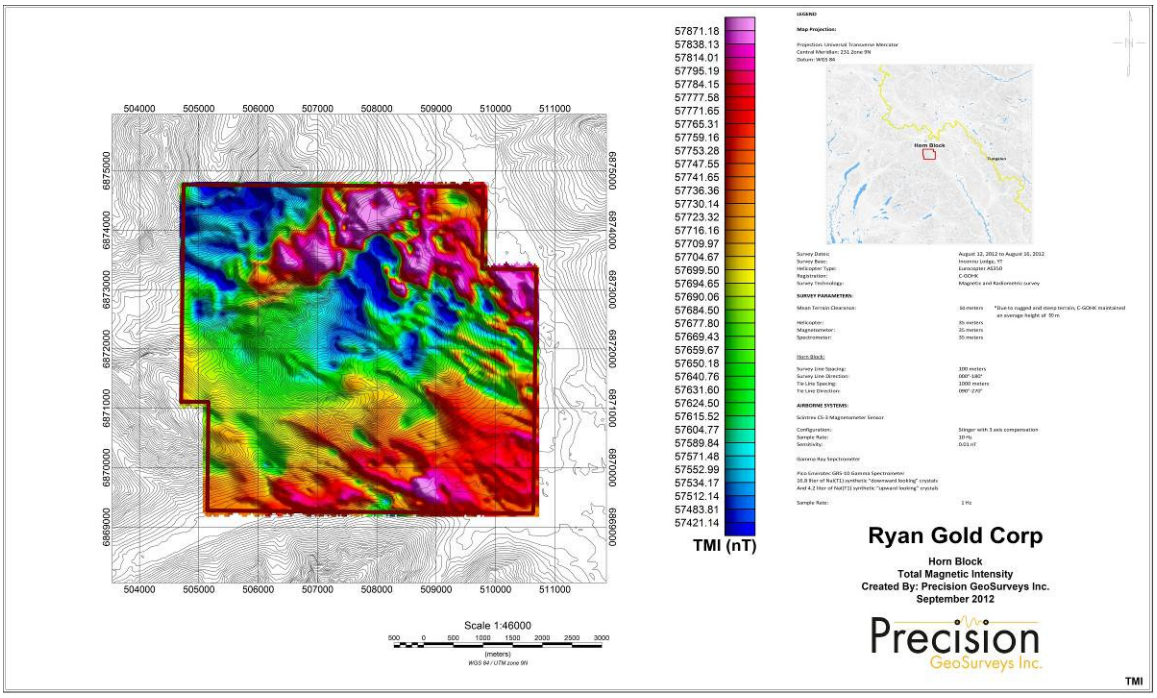
- Potassium – Equivalent Concentration (% K)
- Thorium – Equivalent Concentration (eTh)
- Uranium – Equivalent Concentration (eU)
- Total Count – Dose Rate Equivalent (TC)
- Total Count - Exposure Rate - SUM(%k, eU, eTh) * determined factors
- Thorium over Potassium Ratio - Spectrometer - eTh/%K ratio
- Uranium over Potassium Ratio - Spectrometer - eU/%K ratio
- Uranium over Thorium Ratio - Spectrometer - eU/eTh ratio



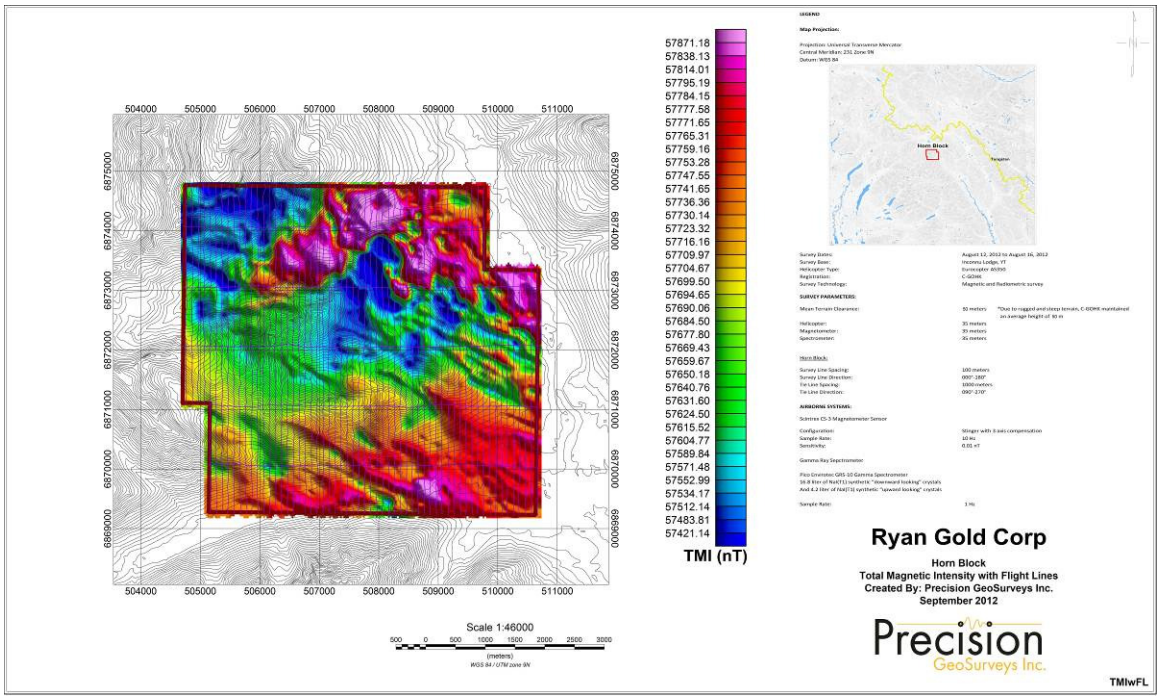
Map 1: Horn block digital terrain model.



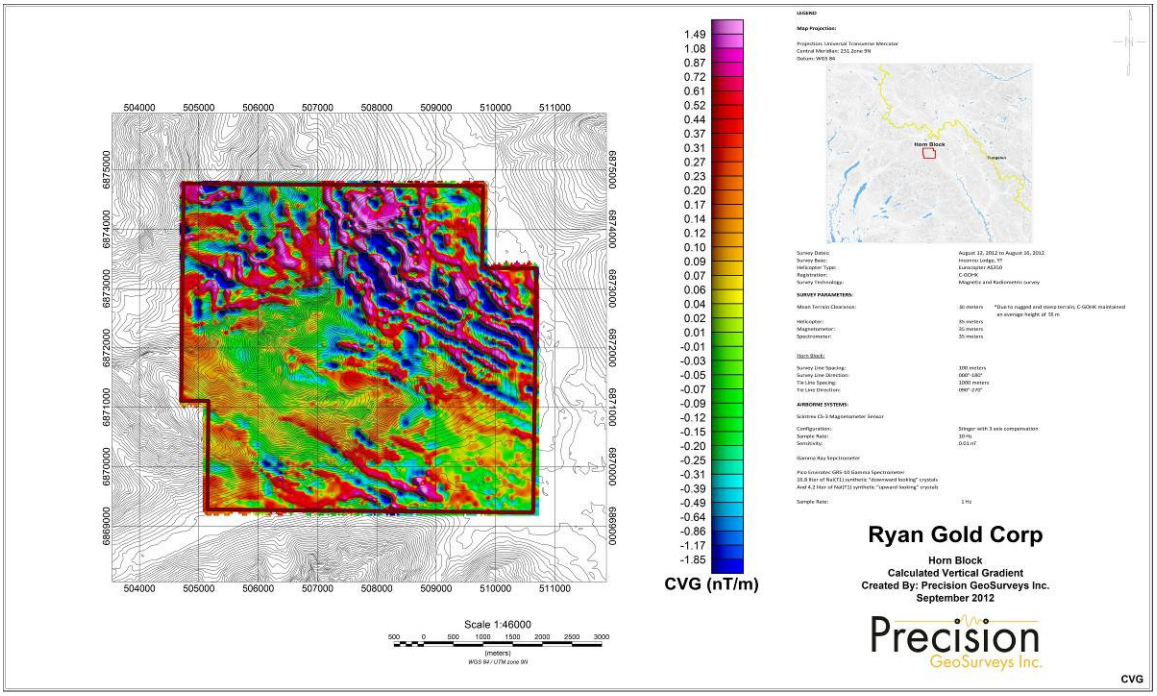
Map 2: Horn block flight lines.



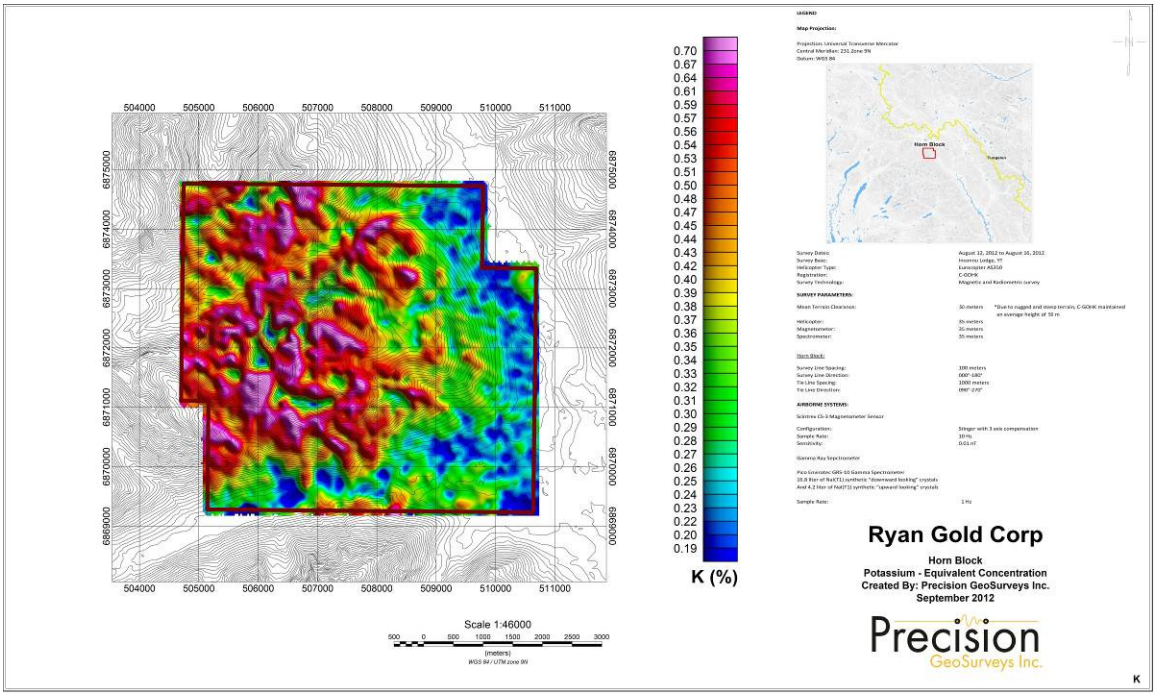
Map 3: Horn block total magnetic intensity.



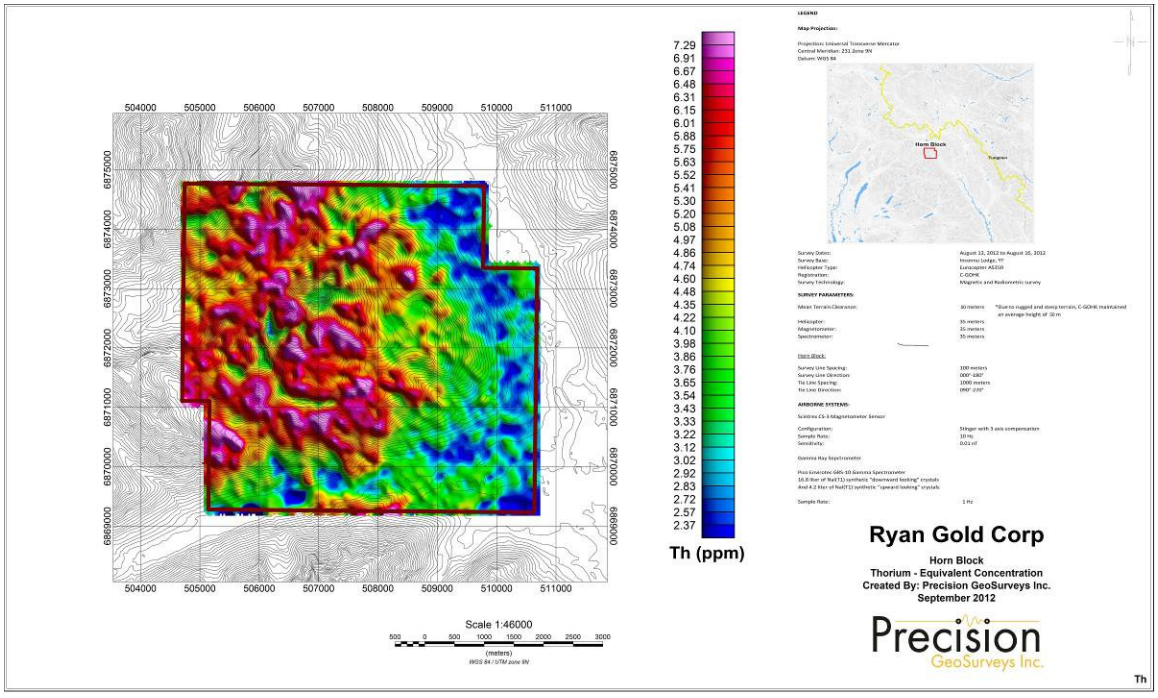
Map 4: Horn block total magnetic intensity with plotted flight lines.



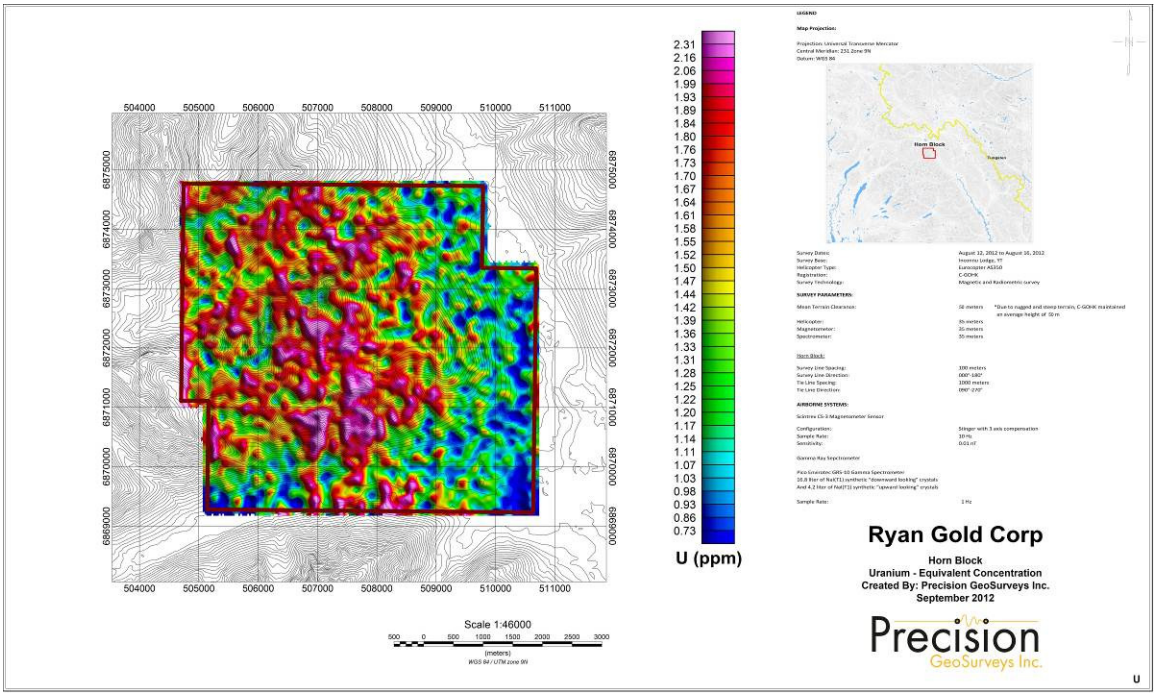
Map 5: Horn block calculated vertical gradient.



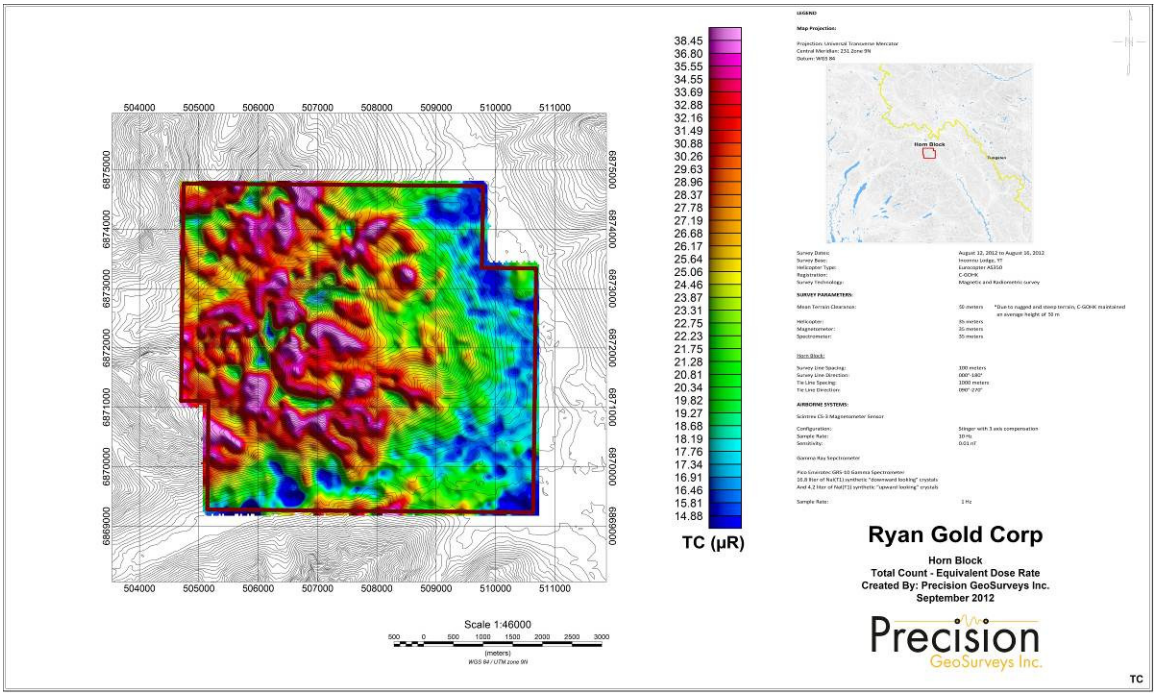
Map 6: Horn block potassium – equivalent concentration.



Map 7: Horn block thorium – equivalent concentration.

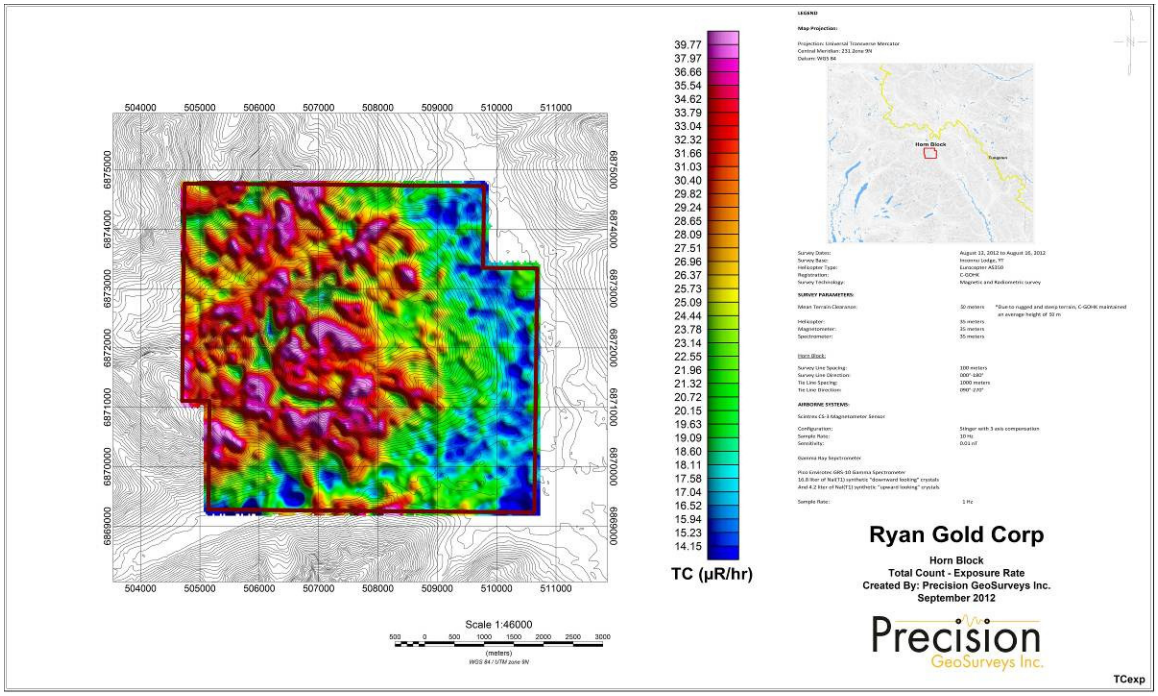


Map 8: Horn block uranium – equivalent concentration.



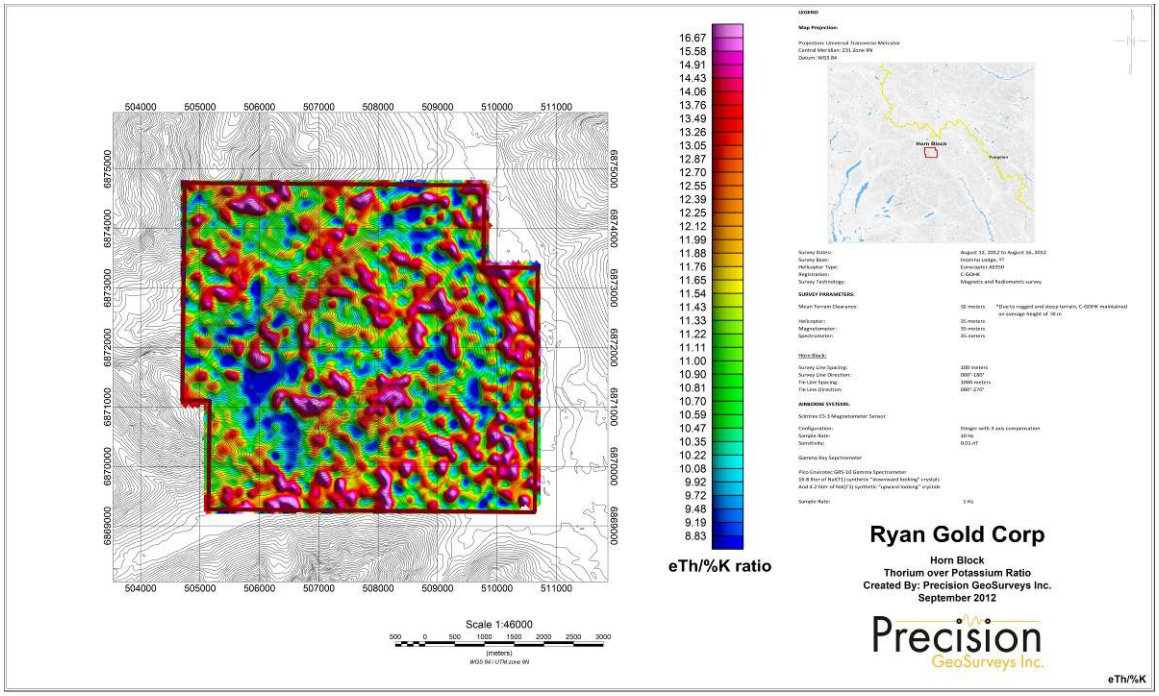
Map 9: Horn block total count – equivalent dose rate.

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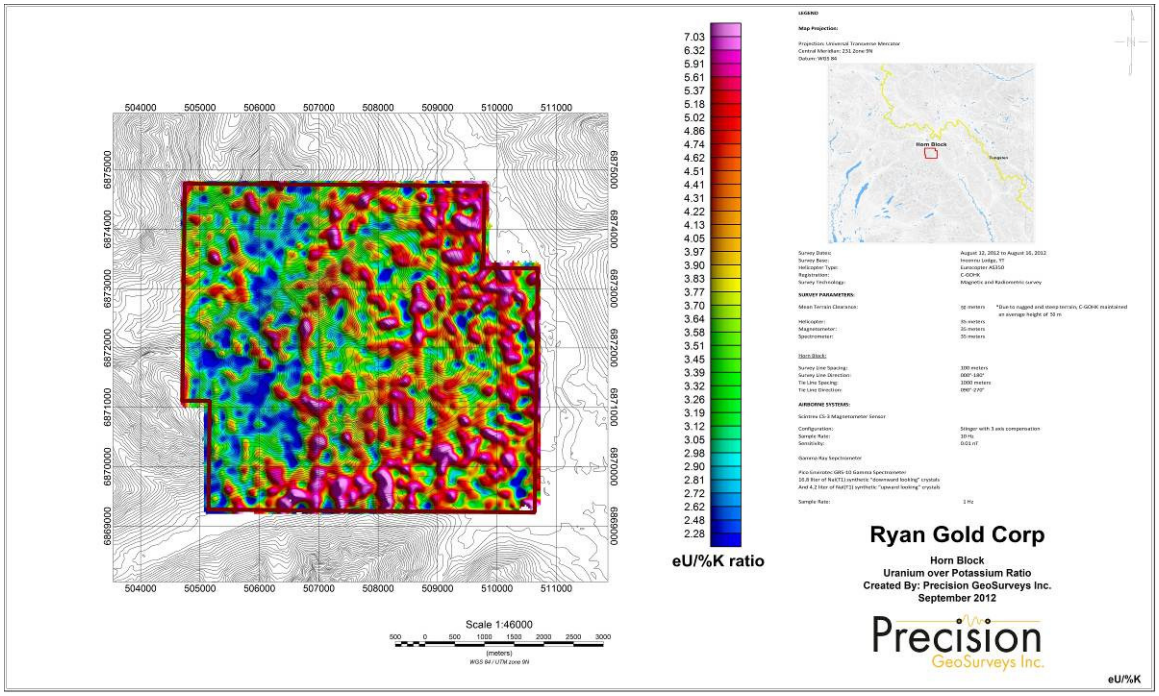
Map 10: Horn block total count – Exposure rate.

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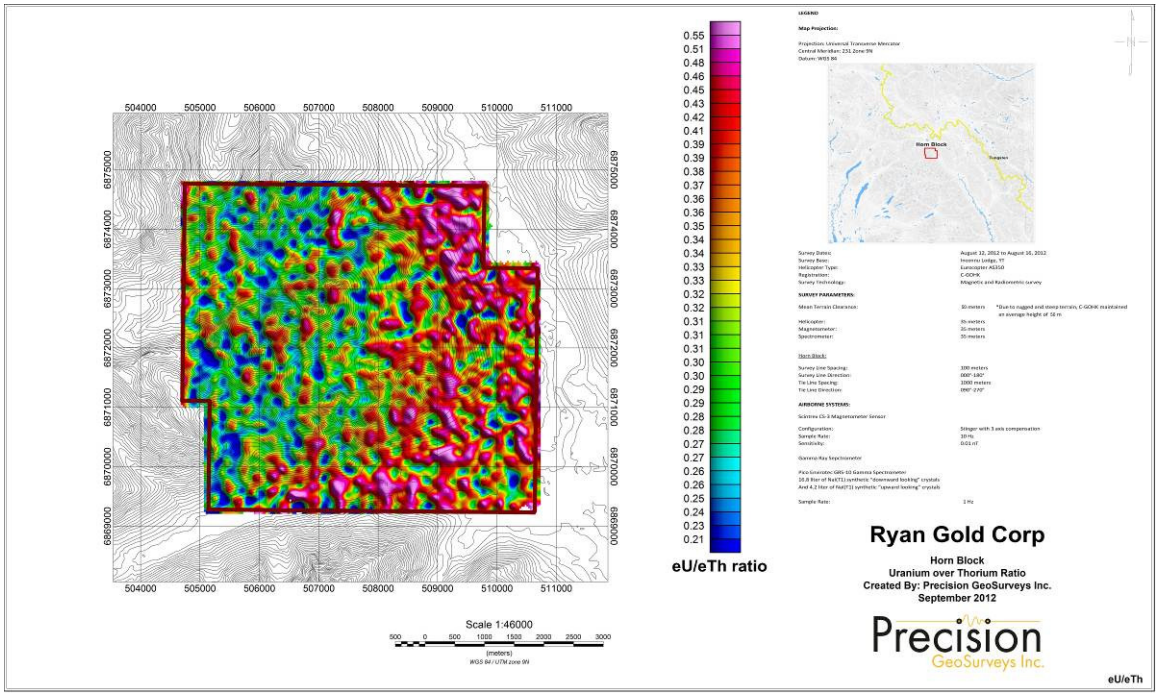


Map 11: Horn block thorium over potassium ratio.

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Map 12: Horn block uranium over potassium ratio.



Map 13: Horn block uranium over thorium ratio.

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