

BC Geological Survey  
Assessment Report  
33157



**SERENGETI**  
RESOURCES INC.

**ASSESSMENT REPORT**

including

**IP Surveying and Geochemical Sampling  
on the**

**CROY-BLOOM PROPERTY**

**OMINECA MINING DIVISION,  
British Columbia**

**NTS: 94C/05**

**Latitude 56°29' N, Longitude 125°58' W**

**Prepared for Operators:  
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19 April, 2012  
Vancouver, B.C.**

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## (1) Introduction

The Croy-Bloom/Davie Ck project is located 240 km northwest of Fort St. James and 90 km southeast of the Kemess Mine in the Omenica Mining province of British Columbia. The property covers an area of 12,744 hectares and is underlain by rocks of the Quesnel Terrane (Fig. 1). The Quesnel Terrane comprises Middle and Upper Triassic volcanic and volcanoclastic rocks of the Takla Group that are cut by economically important Late Triassic to Early Jurassic alkaline and calc-alkaline intrusive bodies. These rocks formed in a system of magmatic arcs that developed along or near the western North American continental margin of the Canadian Cordillera (Schiarizza and Tan, 2005). This setting is host to a number of major mineralised alkalic and calc-alkalic porphyry systems in British Columbia (Afton/Ajax, Copper Mtn/Ingerbelle, Galore Creek, Lorraine, and Mt. Polly).

The project area has many known occurrences of copper and gold mineralisation, most of which are associated with mafic-ultramafic plutons and related diorite dykes (Schiarizza, 2004). These include pyrite-chalcopryrite in shear zones and veins within and peripheral to the mafic-ultramafic plutonic rocks; magnetite-pyrite-chalcopryrite lodes in shear zones peripheral to the plutonic rocks, and magnetite-pyrite chalcopryrite skarn and replacement bodies where calcareous units of the Takla Group are intruded by diorite dykes (Schiarizza, 2004). Extensive zones of epidote, magnetite, sericite, pyrite and biotite alteration on the property underscore the area's potential for large porphyry-style Au-Cu mineralizing systems.

In addition, the Porphyry/Davie Creek area is host to a significant, partially drill defined, likely Cretaceous aged porphyry molybdenum deposit. The deposit area is defined by a large Mo in soil anomaly, in addition to 8 drill holes. Drilling by past operators in this area encountered broad intersects of potentially ore grade molybdenum mineralization, including a reported 0.0702% Mo over 202.9 m in hole DH81-4. Historic soil sampling data has indicated a robust tungsten (W) in soil anomaly at the north end of the Davie Creek mineral system. The W soil anomaly has not been drill tested by Serengeti or any other known operator.

There were three objectives of the 2011 exploration program; 1) collect soil samples over the tungsten in soil anomaly at the north end of the known Davie Creek system. The goal was to confirm the validity of the tungsten anomaly. 2) complete a geological, reconnaissance of the area around the aforementioned tungsten anomaly, prospecting for tungsten ore minerals. 3) complete an IP geophysical survey over a cluster of northwest trending veins of massive chalcopryrite and pyrite that occur in the northwestern portion of the claim block. Past exploration, including, mapping, sampling, and drilling had identified at least 5 massive sulfide veins outcropping at surface at the Shell Prospect. The most significant vein is 0.75-1.0 m wide and is exposed over a strike length of approximately 230 m. Grab sampling by Serengeti and other operators and historical drilling have indicated that the veins commonly grade in the vicinity 3% Cu and 5 g/t Au. These veins are thought to have potential to represent 'D-veins' associated with a concealed porphyry system.

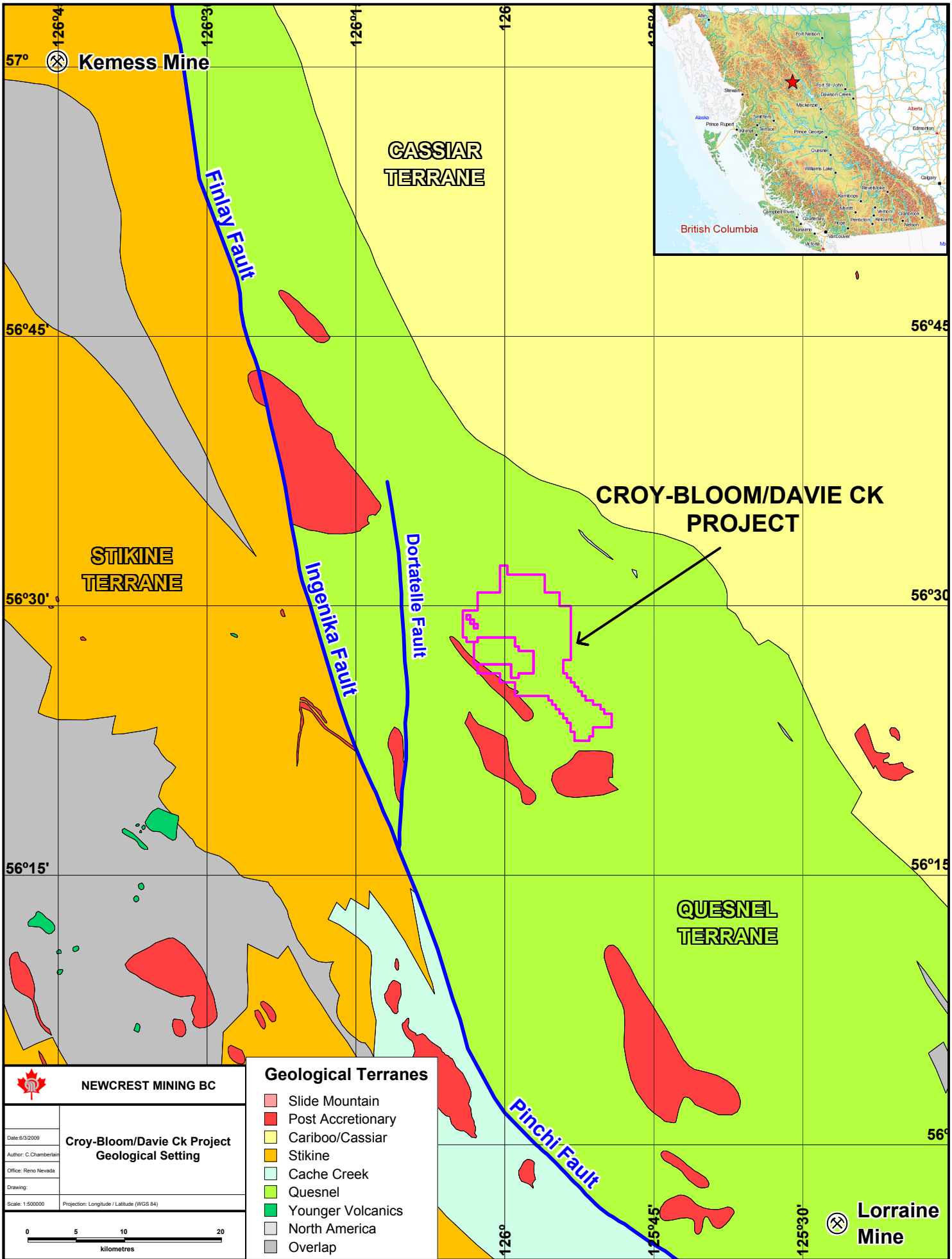
The 2011 work included the following aspects; On August 24<sup>th</sup>, a crew from Peter E. Walcott & Associates visited the Shell showing and completed a 1.5 km line of IP geophysical surveying utilizing a 50 m 'a' spacing. Secondly, Serengeti staff geologists and samplers

completed geological reconnaissance of the tungsten in soil anomaly and collected 25 B Horizon soil samples and 13 rock samples on August 3<sup>rd</sup> and 6<sup>th</sup>. The total Expenditure for the program was \$12,098 (Appendix A).

## **(2) Property Description and Location**

The Croy-Bloom/Davie Ck project is located 200 km northwest of Mackenzie and 90 km southeast of the Kemess Mine in the Omenica Mining province of north-central British Columbia, Canada (Fig. 1). The property is accessible by helicopter or logging roads, off the Omenica Resource Access Road that cuts through the southern part of the property.

The Croy-Bloom/Davie Ck property covers an area of rugged ridges and steep talus with broad cirque and valley floors. Alpine vegetation covers gentler and higher portions of the valleys. Scrub willow, alder and forests of spruce occupy the lower elevations. Property elevations range from 1,100m to 2,300m. June to September are the best months for fieldwork. The project consists of 35 tenures divided up into two contiguous blocks that comprise the Croy-Bloom and Davie Ck claims. The claims cover an area of 12,547 hectares. Claim details are presented in Table 1 and their locations shown in Figure 2.



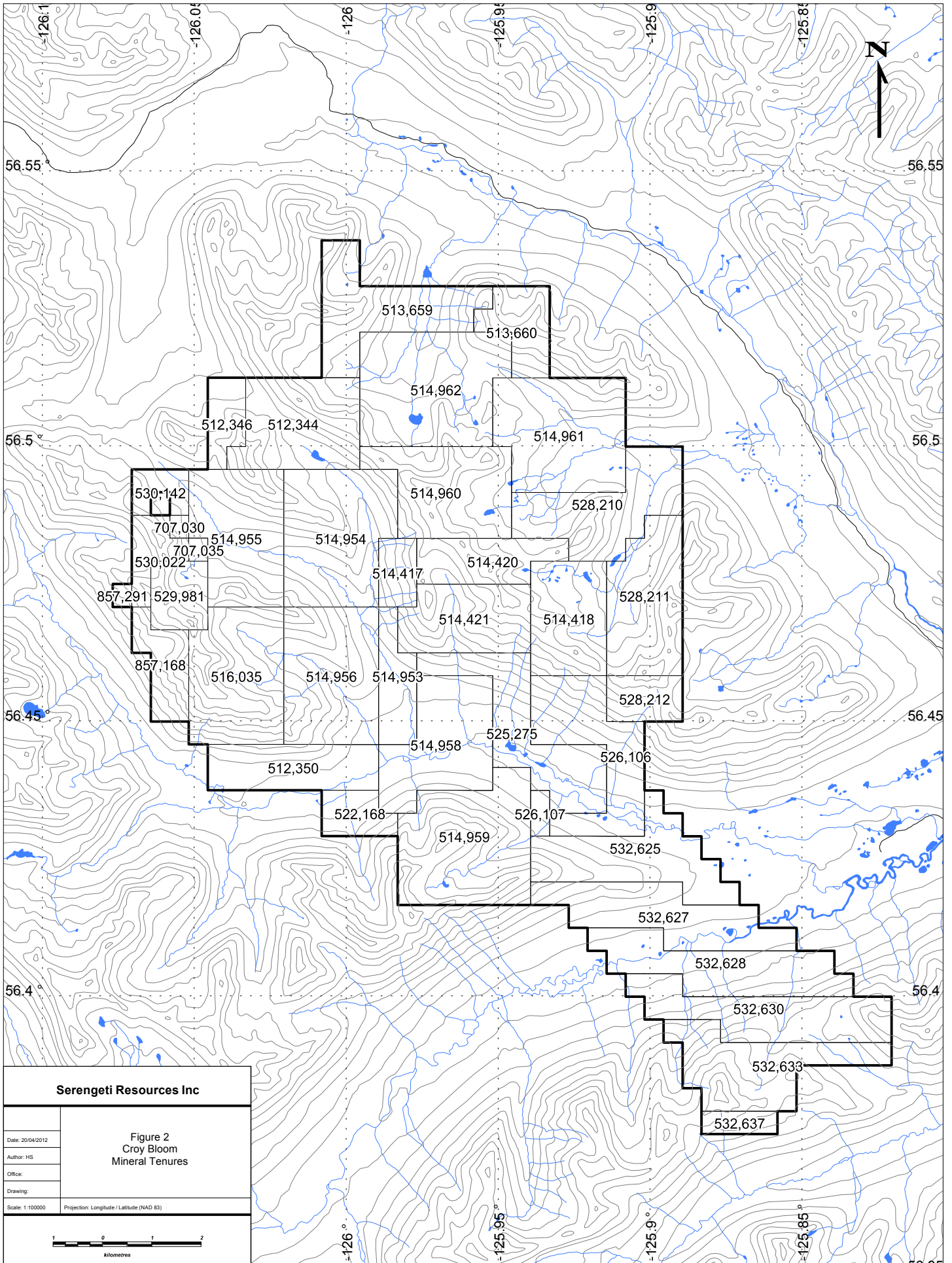
**NEWCREST MINING BC**

**Croy-Bloom/Davie Ck Project Geological Setting**

Date: 6/3/2009  
 Author: C. Chamberlain  
 Office: Reno Nevada  
 Drawing:  
 Scale: 1:500000  
 Projection: Longitude / Latitude (WGS 84)

- Geological Terranes**
- Slide Mountain
  - Post Accretionary
  - Cariboo/Cassiar
  - Stikine
  - Cache Creek
  - Quesnel
  - Younger Volcanics
  - North America
  - Overlap





**Table 1: Croy-Bloom Mineral Tenure Details**

<i>Project</i>	<i>Tenure #</i>	<i>Claim Name</i>	<i>Hectares</i>	<i>Expiry Date</i>	<i>NTS</i>	<i>Record Date</i>	<i>Mining Division</i>
CROY-BLOOM	512344	BLOOM 5	446.35	10-May-19	094D050,060	10-May-05	OMENICA
CROY-BLOOM	512346	BLOOM 6	124.97	10-May-19	094D050,060	10-May-05	OMENICA
CROY-BLOOM	512350	BLOOM 7	321.89	10-May-19	094D050	10-May-05	OMENICA
CROY-BLOOM	513659	BLOOM 8	446.13	31-May-19	094C051	31-May-05	OMENICA
CROY-BLOOM	513660	BLOOM 9	196.32	31-May-19	094C051	31-May-05	OMENICA
CROY-BLOOM	514417		107.20	14-Oct-19	094C041	14-Oct-04	OMENICA
CROY-BLOOM	514418		357.41	20-Apr-19	094C041	20-Apr-04	OMENICA
CROY-BLOOM	514420		250.11	14-Oct-19	094C041	14-Oct-04	OMENICA
CROY-BLOOM	514421		357.40	20-Apr-19	094C041	20-Apr-04	OMENICA
CROY-BLOOM	514953		178.75	23-Mar-19	094C041	23-Jul-02	OMENICA
CROY-BLOOM	514954		589.46	23-Mar-19	094D050	11-Jul-02	OMENICA
CROY-BLOOM	514955		482.30	23-Mar-19	094D050	11-Jul-02	OMENICA
CROY-BLOOM	514956		536.24	23-Mar-19	094D050	11-Jul-02	OMENICA
CROY-BLOOM	514958		464.90	23-Mar-19	094C041	5-Jun-04	OMENICA
CROY-BLOOM	514959		644.02	23-Mar-19	094C041	23-Jul-02	OMENICA
CROY-BLOOM	514960		464.33	23-Mar-19	094C041	26-Mar-03	OMENICA
CROY-BLOOM	514961		589.23	23-Mar-19	094C041	26-Mar-03	OMENICA
CROY-BLOOM	514962		660.52	23-Mar-19	094C041	26-Mar-03	OMENICA
CROY-BLOOM	516035		518.38	23-Mar-19	094D050	11-Jul-02	OMENICA
CROY-BLOOM	522168	DC 1	125.21	10-Nov-19	094C041	10-Nov-05	OMENICA
CROY-BLOOM	525275	BLOOM 10	447.00	31-Mar-19	094C041	13-Jan-06	OMENICA
CROY-BLOOM	526106	BLOOM 11	447.05	31-Mar-19	094C041	23-Jan-06	OMENICA
CROY-BLOOM	526107	BLOOM 12	35.77	31-Mar-19	094C041	23-Jan-06	OMENICA
CROY-BLOOM	528210		446.53	31-Mar-19	094C041	14-Feb-06	OMENICA
CROY-BLOOM	528211		446.74	31-Mar-19	094C041	14-Feb-06	OMENICA
CROY-BLOOM	528212		143.02	31-Mar-19	094C041	14-Feb-06	OMENICA
CROY-BLOOM	529981		160.82	15-Sep-20	094D050	13-Mar-06	OMENICA
CROY-BLOOM	530022		125.05	15-Sep-19	094D050	14-Mar-06	OMENICA
CROY-BLOOM	530142		89.30	15-Sep-19	094D050	17-Mar-06	OMENICA
CROY-BLOOM	532625		447.28	19-Apr-19	094C041	19-Apr-06	OMENICA
CROY-BLOOM	532627		447.41	19-Apr-19	094C041	19-Apr-06	OMENICA
CROY-BLOOM	532628		447.53	19-Apr-19	094C041	19-Apr-06	OMENICA
CROY-BLOOM	532630		447.63	19-Apr-19	094C031	19-Apr-06	OMENICA
CROY-BLOOM	532633		447.74	19-Apr-19	094C031	19-Apr-06	OMENICA
CROY-BLOOM	532637		71.66	19-Apr-19	094C031	19-Apr-06	OMENICA
CROY-BLOOM	707030	SECOND CHOICE	17.86	24-Feb-21	094D050	24-Feb-10	OMENICA
CROY-BLOOM	707035	ROCK 1	17.86	24-Feb-21	094D050	24-Feb-10	OMENICA
CROY-BLOOM	857168	SOUP	178.75	25-Oct-15	094D050	18-Jun-11	OMENICA
CROY-BLOOM	857291	SOUP 1	17.87	25-Oct-15	094D050	19-Jun-11	OMENICA
39 claims			<b>12743.96</b>				

### **(3) Accessibility, Local Resources, Infrastructure, Climate and Physiography**

Access to the property is via the Omineca Mining Road, 235 km northwest of Mackenzie BC. The Omineca road passes within 8 km to the east of the property and continues to the Kemess Mine, 90 km to the northwest. A logging road branched off the Omineca mining road and travels into a valley in the central portion of the claim block. Relief ranges from 1100 in the valley to a peak of 2,100 m. Vegetation consists of thick stands of spruce and balsam.

The climate of region is typical of middle to northern latitudes in Canada as the winters are cold (-10 to -35 deg Celsius) and summers are generally moderate (15-20 degrees Celsius). Topography is characterized by steep relief with ice and snow persisting year round on north facing slopes. The vegetation on the property is best characterized by alpine areas at higher elevations, with presence of pine and fir forests and swampy grasslands occurring in low-lying areas.

### **(4) History**

Consolidated Mining and Smelting Ltd (Grextan and Roberts, 1991). They identified several, fault related, north-south striking quartz veins along Croydon Ck through underground drifting methods (Grextan and Roberts, 1991). The largest of these veins was 100m long, running 3% Cu and 10 g/t Au (Serengeti, 2006). Work was halted in 1938 after a forest fire destroyed the camp. Subsequent investigations (geophysical surveys, trenching and diamond drilling) by Bralorne, Noranda, Canex and Rio Tinto, in the 1950's and 1960's, failed to delineate economic mineralization in the area surrounding the Croydon mine (Grextan and Roberts, 1991).

In 1946, Springer-Sturgeon Gold Mines staked the Shell prospect to the west of the Croydon mine where numerous gold and base metal showings had been discovered. Later investigations on the Shell prospect outlined 80,000 tons of 3% Cu and 5 g/t Au in northwest trending chalcopyrite-pyrite-pyrrhotite veins (Serengeti, 2006). In 1988 and 1996, Pacific Rim Resources drilled eight shallow holes totalling 542m (Grextan and Roberts, 1991). Assay results from the drill holes show that copper averages 1.5% Cu while gold is reportedly concentrated near surface (Grextan and Roberts, 1991).

Molybdenum potential in the Davie Creek stock was first recognized by Rio Tinto in 1963. Drilling from 1979 to 1982 by Teck Exploration Ltd. with Chevron Minerals and Getty Resources intersected widespread low-grade Mo mineralization (Grextan and Roberts, 1991). The deposit area is centered on a Cretaceous? quartz monzonite stock thought to be the same age as the Endako mine (126Mt@ 0.07 % Mo). The 20ppm Mo soil anomaly is +2,100m long by 400m wide (background less than 5ppm), trends northwest, and is open to the southeast into the valley bottom cover [+50ppm Mo anomaly is 1,300m long by perhaps 100m wide factoring in slope migration- in the center of the 20ppm Mo soil anomaly]. Coincident with the Mo soil



anomaly is a W soil anomaly (+10ppm) and a 35-45msec chargeability anomaly that is +2,300m long by 1,000m wide- open to the southeast into a large aeromagnetic anomaly. The central 700m of the 1,300m long 50ppm Mo soil anomaly was tested by 8 diamond drill holes.

The Soup skarn, southwest of the Shell prospect, was staked in 1964 (Serengeti, 2006). In 1989, Vital Pacific Resources Ltd. drilled 7 short holes with the best grade intersection 3.2m @ 49.0 g/t Au and 0.17% Cu from an oxidized quartz-magnetite shear crosscutting the skarn (Grextan and Roberts, 1991). From 1996 to 1997, Vital Pacific Resources Ltd. and Athlone Resources Ltd. drilled an additional 12 holes targeting a northwest trending magnetite-rich auriferous zone with at least three stratiform lenses (Minfile, 2009). The best in hole intersection returned 8m @ 1.5 g/t Au and 0.3% Cu (Minfile, 2009).

United Miniere Explorations Ltd. (UMEX) staked the Raven claims in 1970 to cover a strong, copper stream sediment anomaly (Serengeti, 2006). Follow up soil sampling delineated a 1,200m by 750m copper soil anomaly. Drilling from two holes (approximately 300m) intersected only minor chalcopyrite mineralization. Based on the relationship between the floodplain and drainage, Hoffman (1990) concludes that drilling tested a false anomaly of hydrologically transported Cu (Grextan and Roberts, 1991).

In 1973, Stellac Explorations staked the Sarah claims, south of the Raven claims. Prospecting discovered widespread chalcopyrite and pyrite mineralization as disseminations and in fractures (Serengeti, 2006). No further work was done. In 1990, TECK Exploration Ltd. acquired a large portion of the current property and commenced an extensive exploration program. The purpose of the program was to evaluate the potential of an alkalic porphyry Cu-Au deposit (Serengeti, 2006).

Between 1990 and 1991, they conducted geological mapping, soil/rock chip sampling and an IP survey. TECK Exploration defined large Cu-Au anomalies at the Raven prospect and in the Bloom Cirque. Three holes (totalling 450m) were drilled at Raven (Serengeti, 2006). Two of these holes intersected weak copper and gold mineralisation. Northgate Minerals flew an airborne magnetic/radiometric/EM survey in 2002. They also completed limited rock and core sampling.

Serengeti acquired the claims covering the project area by staking between 2002 and 2006. ***Several comprehensive assessment reports have been filed by Serengeti and are available in the publically available assessment records (AR's 30054, 29073, 28422, and 27869).*** These reports offer a wealth of information on Serengeti's work on the claims and should be consulted by any interested reader.

Newcrest Mining BC Ltd. (a subsidiary of Australian based Newcrest Mining Ltd.) optioned the claims from Serengeti in 2008 and completed four diamond drill holes (2,473 m) on the property in the summer/fall of 2008. The objective of the 2008 exploration program was to drill test several of these anomalies and intercept significant alteration, veining and Au-Cu mineralization, indicative of a bulk tonnage alkalic porphyry deposit. The four core holes were chosen to test targets on the Raven, Croy Bloom and Davie Ck prospects. Several broad zones of anomalous Cu ± Au were intersected from the eastern rim of the Bloom Cirque and some >1 g/t

Au intercepts returned from narrow quartz veins at Raven. Drilling at the Davie Ck prospect intersected no significant Cu, Au or Mo mineralisation. *See Assessment Report #30937 for a detailed report on the Newcrest drilling.*

A second phase of drilling was planned for 2009. The 2009 exploration program was planned to test targets at the Bloom Cirque prospect and in a structurally complex area of potentially significant Au-Cu alkalic porphyry mineralization in the upper portion of the Karen Cirque. Newcrest stated that several other areas of interest exist in the upper Sarah Cirque and along strike from the historic Croydon Ck mine workings but require further fieldwork (AR 30937). Newcrest did not follow through with the planned 2009 work as in late 2009, the company closed all of its' North American exploration offices. Shortly thereafter, the option on the property was dropped and the project returned to Serengeti.

## (5) Geology

### **Regional Geology:**

The Croy-Bloom/Davie Ck project is situated in the northern part of the Quesnel Trough, a volcanic arc terrane that formed during the late Triassic to early Jurassic in the north-westerly trending Intermontane Belt of the Canadian Cordillera (Zhang and Hynes, 1991). The Quesnel Terrane is host to many large alkalic and calc-alkalic porphyry Cu-Au deposits, which formed during Early Mesozoic island-arc magmatism

In north-central British Columbia, the Quesnel Terrane comprises mostly Middle to Upper Triassic volcanoclastic and volcanic rocks of the Takla Group, which have been intruded by the Hogen Batholith and its related intrusions. Older components of the Quesnellia Terrane contain arc volcanic and sedimentary rocks of the Lay Range assemblage. These rocks are restricted to the eastern margin of the Quesnel belt (Ferri, 1997).

Proterozoic and Palaeozoic carbonates and siliciclastics of the Cassiar Terrane bound the Quesnellia Terrane to the east of the Croy Bloom/Davie Ck property. The Cassiar Terrane represents part of the ancestral North American miogeocline (Schiarizza, 2004). To the south, however, the Quesnel Terrane is separated from miogeoclinal rocks by oceanic rocks of the Slide Mountain Terrane, commonly interpreted as the imbricated remnants of a Late Palaeozoic marginal basin (Ferri, 1997). 15 km to the west of the property, the Quesnellia Terrane is juxtaposed against the similar volcanic arc Stikine Terrane, separated by the large northwest trending Finlay-Ingenika fault system.

The structural framework of the region includes the development of east-directed thrust faults that placed the Quesnel Terrane above the Cassiar Terrane in late Early Jurassic time (Schiarizza and Tan, 2005). To the west, early Middle Jurassic eastdipping thrust faults, imbricate the Cache Creek Terrane and juxtapose it above the adjacent Stikine Terrane (Schiarizza and Tan, 2005). This thrusting was broadly coincident with the initiation of the Bowser basin, which formed above the Stikine Terrane and contains detritus that was derived, in part, from the adjacent Cache Creek Terrane (Schiarizza and Tan, 2005).

During the Late Cretaceous to Early Tertiary prominent dextral strike-slip fault systems formed in the region. These structures include the Finlay-Ingenika and Pinchi faults, which cut Takla Group rocks into a number of fault-bounded domains (Schiarizza, 2004).

The Finlay-Ingenika fault is an extension of the north-northwest trending Pinchi fault system situated approximately 20 km to the southeast of the property. These structures are thought to have up to more than 100 km of cumulative displacement (Schiarizza and Tan, 2005).

Structural mapping by Zhang and Haynes (1991) has suggested that fault bounded domains east of the Finlay-Ingenika Fault have rotated clockwise about sub-vertical axes in response to this progressive displacement. Their analysis indicates rotations of up to 590 adjacent to the Finlay-Ingenika Fault, and 350 from the Dortatelle Fault (Schiarizza, 2004).

### **Property Geology:**

The property is underlain by Middle to Upper Triassic volcanoclastic and volcanic rocks of the Takla Group, which have been intruded by the Croydon Creek Ultramafic Stock, the Croydon Creek Pluton, the Kliyul Creek Pluton and a host of related dykes. These intrusive bodies comprise the northern end of the Hogem Batholith, a multiphase intrusive complex with latest Triassic to Middle Jurassic alkaline phases and Cretaceous calc-alkaline bodies (Garnett, 1978). Compositional similarities, subvolcanic phases and heterolithic volcanic-subvolcanic-intrusive assemblages are thought to be in part, coeval with the ultramafic stock and Croydon Ck Pluton (Grextan and Roberts, 1991). Coarsely recrystallised hornfelsed rocks or an intrusive breccia commonly marks the contact between Takla volcano-sedimentary rocks and Hogem intrusive bodies (Ferri et al. 1995).

#### *Takla Group*

Schiarizza (2004) subdivides the Takla Group into two major divisions and three units. The most widespread package comprises a heterogeneous assemblage of volcanic sandstones, siltstones and breccias, with local mafic volcanic flows, referred to as the volcanic sandstone unit (Schiarizza, 2004). A subunit of this package comprises similar rocks intercalated with locally abundant limestone and limestone breccia; these rocks are assigned to a sandstone-carbonate unit (Schiarizza, 2004).

The third unit, referred to as the volcanic breccia unit, is dominated by massive breccias containing pyroxene porphyry volcanic fragments (Schiarizza, 2004). The majority of these units are weakly magnetic.

The maximum thickness of the Takla sequence on the property is estimated as <100m (Grextan and Roberts, 1991). Most exposures are 20-50m thick.

#### *Croydon Creek Ultramafic Stock*

The Croydon Ck Ultramafic Stock is a 1.8 km long by 1.2 km wide, slightly elongate, ultramafic intrusive body located in the southwest half of the property between Croydon Ck and Porphyry Ck. The stock comprises dark green to black, equigranular pyroxenite with 5 – 10%, fine to coarse-grained magnetite (Grextan and Roberts, 1991).

The ultramafic stock mapped at surface conforms to the position of a strong airborne magnetic anomaly. The aeromagnetic anomaly suggests that the intrusive continues 2 km to the northwest, under Takla Group volcanics.

The Croydon Ck Ultramafic Stock is probably an extension of the mafic-ultramafic Abraham Creek Complex, which extends approximately 24 km to the southeast. Within the project area, Schiarizza and Tan (2005) subdivide the Abraham Ck complex into a central unit of mainly clinopyroxene, hornblende and mafic gabbro, and a unit dominated by diorite, gabbro microdiorite that flanks ultramafic rocks to the north and south.

Schiarizza submitted a sample of diorite from the southern part of the maficultramafic complex for isotopic dating at the University of British Columbia in 2003. Zircons extracted from this sample yielded a U-Pb date of  $219.5 \pm 0.6$  Ma that is interpreted as a crystallization age for this part of the complex (Schiarizza and Tan, 2005).

#### *Croydon Creek Pluton*

The Croydon Ck Pluton occupies a large region east of Croydon Ck in the Bloom Cirque area. It forms a northwest trending elongate linear body that can be traced at surface for approximately 5.8 km.

The pluton comprises hornblende diorite to quartz-diorite and includes the Davie Ck (Mo) Stock, a steeply dipping, tabular body of potassically-zoned granodiorite west of Croydon Ck. In the Bloom Cirque area, Grextan and Roberts (1991) recognise two distinct phases of diorite. Fine-grained, hornblende diorite and locally quartz diorite from 6,264,800mN to 6,263,200mN (UTM10-NAD83) and coarse-grained chaotically pegmatitic, xenolithic diorite south of 6,263,200mN (Grextan and Roberts, 1991). Contact relationships between the two phases are unclear.

Surface mapping by TECK Exploration, of the eastern contact along the Croydon Ck Pluton, appears to conform to a sharp break in the magnetics. Government maps report the Croydon Ck Pluton as Late Triassic to Early Jurassic (?) in age (Ferri et al., 2001).

#### *Kliyul Creek Pluton*

The Kliyul Ck Pluton is exposed in the southwest corner of the property. The pluton varies from light grey quartz diorite to medium-grained biotite granodiorite (Schiarizza, 2004). Grextan and Roberts (1991), describe the pluton as potassically zoned, exhibiting decreasing biotite and grain size and increasing potassium feldspar toward the northern contact with Takla Group rocks. Contacts with Takla rocks are generally sharp and irregular but locally disrupted by small northeast faults (Grextan and Roberts, 1991).

## (6) Results and Discussion

### *Davie Creek Area*

A comparison of the Endako Mo mine and the Davie Creek Mo deposit shows a remarkable similarity as both have the same (i) age (135Ma), (ii) host rocks (quartz monzonite), (iii) alteration (potassic), (iv) geochemistry (high Mo, low Fluorine), (v) size of system (about 3,000m by 500m), (vi) grades (0.087%Mo at Endako and 0.019%Mo to 0.125%Mo at Davie Creek) and (vii) orientation of the system (northwest). The Endako deposit contains 336 million tonnes with the size of the Davie Creek deposit yet to be determined.

The exploration data indicate a Mo system, defined by a Mo soil anomaly (greater than 20ppm Mo), that is at least 3,000 metres long by 600 metres wide. This Mo soil anomaly is coincident with a chargeability anomaly, low and high resistivity zones, and variable magnetics (**Figure 3**). Two outcrops in the north-western part of the Mo soil anomaly show K-feldspathized quartz monzonites with disseminated molybdenite in quartz veinlets. In the northwest part of the Mo soil anomaly the geophysical signature is a chargeability anomaly (15mV/V to 60mV/V, background less than 10mV/V), a pronounced resistivity low and flat magnetics while in the southeastern part of the Mo soil anomaly shows only a weak chargeability anomaly (15mV/V to 22mV/V), low and high, plug-like high resistivity zones and strong magnetics. It is possible that the high resistivity zones, with the weak anomalous chargeability values, represent an intense quartz veined zone with a low pyrite content.

The drilling of the Mo system is restricted to a partial test of only 500 metres of the greater than 3,000 metre long system. Drill data clearly show a progression of better Mo grades from the northwest to the southeast from hole 79-2 (0.019%Mo/198m), to hole 81-3 (0.024%Mo/246m), to hole 81-5 (0.031%Mo/279m) and then the last drill section with holes 81-4 (0.072%Mo/203m) and 82-6 (0.051%Mo/198m). See **Figure 4** for a long section of the drilling. It is clear that the better grades are associated with zones of more intense quartz veining and secondary K-feldspar alteration with only minor amounts of pyrite.

The Mo system is open to the southeast but it does not appear to continue to the northwest. Historic soil sampling data has indicated a robust, 700 m by up to 300 m >20 ppm tungsten (W) in soil anomaly in the northwest open direction of the Davie Creek mineral system (**Figure 5**). The W soil anomaly has not been drill tested by Serengeti or any other known operator. In August of 2011, Serengeti collected 25 B horizon soil samples along two lines in order to confirm the presence of the tungsten in soil anomaly. In addition, the crew completed a geological reconnaissance along Porphyry Creek in order to prospect for tungsten ore minerals, collecting 13 rock samples along the way. **Figure 6** shows the location of the rock and soil samples with respect to the historical tungsten anomaly.

The rock sampling and geological reconnaissance confirmed the presence of strong hydrothermal system; however, the majority of the tungsten in soil anomaly to the northwest of the Davie Creek deposit is covered by soils and talus. No tungsten minerals were observed, but one sample assayed 60.7 ppm W.

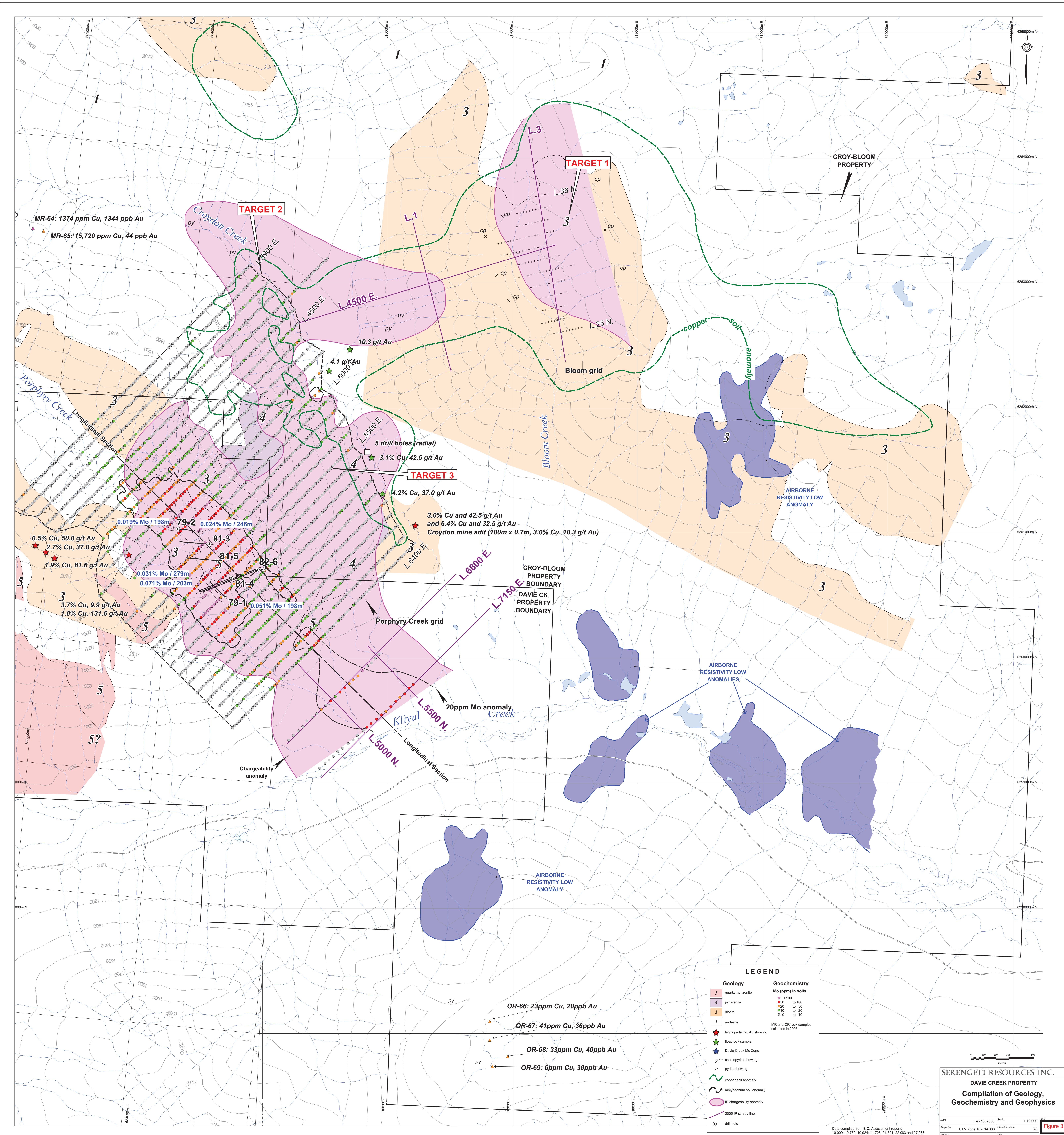
The soil sampling confirmed the presence of strongly anomalous molybdenum and tungsten in soils immediately north of the Davie Creek deposit, including up to 150 ppm W (**Figure 7**) and 991 ppm Mo (**Figure 8**) on the southeast line. The northwest line returned much lower Mo and W values. The W values observed on this line are not as high as the historic results; however, there were only 5 samples taken in the anomalous northern area. Additional sampling may be required to confirm the historical results, though the author does not believe this is likely necessary due to the fact that the general validity of the historical soil results were confirmed on the first line.

### *Croy and Shell Vein Showings*

The Croy vein has had only two previous owners and has been held continuously since its discovery in 1946 until the claims lapsed and then recently were incorporated into Serengeti's Croy Bloom property. The Croy showing consists of six mineralized fractures and veins hosted in altered volcanic rocks. Feldspar porphyry dykes are associated with the veins and may be indicative of a buried porphyry copper-gold system. The most significant of these veins, Zone 5, consists of massive chalcopyrite-pyrite-magnetite and has been traced for 165 meters in length by 1.2 meters wide with an average grade of 9.2% Copper from historic sampling. Included within this is a 106 meter by 0.84 meter zone grading 10.5% Cu, 15.7 g/t Au. A grab sample of the vein collected by Serengeti in 2005 assayed 14.2% Cu, 28.4 g/t Au, 52.6 g/t Ag. Twelve holes have reportedly been drilled in the area and a 1977 report by Chevron Minerals infers a possible 80,000 tonnes grading 3% Cu. Note that this is a non 43-101 compliant estimate and should not be relied upon.

The source of significant copper and gold mineralization at the Croy, as well as at the nearby Soup and Saddle Gully showings, is thought to be a buried porphyry copper-gold system. These showings outline a target area approximately 1.6 km by 0.8 km in extent.

In August of 2011, an IP crew completed one, 1500 m long IP survey line utilizing a 50 m 'a' spacing. The line was completed over the Croy veins in order to investigate a potential porphyry source. **Figure 9** shows the location of the IP line, as well as a compilation of the massive sulfide veins in the area. The survey has identified a broad, 200 meter wide, IP chargeability anomaly associated with the several narrow, exceptionally high grade copper and gold bearing massive sulfide veins at the Croy showing. See **Figures 10 and 11** for the IP pseudosection and modeled section for the IP survey line. Serengeti believes that the veins at the Croy showing and other high grade showings in the area potentially represent the surface expression of a concealed porphyry copper-gold system.



MR-64: 1374 ppm Cu, 1344 ppb Au  
 MR-65: 15,720 ppm Cu, 44 ppb Au

**TARGET 2**

**TARGET 1**

**TARGET 3**

0.5% Cu, 50.0 g/t Au  
 2.7% Cu, 37.0 g/t Au  
 1.9% Cu, 81.6 g/t Au  
 3.7% Cu, 9.9 g/t Au  
 1.0% Cu, 131.6 g/t Au

5 drill holes (radial)  
 3.1% Cu, 42.5 g/t Au

4.2% Cu, 37.0 g/t Au

3.0% Cu and 42.5 g/t Au  
 and 6.4% Cu and 32.5 g/t Au  
 Croydon mine adit (100m x 0.7m, 3.0% Cu, 10.3 g/t Au)

20ppm Mo anomaly  
 Kliyul Creek

CROY-BLOOM PROPERTY BOUNDARY  
 DAVIE CK. PROPERTY BOUNDARY

**LEGEND**

Geology		Geochemistry	
5	quartz monzonite	Mo (ppm) in soils	
4	pyroxenite	● >100	
3	diorite	● 50 to 100	
1	andesite	● 20 to 50	
		● 10 to 20	
		● 0 to 10	
★	high-grade Cu, Au showing	MR and OR rock samples collected in 2005	
☆	float rock sample		
★	Davie Creek Mo Zone		
x	chalcoprite showing		
py	pyrite showing		
~	copper soil anomaly		
~	molybdenum soil anomaly		
○	IP chargeability anomaly		
—	2005 IP survey line		
○	drill hole		

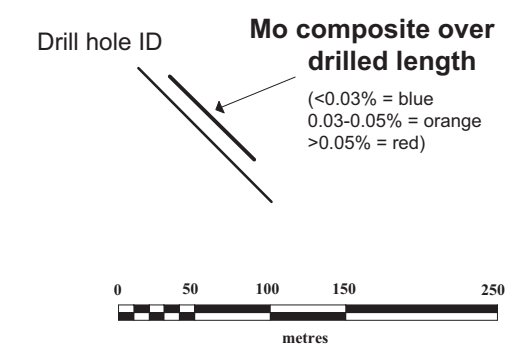
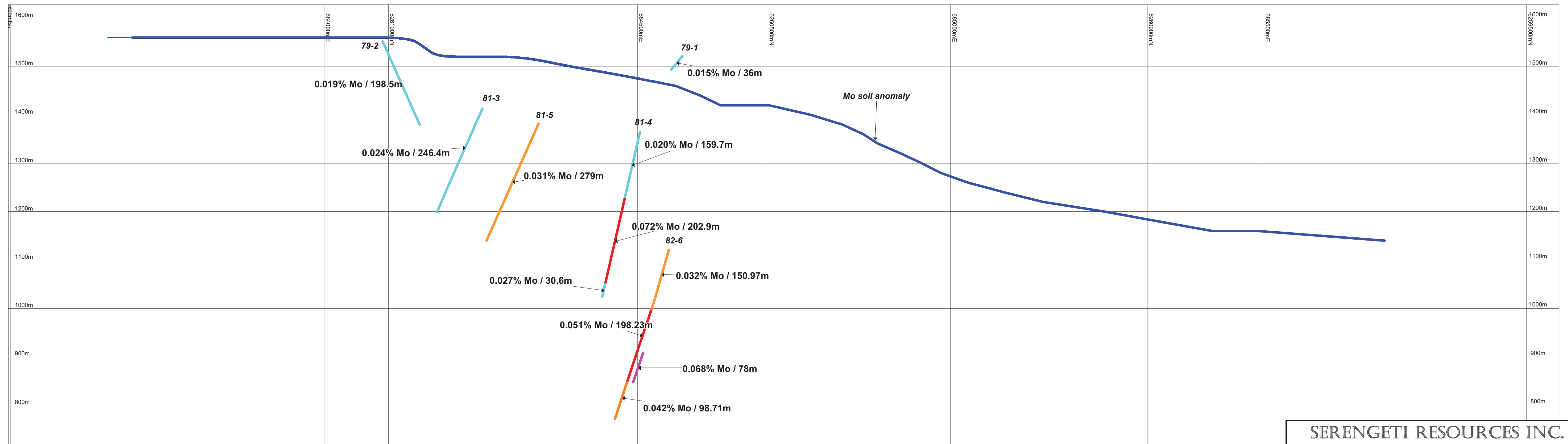
OR-66: 23ppm Cu, 20ppb Au  
 OR-67: 41ppm Cu, 36ppb Au  
 OR-68: 33ppm Cu, 40ppb Au  
 OR-69: 6ppm Cu, 30ppb Au

**SERENGETI RESOURCES INC.**  
**DAVIE CREEK PROPERTY**  
**Compilation of Geology, Geochemistry and Geophysics**

Date: Feb-10-2006 Scale: 1:10,000  
 Projection: UTM Zone 10 - NAD83 Date/Revision: BC  
 Author: MO File: SIR-8888

Data compiled from B.C. Assessment reports 10,099; 10,730; 10,924; 11,728; 21,521; 22,083 and 27,238 and Serengeti's 2005 exploration program.

Figure 3

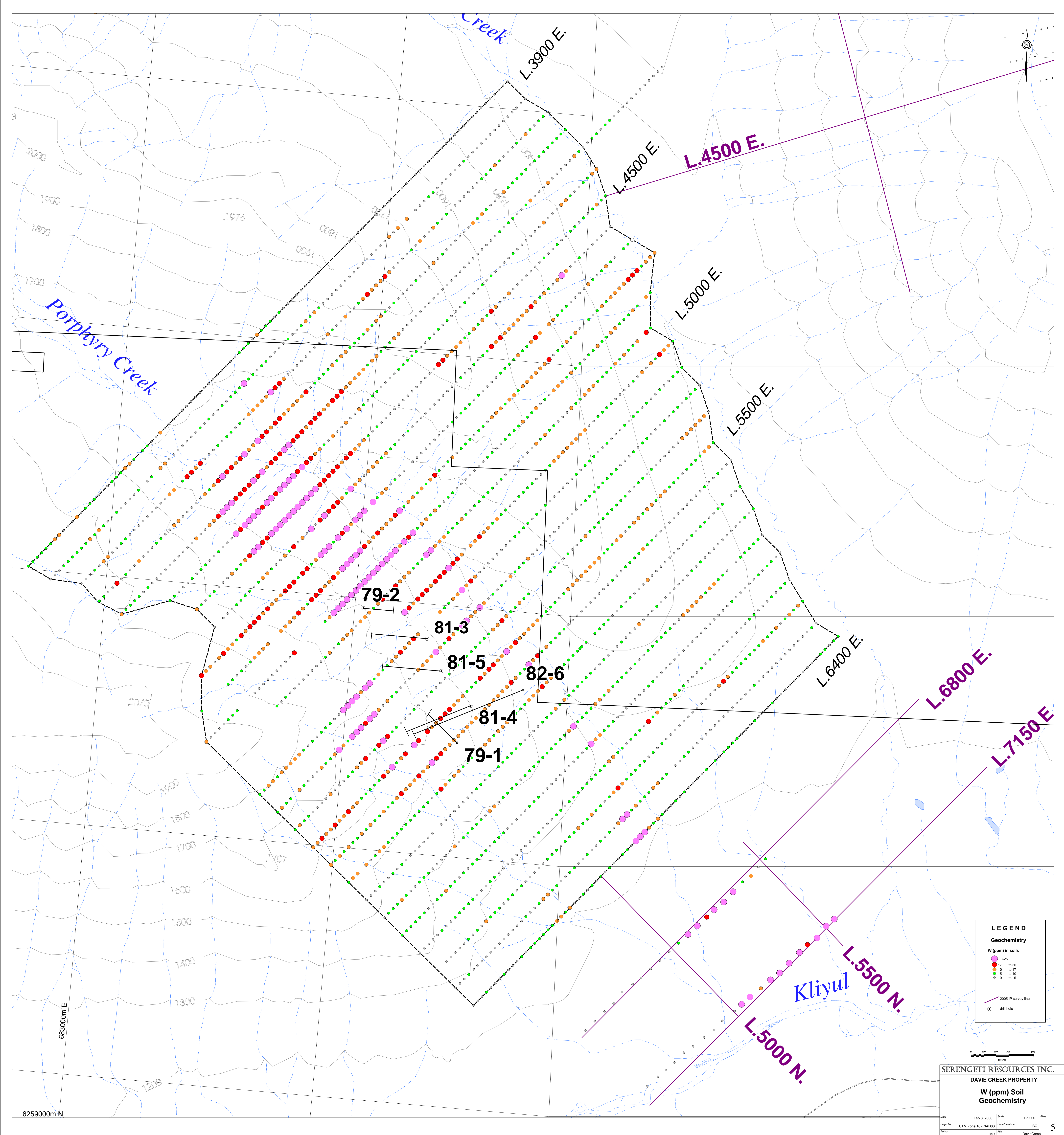


SERENGETI RESOURCES INC.

DAVIE CREEK PROPERTY  
 Longitudinal Section  
 Looking Northeast

Date	Feb 24, 2006	Scale	1:5000	Figure	Figure 4
Projection	UTM Zone 9 - NAD83	State/Province	BC		
Author	MO	File	Davie05.WOR		





**LEGEND**

**Geochemistry**

W (ppm) in soils

- >25
- 17 to 25
- 5 to 17
- 5 to 10
- 0 to 5

— 2005 IP survey line

● drill hole

SERENGETI RESOURCES INC.  
 DAVIE CREEK PROPERTY

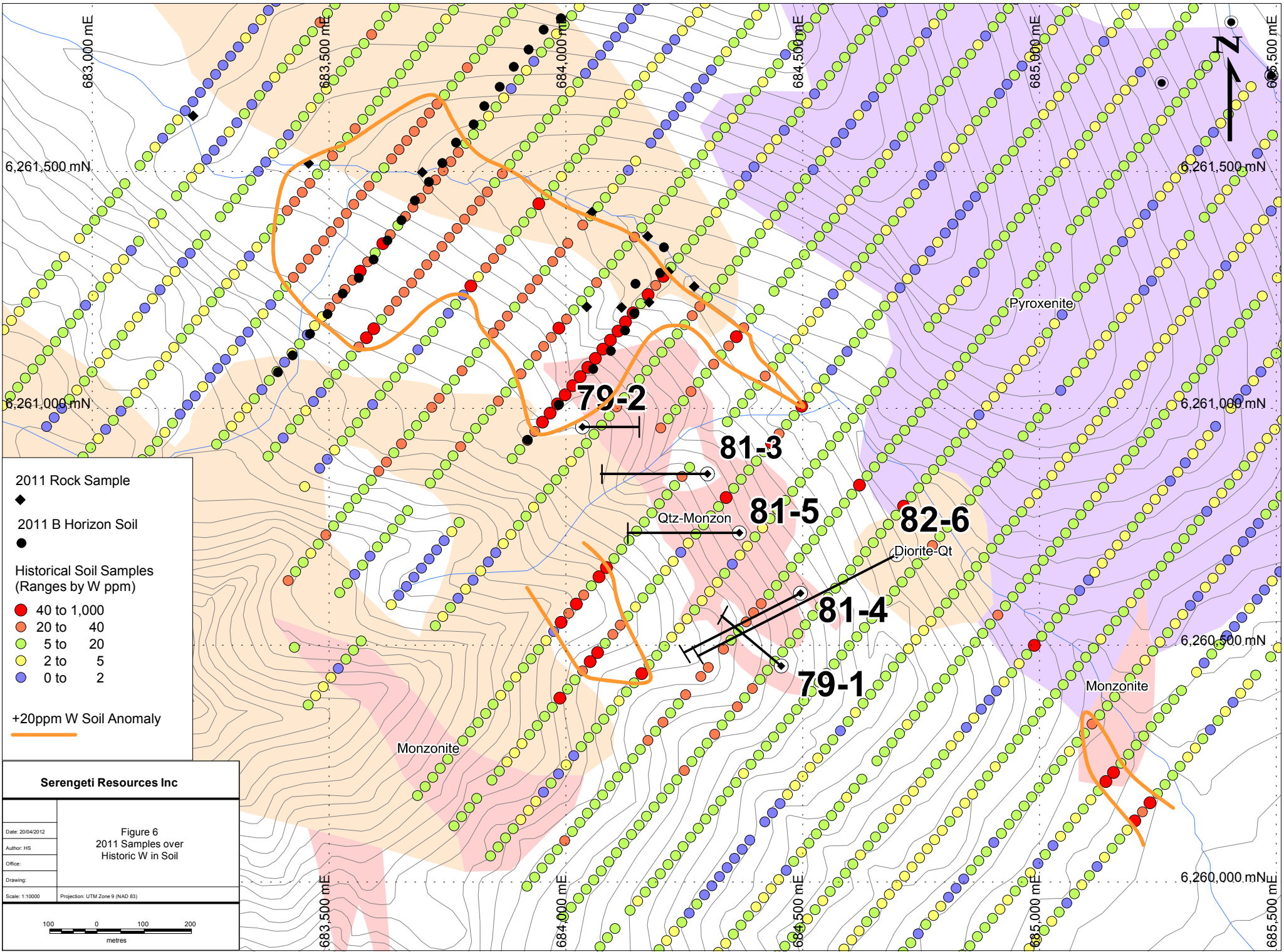
**W (ppm) Soil Geochemistry**

Date	Feb 8, 2006	Scale	1:5,000
Projection	UTM Zone 10 - NAD83	State/Province	BC
Author	MO	File	DavieComp

5

6259000m N

683000m E



**2011 Rock Sample**  
◆

**2011 B Horizon Soil**  
●

**Historical Soil Samples (Ranges by W ppm)**

- 40 to 1,000
- 20 to 40
- 5 to 20
- 2 to 5
- 0 to 2

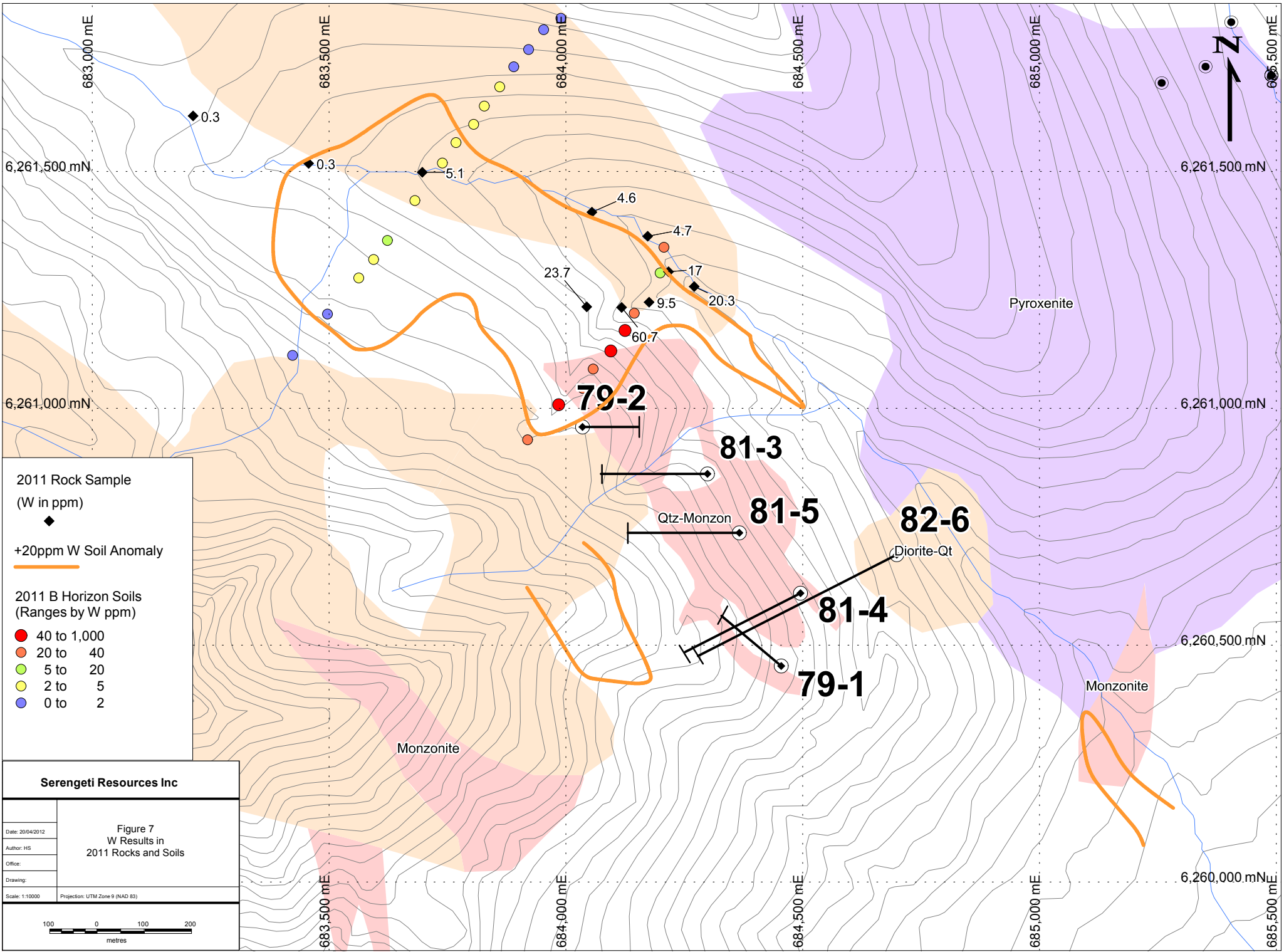
**+20ppm W Soil Anomaly**  
—

**Serengeti Resources Inc**

**Figure 6**  
2011 Samples over  
Historic W in Soil

Date: 20/04/2012  
Author: HS  
Office:  
Drawing:  
Scale: 1:10000  
Projection: UTM Zone 9 (NAD 83)

100 0 100 200  
metres



**2011 Rock Sample**  
(W in ppm)

◆

**+20ppm W Soil Anomaly**

**2011 B Horizon Soils**  
(Ranges by W ppm)

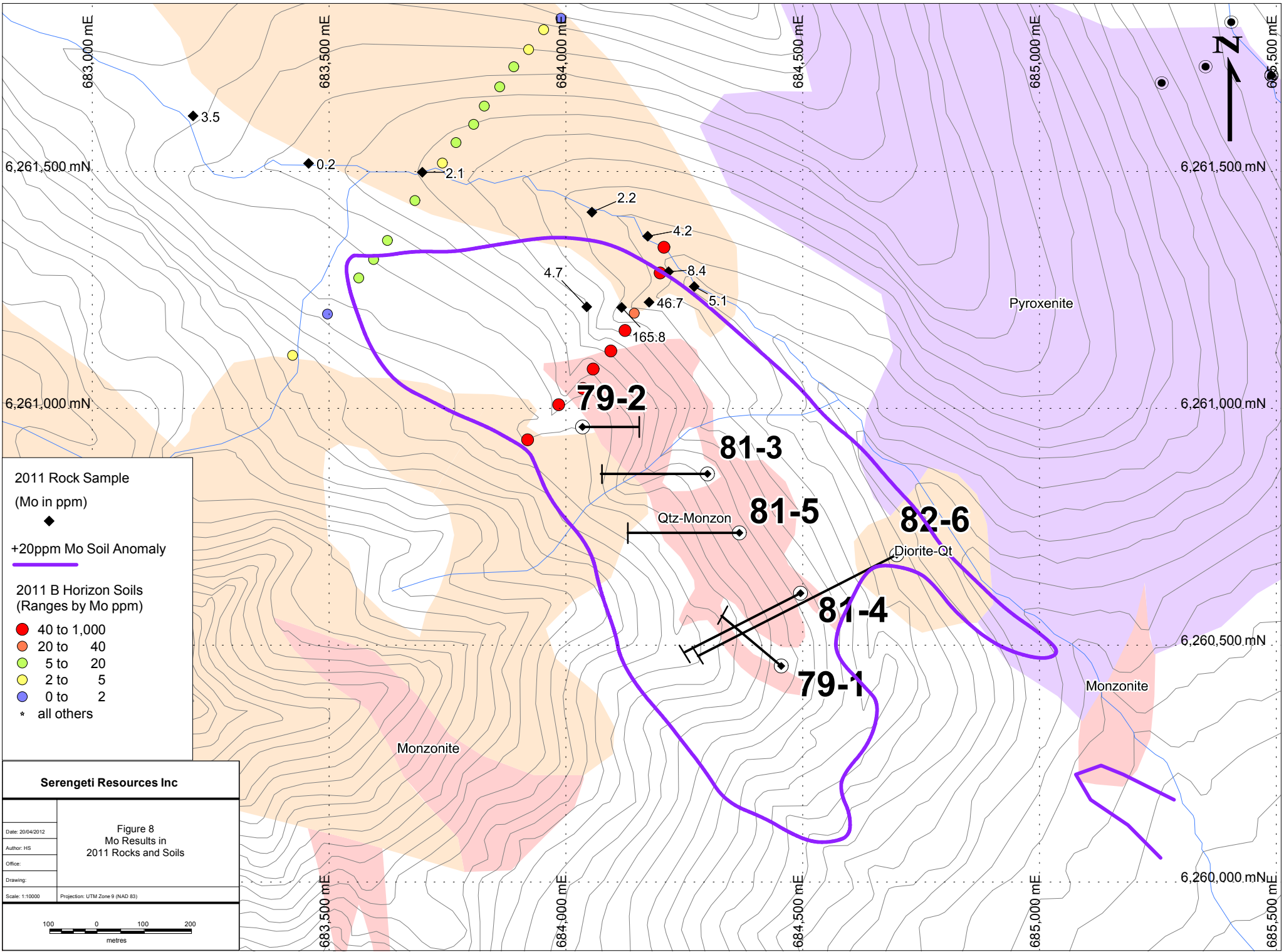
- 40 to 1,000
- 20 to 40
- 5 to 20
- 2 to 5
- 0 to 2

**Serengeti Resources Inc**

**Figure 7**  
W Results in  
2011 Rocks and Soils

Date: 20/04/2012  
Author: HS  
Office:  
Drawing:  
Scale: 1:10000  
Projection: UTM Zone 9 (NAD 83)

100 0 100 200  
metres

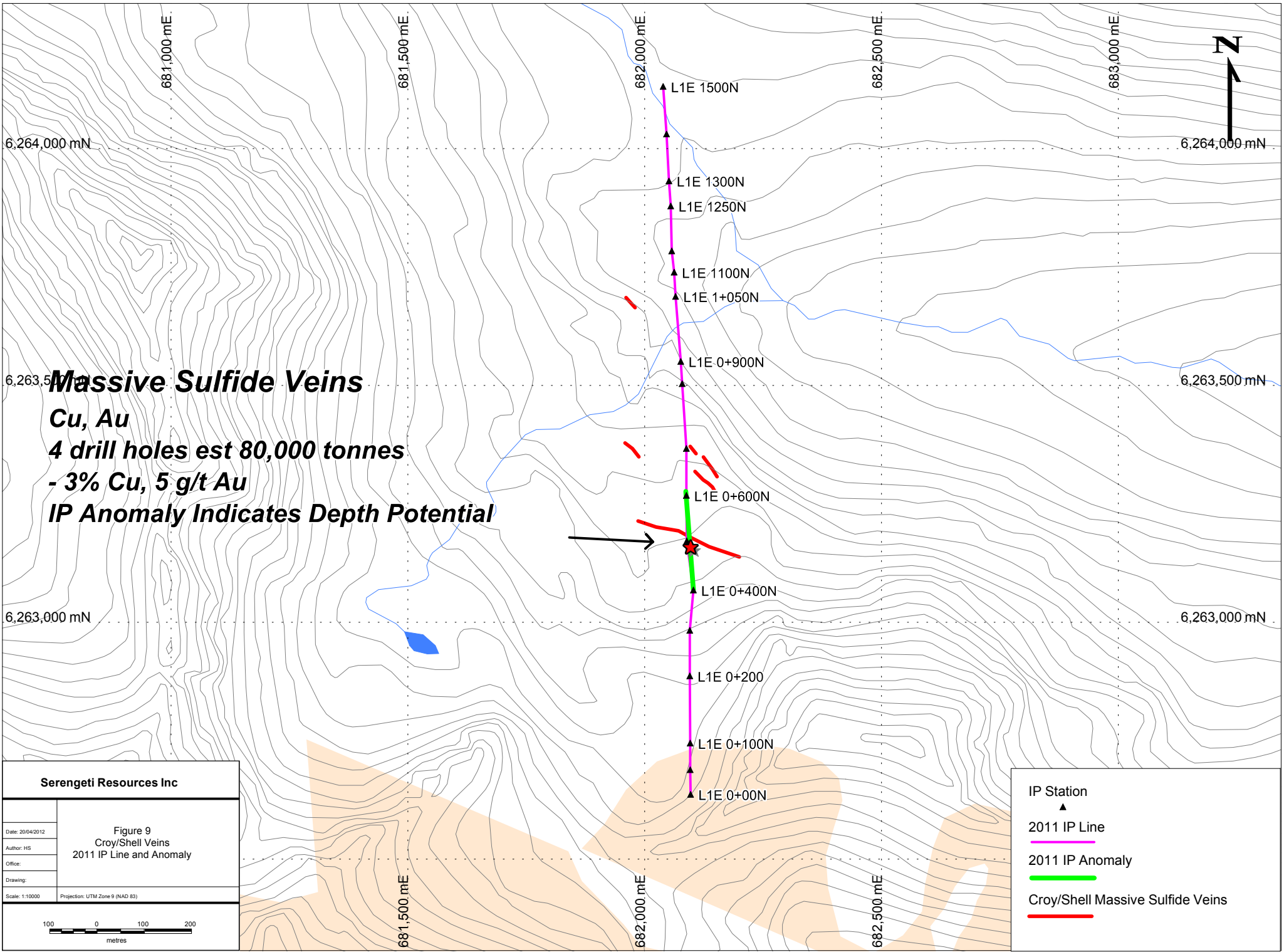


**Serengeti Resources Inc**

**Figure 8**  
**Mo Results in**  
**2011 Rocks and Soils**

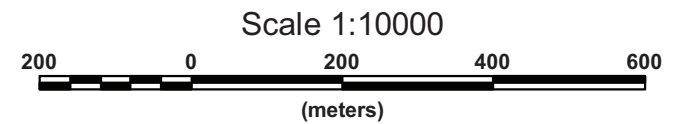
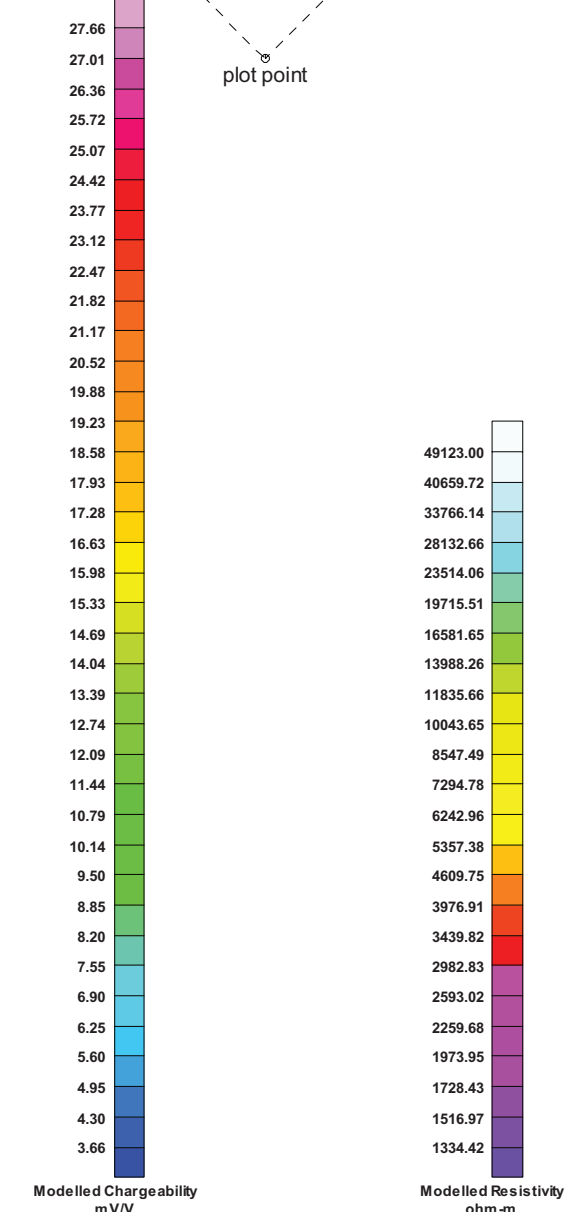
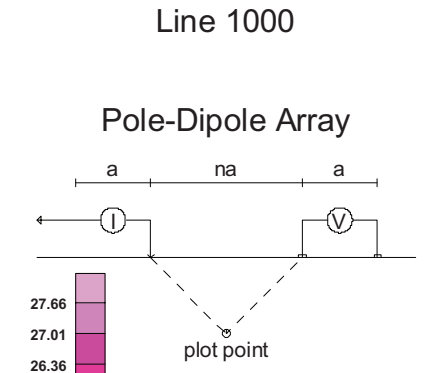
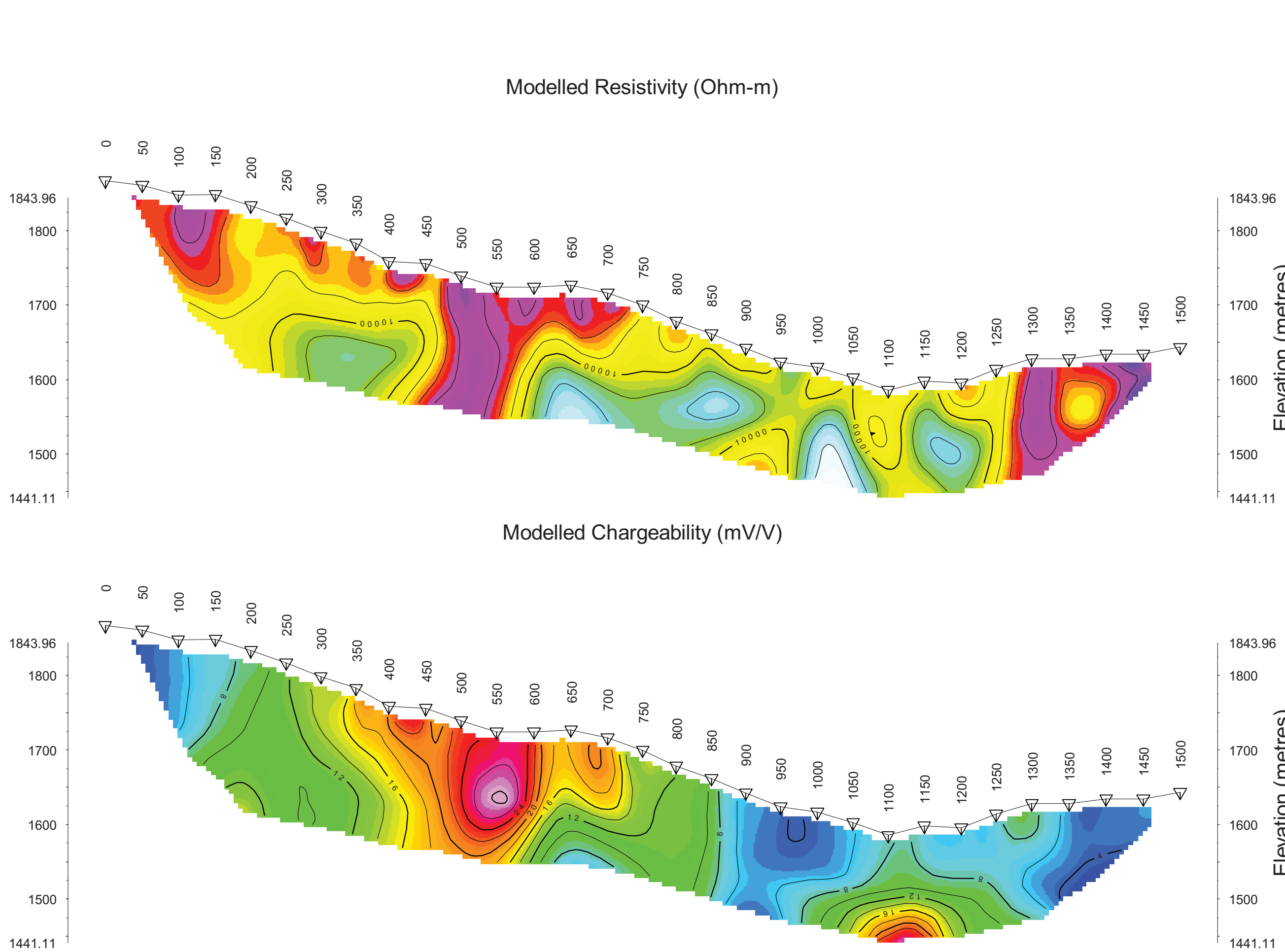
Date: 20/04/2012  
 Author: HS  
 Office:  
 Drawing:  
 Scale: 1:10000  
 Projection: UTM Zone 9 (NAD 83)

100 0 100 200  
 metres



<b>Serengeti Resources Inc</b>	
Date: 20/04/2012	<b>Figure 9</b> <b>Croy/Shell Veins</b> <b>2011 IP Line and Anomaly</b>
Author: HS	
Office:	
Drawing:	
Scale: 1:10000	Projection: UTM Zone 9 (NAD 83)





**SERENGETI RESOURCES INC.**  
 INDUCED POLARIZATION SURVEY  
 CROY BLOOM PROPERTY BLOCK A  
 JOHANSON LAKE AREA  
 AUGUST 2011  
 RES2DINV  
 Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

Figure 11

## **(7) Recommendations**

The Croy Bloom project is host to several porphyry copper-gold targets and a partially defined porphyry molybdenum system. The 2011 work accomplished the following goals:

- 1) Confirmed the presence of a potentially significant tungsten in soil anomaly at the northwest margin of the Davie Creek molybdenum system. The tungsten anomaly may represent a peripheral tungsten rich part of the porphyry system.
- 2) Identified a 200 m wide, +16mV/V IP chargeability anomaly associated with the outcropping, high grade Cu-Au, massive sulfide Croy Veins. The veins and associated IP anomaly at the Croy showing and other high grade showings in the area potentially represent the surface expression of a concealed porphyry copper-gold system.

It is therefore recommended to complete deep diamond drilling under the Croy veins to test for a porphyry source, and to drill test the tungsten in soil anomaly to the northwest of the Davie Creek porphyry.



## (8) References

- Bath, A., and Cooke, D., 2008, The importance of biotite for the deposition of sulphides at the Lorraine Cu-Au deposit, north-central British Columbia: Mineral Deposit Research Unit University of British Columbia, Canada
- Chamberlain, C.C., 2008, Croy Bloom/Daavie Ck Project, 2008 Diamond Drilling Report; Ministry of Energy, Mines and Petroleum Resources Assessment Report #30937.
- Ferri, F., Dudka, S., Rees, C., and Meldrum, D. (1995): Geology of the Aiken Lake And Osilinka River Areas, North Quesnel Trough; B.C. Ministry of Energy and Mines, Geoscience.
- Ferri, F., Dudka, S., Rees, C., and Meldrum, D. (2001): Geology of the Aiken Lake Area, North-Central British Columbia; B.C. Ministry of Energy and Mines, Geoscience Map 2001-10.
- Garnett, J.A., 1978, Geology and Mineral Occurrences of the Southern Hogem Batholith: B.C. Ministry of Energy, Mines and Petroleum Resources Bulletin p. 70 -75.
- Geologic Survey (BCGS) (2008). Mine record summary 094D 105 BC. Retrieved January 11th, 2008 from <http://minfile.gov.bc.ca/Summary.aspx?minfilno=094D%20%20105>
- Grextan, L., and Roberts, P., 1991, 1990 Prospecting, Mapping and Sampling, Porphyry Ck Property; Teck Exploration Ltd., BCDM Assessment Report # 21,521, p. 8-27.
- Jago, C.P., 2005, Metal- and alteration-zoning, and hydrothermal flow paths at the moderately-tilted, silica-saturated Mt. Milligan Cu-Au alkalic porphyry deposit: Mineral Deposit Research Unit University of British Columbia, Canada
- Jago, C.P., and Tosdal, T., 2008, The Early Jurassic Mt. Milligan (British Columbia): an example of the younger silica-saturated alkalic porphyry Cu-Au deposit: Mineral Deposit Research Unit University of British Columbia, Canada
- Schiarizza, P., 2004, Geology and mineral occurrences of Quesnel Terrane, Kliyul Creek to Johanson Lake (94D/8, 9). B.C. Ministry of Energy, Mines and Petroleum Resources Paper 2004 - 1: p. 83-100.
- Schiarizza, P., and Tan, S.H., 2005, Geology and mineral occurrences of Quesnel Terrane, between the Mesilinka River and Wrede Creek (NTS 94D/8,9), North-Central British Columbia. B.C. Ministry of Energy, Mines and Petroleum Resources Paper 2005 - 1: p. 109-130.
- Serengeti Resources Inc, 2006, Geological, Geochemical and Geophysical Report on the Croy-Bloom Cu-Au Property; Ministry of Energy, Mines and Petroleum Resources Assessment Report.

Woodsworth, G.J., Anderson, R.G., and Armstrong, R.L., 1991, Plutonic regimes, Chapter 15, in Geology of the Cordilleran Orogen in Canada, H. Gabrielse and C.J. Yorath, eds., *Geological Survey of Canada*, Geology of Canada, no. 4, p. 491-531.

Appendix A – Expenditure Statement

## Croy Bloom Project Cost Statement

Dates: August 3rd, 6th and 24th, 2011

Claims Worked: 514955, 516035, 514956, 529981

### 1) Soil Sampling and Prospecting - Aug 3rd, 2011:

- 25 Soil Samples and Geological Investigation

#### Staff:

Senior Geologist - 1 days @ \$450/day	\$	450.00
Student Geologist - 1 days @ \$235/day	\$	235.00
Sampler 1 - 1 day @ \$250/day	\$	250.00
Sampler 2 - 1 day @ \$250/day	\$	250.00

#### Analysis:

25 B soil samples @\$25/sample	\$	625.00
13 Rock Samples @\$25/sample	\$	325.00

#### Accomadation:

4 man days - \$140/day room and board	\$	560.00
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#### Truck:

1 days @ \$120/day	\$	120.00
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Helicopter	\$	1,042.20
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### 2) IP Line Flagging - Aug 6th, 2011

- station and flag 1.5 line km

Sampler 1 - 0.5 day @ \$250/day	\$	125.00
Sampler 2 - 0.5 day @ \$250/day	\$	125.00

Helicopter	\$	500.00
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### 3) Induced Polarization - Aug 24th, 2011

- 1.5 line km of 50 m dipole.

Walcott Geophysics Crew and Survey	\$	3,500.00
Line Inversion	\$	150.00

Helicopter	\$	2,316.00
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### 4) Report

1 days @ \$425	\$	425.00
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Sub-Total Expenditure:	\$	10,998.20
Admin (10%)	\$	1,099.82

Total Expenditure	\$	12,098.02
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PAC - 30%	\$	3,629.41
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Total (to file):	\$	15,727.43
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## Appendix B – Geologist's Certificate

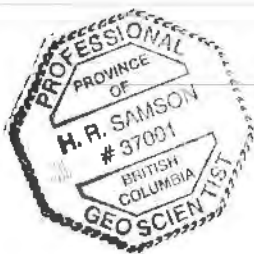
## **GEOLOGIST'S CERTIFICATE**

I, Hugh R. Samson of #205-1585 West 13<sup>th</sup> Avenue, Vancouver, in the province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am Serengeti Resources Inc.'s Senior Project Geologist.
2. THAT I am a 2005 graduate of Dalhousie University with an Honours BSc.
3. THAT I have practised in the field of Geosciences since my graduation from University.
4. THAT this report is based on fieldwork carried out on August 3<sup>rd</sup>, 6<sup>th</sup>, and 24<sup>th</sup>, 2011, by the Author, staff of Serengeti Resources Inc., and contractors on behalf of Serengeti Resources Inc. This work was supervised by the Author.
5. THAT I am Professional Geoscientist (P. Geo) registered and in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (#37001).

DATED at Vancouver, British Columbia this 19<sup>th</sup> day of April, 2012.

Hugh R. Samson, P. Geo



## Appendix C – Field Notes and Selected Element Assay Results

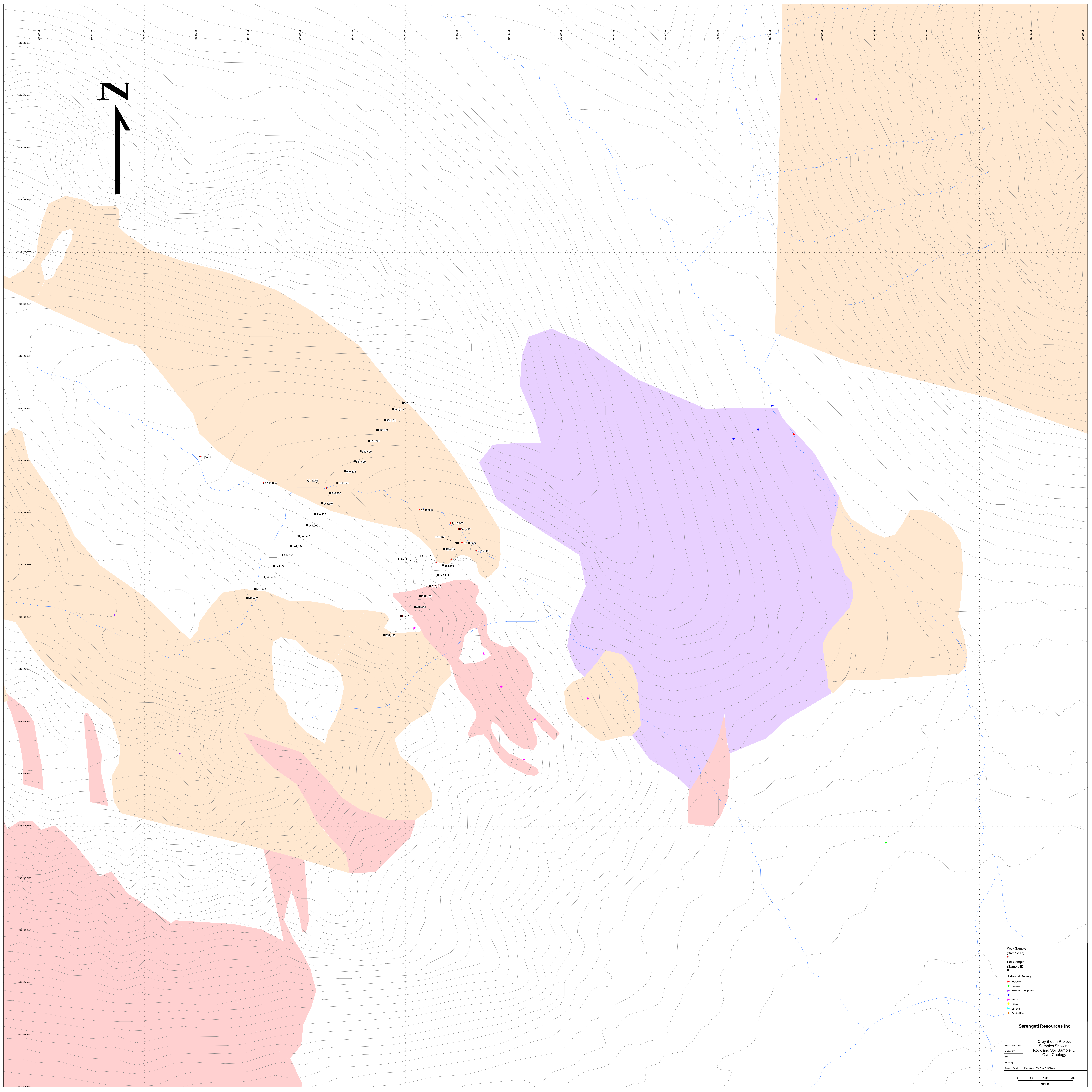
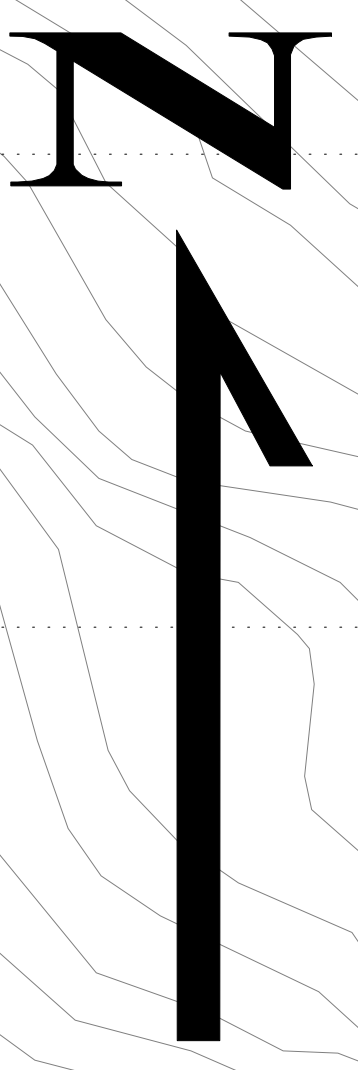
Sample Type	Sample #	Zone	Easting (NAD83)	Northing (NAD83)	Date	Lithology	Sampler	Notes	Type of Sample	Width	ACME Job #
Rock	1115013	9	684044	6261214	02/08/2011	volcanic	LF	Mostly volcanics with some intrusives (diomite?) and quartz? Veins.	outcrop	15m	SMI11000342
Rock	1115033	9	681285	6262429	06/08/2011	felsic volcanic	DP	aphanitic felsic volcanic dyke with epidote and 5% disseminated pyrite, tr cp and possibly born/cov. Grab sample and old sample site. Old drill pad 100m away @ 300 degrees and 50m lower in elevation	o/c	grab	SMI11000342
Rock	1115034	9	681280	6262415	06/08/2011	diorite	DP	biotite phyric, hbl dior w wk prop alt and 2-4% Py and tr Cp (diss). Talus grab. O/c found 15m up slope. Not very extensive as scree slopes quickly change to non sulfide material same as 1115035 but on other side of slope.	float	grab	SMI11000342
Rock	1115035	9	681236	6262260	06/08/2011	diorite	DP	Quite complex geology in this area (based upon patterns in scree)	float	grab	SMI11000342
Rock	1115003	9	683213	6261617	03/08/2011	and	HS	grab of OC in ck. Sample is 1 m wide. Sample of pyritic fract zone with tr cov and bn. Small!!	outcrop		SMI11000342
Rock	1115004	9	683457	6261517	03/08/2011	hbl-dio	HS	comp grab over 3 m of hbl-dio, tr ep, tr py	outcrop		SMI11000342
Rock	1115005	9	683697	6261498	03/08/2011	hbl-dio	HS	comp grab over 5 m of mostly fresh hbl-dio. Tr ep and py+cpy?? Along fract. Rare qtz vns, but I threw into bag	outcrop		SMI11000342
Rock	1115006	9	684055	6261414	03/08/2011	hbl-dio	HS	comp grab over 3 m across a series of widely spaced, narrow 30/200 trending qtz+sulfide vns wihtin same diorite. Volume amounts to nothing but perhaps tapping something?	outcrop		SMI11000342
Rock	1115007	9	684173	6261363	03/08/2011	hbl-dio	HS	marked incese of zones with sulfides alongs fract. in between still fresh dio. Weakly ep altd w/2-3% dissem and veined py. Rare qtz+py vns	outcrop		SMI11000342
Rock	1115008	9	684271	6261257	03/08/2011	and	HS	altered and(?). Strongly ser+/-ser altd volcs with minor qtz vns. Strong lim stained, geo+jar. Comp grab over 5 m	outcrop		SMI11000342
Rock	1115009	9	684217	6261288	03/08/2011	pyroxenite	HS	pyroxenite, strongly gossaneous, qtz+py vns, comp grab over 5 m.	outcrop		SMI11000342
Rock	1115010	9	684176	6261224	03/08/2011	and	HS	strongly pyritic volcs, 2-4% py dissem and along vns. Comp grab over 4 m	outcrop		SMI11000342
Rock	1115011	9	684118	6261213	03/08/2011	volc	HS	float, several similar close together, scarce overall. Intenesely altd volc, intense jar+geo stain, qtz+sulfide vns	float		SMI11000342



Sample Type	Sample #	ACME Job #	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	As (ppm)	Au (ppb)	Cd (ppm)	Sb (ppm)	W (ppm)
Rock	1115013	SMI11000342	4.7	29.7	9.9	22	<0.1	21.0	8.1	277	<0.5	<0.5	<0.1	<0.1	23.7
Rock	1115033	SMI11000342	2.1	151.8	0.9	21	0.4	28.2	33.0	213	<0.5	47.9	<0.1	0.2	0.2
Rock	1115034	SMI11000342	0.5	964.6	0.6	16	0.2	50.9	57.0	237	0.9	26.5	0.1	0.2	0.2
Rock	1115035	SMI11000342	0.2	322.9	0.6	28	0.2	36.7	36.3	300	0.8	11.9	0.1	<0.1	0.2
Rock	1115003	SMI11000342	3.5	2358.9	1.2	62	1.7	633.5	105.8	415	3.8	67.5	0.4	0.1	0.3
Rock	1115004	SMI11000342	0.2	8.1	0.7	19	<0.1	5.2	13.0	455	0.6	<0.5	<0.1	<0.1	0.3
Rock	1115005	SMI11000342	2.1	51.4	3.3	34	0.2	4.3	9.0	360	1.0	14.0	0.2	<0.1	5.1
Rock	1115006	SMI11000342	2.2	16.0	1.5	18	<0.1	4.4	8.0	286	1.0	<0.5	<0.1	<0.1	4.6
Rock	1115007	SMI11000342	4.2	29.2	1.8	23	<0.1	3.0	10.4	318	<0.5	<0.5	<0.1	<0.1	4.7
Rock	1115008	SMI11000342	5.1	22.2	2.2	15	<0.1	1.6	3.0	195	<0.5	1.1	<0.1	<0.1	20.3
Rock	1115009	SMI11000342	8.4	50.4	0.8	18	0.1	24.8	13.2	244	<0.5	0.8	<0.1	<0.1	17.0
Rock	1115010	SMI11000342	46.7	27.2	1.0	21	<0.1	21.1	10.0	304	<0.5	<0.5	<0.1	<0.1	9.5
Rock	1115011	SMI11000342	165.8	50.4	2385.0	31	0.9	2.5	5.9	273	<0.5	10.1	<0.1	0.2	60.7

Sample Type	Sample #	Zone	Easting (NAD83)	Northing (NAD83)	ACME Job #	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	As (ppm)	Au (ppb)	W (ppm)	Re (ppb)
Soil	540405	9	683594	6261314	SMI11000379	7.35	122.04	9.30	84.7	143	43.6	22.0	803	1.6	26.1	3.7	<1
Soil	540408	9	683768	6261561	SMI11000379	6.37	185.53	6.03	43.2	182	40.4	24.7	789	1.4	32.9	2.3	<1
Soil	540409	9	683828	6261638	SMI11000379	6.36	27.22	4.35	36.3	173	16.7	11.4	325	1.2	115.9	2.5	<1
Soil	540410	9	683890	6261721	SMI11000379	7.84	33.85	3.28	38.5	100	21.1	12.2	305	1.1	36.5	1.3	<1
Soil	540411	9	683953	6261799	SMI11000379	4.73	48.60	4.38	69.2	61	37.4	22.7	970	1.2	22.2	1.6	1
Soil	540412	9	684207	6261340	SMI11000379	42.44	145.94	7.69	59.0	189	13.0	25.4	838	1.6	44.5	30.0	2
Soil	540414	9	684125	6261164	SMI11000379	144.09	231.42	10.64	51.4	214	124.4	30.8	629	0.6	20.2	72.8	6
Soil	540415	9	684095	6261121	SMI11000379	699.69	758.60	4.60	33.5	656	16.0	72.8	543	1.0	14.2	150.0	15
Soil	540416	9	684036	6261042	SMI11000379	101.99	162.67	25.03	39.8	187	33.6	22.0	464	1.4	29.8	24.3	<1
Soil	541692	9	683423	6261112	SMI11000379	3.02	21.86	6.21	32.1	247	60.1	14.0	296	0.4	184.2	0.6	<1
Soil	541693	9	683497	6261199	SMI11000379	1.92	155.86	7.85	51.3	176	150.6	30.6	876	1.3	43.3	1.2	<1
Soil	541694	9	683563	6261275	SMI11000379	6.45	218.64	10.25	54.6	162	94.4	28.3	918	1.3	44.9	2.2	<1
Soil	541696	9	683623	6261354	SMI11000379	12.17	132.14	8.82	111.3	250	32.9	24.4	3549	1.5	29.0	10.2	<1
Soil	541697	9	683681	6261439	SMI11000379	7.95	245.03	6.86	48.7	337	35.5	25.2	680	0.9	43.3	4.8	<1
Soil	541698	9	683739	6261518	SMI11000379	3.35	130.39	8.12	51.9	199	61.8	26.2	764	1.4	56.8	3.3	<1
Soil	541699	9	683805	6261599	SMI11000379	8.08	198.20	6.28	79.7	444	23.2	22.4	1395	1.8	23.0	3.0	<1
Soil	541700	9	683861	6261678	SMI11000379	7.61	54.35	5.07	60.6	46	24.2	21.9	1478	1.1	6.3	2.6	<1
Soil	552151	9	683921	6261757	SMI11000379	3.87	77.50	4.60	43.9	169	36.4	22.1	474	1.2	23.9	1.2	<1
Soil	552152	9	683990	6261823	SMI11000379	1.55	30.68	4.18	37.4	129	33.2	17.5	438	0.7	17.9	0.7	<1
Soil	552153	9	683919	6260933	SMI11000379	44.30	67.86	12.33	29.5	384	21.7	13.2	363	1.5	17.8	25.9	<1
Soil	552154	9	683985	6261008	SMI11000379	58.31	103.51	10.45	44.4	196	150.0	15.5	385	0.1	2.2	55.7	<1
Soil	552155	9	684058	6261083	SMI11000379	991.01	447.01	6148.70	71.1	2713	246.6	55.7	657	0.5	10.7	25.8	3
Soil	552156	9	684144	6261201	SMI11000379	35.33	200.00	16.58	59.3	725	57.2	42.0	899	2.5	66.0	26.4	3
Soil	552157	9	684199	6261286	SMI11000379	67.23	55.86	11.54	19.3	191	13.2	6.6	172	0.8	17.8	10.2	<1

## Appendix D – Maps of Sample Locations and Results

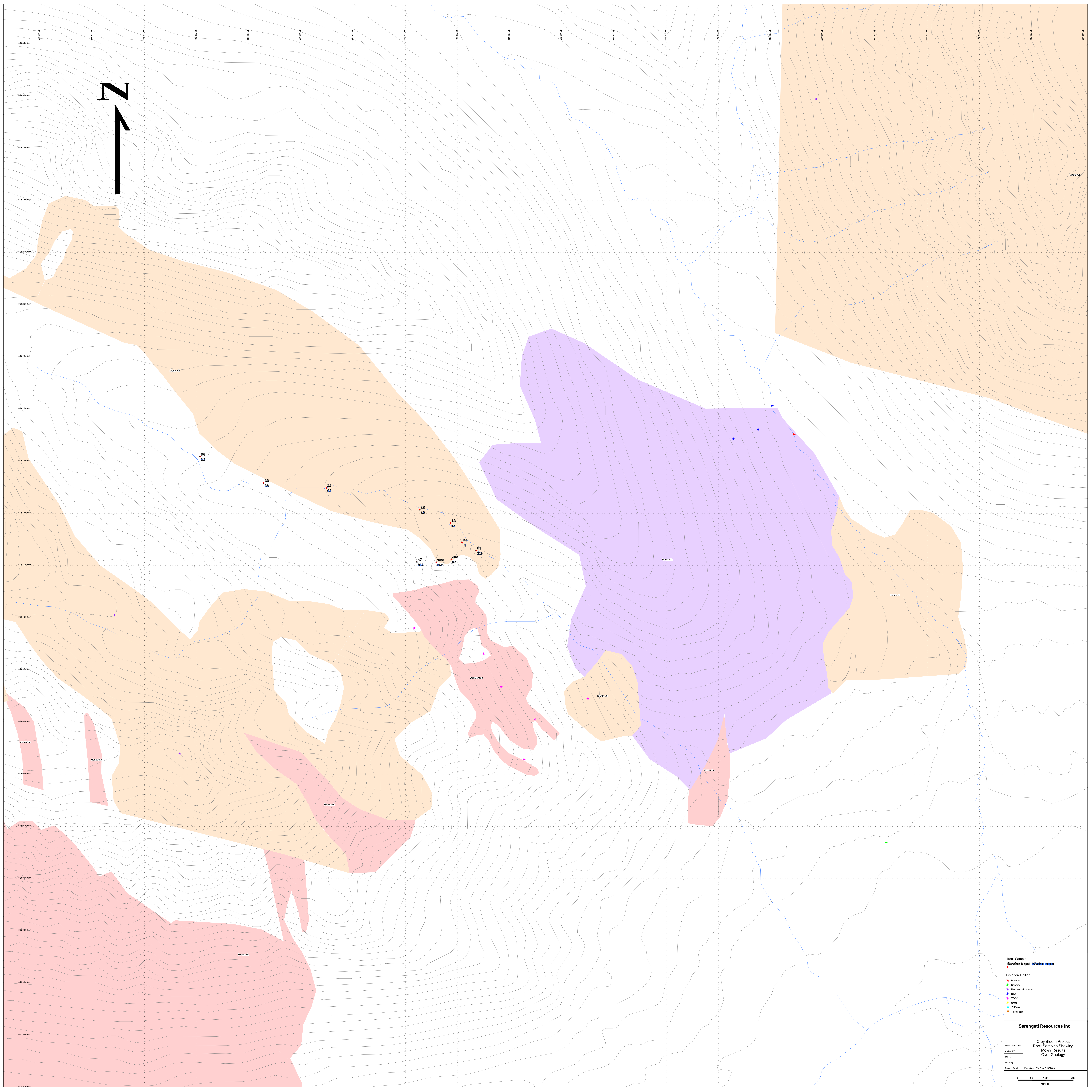


**Rock Sample (Sample ID)**  
●  
**Soil Sample (Sample ID)**  
●  
**Historical Drilling**  
■  
■ Baseline  
■ Incomplete  
■ Incomplete - Proposed  
■ JRC  
■ TCC  
■ Uncon  
■ G-Trace  
■ Public-Info

**Serengati Resources Inc**

Date: 10/03/2022  
Author: JH  
Title:  
Drawing:  
Scale: 1:5000 Projection: UTM Zone 32NAD 83

**Croy Bloom Project  
Samples Showing  
Rock and Soil Sample ID  
Over Geology**



**Rock Sample**  
 (Blue outline to ppm) (Red outline to ppm)

**Historical Drilling**

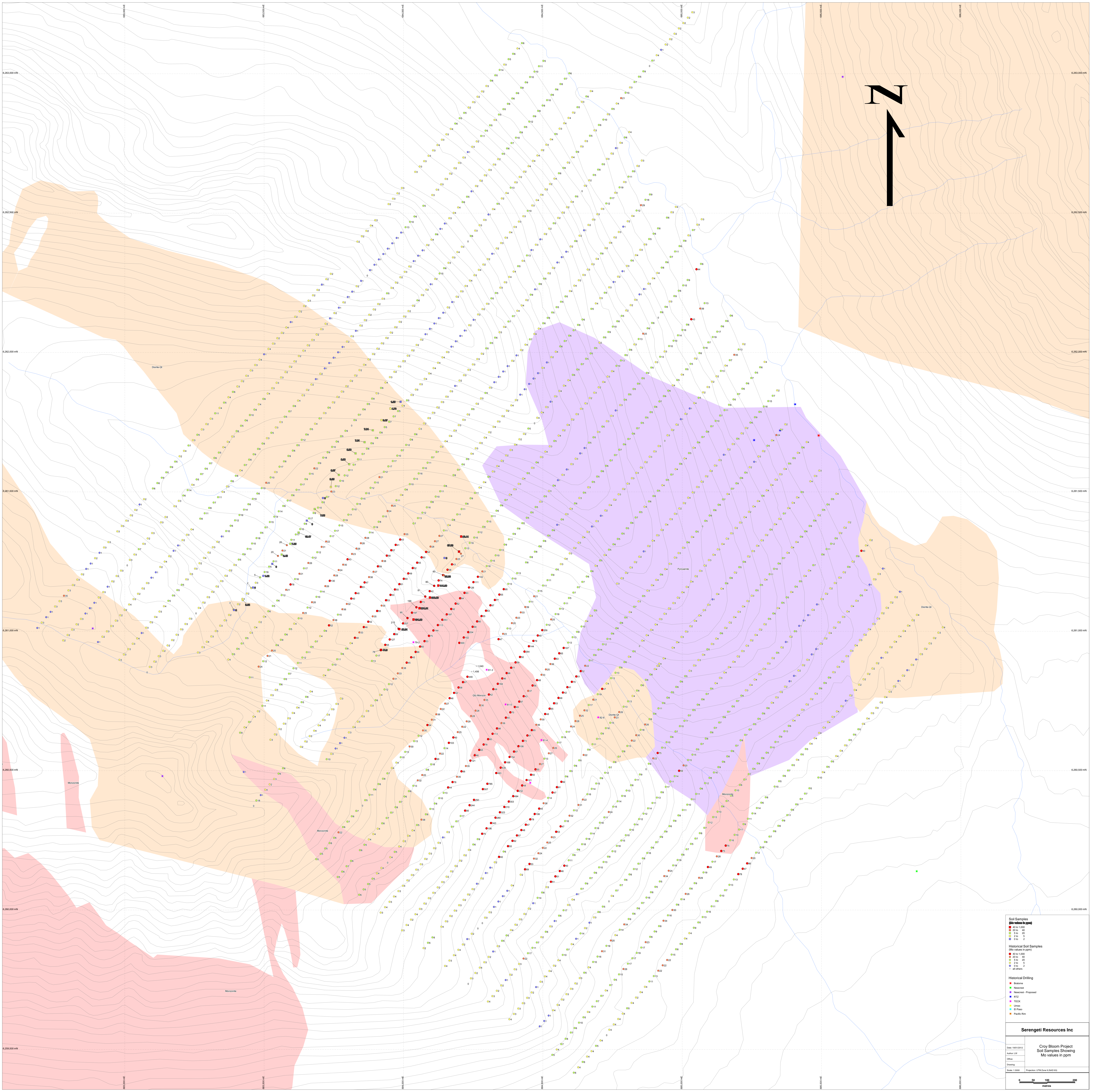
- Historical
- Recessed
- Recessed - Proposed
- RTZ
- TECK
- Urbis
- RTZ Pond
- Pack & Rin

**Serengeli Resources Inc**

Draw: 10/10/2012  
 Author: JH  
 Date:  
 Drawing:  
 Scale: 1:5000 Projection: UTM Zone 32N 48S

**Croy Bloom Project  
 Rock Samples Showing  
 Mo-V Results  
 Over Geology**

0 50 100 200  
 metres



**Soil Samples**

- Mo values in ppm
  - 40 to 1,000
  - 10 to 40
  - 5 to 10
  - 2 to 5
  - 0 to 2

**Historical Soil Samples**

- Mo values in ppm
  - 40 to 1,000
  - 10 to 40
  - 5 to 10
  - 2 to 5
  - 0 to 2
  - all others

**Historical Drilling**

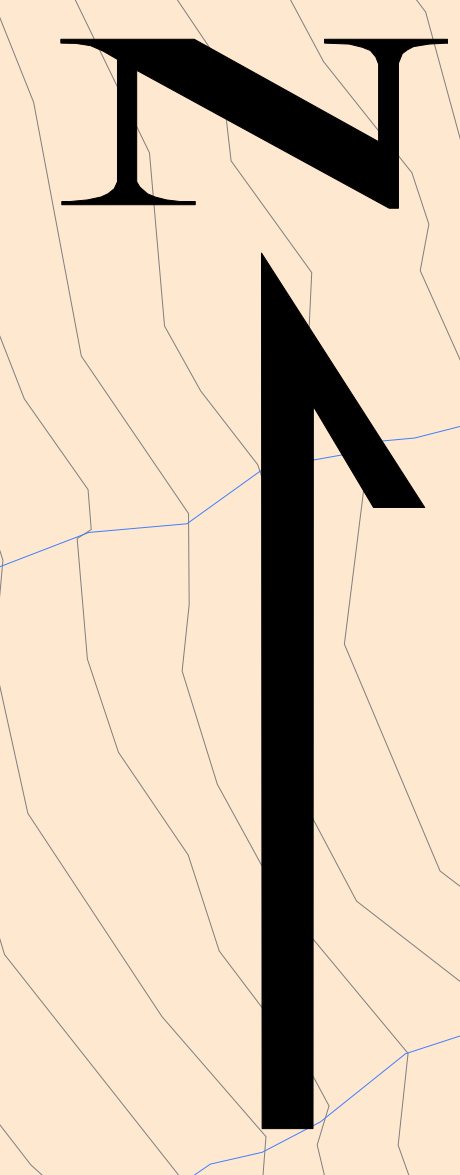
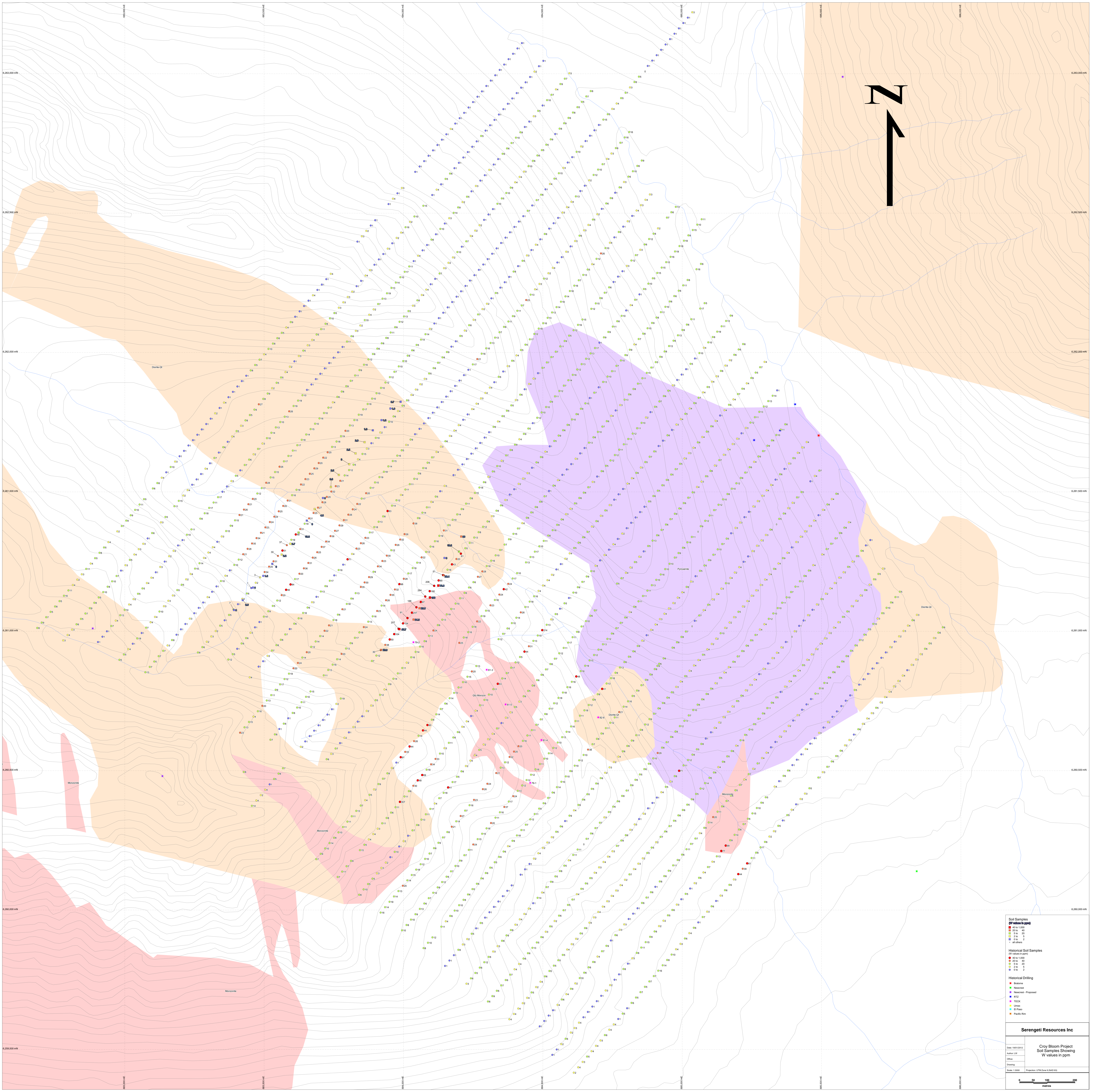
- Braine
- Neoscor
- Neoscor - Proposed
- HTZ
- TTCX
- Uran
- Q1900
- Paddy Run

**Serengeti Resources Inc**

Croy Bloom Project  
Soil Samples Showing  
Mo values in ppm

Date: 18/10/2012  
Author: JLM  
Scale: 1:5000  
Project: UTM Zone 32N (S3)

0 50 100 200  
metres



**Soil Samples**

- 40 to 1000
- 100 to 40
- 1 to 20
- 2 to 5
- 5 to 10
- 10 to 2

**Historical Soil Samples**

- 40 to 1000
- 100 to 40
- 1 to 20
- 2 to 5
- 5 to 10
- 10 to 2

**Historical Drilling**

- Braine
- Neocret
- Neocret - Proposed
- HTZ
- TTCX
- Uran
- Q 1900
- Paddy-Rin

**Serengeti Resources Inc**

Doc: 18101012  
 Author: LHM  
 Date: 18/01/2012  
 Drawing: 18101012

**Croy Bloom Project**  
 Soil Samples Showing  
 W values in ppm

Scale: 1:5000 Projection: UTM Zone 3 (NAD83)

0 50 100 200  
 meters

## Appendix E – Analytical Certificates





1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

**Client:** Serengeti Resources  
1700 - 750 W. Pender Street  
Vancouver BC V6C 2T8 Canada

Submitted By: Hugh Samson  
Receiving Lab: Canada-Smithers  
Received: August 25, 2011  
Report Date: September 10, 2011  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

SMI11000342.1

### CLIENT JOB INFORMATION

Project: Aug 12, 2011 Shipment  
Shipment ID: Aug-11  
P.O. Number  
Number of Samples: 42

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	42	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX3	42	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

### ADDITIONAL COMMENTS

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

Invoice To: Serengeti Resources  
1700 - 750 W. Pender Street  
Vancouver BC V6C 2T8  
Canada

CC: Dave Moore  
Dustin Perry



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.



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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Serengeti Resources**  
1700 - 750 W. Pender Street  
Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment  
Report Date: September 10, 2011

Page: 2 of 3 Part 1

# CERTIFICATE OF ANALYSIS

SMI11000342.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
537955	Rock	0.55	1.1	85.5	3.3	36	0.1	6.9	14.8	1017	3.68	1.3	3.1	2.2	34	0.2	0.6	<0.1	50	0.55	0.194
537956	Rock	0.88	0.9	9.8	2.2	37	<0.1	5.4	10.3	641	2.67	0.6	10.7	1.3	37	<0.1	0.5	<0.1	45	0.40	0.134
537957	Rock	0.59	2.3	85.3	2.5	30	0.2	4.0	10.3	608	2.80	2.4	14.1	2.8	34	0.1	0.3	<0.1	31	0.87	0.102
537958	Rock	0.99	2.8	70.0	3.0	28	0.1	3.0	9.5	988	2.93	3.3	9.2	4.0	29	0.2	1.3	<0.1	31	0.72	0.138
537959	Rock	0.98	2.7	89.3	2.3	15	0.2	2.4	4.0	633	2.76	2.4	42.0	1.7	32	0.2	0.3	<0.1	27	0.77	0.141
540958	Rock	0.77	1.5	51.7	2.2	14	<0.1	3.2	6.1	352	2.30	<0.5	130.1	2.4	10	<0.1	<0.1	0.1	33	0.14	0.075
541942	Rock	0.35	<0.1	108.5	0.2	37	<0.1	17.0	21.9	422	5.17	<0.5	21.2	<0.1	74	<0.1	0.2	<0.1	126	1.29	0.218
541722	Rock	0.46	17.2	118.0	1.1	10	0.2	6.8	11.2	109	4.03	<0.5	12.1	0.7	58	<0.1	<0.1	<0.1	22	0.54	0.101
541723	Rock	1.36	2.6	99.4	0.5	27	<0.1	33.9	17.2	288	2.47	<0.5	2.5	0.2	97	<0.1	<0.1	<0.1	73	1.30	0.053
541897	Rock	0.60	4.5	503.6	1.8	21	0.2	16.3	8.3	176	2.70	0.8	5.3	0.5	212	<0.1	<0.1	0.2	31	1.27	0.069
541898	Rock	0.77	49.8	79.5	0.2	17	0.1	20.1	12.8	298	2.59	0.7	13.9	0.2	19	<0.1	0.1	<0.1	49	0.74	0.059
541899	Rock	1.01	0.2	20.1	0.5	30	<0.1	11.7	7.5	303	0.85	<0.5	1.4	0.1	38	<0.1	<0.1	<0.1	9	0.41	0.038
541900	Rock	0.88	5.7	89.2	1.6	34	0.1	7.3	14.4	200	3.64	<0.5	<0.5	0.6	82	<0.1	<0.1	<0.1	39	0.89	0.051
541907	Rock	0.61	0.4	1291	2.6	48	0.6	1.5	9.3	799	2.28	0.9	8.2	2.7	285	0.1	0.4	<0.1	127	3.35	0.093
1115001	Rock	0.96	1.1	176.5	1.1	16	0.1	17.0	16.9	143	2.91	<0.5	0.7	0.3	84	<0.1	<0.1	<0.1	36	0.85	0.052
1115002	Rock	0.84	1.7	141.6	0.9	16	<0.1	9.4	9.9	178	2.46	<0.5	1.3	0.3	93	<0.1	<0.1	<0.1	46	0.94	0.049
1115129	Rock	0.78	0.6	56.8	1.0	7	<0.1	4.3	6.2	127	1.95	<0.5	<0.5	1.9	32	<0.1	<0.1	<0.1	24	0.54	0.078
1115130	Rock	0.76	0.1	40.7	0.9	17	<0.1	1.3	3.2	194	1.26	<0.5	<0.5	0.8	73	<0.1	<0.1	<0.1	13	0.71	0.052
1115003	Rock	0.45	3.5	2359	1.2	62	1.7	633.5	105.8	415	4.22	3.8	67.5	<0.1	15	0.4	0.1	<0.1	111	0.47	0.117
1115004	Rock	0.89	0.2	8.1	0.7	19	<0.1	5.2	13.0	455	3.74	0.6	<0.5	1.0	43	<0.1	<0.1	<0.1	113	0.90	0.116
1115005	Rock	0.72	2.1	51.4	3.3	34	0.2	4.3	9.0	360	2.72	1.0	14.0	3.0	43	0.2	<0.1	0.3	40	0.57	0.080
1115006	Rock	0.96	2.2	16.0	1.5	18	<0.1	4.4	8.0	286	1.99	1.0	<0.5	0.8	86	<0.1	<0.1	0.1	49	0.91	0.179
1115007	Rock	0.93	4.2	29.2	1.8	23	<0.1	3.0	10.4	318	2.72	<0.5	<0.5	0.7	31	<0.1	<0.1	0.2	63	0.85	0.156
1115008	Rock	0.93	5.1	22.2	2.2	15	<0.1	1.6	3.0	195	2.51	<0.5	1.1	2.8	29	<0.1	<0.1	0.7	49	0.30	0.081
1115009	Rock	0.85	8.4	50.4	0.8	18	0.1	24.8	13.2	244	3.59	<0.5	0.8	0.2	31	<0.1	<0.1	0.7	112	0.76	0.023
1115010	Rock	0.84	46.7	27.2	1.0	21	<0.1	21.1	10.0	304	2.00	<0.5	<0.5	0.3	42	<0.1	<0.1	0.1	53	0.90	0.074
1115011	Rock	0.80	165.8	50.4	2385	31	0.9	2.5	5.9	273	3.67	<0.5	10.1	0.2	25	<0.1	0.2	1.6	81	0.34	0.070
1115012	Rock	1.11	2.7	79.1	3.0	15	0.1	26.7	13.2	213	5.05	<0.5	<0.5	0.2	8	<0.1	<0.1	0.3	138	0.74	0.007
1115013	Rock	0.77	4.7	29.7	9.9	22	<0.1	21.0	8.1	277	2.48	<0.5	<0.5	0.3	34	<0.1	<0.1	0.3	66	0.76	0.099
541913	Rock	0.59	15.8	41.4	1.5	30	<0.1	1.3	3.7	247	2.16	0.8	2.5	0.9	56	<0.1	<0.1	0.2	26	0.38	0.089



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Project: Aug 12, 2011 Shipment  
 Report Date: September 10, 2011

Page: 2 of 3 Part 2

# CERTIFICATE OF ANALYSIS

SMI11000342.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		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	0.01	0.1	0.01	0.05	1	0.5	0.2	
537955	Rock	11	10	0.40	88	0.021	<1	0.68	0.047	0.19	0.1	<0.01	5.4	<0.1	<0.05	2	<0.5	<0.2
537956	Rock	8	8	0.65	292	0.012	<1	1.00	0.033	0.27	0.1	<0.01	3.0	<0.1	0.12	3	<0.5	<0.2
537957	Rock	6	5	0.36	58	0.004	<1	0.55	0.035	0.23	0.2	<0.01	2.0	<0.1	0.05	2	<0.5	<0.2
537958	Rock	12	4	0.08	57	0.006	<1	0.26	0.055	0.14	0.3	<0.01	4.3	<0.1	<0.05	1	<0.5	<0.2
537959	Rock	8	3	0.18	50	0.006	<1	0.36	0.046	0.18	0.3	<0.01	3.0	<0.1	0.11	1	<0.5	<0.2
540958	Rock	7	3	0.40	39	0.004	1	0.69	0.055	0.13	0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
541942	Rock	2	46	1.32	110	0.110	<1	1.18	0.038	0.48	0.3	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
541722	Rock	3	8	0.40	32	0.058	<1	0.81	0.100	0.10	1.4	<0.01	0.7	<0.1	1.54	3	1.3	<0.2
541723	Rock	<1	75	1.01	124	0.134	<1	2.45	0.260	0.47	0.9	<0.01	2.5	0.2	0.56	5	<0.5	<0.2
541897	Rock	4	16	0.39	34	0.093	<1	2.29	0.279	0.08	0.2	<0.01	1.6	<0.1	0.76	5	4.5	0.3
541898	Rock	<1	30	1.00	22	0.183	<1	1.17	0.029	0.10	0.6	<0.01	2.1	<0.1	0.19	3	<0.5	<0.2
541899	Rock	<1	14	0.67	75	0.039	<1	0.82	0.046	0.08	0.1	<0.01	0.5	<0.1	0.16	2	<0.5	<0.2
541900	Rock	2	9	0.55	20	0.117	<1	1.55	0.170	0.05	1.4	<0.01	2.3	<0.1	1.19	4	2.2	<0.2
541907	Rock	12	3	0.49	223	0.108	3	0.96	0.025	0.28	0.3	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1115001	Rock	1	10	0.38	56	0.099	<1	1.36	0.168	0.12	0.1	<0.01	1.7	<0.1	0.99	3	4.6	<0.2
1115002	Rock	1	9	0.48	48	0.106	<1	1.63	0.143	0.12	0.1	<0.01	2.0	<0.1	0.60	4	3.8	<0.2
1115129	Rock	6	7	0.25	8	0.099	<1	0.58	0.072	0.05	0.7	<0.01	1.0	<0.1	0.47	2	<0.5	<0.2
1115130	Rock	4	3	0.34	61	0.062	<1	0.60	0.059	0.13	0.1	<0.01	0.3	<0.1	0.29	2	<0.5	<0.2
1115003	Rock	<1	276	1.98	42	0.131	<1	1.92	0.046	0.10	0.3	0.03	3.1	<0.1	2.02	7	5.6	0.4
1115004	Rock	2	4	1.32	120	0.118	<1	1.54	0.051	0.41	0.3	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1115005	Rock	5	4	0.62	85	0.082	<1	0.81	0.058	0.29	5.1	<0.01	1.5	<0.1	1.11	4	<0.5	0.2
1115006	Rock	2	2	0.77	35	0.084	<1	0.98	0.062	0.11	4.6	<0.01	1.4	<0.1	0.23	4	<0.5	<0.2
1115007	Rock	3	2	0.74	44	0.099	<1	0.95	0.065	0.19	4.7	<0.01	1.4	<0.1	0.45	4	<0.5	<0.2
1115008	Rock	5	3	0.44	97	0.114	<1	0.59	0.070	0.11	20.3	<0.01	1.6	<0.1	0.42	4	<0.5	<0.2
1115009	Rock	<1	88	0.88	21	0.231	<1	0.91	0.057	0.11	17.0	<0.01	4.2	<0.1	0.41	4	<0.5	0.3
1115010	Rock	2	70	0.89	58	0.108	<1	0.97	0.099	0.19	9.5	<0.01	3.7	<0.1	0.39	3	<0.5	<0.2
1115011	Rock	1	3	0.91	21	0.139	<1	0.93	0.046	0.10	60.7	<0.01	2.9	<0.1	0.99	5	0.8	0.9
1115012	Rock	<1	174	0.63	9	0.180	<1	0.39	0.041	0.05	18.3	<0.01	4.6	<0.1	0.61	3	<0.5	<0.2
1115013	Rock	2	61	0.88	46	0.131	<1	0.89	0.073	0.19	23.7	<0.01	3.4	<0.1	0.39	4	<0.5	<0.2
541913	Rock	5	<1	0.77	29	0.118	<1	0.90	0.070	0.07	0.6	<0.01	0.6	<0.1	0.28	4	<0.5	<0.2

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.



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 Vancouver BC V6C 2T8 Canada

Project: Aug 12, 2011 Shipment  
 Report Date: September 10, 2011

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CERTIFICATE OF ANALYSIS

SMI11000342.1

	Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
541914	Rock	0.75	34.8	58.7	1.3	24	<0.1	32.9	16.8	250	2.31	<0.5	0.6	0.2	49	<0.1	<0.1	0.2	58	0.77	0.057	
541915	Rock	0.95	7.8	83.0	1.3	32	0.1	1.7	5.6	230	2.49	<0.5	1.3	0.5	98	<0.1	<0.1	<0.1	36	0.81	0.127	
552001	Rock	0.79	5.9	456.4	2.3	4	1.3	1.6	6.1	105	22.38	9.1	388.8	0.4	58	<0.1	0.6	1.1	92	0.03	0.077	
552002	Rock	0.55	0.2	5243	0.9	6	<0.1	10.1	79.4	404	0.50	4.5	6.4	0.4	49	0.1	0.2	<0.1	27	1.11	0.148	
1115033	Rock	0.31	2.1	151.8	0.9	21	0.4	28.2	33.0	213	3.98	<0.5	47.9	0.3	17	<0.1	0.2	0.1	37	0.43	0.036	
1115034	Rock	0.51	0.5	964.6	0.6	16	0.2	50.9	57.0	237	3.70	0.9	26.5	<0.1	24	0.1	0.2	<0.1	42	0.61	0.084	
1115035	Rock	0.44	0.2	322.9	0.6	28	0.2	36.7	36.3	300	2.42	0.8	11.9	<0.1	18	0.1	<0.1	<0.1	37	0.74	0.068	
1115036	Rock	0.67	0.6	1228	1.6	39	4.7	32.4	68.7	524	11.85	5.9	518.0	0.3	28	0.1	0.1	0.2	85	1.03	0.014	
1115037	Rock	0.47	29.0	639.8	2.3	3	1.2	2.3	3.5	32	24.19	6.4	953.6	0.1	51	<0.1	0.2	0.6	140	0.03	0.054	
1115040	Rock	0.69	2.4	275.1	2.8	44	1.2	23.5	25.4	358	21.62	34.2	94.1	0.4	14	<0.1	0.4	0.2	46	0.28	0.024	
1115041	Rock	1.40	1.5	523.2	2.8	37	1.1	7.3	85.4	567	14.85	74.2	120.5	0.3	13	<0.1	1.2	0.2	59	0.30	0.050	
1115133	Rock	1.24	0.9	3804	7.3	15	5.1	1.4	5.2	204	1.19	13.3	29.9	0.8	39	0.1	1.9	6.8	18	0.95	0.084	



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CERTIFICATE OF ANALYSIS

SMI11000342.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
		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	0.05	1	0.5	0.2	
541914	Rock	<1	40	0.99	63	0.189	<1	1.17	0.059	0.30	0.4	<0.01	2.7	<0.1	0.60	4	<0.5	0.3
541915	Rock	6	2	0.59	35	0.111	<1	1.03	0.082	0.10	0.3	<0.01	0.7	<0.1	0.71	4	0.6	<0.2
552001	Rock	1	23	0.03	57	0.084	<1	0.13	0.219	0.26	0.4	0.04	1.1	<0.1	1.16	10	9.3	1.9
552002	Rock	4	10	0.15	11	0.106	<1	0.67	0.052	0.03	0.2	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
1115033	Rock	<1	18	1.01	6	0.153	2	1.06	0.081	0.02	0.2	<0.01	1.7	<0.1	3.03	3	4.6	0.2
1115034	Rock	<1	30	0.78	33	0.094	2	0.97	0.051	0.11	0.2	0.04	2.7	<0.1	3.01	2	3.3	0.2
1115035	Rock	<1	65	1.08	30	0.128	<1	1.05	0.055	0.06	0.2	<0.01	2.4	<0.1	1.04	2	3.7	<0.2
1115036	Rock	2	152	2.56	127	0.026	1	2.59	0.112	0.32	<0.1	0.02	7.9	<0.1	0.62	7	7.6	1.0
1115037	Rock	5	22	0.01	35	0.085	1	0.31	0.184	1.36	0.2	0.10	3.2	0.2	3.02	7	10.7	4.3
1115040	Rock	1	21	0.62	89	0.087	<1	1.22	0.008	0.04	1.4	0.01	2.3	<0.1	0.74	5	3.3	0.9
1115041	Rock	1	26	0.77	41	0.148	<1	1.53	0.020	0.10	<0.1	0.04	2.1	<0.1	2.03	5	6.0	1.3
1115133	Rock	8	1	0.07	617	0.001	4	0.40	0.032	0.29	<0.1	1.18	1.5	0.1	0.19	2	0.6	0.2



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 Report Date: September 10, 2011

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QUALITY CONTROL REPORT

SMI11000342.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
540958	Rock	0.77	1.5	51.7	2.2	14	<0.1	3.2	6.1	352	2.30	<0.5	130.1	2.4	10	<0.1	<0.1	0.1	33	0.14	0.075
REP 540958	QC		1.4	50.7	2.2	15	<0.1	3.1	6.1	334	2.24	<0.5	170.9	2.3	10	<0.1	<0.1	<0.1	32	0.12	0.077
1115012	Rock	1.11	2.7	79.1	3.0	15	0.1	26.7	13.2	213	5.05	<0.5	<0.5	0.2	8	<0.1	<0.1	0.3	138	0.74	0.007
REP 1115012	QC		3.3	75.9	5.5	15	0.1	25.2	13.0	211	5.05	<0.5	<0.5	0.2	8	<0.1	<0.1	0.3	139	0.75	0.008
1115033	Rock	0.31	2.1	151.8	0.9	21	0.4	28.2	33.0	213	3.98	<0.5	47.9	0.3	17	<0.1	0.2	0.1	37	0.43	0.036
REP 1115033	QC		2.1	155.2	0.9	22	0.4	29.3	32.7	214	4.00	0.5	47.1	0.3	17	<0.1	0.1	<0.1	36	0.44	0.035
Reference Materials																					
STD DS8	Standard		11.8	112.0	133.9	317	1.8	38.4	7.6	635	2.51	25.0	115.6	7.2	66	2.4	5.6	7.7	40	0.66	0.077
STD DS8	Standard		12.6	111.0	130.2	326	1.9	38.0	7.5	628	2.54	25.8	110.9	6.5	66	2.4	5.5	6.9	42	0.73	0.084
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<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	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank		0.1	2.0	3.2	41	<0.1	3.0	3.8	528	1.88	<0.5	2.7	5.1	57	<0.1	<0.1	0.2	33	0.40	0.072
G1	Prep Blank		0.1	1.5	3.7	45	<0.1	3.0	3.8	559	1.90	<0.5	0.6	5.5	51	<0.1	<0.1	0.1	34	0.42	0.075



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Project: Aug 12, 2011 Shipment  
 Report Date: September 10, 2011

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QUALITY CONTROL REPORT

SMI11000342.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
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																		
540958	Rock	7	3	0.40	39	0.004	1	0.69	0.055	0.13	0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
REP 540958	QC	7	3	0.39	38	0.004	1	0.66	0.052	0.13	0.2	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1115012	Rock	<1	174	0.63	9	0.180	<1	0.39	0.041	0.05	18.3	<0.01	4.6	<0.1	0.61	3	<0.5	<0.2
REP 1115012	QC	<1	169	0.64	9	0.182	<1	0.38	0.041	0.05	18.6	<0.01	4.5	<0.1	0.62	3	<0.5	<0.2
1115033	Rock	<1	18	1.01	6	0.153	2	1.06	0.081	0.02	0.2	<0.01	1.7	<0.1	3.03	3	4.6	0.2
REP 1115033	QC	<1	18	1.03	6	0.157	2	1.04	0.070	0.02	0.2	0.01	1.8	<0.1	3.04	3	5.5	<0.2
Reference Materials																		
STD DS8	Standard	12	113	0.62	246	0.115	3	0.85	0.077	0.40	2.8	0.20	1.9	5.6	0.16	5	5.9	5.1
STD DS8	Standard	14	115	0.64	278	0.114	2	0.94	0.083	0.43	3.0	0.19	2.1	5.7	0.18	5	6.3	4.9
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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
Prep Wash																		
G1	Prep Blank	8	7	0.54	172	0.105	<1	0.86	0.067	0.45	<0.1	<0.01	1.5	0.3	<0.05	4	<0.5	<0.2
G1	Prep Blank	9	8	0.54	182	0.108	<1	0.84	0.067	0.45	<0.1	<0.01	1.6	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Hugh Samson
Receiving Lab: Canada-Smithers
Received: August 29, 2011
Report Date: September 22, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI11000379.1

CLIENT JOB INFORMATION

Project: Aug 12, 2011 Shipment
Shipment ID: Aug-11
P.O. Number
Number of Samples: 25

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Serengeti Resources
1700 - 750 W. Pender Street
Vancouver BC V6C 2T8
Canada

CC: Dave Moore

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, RJSV, 1F05 and their corresponding test weights and lab results.

ADDITIONAL COMMENTS



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.





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CERTIFICATE OF ANALYSIS

SMI11000379.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
541697	Soil	7.95	245.0	6.86	48.7	337	35.5	25.2	680	3.25	0.9	3.1	43.3	0.4	43.9	0.41	0.23	0.64	78	1.18	0.068
340407	Soil	8.99	15.69	7.03	13.4	205	10.9	6.1	102	2.80	0.7	0.2	66.1	0.2	19.0	0.07	0.15	0.78	159	0.15	0.038
541698	Soil	3.35	130.4	8.12	51.9	199	61.8	26.2	764	3.98	1.4	0.6	56.8	0.4	39.2	0.20	0.09	0.74	114	0.86	0.113
540408	Soil	6.37	185.5	6.03	43.2	182	40.4	24.7	789	3.70	1.4	1.8	32.9	0.6	36.8	0.18	0.11	0.71	106	0.83	0.077
541699	Soil	8.08	198.2	6.28	79.7	444	23.2	22.4	1395	3.67	1.8	3.1	23.0	0.3	36.3	0.83	0.15	0.56	86	1.09	0.151
540409	Soil	6.36	27.22	4.35	36.3	173	16.7	11.4	325	3.62	1.2	0.3	115.9	0.1	24.0	0.09	0.08	0.54	128	0.33	0.055
541700	Soil	7.61	54.35	5.07	60.6	46	24.2	21.9	1478	3.83	1.1	1.0	6.3	0.4	28.4	0.23	0.10	0.57	105	0.67	0.065
540410	Soil	7.84	33.85	3.28	38.5	100	21.1	12.2	305	3.66	1.1	0.4	36.5	0.4	21.9	0.18	0.08	0.35	116	0.40	0.029
552151	Soil	3.87	77.50	4.60	43.9	169	36.4	22.1	474	3.86	1.2	1.8	23.9	0.3	30.6	0.19	0.14	0.42	113	0.76	0.049
540411	Soil	4.73	48.60	4.38	69.2	61	37.4	22.7	970	4.03	1.2	0.7	22.2	0.3	22.4	0.23	0.18	0.32	165	0.48	0.044
541692	Soil	3.02	21.86	6.21	32.1	247	60.1	14.0	296	3.29	0.4	0.2	184.2	0.1	21.7	0.07	0.07	0.34	110	0.20	0.051
552152	Soil	1.55	30.68	4.18	37.4	129	33.2	17.5	438	4.41	0.7	0.1	17.9	0.2	22.8	0.10	0.10	0.28	150	0.26	0.054
541693	Soil	1.92	155.9	7.85	51.3	176	150.6	30.6	876	4.33	1.3	0.2	43.3	0.4	22.1	0.12	0.07	0.32	138	0.32	0.102
541694	Soil	6.45	218.6	10.25	54.6	162	94.4	28.3	918	4.11	1.3	2.2	44.9	0.4	34.6	0.20	0.13	0.51	134	0.38	0.096
540405	Soil	7.35	122.0	9.30	84.7	143	43.6	22.0	803	3.95	1.6	2.7	26.1	0.3	44.4	0.25	0.13	0.81	129	0.94	0.106
541696	Soil	12.17	132.1	8.82	111.3	250	32.9	24.4	3549	3.99	1.5	2.4	29.0	0.4	38.6	0.72	0.16	0.88	118	0.75	0.102
540412	Soil	42.44	145.9	7.69	59.0	189	13.0	25.4	838	7.96	1.6	0.4	44.5	0.4	38.3	0.11	0.04	1.75	163	0.52	0.161
552157	Soil	67.23	55.86	11.54	19.3	191	13.2	6.6	172	3.38	0.8	0.5	17.8	0.5	25.6	0.09	0.23	1.64	123	0.15	0.051
552153	Soil	44.30	67.86	12.33	29.5	384	21.7	13.2	363	6.07	1.5	0.4	17.8	0.6	22.3	0.19	0.14	1.01	132	0.19	0.129
552154	Soil	58.31	103.5	10.45	44.4	196	150.0	15.5	385	5.97	0.1	0.4	2.2	0.2	47.9	0.05	<0.02	1.47	162	0.16	0.091
540414	Soil	144.1	231.4	10.64	51.4	214	124.4	30.8	629	5.99	0.6	2.8	20.2	0.7	39.8	0.08	0.06	0.91	143	0.30	0.102
552155	Soil	991.0	447.0	6149	71.1	2713	246.6	55.7	657	5.44	0.5	4.3	10.7	0.2	39.3	0.75	0.18	1.64	142	0.79	0.091
540415	Soil	699.7	758.6	4.60	33.5	656	16.0	72.8	543	12.93	1.0	14.6	14.2	0.9	97.5	0.30	0.27	2.51	119	0.45	0.216
540416	Soil	102.0	162.7	25.03	39.8	187	33.6	22.0	464	5.70	1.4	1.8	29.8	5.7	40.0	0.19	0.23	1.71	100	0.30	0.114
552156	Soil	35.33	200.0	16.58	59.3	725	57.2	42.0	899	6.33	2.5	1.6	66.0	3.1	62.6	0.31	0.23	2.42	131	0.43	0.138



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
541697	Soil	4.6	96.4	0.96	154.1	0.090	<1	1.70	0.008	0.06	4.8	3.9	0.15	0.07	45	1.2	0.26	5.5	2.26	<0.1	<0.02
340407	Soil	2.0	50.4	0.35	22.6	0.156	<1	0.79	0.005	0.02	1.5	1.5	0.06	0.02	18	<0.1	0.17	9.1	0.39	<0.1	<0.02
541698	Soil	2.6	155.4	1.78	111.4	0.087	<1	1.94	0.006	0.11	3.3	3.7	0.12	0.03	16	0.4	0.44	5.9	2.05	<0.1	<0.02
540408	Soil	4.2	103.0	1.63	90.1	0.077	<1	2.06	0.007	0.07	2.3	4.5	0.09	0.05	24	0.5	0.19	5.7	1.59	<0.1	0.02
541699	Soil	8.0	78.3	1.05	147.8	0.035	<1	2.37	0.008	0.05	3.0	2.6	0.15	0.10	63	0.7	0.20	5.5	2.10	<0.1	0.02
540409	Soil	1.8	59.1	1.06	62.8	0.123	<1	1.50	0.006	0.05	2.5	2.2	0.07	0.04	33	0.2	0.24	7.6	0.79	<0.1	<0.02
541700	Soil	2.8	97.7	1.20	118.1	0.074	<1	1.77	0.006	0.05	2.6	2.8	0.05	0.04	17	<0.1	0.17	5.2	1.48	<0.1	<0.02
540410	Soil	1.6	86.2	1.00	33.5	0.139	<1	1.35	0.005	0.04	1.3	2.4	0.02	0.03	18	0.1	0.14	5.1	0.45	<0.1	<0.02
552151	Soil	2.2	130.1	1.29	105.8	0.084	<1	1.72	0.007	0.05	1.2	3.4	0.04	0.04	19	0.3	0.19	5.2	1.11	<0.1	0.02
540411	Soil	2.1	148.1	1.23	69.7	0.090	<1	1.64	0.006	0.04	1.6	3.0	0.04	0.03	16	0.1	0.12	5.1	3.84	<0.1	<0.02
541692	Soil	1.4	171.6	1.54	27.3	0.129	<1	1.98	0.002	0.04	0.6	2.2	0.04	0.02	28	0.1	0.18	6.7	0.86	<0.1	<0.02
552152	Soil	1.3	135.8	1.15	40.7	0.164	<1	1.54	0.007	0.04	0.7	2.4	0.04	<0.02	12	<0.1	0.14	6.1	0.85	<0.1	<0.02
541693	Soil	2.4	341.2	3.01	68.3	0.140	<1	2.97	0.001	0.16	1.2	5.0	0.10	<0.02	9	0.2	0.22	7.5	1.84	<0.1	<0.02
541694	Soil	4.4	215.2	2.19	119.4	0.101	<1	2.81	0.004	0.04	2.2	4.5	0.07	0.04	21	0.3	0.29	7.8	1.80	<0.1	<0.02
540405	Soil	5.3	133.1	1.65	155.2	0.065	<1	2.40	0.010	0.08	3.7	3.7	0.04	0.09	34	0.6	0.22	6.7	2.03	<0.1	<0.02
541696	Soil	5.2	110.9	1.09	213.1	0.049	<1	2.24	0.008	0.05	10.2	3.0	0.16	0.07	41	0.5	0.19	6.4	3.32	<0.1	<0.02
540412	Soil	2.5	25.1	1.57	144.9	0.142	<1	2.07	0.008	0.33	30.0	4.9	0.29	0.09	37	0.6	0.72	9.1	3.38	0.2	<0.02
552157	Soil	4.3	40.8	0.45	64.8	0.129	<1	1.29	0.006	0.05	10.2	1.7	0.08	0.05	24	0.2	0.48	8.3	0.78	<0.1	<0.02
552153	Soil	3.2	79.4	0.90	45.1	0.103	<1	1.89	0.007	0.04	25.9	2.5	0.06	0.05	57	0.3	0.39	7.7	0.77	<0.1	<0.02
552154	Soil	1.5	440.1	3.04	234.2	0.222	<1	2.61	0.025	1.58	55.7	5.0	0.90	0.73	<5	0.4	0.19	10.0	5.87	0.3	0.03
540414	Soil	3.2	307.0	2.61	247.2	0.212	<1	2.82	0.017	0.64	72.8	4.9	0.48	0.05	<5	0.6	0.34	9.2	3.21	0.2	0.08
552155	Soil	1.8	451.3	3.60	141.3	0.200	<1	3.04	0.007	0.50	25.8	4.8	0.48	0.04	<5	0.3	0.55	9.4	4.36	0.2	0.04
540415	Soil	4.1	20.6	1.12	109.1	0.099	<1	1.76	0.010	0.17	>100	4.2	0.44	0.08	<5	1.3	0.53	6.7	1.38	0.1	0.04
540416	Soil	12.3	88.4	1.24	197.1	0.098	<1	2.67	0.007	0.10	24.3	3.5	0.10	0.06	16	0.7	0.66	5.5	1.34	<0.1	0.03
552156	Soil	13.0	133.6	1.82	297.6	0.123	1	2.63	0.017	0.23	26.4	5.5	0.27	0.07	18	0.6	0.93	7.6	2.56	0.1	0.05



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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
541697	Soil	1.23	7.3	0.4	<0.05	0.6	9.20	7.5	<0.02	<1	0.2	11.3	17	2
340407	Soil	0.66	2.5	0.5	<0.05	0.3	1.03	3.9	<0.02	<1	<0.1	2.0	<10	<2
541698	Soil	0.33	8.9	0.1	<0.05	0.3	3.63	5.7	<0.02	<1	0.2	10.9	<10	3
540408	Soil	0.48	7.2	0.2	<0.05	0.9	6.68	8.7	0.02	<1	0.2	10.3	12	3
541699	Soil	1.09	7.7	0.3	<0.05	0.5	11.78	15.7	<0.02	<1	0.3	11.9	10	2
540409	Soil	0.54	8.0	0.3	<0.05	0.2	1.94	3.7	<0.02	<1	<0.1	4.5	<10	<2
541700	Soil	0.53	10.2	0.2	<0.05	0.4	2.93	6.9	<0.02	<1	0.2	12.5	<10	<2
540410	Soil	0.58	5.5	0.2	<0.05	0.4	2.06	4.0	<0.02	<1	0.1	6.7	<10	<2
552151	Soil	0.44	6.8	0.1	<0.05	0.4	2.99	7.6	<0.02	<1	0.1	18.1	<10	4
540411	Soil	0.55	7.0	0.2	<0.05	0.3	2.39	4.9	<0.02	1	0.1	16.5	<10	4
541692	Soil	0.41	4.0	0.2	<0.05	0.2	1.44	2.9	<0.02	<1	<0.1	8.4	<10	3
552152	Soil	0.28	6.2	0.2	<0.05	0.1	1.41	2.7	<0.02	<1	<0.1	6.3	<10	5
541693	Soil	0.20	9.4	0.2	<0.05	0.1	3.03	5.9	<0.02	<1	0.2	14.6	<10	4
541694	Soil	0.45	5.1	0.3	<0.05	0.3	5.43	8.3	<0.02	<1	0.3	14.7	11	6
540405	Soil	0.59	7.5	0.2	<0.05	0.5	6.88	11.1	<0.02	<1	0.4	15.5	21	3
541696	Soil	0.83	9.6	0.5	<0.05	0.5	6.15	11.0	0.02	<1	0.3	15.8	10	2
540412	Soil	0.19	20.0	0.4	<0.05	<0.1	4.59	5.8	0.03	2	0.1	9.1	<10	2
552157	Soil	0.77	4.6	0.6	<0.05	0.4	1.72	8.4	<0.02	<1	<0.1	3.1	<10	<2
552153	Soil	1.76	4.3	0.5	<0.05	0.7	2.20	6.5	0.02	<1	0.1	6.2	<10	2
552154	Soil	0.03	86.3	0.8	<0.05	0.6	2.21	3.5	0.03	<1	0.1	14.9	<10	6
540414	Soil	0.05	40.9	0.7	<0.05	1.7	4.45	7.3	0.02	6	0.2	13.6	<10	4
552155	Soil	0.07	37.8	0.7	<0.05	0.9	2.94	4.0	0.04	3	0.2	19.5	<10	7
540415	Soil	0.15	12.5	0.7	<0.05	0.9	7.38	8.6	<0.02	15	0.3	10.2	<10	6
540416	Soil	0.45	8.3	0.2	<0.05	1.1	4.83	24.1	0.02	<1	0.5	11.1	<10	3
552156	Soil	0.26	15.0	0.4	<0.05	1.8	6.54	33.4	0.03	3	0.5	14.9	<10	5



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QUALITY CONTROL REPORT

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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
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	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
541698	Soil	3.35	130.4	8.12	51.9	199	61.8	26.2	764	3.98	1.4	0.6	56.8	0.4	39.2	0.20	0.09	0.74	114	0.86	0.113
REP 541698	QC	3.22	125.5	7.91	50.8	196	59.4	24.1	734	3.91	1.4	0.6	57.2	0.4	39.1	0.19	0.09	0.71	110	0.82	0.110
541700	Soil	7.61	54.35	5.07	60.6	46	24.2	21.9	1478	3.83	1.1	1.0	6.3	0.4	28.4	0.23	0.10	0.57	105	0.67	0.065
REP 541700	QC	7.54	55.21	5.52	61.5	43	26.1	22.3	1499	3.92	1.0	1.0	7.4	0.4	30.0	0.20	0.10	0.49	112	0.70	0.067
552156	Soil	35.33	200.0	16.58	59.3	725	57.2	42.0	899	6.33	2.5	1.6	66.0	3.1	62.6	0.31	0.23	2.42	131	0.43	0.138
REP 552156	QC	34.72	200.5	16.35	58.8	722	56.4	41.9	915	6.21	2.7	1.6	55.3	3.1	61.7	0.30	0.24	2.45	133	0.42	0.134
Reference Materials																					
STD DS8	Standard	12.95	100.5	123.2	290.6	1773	37.1	7.2	607	2.34	24.3	2.5	109.0	6.1	64.4	2.26	5.02	6.11	39	0.70	0.080
STD DS8	Standard	12.46	104.2	126.8	311.0	1750	36.2	6.9	606	2.44	27.6	2.6	115.2	6.2	62.5	2.31	5.58	6.50	42	0.70	0.084
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
541698	Soil	2.6	155.4	1.78	111.4	0.087	<1	1.94	0.006	0.11	3.3	3.7	0.12	0.03	16	0.4	0.44	5.9	2.05	<0.1	<0.02
REP 541698	QC	2.5	150.8	1.76	106.1	0.084	<1	1.89	0.006	0.11	3.2	3.6	0.12	0.03	18	0.3	0.40	5.6	1.96	<0.1	<0.02
541700	Soil	2.8	97.7	1.20	118.1	0.074	<1	1.77	0.006	0.05	2.6	2.8	0.05	0.04	17	<0.1	0.17	5.2	1.48	<0.1	<0.02
REP 541700	QC	3.0	99.3	1.23	120.6	0.080	<1	1.86	0.006	0.06	2.7	3.1	0.05	0.05	23	0.2	0.17	5.3	1.54	<0.1	<0.02
552156	Soil	13.0	133.6	1.82	297.6	0.123	1	2.63	0.017	0.23	26.4	5.5	0.27	0.07	18	0.6	0.93	7.6	2.56	0.1	0.05
REP 552156	QC	12.9	132.9	1.86	290.2	0.123	<1	2.76	0.017	0.24	25.7	5.6	0.26	0.08	22	0.6	0.96	7.6	2.50	0.1	0.06
Reference Materials																					
STD DS8	Standard	14.7	117.7	0.59	281.7	0.111	2	0.88	0.089	0.40	2.8	1.9	5.49	0.15	208	4.9	4.66	4.2	2.31	0.1	0.08
STD DS8	Standard	14.8	119.1	0.60	266.0	0.107	3	0.91	0.085	0.41	2.8	1.9	5.41	0.16	200	5.1	4.97	4.8	2.42	0.1	0.09
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
541698	Soil	0.33	8.9	0.1	<0.05	0.3	3.63	5.7	<0.02	<1	0.2	10.9	<10	3
REP 541698	QC	0.28	8.8	0.1	<0.05	0.4	3.56	5.6	<0.02	<1	0.1	9.8	<10	3
541700	Soil	0.53	10.2	0.2	<0.05	0.4	2.93	6.9	<0.02	<1	0.2	12.5	<10	<2
REP 541700	QC	0.51	11.0	0.2	<0.05	0.3	3.11	7.0	<0.02	<1	0.2	12.6	<10	<2
552156	Soil	0.26	15.0	0.4	<0.05	1.8	6.54	33.4	0.03	3	0.5	14.9	<10	5
REP 552156	QC	0.25	15.3	0.4	<0.05	1.6	6.32	33.7	0.02	3	0.4	14.3	<10	5
Reference Materials														
STD DS8	Standard	1.33	35.2	6.2	<0.05	1.9	5.53	27.3	1.89	61	4.7	28.2	114	344
STD DS8	Standard	1.32	38.9	6.7	<0.05	1.6	5.83	26.7	2.13	67	5.0	30.2	115	354
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2