



Ministry of Energy and Mines  
BC Geological Survey

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] 2011 Rock Geochemical and Prospecting Report on the Dragon Property, Vancouver Island, BC TOTAL COST \$23,733.12

AUTHOR(S) Christopher Leslie SIGNATURE(S) *Chris Leslie*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) N/A YEAR OF WORK 2011

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 5393050, 2012/Jul/11

PROPERTY NAME Dragon

CLAIM NAME(S) (on which work was done) 514503, 565487, 565489, 565490, 565491, 565492, 565493, 565494  
565495, 565496, 565497, 565498, 565499, 565500, 565501, 837957, 837958

COMMODITIES SOUGHT Cu, Ag, Au, Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN \_\_\_\_\_

MINING DIVISION Alberni NTS 92E089

LATITUDE 49 ° 52 ' 22.3 " LONGITUDE 126 ° 19 ' 18.3 " (at centre of work)

OWNER(S)

1) Sidewinder Exploration Ltd 2) \_\_\_\_\_

MAILING ADDRESS

24510 106B Ave, Maple Ridge, BC, V2W 2G2

OPERATOR(S) [who paid for the work]

1) Tower Resources Ltd 2) \_\_\_\_\_

MAILING ADDRESS

530-510 Burrard St., Vancouver, BC, V6C 3A8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Basalt, rhyolite, felsic tuffs, granodiorite, Paleozoic, Jurassic, Triassic, Karmutsen Fm., Island Plutonic Suite,  
Sicker Gp., jasper-magnetite, exhalite, massive sulphide

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS 30319, 29189, 28693,  
23373, 23125, 24015, 24377, 24593.



TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL</b>			
(number of samples analysed for ...)			
Soil _____			
Silt _____			
Rock <u>13 samples, 35 elements, Fire Assay</u>		<u>ALL</u>	<u>462.41</u>
Other _____			
<b>DRILLING</b>			
(total metres; number of holes, size)			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) <u>1:10,000, All Dayon Property</u>		<u>ALL</u>	<u>23,270.71</u>
<b>PREPARATORY/PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
<b>TOTAL COST</b>			<u>23,733.12</u>

## Assessment Report

2011 Rock Geochemical and Prospecting Report on the Dragon Property,  
Vancouver Island, British Columbia

Alberni Mining Division

British Columbia

BC Geological Survey  
Assessment Report  
33308

NTS: 92E089

Latitude: 49° 52'22.3" N

Longitude: 126° 19'18.3" W

For work done on tenures:

514503	565492	565497
565487	565493	565498
565489	565494	565499
565490	565495	565500
565491	565496	565501
	837957	
	837958	

For Operators:

Tower Resources Ltd.  
530 - 510 Burrard St.  
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For Owners:

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By

Christopher Leslie, M.Sc.

Submitted: October 8th, 2012

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## Summary

This report summarizes the brief 2011 exploration program completed by operators Tower Resources Ltd., for owners Sidewinder Exploration Ltd., on the Dragon Property, Vancouver Island, British Columbia. The purpose of the 2011 program was to assess the economic potential of the property by locating and evaluating the main mineralized zones identified by previous operators and to conduct detailed prospecting in geologically important areas. A total of 13 grab samples were collected for geochemical and assay analysis.

The Dragon property is located approximately 80 km west of Campbell River, B.C. (Figure 1), 20 km northwest of Gold River, B.C., and 65 km northwest of Breakwater Resources Ltd.'s Myra Falls Mine. The discovery of massive sulphide float on the north side of Leighton Peak (Figure 2) by E. Specogna in 1985 resulted in the original staking of the property.

The Dragon property is in the Alberni mining division, in NTS map-area 92E089, with a geographic center of approximately 49°51'25.0"N, and 126°18'55.2"W. The property is accessed by gravel logging roads or by helicopter chartered from Gold River.

The property is a volcanogenic massive sulphide (VMS) exploration project. It is underlain by rocks of the mid-Paleozoic Sicker Group, the same rocks that host the largest producing VMS deposit in western Canada, the Myra Falls mine (Breakwater Resources). The Dragon property contains several polymetallic massive sulphide lenses and abundant sulphide occurrences, most of which are untested by diamond drilling. The presence of widespread VMS style mineralization hosted in favourable geology, makes the Dragon property a favourable exploration target.

Tower identified an exciting new zone of widespread and thick jasper-magnetite exhalite mineralization hosted in horizons/lenses located 4 kilometres east of the Falls/North zone. The size of this zone is approximately 650 by 200 meters and might represent mineralization related to the last stages of hydrothermal activity associated with volcanism in a rift setting. This tectonic setting is crucial for developing VMS mineralization.

Further advanced exploration in the form of diamond drilling is recommended.

## **Introduction**

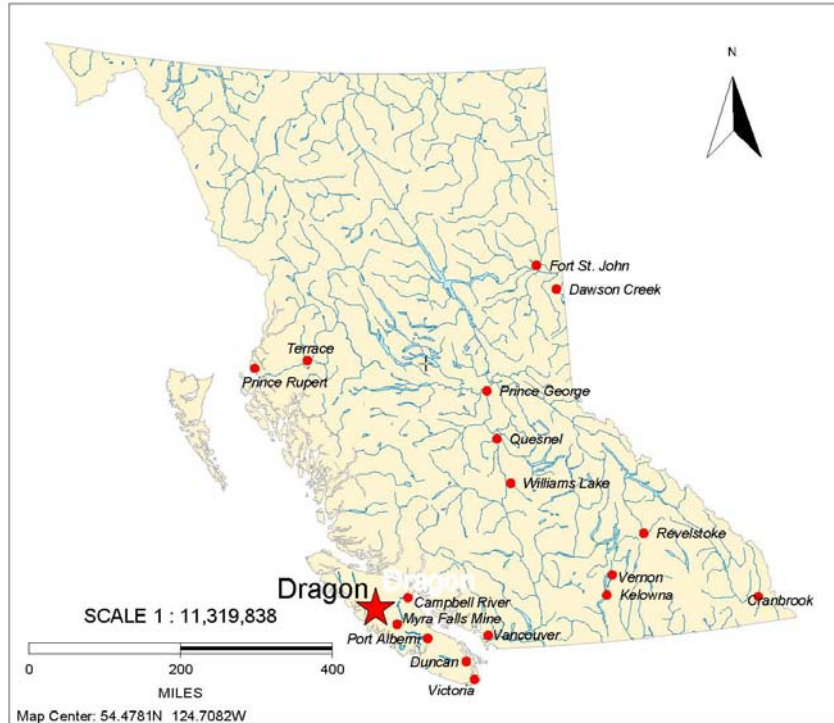
Field work for this project was conducted between August 3rd and August 11th, 2011 and included prospecting, reconnaissance geology, and rock geochemical sampling. Tower Resources acquired the property through an option deal with Sidewinder Exploration Ltd dated June 29th, 2011. This report summarizes the first exploration on the project by Tower Resources following project acquisition.

The 7227 hectare Property is located 25 km northwest of Gold River, Vancouver Island. Recent geological mapping and prospecting of the Dragon property indicates that a strongly silica altered and sulphide mineralized rhyolite flow-dome complex comprises the footwall of a prospective volcanogenic massive sulphide (VMS) horizon which is conformably overlain by limestone. On the Dragon property, the conformable transition from footwall altered felsic volcanic rocks to overlying limestones indicates a shallow marine environment for the hydrothermal system. This geological setting may be prospective for precious metal enriched VMS mineralization. A recent geophysical survey of the Dragon property (e.g., Luckman, 2008) outlined several conductors that are coincident with this prospective horizon. Several VMS occurrences exist on the Dragon property, most notably the Falls-North showing. The prospective horizon that hosts polymetallic VMS mineralization of the Falls-North occurrence has been reportedly traced along strike for over 4 kilometres. Historic exploration of the Dragon property by Noranda Inc., and Westmin Resources Ltd. outlined multiple, untested targets.

Project expenditures for this report total \$23,733.12

## **Location and Access**

The northern and southern portions of the property are accessible by two logging road networks beginning in Gold River. The northern part of the property (Muchalat Lake area), is accessed by a logging road leading north from Gold River, en route to Muchalat Lake. The southern part of the property is accessed via Gold River along the Tahsis Road. Local infrastructure including roads, transmission lines and communication services are well developed and accommodation, supplies and equipment are readily available in Gold River, Campbell River and other nearby communities. 130 kV powerlines are in the immediate vicinity of the property, with separate lines routed along the Muchalat Lake and Tahsis roads. The Mears Creek hydroelectric project (Synex Energy Resources Ltd.) is a 4 megawatt hydroelectric power generating facility located at the southern end of Muchalat Lake, approximately 3 km from the eastern margin of the Dragon property.



**Figure 1. Dragon property location**

## **Physiography, Vegetation and Climate**

The property is between approximately 120m and 1200m above sea level, and is comprised largely of steep slopes with abundant cliffs. It is covered by mature cedar, hemlock, fir and spruce forest below a treeline at approximately 1100m above sea level. Logging has been abundant on the property, and as a result, a significant proportion of the property is either clear-cut, or second growth forest. Streams are abundant throughout the property and a few small lakes are also present.

Climate in the area is dominantly wet, with areas at elevation remaining snow covered from November until June. As such, field work can be performed at lower elevations during the summer and early fall.

## **Claims and Ownership**

The Dragon property consists of 15 staked mineral claims totalling 7227.7 hectares (fig. 2) and are tabulated below (Table 1). This assessment report is for work filed on all mineral tenures. All tenures are in good standing.



**Table 1. Table of Dragon Property Mineral Tenures**

<b>Tenure Number</b>	<b>Claim Name</b>	<b>Tenure Type</b>	<b>Issue Date</b>	<b>Good To Date</b>	<b>Status</b>	<b>Area (ha)</b>
514503		Mineral	2005/jun/14	2013/jun/20	GOOD	562.5
565487	DRAGON1	Mineral	2007/sep/02	2013/jun/20	GOOD	499.8
565489	DRAGON 2	Mineral	2007/sep/02	2013/jun/20	GOOD	499.8
565490		Mineral	2007/sep/02	2013/jun/20	GOOD	333.4
565491	DRAGON 4	Mineral	2007/sep/02	2013/jun/20	GOOD	499.7
565492	DRAGON 3	Mineral	2007/sep/02	2013/jun/20	GOOD	499.8
565493	DRAGON 5 A	Mineral	2007/sep/02	2013/jun/20	GOOD	250.0
565494	DRAGON 6 A	Mineral	2007/sep/02	2013/jun/20	GOOD	437.7
565495	DRAGON 4	Mineral	2007/sep/02	2013/jun/20	GOOD	499.7
565496	DRAGON 7 A	Mineral	2007/sep/02	2013/jun/20	GOOD	20.8
565497	RUKS 1	Mineral	2007/sep/02	2013/jun/20	GOOD	458.4
565498	RUKS 2	Mineral	2007/sep/02	2013/jun/20	GOOD	500.0
565499	RUKS 3	Mineral	2007/sep/02	2013/jun/20	GOOD	500.2
565500	RUKS 4	Mineral	2007/sep/02	2013/jun/20	GOOD	520.4
565501	DRAGON 5	Mineral	2007/sep/02	2013/jun/20	GOOD	500.1
837957	DRAGON2010A	Mineral	2010/nov/10	2013/jun/20	GOOD	499.5
837958	DRAGON2010B	Mineral	2010/nov/10	2013/jun/20	GOOD	145.7
<b>Total</b>						<b>7227.7</b>

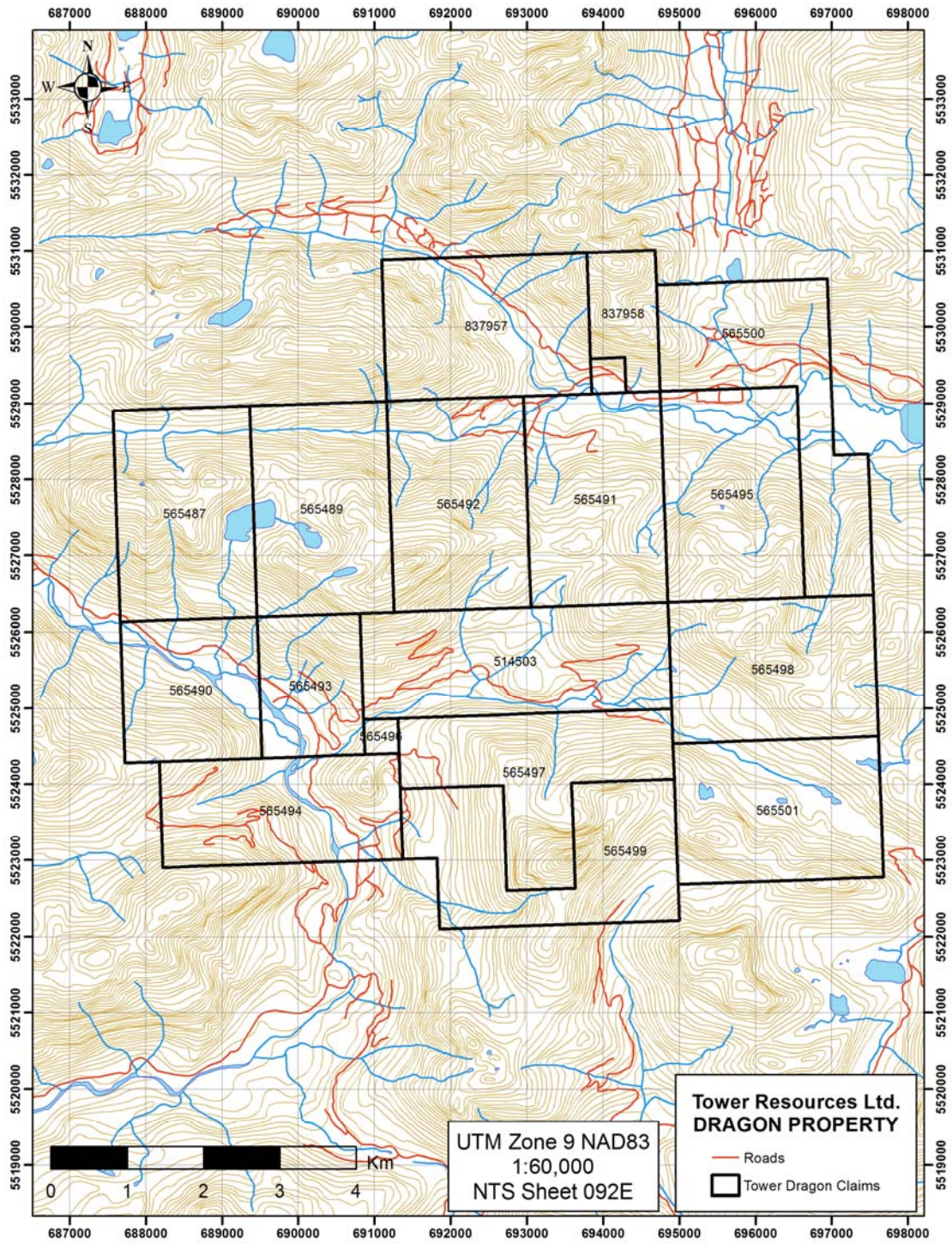


Figure 2. Map of Mineral Tenures

## Exploration History

Massive sulphide float was discovered on the north side of Leighton Peak (south of the Muchalat River) by E. Specogna in 1985, resulting in the original staking of the Dragon property (Figure 2). However, little work was performed on the property until 1992, when Noranda Exploration Company Ltd. optioned the claims from E. Specogna and conducted a multi-parameter airborne survey over the property area, in addition to staking additional mineral claims adjacent to the area of interest. In 1992 and 1993, Noranda also conducted detailed geological mapping, geochemical rock and soil sampling, prospecting, and diamond drilling (Kemp and Gill, 1993). This work resulted in the discovery of several areas of strong alteration and two semi-massive sulphide occurrences on the north side of Leighton Peak, namely the Falls and North showings (Gray, 1994). Grab samples from the two sulphide occurrences returned significant base and precious metals, including 3.9% Zn, 0.78% Pb, and 2.3g/t Au (Falls showing), and 11.2% Zn, 0.18% Pb, and 4.3g/t Au. However, two diamond drill holes tested the downdip extension of the Falls showing, and failed to intersect significant mineralization. No diamond drilling was conducted by Noranda to test the downdip extension of the North showing, which is located approximately 30m to the north of the Falls showing.

In 1995, Westmin Resources Ltd. completed geological mapping, linecutting, soil sampling, litho-geochemical sampling, and moss-mat sampling on the Dragon property (Jones and Pawliuk, 1995). 3 diamond drill holes tested the Norgate Creek area, but failed to intersect significant sulphide mineralization (Jones, 1996a). Additional mapping and rock-silt sampling in the Norgate Creek area located two new areas of mineralization (Jones, 1996b): 1) on the ridge between Norgate Creek and the Falls and North showings (values up to 1.92% Cu and 2.8g/t Au), and 2) south of Norgate Creek, 3 kilometres east of the Norgate Creek alteration zone (values of up to 1.25% Cu, 0.16% Zn, and 860 ppb Au). Downhole electro-magnetic surveying during this program detected a weak off-hole conductor north of drill hole DR95-01. 1996 sampling of the Falls and North showings yielded high grade polymetallic results, shown in Table 2 below (Jones, 1996a). Also in 1996, Westmin Resources Ltd. conducted a 4 hole (1303m) diamond drilling program in the Norgate Creek valley, with 2 of the holes designed to test the stratigraphy of the property at depth, and the remaining two to test geochemical and geophysical targets (Jones, 1996). Both stratigraphic holes intersected felsic volcanic rocks with little variability downhole, and failed to intersect the base of felsic stratigraphy in this part of the Sicker Group. The remaining holes intersected strongly altered felsic lapilli tuffs above a contact with intermediate to mafic flows and included the following assays: 1) 0.19% Zn, 370ppm Pb, and 120ppb Au over 1.25m (hole DRT96-05), and 2) 0.5% Zn, 120ppm Pb and 30ppb over 1.0m (hole DR96-06).

**Table 2. Base and precious metal grades from Falls and North showings**

Sample	Width m	Zn ppm	Pb ppm	Cu ppm	Au ppb	Ag g/t	Zone
118502	1	4.23%	8000	361	10	2.8	North Zone
118503	2	1085	340	499	320	2.6	Falls

118504	0.12	376	380	1225	135	4	Zone Falls Zone
118505	2	7.33%	1.34%	173	680	19.2	Falls Zone cont.
118506	2	1035	280	349	135	1.2	Falls 505
118701	2	4.82%	5700	673	35	11.6	Falls Zone

Prospecting, rock geochemical sampling, air-photo interpretation and geological compilation efforts on the Dragon property are documented in Ruks (2006) and Ruks (2007). Pembroke Mining Corporation flew a detailed airborne geophysical survey over the property totalling 578 line kilometers in 2008 (Luckman, 2008).

## Geology

### *Regional Geology*

The rocks underlying the Dragon property were originally assigned by Muller (1976) to the Westcoast Crystalline Complex, a package of lower amphibolite to kyanite facies metamorphic rocks of probable Paleozoic through Jurassic age (Map 1). However, more detailed mapping of the property by Noranda and Westmin geologists (e.g. Kemp and Gill, 1993; Jones and Pawliuk, 1995) indicates that the rocks underlying the Dragon Property are dominantly variably metamorphosed volcanic and sedimentary rocks belonging to the Paleozoic Sicker Group, Late Paleozoic limestones of the Buttle Lake Group, and Middle to Upper Triassic basalts of the Karmutsen Formation. These rocks have been intruded by Early to Middle Jurassic granites and granodiorites belonging to the Island Intrusive Suite.



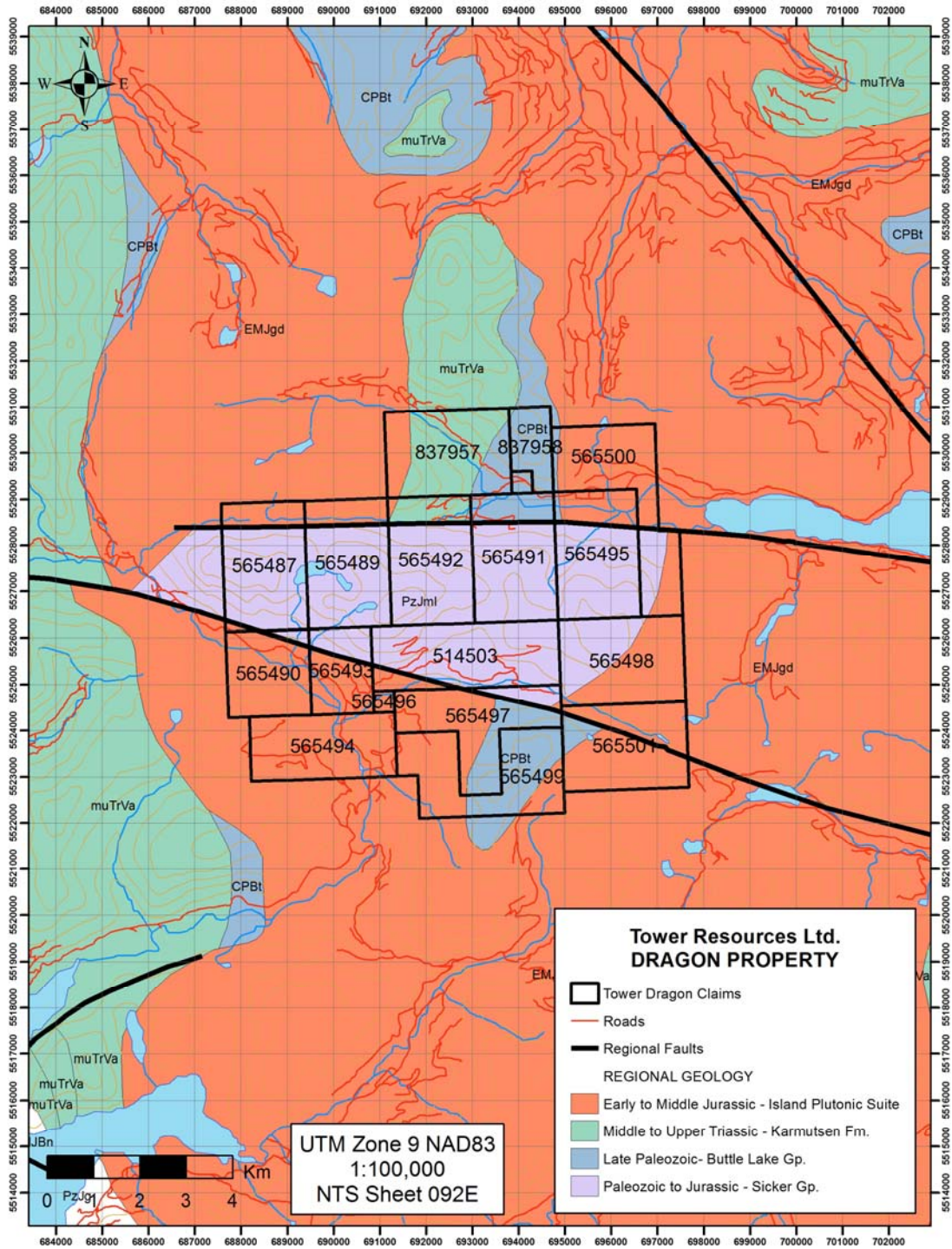


Figure 3. Map of Regional Geology



## ***Property Geology***

The geology of the Dragon property is outlined by Jones and Pawliuk (1995), and the following information is derived from this account.

The youngest rocks on the property are intrusive rocks probably related to the Jurassic Island Intrusive suite. These intrusions are found as dykes throughout the property, and as larger bodies that form the east and western borders of the property (fig. 3). These intrusions range in composition from gabbro through granite, and are medium to locally fine grained. Localized weak to moderate chlorite alteration and finely disseminated pyrite is present.

Massive basalt flows of the Middle to Upper Triassic Karmutsen Formation are most abundant to the north-west end of the property (fig. 3), and are rocks are usually magnetic. Thin mafic dykes can be found locally throughout the property, and are probably related to the Karmutsen basalts.

Late Paleozoic limestones of the Buttle Lake Group are present throughout the Dragon property and are typically pale grey to locally white or medium grey, recrystallized, and variably silicified. The stratigraphically lowest limestones on the property contain layers of felsic tuff. Argillite lenses and beds up to a few metres in thickness can also be found within limestone on the Dragon property.

Paleozoic rocks belonging to the Sicker Group are the most abundant rocks on the property, are exposed primarily between Muchalat River and Norgate Creek (fig. 3), and comprise a partially structurally delineated pendant bound by diorite to granitic intrusions belonging to the Island Intrusive suite. The Sicker Group in this pendant is comprised of dominantly felsic and mafic-intermediate volcanic rocks that are capped by a narrow, calcareous argillite-felsic tuff section that is host to numerous sulphide occurrences including the massive sulphide lenses at the Falls and North showings. A narrow limestone-argillite package similar to the Buttle Lake Formation overlies these units (Juras, 1994). Field identification of volcanic rocks of the Dragon property is commonly difficult owing to thermal metamorphism-related recrystallation. Biotite is a common groundmass mineral, and cordierite is common within intermediate to mafic rocks. Cordierite is also abundant in the Norgate Creek alteration zone. Felsic volcanic rocks belonging to the Sicker Group are common throughout the Dragon property. In the Norgate-Muchalat ridge area, felsic volcanic rocks including rhyolite flows and tuffs are the dominant lithology, largely due to the flat lying nature of the units. Mapping in the Norgate Creek valley has shown that felsic volcanic and volcano-sedimentary rocks are present along the eastern boundary of the property as well, where they are pinched between bodies of granitic intrusions. Flow banded and spherulitic rhyolite with local brecciation occurs as a band-like unit that crosses the ridge just east of Leighton Peak. East of this are wide-spread lapilli and agglomerate tuff units. In the felsic volcanic rocks of the Dragon property, quartz and feldspar phenocrysts are very common, comprising from less than 1% to greater than 20% of the rock. Andesite lapilli tuff in the Norgate creek area contains lapilli-sized intermediate and felsic clasts, 1 to 2% disseminated

pyrite, garnet porphyroblasts, up to 5% fine biotite, and is locally magnetic. Basalt and fine-grained gabbro/diabase are abundant in eastern portions of the Norgate Creek area. Basalts are massive, moderately magnetic, plagioclase porphyritic, and contain biotite porphyroblasts.

## **Structure**

Structural geology of the Dragon property is best described by Jones and Pawliuk (1995). The following information is derived from this account

Stratified rocks over most of the Dragon property strike north-northeasterly and dip at shallow to moderate angles to the west. Near Leighton Peak, they dip steeply to the west, probably a consequence of deformation related to the emplacement of a large body of granodiorite on the western side of the property. In several locations, Middle to Upper Triassic basaltic rocks of the Karmutsen Fm. are observed to stratigraphically overlie Paleozoic rocks of the Sicker Group, indicating that rocks on the property are sitting upright.

Northeast to east trending creeks and river valleys on the property often host steeply dipping faults which displace dykes of probable Jurassic age. A north trending fabric (S1 foliation?) is present in parts of the Norgate Creek area.

## **Mineralization**

The most significant mineralization on the property occurs at the Falls and North showings, where two lenses of semi-massive, fine grained sulphide minerals occur in outcrop. The lenses have significant base and precious metal grades (Table 2) with sulphide mineral assemblages including a mixture of pyrite, sphalerite, pyrrhotite, and bornite.

## **Work Completed in 2011**

Field work for this project was conducted between August 3rd and August 11th, 2011 and included prospecting, reconnaissance geology, and rock geochemical sampling. Tower Resources acquired the project through an option deal with Sidewinder Exploration Ltd dated June 29th, 2011.

Since this work was the first conducted on this property by Tower Resources Ltd., a considerable amount of time was spent assessing property access, locating and evaluating historic showings, and focusing on new discoveries which meant utilizing a helicopter for access in new areas.

The focus of the 2011 program was to delineate new drill targets.

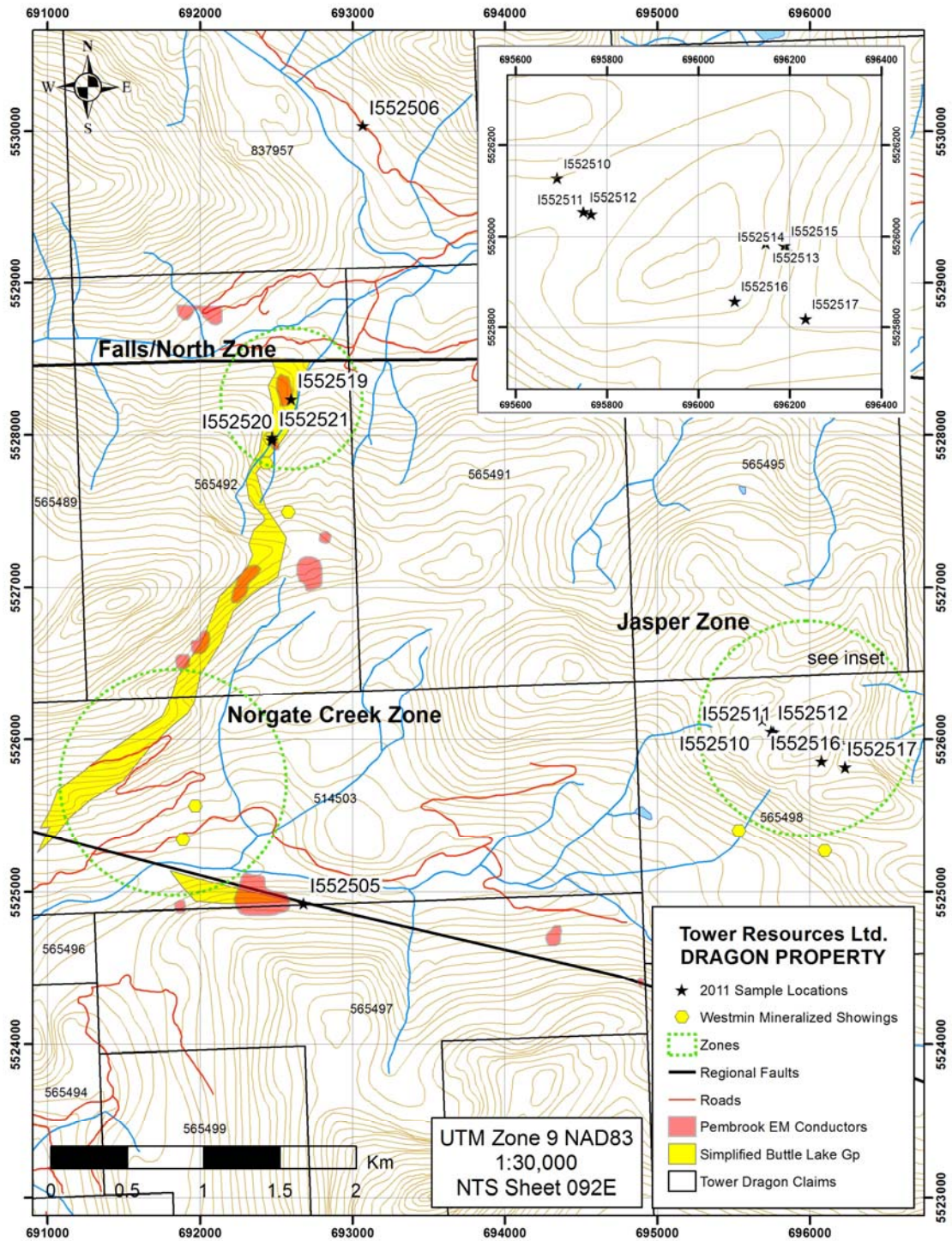


Figure 4. Map of 2011 sample locations and known mineralized zones



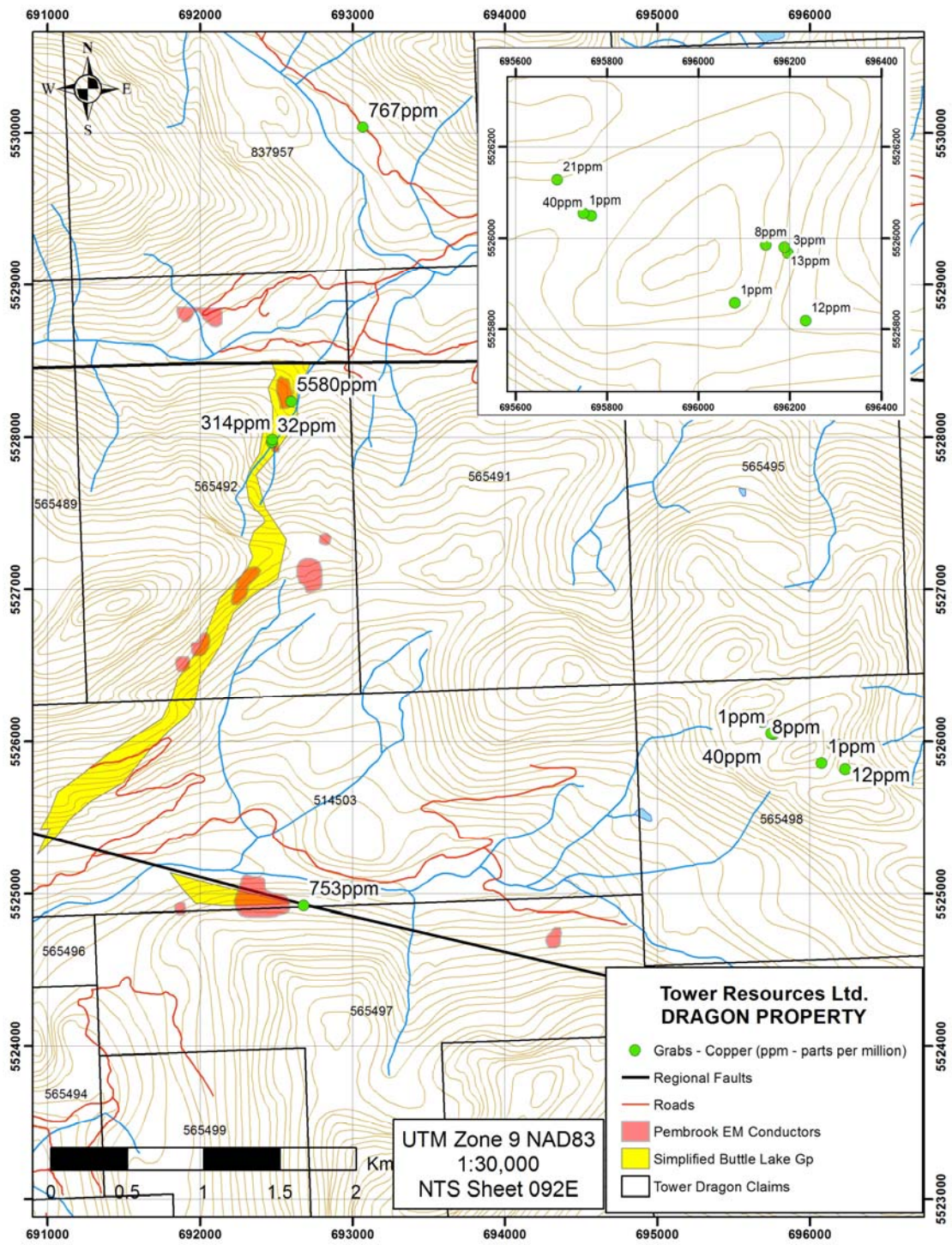


Figure 5. Copper in 2011 grab samples



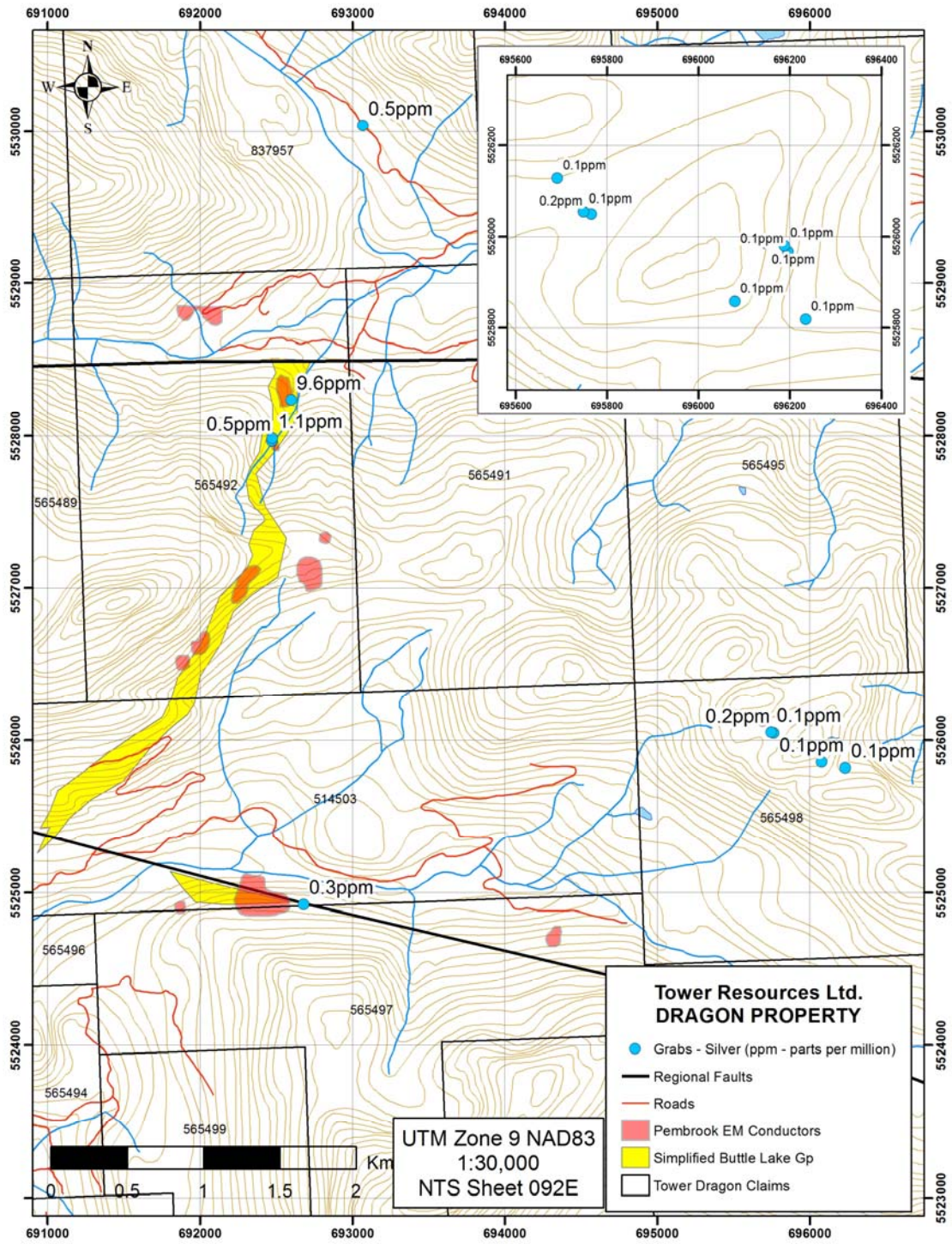


Figure 6. Silver in 2011 grab samples



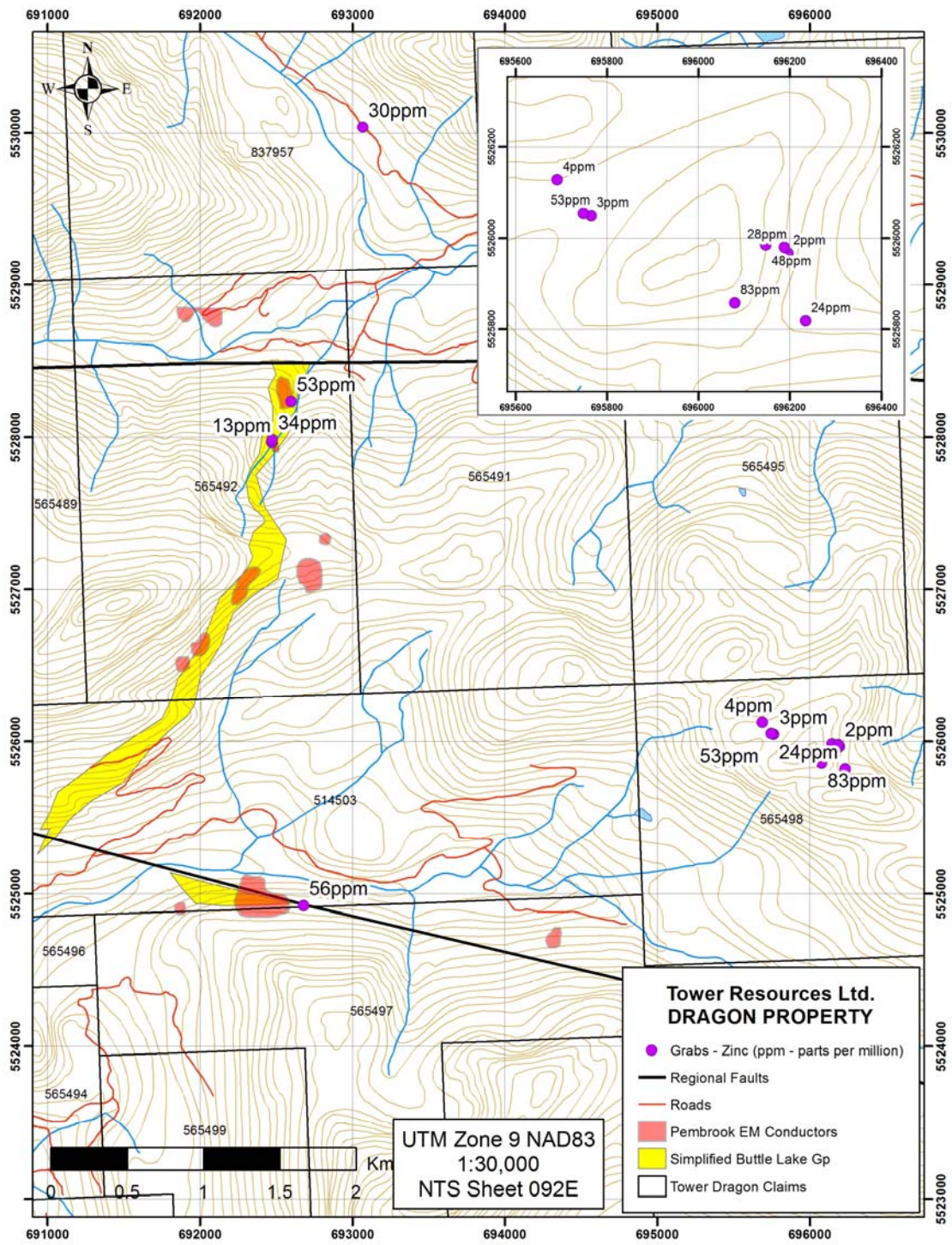


Figure 7. Zinc in 2011 grab samples

Highlights from this 2011 program:

1) Reconnaissance geology over the northern EM conductor (see fig. 4): The strongest conductor revealed by the 2008 airborne survey by Pembroke Mining (Luckman, 2008) on the property is located just 350 north of, and along strike from the Falls and North VMS occurrences. Tower conducted detailed reconnaissance over this conductor and identified felsic tuffs which are clearly not conductive rocks. This conductor is therefore likely the result of rocks underlying the felsic tuffs, perhaps a blind VMS lens similar to what is found at the Falls and North occurrences. A coincident EM conductor is observed from the 2008 survey associated with the Falls and North occurrences.

2) Oxide exhalites: The jasper-magnetite exhalites (fig. 8) that Tower discovered in the newly identified Jasper Zone (fig. 4) strengthen the case that Dragon represents a large VMS center. The exhalites on the property occur almost 4 km to the east of the Falls-North showings, which suggest another VMS centre underlies the eastern part of the property. These exhalites typically overlie VMS lenses/systems, and represent the last gasp of hydrothermal activity related to waning extension and volcanism in a rift setting. For example, banded magnetite-chert Fe-formation rocks conformably overlie the Austin Brook massive sulphide deposit (e.g., Galley et al., 2007). the famous Bathurst District in eastern Canada, where the iron formations conformably overlie VMS mineralization



**Figure 8. Jasper Zone: oxide exhalites. (A) magnetite-jasper healed breccia horizon in felsic tuffs, (B) jasper-chert lens**

3) New showing of vein hosted polymetallic mineralization: Tower discovered a new showing of copper mineralization located in the canyon below the Falls occurrence (e.g., sample 1552519, fig. 4). This chalcopyrite + pyrite + quartz vein is approximately 10 centimetres wide and is hosted along a fault plane cutting biotite bearing diorite (fig. 9). The sense of displacement along this fault is not presently known.



**Table 3. Table of assays for sample I552519**

Sample	Type	Description	struct strike	struct dip	struct type	ppm (parts per million)			
						Ag	Cu	Zn	Au
I552519	grab	grab of ~10cm wide cpy+py+qtz vein cutting biotite diorite, hosted in fault zone, canyon bellow Falls showing	58	50	vein	9.6	5580.0	53.0	0.012

This vein assayed 0.56% Cu with 9.6 ppm silver.



**Figure 9. Sample I552519 (note pencil for scale)**

## Conclusions and Recommendations

Field work on the Dragon property was conducted between August 3rd and August 11th, 2011 and included prospecting, reconnaissance geology, and rock geochemical sampling. Tower Resources acquired the property through an option deal with Sidewinder Exploration Ltd dated June 29th, 2011. This report documents the first exploration activities by Tower Resources following project acquisition.

Tower identified an exciting new zone (Jasper zone) of widespread and thick jasper-magnetite exhalite mineralization hosted in horizons/lenses located 4 kilometres east of the Falls/North zone. The size of this zone is approximately 650 by 200 meters and might represent mineralization related to the last stages of hydrothermal activity associated with volcanism in a rift setting. This tectonic setting is crucial for developing VMS mineralization.

The Dragon property is a volcanogenic massive sulphide (VMS) exploration project. It is underlain by rocks of the mid-Paleozoic Sicker Group, the same rocks that host the largest producing VMS deposit in western Canada, the Myra Falls mine (Breakwater Resources). The Dragon property contains several polymetallic massive sulphide lenses and abundant sulphide occurrences, most of which are untested by diamond drilling. The combination of widespread VMS style mineralization hosted in favourable geology, makes the Dragon property a favourable exploration target.

The author recommends first a compilation of all historic data (e.g., soil geochemistry, rock geochemistry, geology, and geophysics) in one digital GIS database with unique UTM coordinates for all point data (e.g., soil geochemistry). This compilation will aid in further exploration targeting and infill soil geochemical sampling if warranted. There is a clear association of EM conductors and massive sulphide occurrences (e.g., Fall and North showings) therefore all EM anomalies (e.g., the three prominent anomalies south of the Falls and North occurrences, fig. 4) identified by Luckman, 2008 warrant detailed follow-up similar to what was accomplished by Tower in this current work.

Secondly, contingent on phase one results, the author recommends a systematic diamond drill program targeting the prospective Buttle Lake Gp where coincident EM anomalies occur (fig. 4). For example, the buried 200 x 100 meter EM conductor north of the Falls and North occurrences is a drill target that warrants drill testing. Furthermore, drilling below the newly identified jasper-magnetite exhalites should be a priority as genetic relationships between exhalites and underlying massive sulphides are documented elsewhere (e.g., Bathurst camp). A diamond drill program consisting of 6 to 8 angled drill holes of 250 to 300 meters depth would be suffice to test defined drill targets. A program of this size would cost approximately \$600,000.

## Statement of Costs



Exploration Work type	Comment	Days			Totals
<b>Personnel (Name)* / Position</b>					
	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>	
Christopher Leslie/Project Manager	August 3 to August 11, 2011	9	\$600.00	\$5,400.00	
Tyler Ruks/Geologist	August 3 to August 11, 2011	9	\$500.00	\$4,500.00	
Mark Vanry/Prospector	August 6 to August 8, 2011	3	\$500.00	\$1,500.00	
				\$11,400.00	<b>\$11,400.00</b>
<b>Office Studies</b>					
<b>List Personnel (note - Office only, do not include field days)</b>					
Literature search and field prep	Christopher leslie	3.0	\$600.00	\$1,800.00	
Report preparation	Christopher leslie	5.0	\$600.00	\$3,000.00	
				\$4,800.00	<b>\$4,800.00</b>
<b>Geochemical Surveying</b>					
	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Rock	13 samples - ALS Minerals Lab	13.0	\$35.57	\$462.41	
				\$462.41	<b>\$462.41</b>
<b>Transportation</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Ferry	Vancouver to Van Island - RT rented from West Cirque	4.00	\$77.90	\$311.60	
truck rental	Resources	12.00	\$100.00	\$1,200.00	
fuel	diesel for truck		\$0.00	\$257.76	
fuel	fuel for M.Vanry's vehicle			\$208.45	
Helicopter	hourly rate plus fuel - E&B Helicopters		\$0.00	\$2,677.50	
				\$4,655.31	<b>\$4,655.31</b>
<b>Accommodation &amp; Food</b>					
	<b>Rates per day</b>				
Hotel	actual costs		\$0.00	\$1,364.16	
Meals	actual costs		\$0.00	\$686.71	
				\$2,050.87	<b>\$2,050.87</b>
<b>Miscellaneous</b>					
Field Gear	field and safety gear			\$139.53	
				\$139.53	<b>\$139.53</b>
<b>Equipment Rental</b>					
Satelite Phone		9.00	\$25.00	\$225.00	
				\$225.00	<b>\$225.00</b>
<b>Freight, rock samples</b>					
	personally brought samples to lab		\$0.00	\$0.00	
				\$0.00	<b>\$0.00</b>
<b>TOTAL Expenditures</b>					<b>\$23,733.12</b>

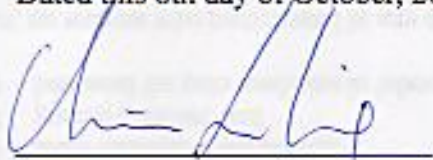
## **Statement of Qualifications**

Statement of Qualifications

I, Christopher Leslie, M.Sc., certify that:

1. I am a consultant for Tower Resources Ltd., with a business address located at:  
CDL Geological Consulting  
1559 E 20th Ave  
Vancouver, BC  
V5N 2K7  
Canada
2. I have a B.Sc. degree in geology from the University of Alberta obtained in 2006 and a M.Sc. degree in geology from the University of British Columbia obtained in 2009.
3. From May 1<sup>st</sup> 2005 to May 1<sup>st</sup> 2009, I have been employed as a geologist in Canada primarily during summer field seasons. Since May 1<sup>st</sup> 2009, I have worked full time in mineral exploration as a geologist.
4. I supervised the 2011 exploration program on the Dragon Property from August 3<sup>rd</sup> to August 11<sup>th</sup> 2011 and am therefore personally familiar with the geology of the property and the work conducted in 2011.

Dated this 8th day of October, 2012



Signature

Christopher Leslie, M.Sc.

## References

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## **Appendix A - Table of Grab Samples and Assays**

Sample	Project	Area	Geologist	Date DD-MM-YY	Unique ID (waypoint or station)	UTM Zone	UTM E	UTM N	Elevation (m)
I552505	Dragon		CL	05/08/2011 13:40	CL-11-DR-784	9	692680	5524923	455
I552506	Dragon		CL	06/08/2011 13:02	CL-11-DR-786	9	693068	5530040	369
I552510	Dragon		CL	07/08/2011 9:12	CL-11-DR-791	9	695692	5526128	1120
I552511	Dragon		CL	07/08/2011 10:14	CL-11-DR-794	9	695766	5526050	1126
I552512	Dragon		CL	07/08/2011 10:32	CL-11-DR-796	9	695749	5526055	1126
I552513	Dragon		CL	08/08/2011 10:17	CL-11-DR-806	9	696148	5525986	1155
I552514	Dragon		CL	08/08/2011 12:32	CL-11-DR-809	9	696196	5525968	1123
I552515	Dragon		CL	08/08/2011 12:58	CL-11-DR-810	9	696189	5525981	1129
I552516	Dragon		CL	08/08/2011 13:16	CL-11-DR-812	9	696080	5525858	1149
I552517	Dragon		CL	08/08/2011 14:16	CL-11-DR-813	9	696235	5525819	1073
I552519	Dragon		CL	09/08/2011 10:27	CL-11-DR-815	9	692598	5528239	432
I552520	Dragon		CL	09/08/2011 11:43	CL-11-DR-816	9	692472	5527968	512
I552521	Dragon		CL	09/08/2011 11:52	CL-11-DR-817	9	692475	5527984	515

Sample	Sample	Type	Description	struct strike	struct dip	struct type
I552505	I552505	grab	sample from road bed of rusty sulphide (py+po) mafic dyke (?) diabase? With local disseminated cpy, fine grained gabbro (PGE?). pic 2147-49, pano looking NW to NC alteration core of footwall with overlying carbonates			
I552506	I552506	grab	grab from large road boulder (5 x 5m), gossanous and silicified hbl + plag volc flow or diabase (?) with up to 10-20% disseminated po + py +/- cpy, lim on fract with hematite			
I552510	I552510	grab	jasper + magnetite lense (clast?) in sandy tuff	200	23	lense
I552511	I552511	grab	large 50cm 045/90 qtz vein (pic 2185) cutting pillowed basalts			
I552512	I552512	grab	assay and whole rock sample (11TRDR006A+B) of jasper + magnetite pod, pic 2182 to 2185	17	84	bedding
I552513	I552513	grab	gossanous 318 trending zone of silica + sericite + pyrite altered felsic tuff cut by rare qtz stringers, up to 1% dissem pyrite			
I552514	I552514	grab	strongly silicified rhyolite with up to 4% dissem and clotty pyrite, rusty, clay + sericite(?)			
I552515	I552515	grab	rhyolite flow with dissem py+pc			
I552516	I552516	grab	silica and magnetite healed autobreccia with felsic + magnetite clasts, dacitic monomictic clasts			
I552517	I552517	grab	gossanous corridor (10m) width through silicified rhyolite with clots of py + po with dissem py, lim on fract			
I552519	I552519	grab	high grade grab of cpy+py+qtz vein cutting bio diorite	58	50	vein
I552520	I552520	grab	carb vein parallel to metamorphic foliation with trace dissem py + country rock frags in the vein	20	90	vein
I552521	I552521	grab	grab of clay + sulphide shear zone host to qtz vein with dissem and stringer pyrite cutting meta-seds (pic 2282)			

All reported

Sample	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
I552505	0.300	1.270	2.000	150.000	0.250	1.000	0.790	0.250	38.000	27.000	753.000
I552506	0.500	2.420	12.000	80.000	0.250	1.000	1.630	0.250	43.000	38.000	767.000
I552510	0.100	0.100	1.000	10.000	0.250	1.000	0.020	0.250	3.000	12.000	21.000
I552511	0.200	0.130	1.000	10.000	0.250	1.000	0.050	0.250	1.000	12.000	40.000
I552512	0.100	0.890	1.000	40.000	0.250	1.000	0.060	0.250	3.000	8.000	1.000
I552513	0.100	0.940	33.000	20.000	0.250	1.000	0.120	0.250	3.000	4.000	8.000
I552514	0.100	0.240	34.000	40.000	0.250	1.000	0.010	0.250	1.000	2.000	3.000
I552515	0.100	1.260	785.000	50.000	0.500	15.000	0.550	0.250	3.000	2.000	13.000
I552516	0.100	2.120	9.000	60.000	0.250	1.000	0.320	0.250	7.000	2.000	1.000
I552517	0.100	0.620	9.000	60.000	0.250	1.000	0.190	0.250	4.000	2.000	12.000
I552519	9.600	0.780	46.000	70.000	0.250	32.000	0.080	0.500	7.000	10.000	5580.000
I552520	0.500	0.050	208.000	30.000	0.250	1.000	25.000	0.250	0.500	1.000	32.000
I552521	1.100	0.940	114.000	30.000	0.900	2.000	0.200	0.250	53.000	13.000	314.000

∫ in ppm (parts per million)

Sample	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P
I552505	4.680	10.000	0.000	0.150	0.000	0.950	183.000	2.000	0.090	47.000	1460.000
I552506	9.150	10.000	0.000	0.090	0.000	0.560	276.000	0.500	0.230	64.000	1180.000
I552510	2.640	5.000	0.000	0.010	0.000	0.030	52.000	0.500	0.020	0.500	70.000
I552511	0.430	5.000	0.000	0.020	0.000	0.030	55.000	0.500	0.020	0.500	30.000
I552512	5.660	5.000	0.000	0.050	0.000	0.580	495.000	0.500	0.020	0.500	300.000
I552513	2.000	5.000	0.000	0.090	0.000	0.380	262.000	2.000	0.050	0.500	320.000
I552514	0.970	5.000	0.000	0.160	0.000	0.010	10.000	0.500	0.020	0.500	240.000
I552515	2.120	5.000	0.000	0.150	0.000	0.590	554.000	2.000	0.030	0.500	510.000
I552516	5.710	10.000	0.000	0.130	0.000	1.040	439.000	0.500	0.040	0.500	1170.000
I552517	1.190	5.000	0.000	0.210	0.000	0.180	210.000	1.000	0.020	0.500	460.000
I552519	2.450	5.000	0.000	0.060	0.000	0.230	402.000	17.000	0.005	1.000	20.000
I552520	1.310	5.000	0.000	0.020	0.000	0.250	6000.000	0.500	0.010	0.500	10.000
I552521	6.930	5.000	0.000	0.140	0.000	0.320	280.000	46.000	0.005	22.000	800.000

Sample	Pb	S	Sb	Sc	Se	Sr	Th	Ti	Tl	U	V
I552505	1.000	2.120	0.000	4.000	0.000	11.000	0.000	0.410	0.000	0.000	145.000
I552506	5.000	6.800	0.000	7.000	0.000	55.000	0.000	0.320	0.000	0.000	142.000
I552510	1.000	0.170	0.000	0.500	0.000	3.000	0.000	0.005	0.000	0.000	42.000
I552511	1.000	0.050	0.000	0.500	0.000	5.000	0.000	0.010	0.000	0.000	6.000
I552512	2.000	0.040	0.000	1.000	0.000	11.000	0.000	0.040	0.000	0.000	59.000
I552513	5.000	0.340	0.000	1.000	0.000	23.000	0.000	0.020	0.000	0.000	7.000
I552514	8.000	0.820	0.000	0.500	0.000	4.000	0.000	0.005	0.000	0.000	1.000
I552515	5.000	0.870	0.000	1.000	0.000	11.000	0.000	0.050	0.000	0.000	11.000
I552516	3.000	0.030	0.000	3.000	0.000	15.000	0.000	0.120	0.000	0.000	117.000
I552517	2.000	0.530	0.000	0.500	0.000	6.000	0.000	0.050	0.000	0.000	4.000
I552519	4.000	0.640	0.000	1.000	0.000	2.000	0.000	0.005	0.000	0.000	11.000
I552520	11.000	0.070	0.000	3.000	0.000	772.000	0.000	0.005	0.000	0.000	2.000
I552521	11.000	5.050	0.000	2.000	0.000	4.000	0.000	0.010	0.000	0.000	34.000



Sample	W	Zn	Cu	Pt	Pd	Au
I552505	0.000	56.000	0.000	0.000	0.000	0.007
I552506	0.000	30.000	0.000	0.000	0.000	0.002
I552510	0.000	4.000	0.000	0.000	0.000	0.001
I552511	0.000	3.000	0.000	0.000	0.000	0.006
I552512	0.000	53.000	0.000	0.000	0.000	0.001
I552513	0.000	48.000	0.000	0.000	0.000	0.001
I552514	0.000	2.000	0.000	0.000	0.000	0.003
I552515	0.000	28.000	0.000	0.000	0.000	0.004
I552516	0.000	83.000	0.000	0.000	0.000	0.001
I552517	0.000	24.000	0.000	0.000	0.000	0.016
I552519	0.000	53.000	0.000	0.000	0.000	0.012
I552520	0.000	13.000	0.000	0.000	0.000	0.002
I552521	0.000	34.000	0.000	0.000	0.000	0.022

## **Appendix B - ALS Assay Certificates**



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

To: TOWER ENERGY INC.  
530 - 510 BURRARD STREET  
VANCOUVER BC V6C 3A8

Page: 1  
Finalized Date: 11-SEP-2011  
Account: TOWENE

**CERTIFICATE VA11162673**

Project: Dragon and Dorado

P.O. No.:

This report is for 42 Rock samples submitted to our lab in Vancouver, BC, Canada on 15-AUG-2011.

The following have access to data associated with this certificate:

CHRISTOPHER LESLIE

MARK VANRY

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

To: TOWER ENERGY INC.  
ATTN: CHRISTOPHER LESLIE  
530 - 510 BURRARD STREET  
VANCOUVER BC V6C 3A8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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

To: TOWER ENERGY INC.  
 530 - 510 BURRARD STREET  
 VANCOUVER BC V6C 3A8

Page: 2 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 11-SEP-2011  
 Account: TOWENE

Project: Dragon and Dorado

**CERTIFICATE OF ANALYSIS VA11162673**

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
Sample Description	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
I552501	1.08	0.3	0.87	23	<10	20	<0.5	2	1.00	<0.5	9	9	76	1.27	<10
I552502	1.42	12.2	2.19	16	<10	20	<0.5	2	1.61	2.7	68	10	>10000	6.42	10
I552503	1.74	1.0	1.37	143	<10	<10	<0.5	9	0.70	<0.5	51	1	263	14.9	10
I552504	1.40	<0.2	2.06	16	<10	20	<0.5	<2	0.94	<0.5	13	14	40	3.33	10
I552505	1.66	0.3	1.27	2	<10	150	<0.5	<2	0.79	<0.5	38	27	753	4.68	10
I552506	2.30	0.5	2.42	12	<10	80	<0.5	<2	1.63	<0.5	43	38	767	9.15	10
I552507	1.86	0.2	2.25	<2	<10	<10	<0.5	2	0.14	<0.5	281	26	1885	20.5	10
I552508	1.74	2.6	3.07	<2	<10	10	<0.5	5	0.58	0.5	26	4	2940	11.75	20
I552509	1.46	<0.2	1.69	7	<10	40	<0.5	<2	0.96	<0.5	7	12	31	2.73	<10
I552510	0.36	<0.2	0.10	<2	<10	10	<0.5	<2	0.02	<0.5	3	12	21	2.64	<10
I552511	1.08	0.2	0.13	<2	<10	10	<0.5	<2	0.05	<0.5	1	12	40	0.43	<10
I552512	1.24	<0.2	0.89	<2	<10	40	<0.5	<2	0.06	<0.5	3	8	1	6.66	<10
I552513	1.12	<0.2	0.94	33	<10	20	<0.5	<2	0.12	<0.5	3	4	8	2.00	<10
I552514	1.68	<0.2	0.24	34	<10	40	<0.5	<2	0.01	<0.5	1	2	3	0.97	<10
I552515	2.56	<0.2	1.26	785	<10	50	0.5	15	0.55	<0.5	3	2	13	2.12	<10
I552516	1.08	<0.2	2.12	9	<10	60	<0.5	<2	0.32	<0.5	7	2	1	5.71	10
I552517	1.32	<0.2	0.62	9	<10	60	<0.5	<2	0.19	<0.5	4	2	12	1.19	<10
I552518	0.70	0.5	0.18	316	<10	50	<0.5	<2	0.01	<0.5	4	4	7	3.09	<10
I552519	1.40	9.6	0.78	46	<10	70	<0.5	32	0.08	0.5	7	10	5580	2.45	<10
I552520	1.56	0.5	0.05	208	<10	30	<0.5	<2	>25.0	<0.5	<1	1	32	1.31	<10
I552521	2.04	1.1	0.94	114	<10	30	0.9	2	0.20	<0.5	53	13	314	6.93	<10
I552522	2.24	<0.2	5.36	8	<10	90	0.9	3	3.28	<0.5	5	11	29	2.28	10
I552523	1.04	0.2	1.31	7	<10	20	<0.5	<2	1.34	<0.5	4	10	12	1.46	<10
I552524	1.50	<0.2	2.56	5	<10	40	<0.5	<2	1.58	<0.5	7	15	17	2.44	10
C479614	1.42	2.7	0.84	3	<10	20	0.9	<2	0.85	2.1	4	6	3390	3.65	10
C479615	0.74	0.4	0.35	374	<10	50	<0.5	<2	0.06	<0.5	3	3	37	1.82	<10
C479616	0.34	23.1	4.45	99	<10	10	1.4	15	3.61	2.8	86	9	>10000	9.08	30
C479617	3.98	2.8	1.73	9	<10	10	<0.5	104	1.30	<0.5	69	19	3160	9.65	10
C479618	0.24	44.5	3.07	13	<10	10	<0.5	20	1.55	8.8	100	5	>10000	13.55	10
C479619	1.10	2.4	1.65	24	<10	40	<0.5	2	0.58	<0.5	54	2	1980	5.00	10
C479620	0.88	1.3	1.84	8	<10	40	<0.5	5	1.43	<0.5	116	5	2090	6.99	10
C479621	1.90	0.6	0.96	4	<10	20	<0.5	<2	0.09	<0.5	10	13	500	3.55	<10
C479622	2.46	<0.2	1.67	4	<10	210	0.6	<2	0.22	<0.5	8	34	46	2.23	10
C479623	1.52	0.2	0.66	10	<10	10	<0.5	<2	0.42	<0.5	24	11	162	2.95	<10
C479624	0.84	<0.2	4.04	14	<10	<10	<0.5	3	1.02	<0.5	36	38	101	9.14	10
C479625	1.20	0.3	3.10	10	<10	30	<0.5	<2	3.21	<0.5	14	10	52	7.50	10
C479626	0.98	0.2	3.96	<2	<10	30	<0.5	2	2.33	<0.5	34	9	169	7.53	10
C479627	0.56	0.4	2.57	4	<10	40	<0.5	2	2.24	0.6	22	5	216	7.41	<10
C479628	0.94	<0.2	1.11	6	<10	50	<0.5	3	0.38	<0.5	19	9	17	3.51	10
C479629	1.44	<0.2	1.07	22	<10	30	<0.5	3	0.36	<0.5	13	15	78	4.29	<10



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm
I552501		<1	0.05	<10	0.09	82	1	0.10	1	740	2	0.50	2	1	34	<20
I552502		<1	0.12	<10	0.60	213	3	0.19	22	820	4	3.46	2	3	87	<20
I552503		<1	<0.01	<10	0.76	250	3	0.02	31	660	9	>10.0	5	1	48	<20
I552504		<1	0.04	<10	1.16	287	<1	0.17	6	770	<2	1.19	<2	1	47	<20
I552505		<1	0.15	10	0.95	183	2	0.09	47	1460	<2	2.12	2	4	11	<20
I552506		<1	0.09	<10	0.56	276	<1	0.23	64	1180	5	6.80	3	7	55	<20
I552507		<1	0.03	<10	0.56	302	2	0.03	105	130	8	>10.0	<2	5	6	<20
I552508		<1	0.02	<10	1.23	899	<1	0.04	10	1030	17	5.32	3	18	8	<20
I552509		<1	0.18	<10	0.62	697	3	0.11	3	360	3	1.86	<2	6	27	<20
I552510		<1	0.01	<10	0.03	52	<1	0.02	<1	70	<2	0.17	<2	<1	3	<20
I552511		<1	0.02	<10	0.03	55	<1	0.02	<1	30	<2	0.05	<2	<1	5	<20
I552512		<1	0.05	<10	0.58	495	<1	0.02	<1	300	2	0.04	<2	1	11	<20
I552513		<1	0.09	<10	0.38	262	2	0.05	<1	320	5	0.34	<2	1	23	<20
I552514		<1	0.16	10	0.01	10	<1	0.02	<1	240	8	0.82	<2	<1	4	<20
I552515		<1	0.15	10	0.59	554	2	0.03	<1	510	5	0.87	<2	1	11	<20
I552516		<1	0.13	10	1.04	439	<1	0.04	<1	1170	3	0.03	<2	3	15	<20
I552517		<1	0.21	10	0.18	210	1	0.02	<1	460	2	0.53	<2	<1	6	<20
I552518		<1	0.14	<10	0.01	18	31	<0.01	1	150	6	3.04	2	<1	2	<20
I552519		1	0.06	<10	0.23	402	17	<0.01	1	20	4	0.64	<2	1	2	<20
I552520		1	0.02	20	0.25	6000	<1	0.01	<1	10	11	0.07	<2	3	772	<20
I552521		<1	0.14	10	0.32	280	46	<0.01	22	800	11	5.05	3	2	4	<20
I552522		1	0.34	<10	0.76	1060	1	0.18	1	330	5	1.25	<2	5	97	<20
I552523		<1	0.08	<10	0.25	392	<1	<0.01	2	170	4	1.10	<2	3	4	<20
I552524		<1	0.18	<10	0.55	728	3	0.23	3	340	4	1.61	<2	6	37	<20
C479614		1	0.08	10	0.07	359	1	0.07	<1	510	3	0.39	<2	5	8	<20
C479615		1	0.15	<10	0.09	105	192	<0.01	2	360	5	1.26	<2	<1	2	<20
C479616		1	<0.01	<10	0.82	295	2	0.01	46	1140	13	3.62	3	14	11	<20
C479617		1	0.01	<10	0.79	653	1	0.01	28	560	4	5.65	<2	3	15	<20
C479618		1	<0.01	<10	1.06	788	<1	0.01	42	470	48	9.15	<2	4	7	<20
C479619		<1	0.05	<10	0.60	316	2	0.04	18	1060	7	1.88	<2	3	12	<20
C479620		<1	0.09	<10	0.21	191	4	0.05	<1	690	<2	6.86	2	1	38	<20
C479621		<1	0.05	<10	0.62	288	12	0.02	13	250	4	2.12	<2	4	2	<20
C479622		<1	0.17	10	1.36	210	58	0.02	33	370	<2	0.08	<2	9	28	<20
C479623		<1	0.02	<10	0.44	197	8	0.05	1	1270	2	0.84	<2	5	4	<20
C479624		<1	<0.01	<10	3.93	1020	1	<0.01	49	1340	3	6.96	2	5	70	<20
C479625		1	0.04	<10	0.93	770	1	0.09	11	1060	4	3.30	<2	4	42	<20
C479626		1	0.19	<10	0.98	294	<1	0.38	15	1140	3	3.38	2	3	158	<20
C479627		<1	0.08	<10	0.52	503	3	0.21	10	1300	4	3.17	<2	3	235	<20
C479628		<1	0.34	10	0.56	388	1	0.05	2	790	3	1.56	<2	9	7	<20
C479629		<1	0.08	<10	0.91	404	16	0.08	7	220	19	3.59	2	6	13	<20





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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	PGM-ICP23	PGM-ICP23	PGM-ICP23	Au-ICP21
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.001	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001	Au ppm 0.001
I552501		0.08	<10	<10	16	<10	6					0.012
I552502		0.10	<10	<10	29	<10	349	1.535				0.662
I552503		0.11	<10	<10	28	<10	26					0.037
I552504		0.12	<10	<10	60	<10	34					0.004
I552505		0.41	<10	<10	145	<10	56					0.007
I552506		0.32	<10	<10	142	<10	30					0.002
I552507		0.05	<10	<10	63	<10	14					0.007
I552508		0.30	<10	<10	193	<10	178					0.248
I552509		0.08	<10	<10	41	<10	60					0.006
I552510		<0.01	<10	<10	42	<10	4					0.001
I552511		0.01	<10	<10	6	<10	3					0.006
I552512		0.04	<10	<10	59	<10	53					0.001
I552513		0.02	<10	<10	7	<10	48					<0.001
I552514		<0.01	<10	<10	1	<10	2					0.003
I552515		0.05	<10	<10	11	<10	28					0.004
I552516		0.12	<10	<10	117	<10	83					0.001
I552517		0.05	<10	<10	4	<10	24					0.016
I552518		<0.01	<10	<10	1	<10	36					0.192
I552519		<0.01	<10	<10	11	<10	53					0.012
I552520		<0.01	<10	<10	2	<10	13					0.002
I552521		0.01	<10	10	34	<10	34					0.022
I552522		0.12	<10	<10	38	<10	69					0.004
I552523		0.08	<10	<10	30	<10	36					0.007
I552524		0.08	<10	<10	48	<10	54					0.026
C479614		0.12	<10	<10	<1	<10	89					0.046
C479615		0.01	<10	<10	2	<10	9					0.008
C479616		0.48	<10	<10	264	<10	309	2.04	0.303	0.006	0.031	
C479617		0.11	<10	<10	40	<10	122		0.075	<0.005	0.015	
C479618		0.04	<10	<10	39	<10	843	4.20	2.40	<0.005	0.045	
C479619		0.07	<10	<10	42	<10	79					0.012
C479620		0.04	<10	<10	21	<10	51					0.059
C479621		0.09	<10	<10	96	<10	22					0.021
C479622		0.14	<10	10	269	<10	20					0.005
C479623		0.18	<10	<10	22	<10	30					0.004
C479624		0.33	<10	<10	146	<10	136					0.011
C479625		0.12	<10	<10	68	<10	44					0.009
C479626		0.25	<10	<10	183	<10	58					0.003
C479627		0.18	<10	<10	98	<10	68					0.006
C479628		0.17	<10	<10	89	<10	19					0.003
C479629		0.08	<10	<10	63	<10	22					0.005



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
C479630		0.98	0.2	1.88	39	<10	40	<0.5	2	1.24	0.8	15	14	88	3.45	<10
C479631		1.44	2.0	1.15	18	<10	110	<0.5	<2	0.64	2.7	13	31	248	2.77	10



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
C479630		<1	0.09	<10	0.36	619	14	0.14	9	200	8	2.87	<2	3	42	<20
C479631		<1	0.52	10	1.30	292	51	0.06	51	1900	12	2.35	2	17	16	<20



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Cu %	Au ppm	Pt ppm	Pd ppm	Au ppm
		0.01	10	10	1	10	2	0.001	0.001	0.005	0.001	0.001
C479630		0.08	<10	<10	38	<10	76					0.011
C479631		0.21	<10	<10	667	<10	183					0.010