

**TECHNICAL REPORT**

**HAT PROPERTY**

**SHESLAY AREA**

**North of Telegraph Creek,  
Atlin Mining Division,  
Northwestern British Columbia,  
Canada**

**NTS 104J - 012, 013, 022, 023**

**131°35' West, 58°12' North**

**UTM Zone 9, 345211E, 6453290N (NAD 83)**

**Mineral Tenures: 501290, 507814, 511709, 515549, 515550, 896518.**

**Prepared by: Erik Ostensoe, P. Geo.**

**Prepared for: Doubleview Capital Corp.  
310-675 West Hastings Street,  
Vancouver, B. C., V6B 1N2.**

**February 27, 2012.**

**Assessment report submitted in fulfillment of Events No. 5008432 and 5008501.**

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## 1. SUMMARY

The Hat property comprises a 1687.74 hectares (4170.40 acres) copper-gold porphyry exploration project located in the Sheslay area of the Stikine District of northwestern British Columbia. The current owners since 1994 have conducted a series of geology and soil geochemistry surveys and outlined several areas of strongly anomalous copper- and gold-in-soils values. Data from historic geophysical and other surveys have been acquired and incorporated into a broad data base.

Doubleview Capital Corp. in summer 2011 negotiated an option to acquire a 100% interest in the Hat property and in September, 2011 completed a 479 sample MMI\* geochemical soil survey. The purpose of the survey was to apply MMI soil geochemical survey methods in areas where historic, conventional copper-in-soils and other soil geochemical survey data were available.

*\*Mobile Metal Ion (a technique pioneered in Australia by Wamtech).*

A six person field crew supplied by Terracad Geoscience Services Ltd. occupied a campsite on the Hat property in the period August 30 through September 18, 2011. Access was from Dease Lake, B. C. by helicopter. Soil sampling efforts were directed to (1) Gossan Creek area in tenure no. 515549, and (2) the "Main" zone in tenures no. 501290 and 515550, and smaller grids were placed in the Hoey zone, tenure no. 511709, and immediately west of "Big" Creek on tenure no. 515550.

MMI soil geochemical samples were processed by SGS Mineral Services in accordance with procedures recommended by Wamtech, using proprietary chemical leach extractants that acquire loosely-bonded metal ions from soils. Gold, silver, copper, lead, zinc and molybdenum values were reported (in ppb). Although the MMI and conventional analyses cannot be compared quantitatively, the 2011 survey results convincingly confirmed the earlier data for copper.

Doubleview Capital Corp. in 2012 will conduct further technical surveys and a program of diamond drilling in areas of anomalous soil geochemistry.

## 2. INTRODUCTION

This technical report was prepared for Doubleview Capital Corp., a junior mineral exploration company, with Tier 2 trading privileges on the TSX Venture Exchange. Doubleview, under the terms of an option agreement with the owners, Thomas E. Lisle, P. Eng. and Erik A. Ostensoe, P. Geo., dated August 29, 2011, is able to conduct technical work on the Hat Property.

The Hat property that is the subject of this technical report is situated in the Sheslay Mining Camp, 45 km north northwest of Telegraph Creek, in the Stikine District of Northwestern British Columbia, Canada.

The purpose of this technical report is to report the results obtained from a program of geochemical soil sampling directed to parts of the Hat 3 (tenure no. 511709), Hat (501290), Hat 4 (515549), Bob 1 (515550) and Bob 2 (507814) mineral tenures. Results of historic and recent field work are reviewed and the report includes recommendations for further exploration of the tenures.

Information contained in this report was derived from ARIS\* reports, Annual Reports of the British Columbia Minister of Mines, and technical publications related to the geology and other characteristics of porphyry deposits and the author's personal familiarity with the physical setting and principal geological units and structures, and with an extensive area of gossaning developed in a stream canyon, an area of historic hand trenching of strongly sheared mafic volcanic rocks situated near the southeast corner of the property, and several bulldozer trenches located in the central part of the tenures where strong copper and gold in soils values have been obtained from soil geochemical samples.

\*Assessment Report Indexing System

The author has included in this report data taken from historic reports of geophysical, geochemical and geological surveys that were performed under the supervision of mineral exploration industry professionals. Some of the data are from work done in the 1970s and although the author believes that the data are of good quality and accurately reflect the standards of mineral exploration at the time of that work, he has included cautionary remarks to indicate that he has not been able personally to verify either that data or the methods employed in its acquisition.

Data were obtained from several ARIS reports, all of which are listed in the References section of this report.

*The author has included in this review, drawings that show geochemical soil sampling data, from both the 1970s work by a major mining company, and from work in the 1990s and more recently by the vendors, and from a 1979 induced polarization geophysical survey. The induced polarization survey employed instrumentation and interpretations that were then in general use and that had been important methods in contributing to the discovery of many porphyry-style mineral deposits in the Canadian Cordillera.*

Mineral tenure data were obtained from the provincial Mineral Titles Online database on February 27, 2012.

## 3. PROPERTY DESCRIPTION AND LOCATION

The Hat property comprises six mineral tenures, details of which are shown in Table 1 of this report and illustrated in Figures 1 and 2. Total area of the tenures is 1687.74 hectares (4170.40 acres). The tenures have not been surveyed.

The Hat property is located 45 km northwest of Telegraph Creek, British Columbia, and 95 km west of Dease Lake, B. C. It is in the valley of the Hackett River that flows westerly and joins the Sheslay River, and ultimately the Taku River, and lies immediately north and west of Hatchau Lake. The geographic coordinates of the center of the mineral tenures are 58° 11.5' north latitude and 131° 38' west longitude, or in UTM terminology, Zone 9, 345211E, 6453290N. Part of the south boundary of Hat 4 tenure forms the north boundary of Indian Reserve "Salmon Creek 3": the

precise location of that Reserve has not been defined but it is believed, from reference to surveyor's notes, that the drawings included in this report are accurate.

Tenure No.	Name	Issue Date	Good to Date*	Area (hectares)	Registered Owner
501290	Hat	2005-01-12	2015-09-30	204.528	T. E. Lisle
507814	Bob 2	2005-02-24	2015-09-30	255.738	T. E. Lisle
511709	Hat 3	2005-04-26	2015-09-30	324.014	T. E. Lisle
515549	Hat 4	2005-06-29	2015-09-30	187.587	E. Ostensoe
515550	Bob 1	2005-06-29	2015-09-30	715.865	E. Ostensoe
896518	Top Hat	2011-09-11	2015-09-30	204.51	E. Ostensoe

*Table 1. Mineral Tenures – Hat Property\**

*\*Doubleview Capital Corp. has filed Statements of Work (Events No. 5008432 and 5008501) to extend the expiry dates of the tenures to the above-noted dates.*

The Hat property mineral tenures are owned equally by Thomas E. Lisle, P. Eng., of North Vancouver, B. C. and Erik A. Ostensoe, P. Geo., of Vancouver, B. C. Doubleview Capital Corp., by legal agreement dated August 29, 2011, has acquired the optional right to purchase 100% of the vendors' interests in the tenures.

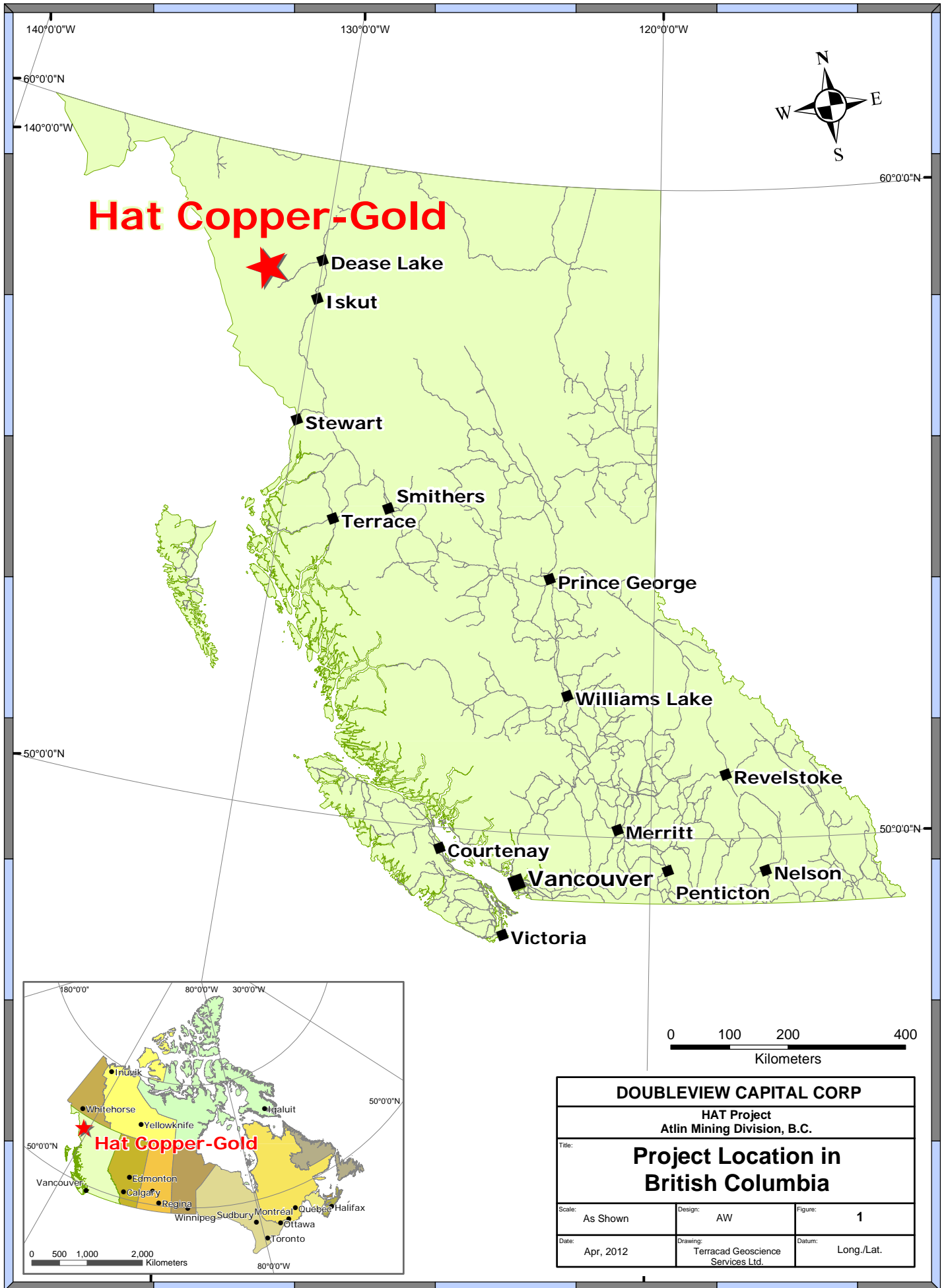
Doubleview is obligated to maintain the mineral tenures in good standing with the provincial Ministry of Energy and Mines by performance of exploration expenditures or payment of cash in lieu of work.

The Hat mineral tenures have no identified environmental liabilities.

Exploration work on the Hat mineral tenures is subject to conditions of permits issued by the British Columbia Ministry of Energy and Mines. Simple field work that does not involve extensive tree removal, blasting or road building requires notification of the Ministry. More extensive work, including drilling, trenching, road building, use of heavy equipment and camp construction, is subject to permitting. The permits normally specify the terms of use and may include requirements for defining a Mine Emergency Response Plan, consultation with First Nations, Chance Find archaeological procedures, and maintenance of high standards of environmental stewardship. A reclamation bond may be required.

The 2011 program of field work was completed by a six person crew of workers that occupied a temporary camp. Access was by helicopter from Dease Lake, 95 km to the east and work was limited to digging shallow pits from which were obtained soil geochemical samples. The pits were marked in the field by flagging tape (coloured ribbons) on which were marked identifying details of the location as determined by GPS observations, and were upon completion of sampling, backfilled. The work did not require permitting but concomitant with the field work a permit application to allow more extensive property work was filed with the Ministry of Mines office in Smithers, B. C. and Mines Act Permit MX-1-872 was issued on January 11, 2012.

The Hat property is situated a short (30 km) distance north and northwest of the Stikine River, parts of which have a protected status as the Stikine River Recreation Area. The former mining access road that was built by a mining company to service the now-closed Golden Bear mine passes about 8 km south of the property: that road is currently inactive due to lack of maintenance but in future could be a valuable asset in providing an economical and environmentally green "shortcut" route to mobilize personnel and equipment to the property as an alternative to long distance helicopter and/or fixed wing aircraft support. The "ownership" of, and responsibility for, the Golden Bear road is unclear.



# Hat Copper-Gold

Dease Lake  
Iskut

Stewart

Smithers

Terrace

Prince George

Williams Lake

Revelstoke

Courtenay

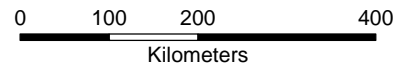
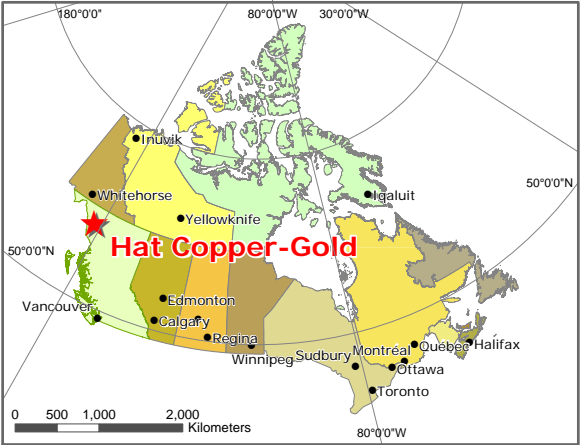
Merritt

Vancouver

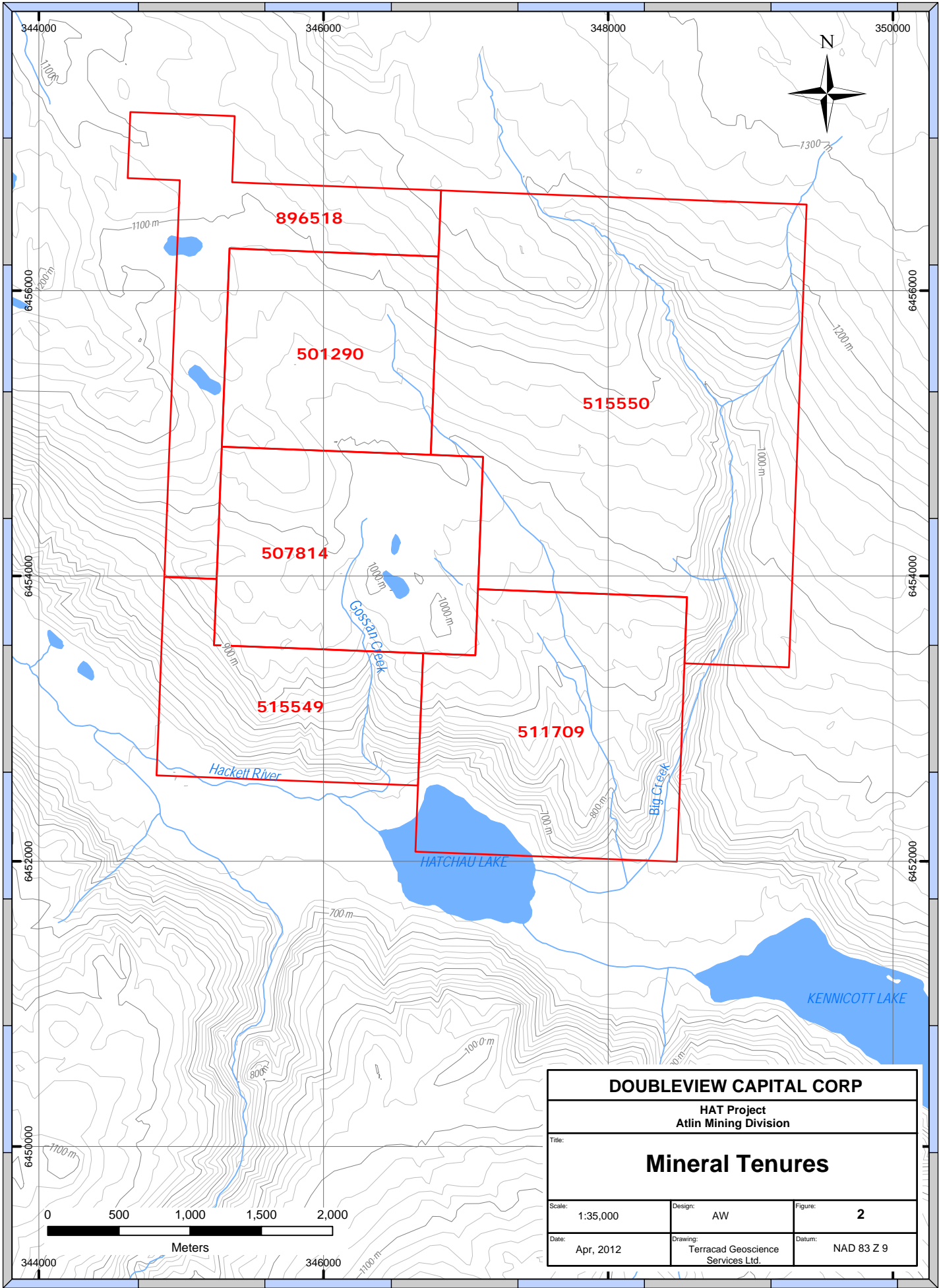
Penticton

Nelson

Victoria



<b>DOUBLEVIEW CAPITAL CORP</b>		
<b>HAT Project</b> Atlin Mining Division, B.C.		
Title: <b>Project Location in British Columbia</b>		
Scale: As Shown	Design: AW	Figure: 1
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: Long./Lat.



**DOUBLEVIEW CAPITAL CORP**

HAT Project  
Atlin Mining Division

Title:

**Mineral Tenures**

Scale:	1:35,000	Design:	AW	Figure:	<b>2</b>
Date:	Apr, 2012	Drawing:	Terracad Geoscience Services Ltd.	Datum:	NAD 83 Z 9



## **4. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY**

The Hat mineral property is situated on the north side of Hatchau Lake and the Hackett River. Elevations rise from 675 m asl to about 1300 m asl (Figure 2): the southern parts of the tenures feature a steep slope from the valley to about 1100 m, north of which elevation the slopes are gentler.

The valley bottom is wooded with cottonwood, alder, birch and swamp spruce trees; the south facing slope is largely covered by poplar trees and spruce, whereas upper slopes have patchy growth of evergreens, both spruce and hemlock. Pine and fir are present but not abundant. Areas of poorly drained, swampy ground, some of which are underlain by permafrost, have thick and tangled growth of willow.

Wildlife, including moose and black bear and fur-bearing animals, principally beaver, otter, and martin, are present but not abundant.

Currently access to the Hat property for “day-trippers” with a limited amount of cargo is from Dease Lake by helicopter. Float-equipped ‘planes capable of carrying camp requirements and personnel can land on Hatchau Lake but suitable campsites are difficult to locate. Hunting guides with strings of packhorses utilize an historic freighting trail along the north shore of Hatchau Lake to access the Sheslay site, five km west of the Hat property. The latter site is equipped with a landing strip suitable for use by small wheel-, and in winter, ski-, equipped aircraft and may be a useful marshalling site when mobilizing freight to the Hat property.

Nearest settlements to the Hat property are Telegraph Creek, population 300, located 50 km south, and Dease Lake, population 400, located 95 km east. The latter offers scheduled air service connections to Smithers, 500 km south, and is situated on Highway 37, the only overland transportation corridor in northwestern British Columbia. The Tahltan First Nation maintains band and business offices in Dease Lake, and band offices in Telegraph Creek and Iskut.

The Sheslay district experiences short warm summers and cold winters with occasional warm spells (aka “chinooks”). Field work can be pursued from May through October. Winter snowpack is normally in excess of one and one-half metres.

The Hat property lies in the Nahlin Plateau subdivision of the Stikine Plateau in the Intermontane physiographic belt of the Canadian Cordillera and is close to the east side of the Boundary Ranges of the Coast Mountains physiographic belt. It is situated immediately south of, and in part is underlain by basaltic flows of, the broad Level Mountain volcanic edifice.

## **5. 2011 PROGRAM OF FIELD WORK**

The area now claimed by the Hat mineral tenures has been investigated by many prospectors, both self-employed and corporate-sponsored. Gossans that are developed on what may be zones of epithermal alteration are prominent features and undoubtedly have proven irresistible to passing mineral explorers. Their findings and conclusions are for the most part unrecorded.

Frank Hoey, a grub-staked prospector, worked in the area in 1963 and located what is now designated the “Hoey” showing, near the southeast limit of the tenures. His samples on assay returned high gold values, as high as 1 oz/ton gold, from strongly sheared andesitic or, possibly gabbroic, formations. The Hoey gold values have not been reproduced subsequent to his work but sampling by the current owners included samples with values as high as 8.11 g/tonne gold and 22,041 ppm copper (ARIS #24388).

Active mineral exploration work was directed intermittently to the Sheslay district, five to eight km west of the Hat property, in the period 1966 to 2008. Following preliminary district scale work by Colorado Corporation in 1966 –

1968, Newconnex Canadian Exploration Ltd. optioned that area and in 1973 (?) drilled nine holes at Polar Creek, a southside tributary of the Hackett River. There are no reports in the public record of the Newconnex work. United Cambridge Mines Ltd. also explored the west end of the mineral belt and in 1976 discovered by prospecting and mapping, the "Dick" Zone, a copper-gold occurrence in altered diorite, and continued work in the district intermittently until 1988 (see below). Utah Mines Ltd., in 1977 acquired the "Sky" claims in what is now the Hat property area, and in the following years conducted fieldwork, including mapping, geochemical sampling (copper analysis only), geophysical surveys, and bulldozer trenching. They established a reconnaissance grid of north-south oriented survey lines at 200 metre spacing over much of the property from which the "B" horizon soils were sampled at 100 metre intervals (772 soils in 1978, 562 soils in 1979) (ref. ARIS #6835, Schmidt, 1978 and #7482, Vyselaar, 1979). A 122 km time domain induced polarization geophysical survey and a magnetic survey were completed in 1979. Readings of apparent chargeability and primary voltage were obtained at 100 metre stations using a pole-dipole potential electrode spacing of 100 metres and "na" spacings of 100 and 300 metres. The apparent resistivity at each station was then calculated. Data were plotted in plan and pseudo-section form (ref. ARIS #7482, Vyselaar, 1979). Corrected total field magnetic values also were plotted. Geophysical data are discussed elsewhere in this report (section 7).

United Cambridge Mines Ltd. conducted exploration in parts of the Sheslay district from 1974 to 1988. Their work was detailed in several assessment reports, of which AR #18158 (Thompson, 1988) provides descriptions of geochemical and geophysical surveys (VLF survey) and an archaeological survey in the area of the present Hat property. Their work was directed principally to the south-facing valley slope from Big Creek and Hoey area westerly to Gossan Creek. Their consultant, W. Thompson, reported that the Hoey area is a possible epithermal type occurrence. His best sample returned "...0.62 opt gold over 0.35 meters". A sample from an exposure in a bulldozer cut 600 meters northeast of Hoey returned 6600 ppb gold. Airborne magnetic and VLF-EM surveys were flown during 1987.

Caution: the writer of this report has not confirmed in the field the gold values reported in the preceding paragraph.

United Cambridge Mines Ltd., due to the proximity of the "Moon" claims (now included in the Hat property) to the historic Telegraph Trail, was required to conduct a survey of heritage resources. That survey, as described in AR #18158, included a helicopter overview and an on-foot traverse of the area and found no new archaeological sites and three contemporary sites. The most significant heritage resource observed in the study was the Telegraph Trail (Ham, 1988).

Prospectors T. E. Lisle, P. Eng. and E. Ostensoe, P. Geo., in 1994 located modified grid system mineral claims over a large area that included the present Hat property. Working with partial financial support from the provincial Prospectors Assistance Program in 1995 and 1996, they conducted detailed evaluations of the area, including mapping, geochemical soil sampling and rock sampling. They located and re-sampled historic workings of both Hoey (1963) and Utah Mines Limited (1976, '77). In 2005, 2006, 2008 and 2009, they established a grid of soil samples in the southwest part of the present tenures and sampled other parts in a less organized fashion.

Doubleview Capital Corp., in summer 2011 conducted an MMI (mobile metal ion) soil geochemical survey comprising about 750 soil samples that covered much of the Hat mineral tenures. The purpose was to obtain further analytical data to supplement available historic and more recent geochemistry. A six person field crew, comprising five experienced soil samplers occupied a campsite located in mineral tenure 507814 in the period September 1 to 18, 2011. Soil geochemical samples were submitted to SGS Mineral Services in Toronto, Ontario for analysis by MMI analytical procedures. Geochemical sample locations are illustrated in Figure 8 and MMI gold, copper, silver, lead, zinc and molybdenum values are plotted in Figures 9 to 14 of this report. Certificates of Analysis are included in Appendix 1.

## 6. GEOLOGICAL SETTING AND MINERALIZATION

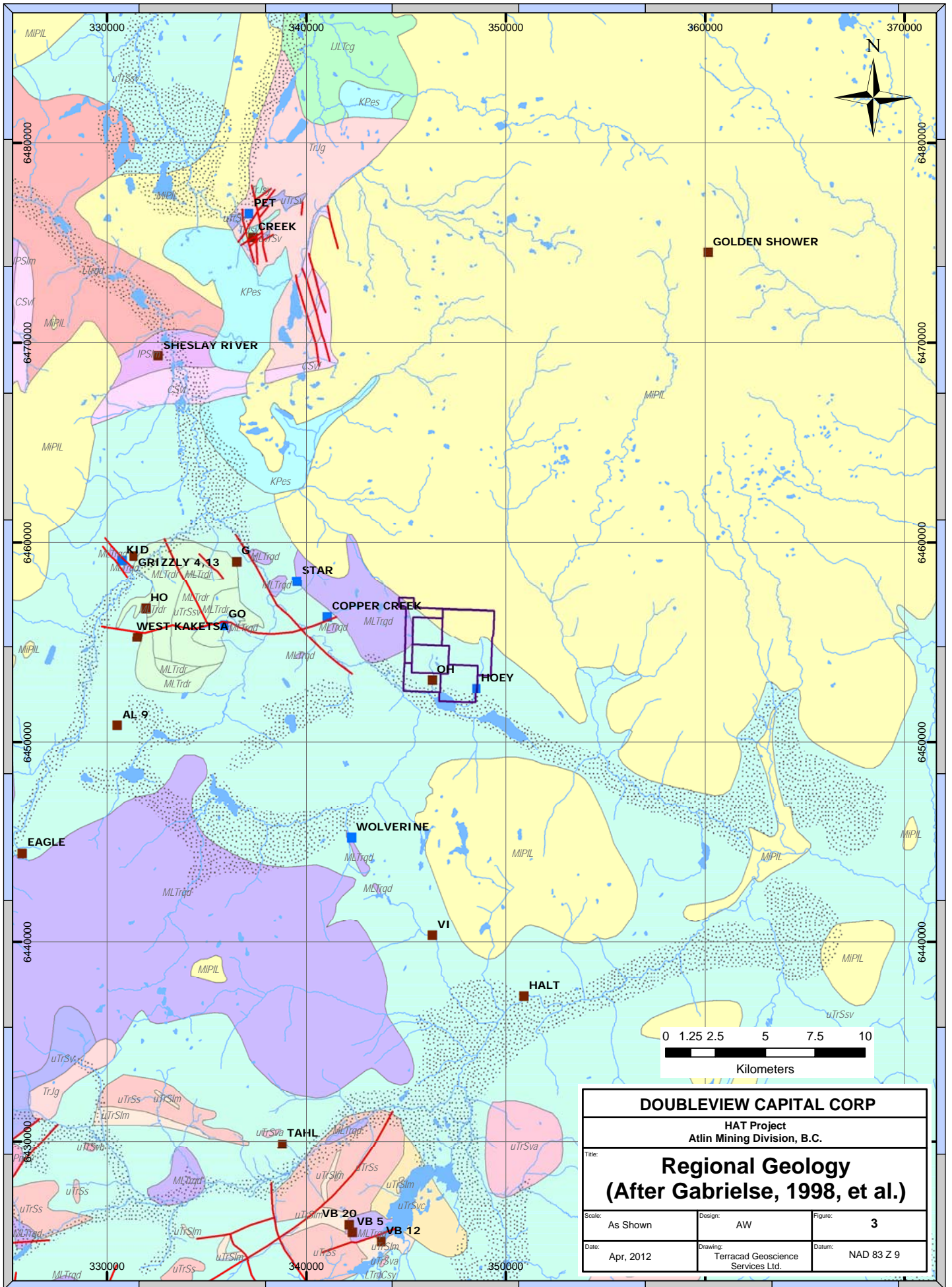
The Hat property lies within accreted "Stikinia" terrane, "...a tectonostratigraphic terrane in the Canadian Cordillera that formed in a volcanic arc environment during Paleozoic and Mesozoic time" (Currie, et al. 1997). Present day Stikinia lies close to the east side of the Coast Intrusions and is bracketed to the west by granitic terrane and related metamorphic rocks and to the east by a thin band of Cache Creek formation carbonates. Major structural elements trend northwesterly in harmony with Cordilleran trends. In particular, the valley of Kennicott and Hatchau Lakes and Hackett River is interpreted as being host to a major west-northwest fault (Lisle, 1997). Structural elements may relate to an extensional tectonic regime developed in the post-Eocene era. Figure 3 of this report illustrates the location of the Hat mineral tenures with respect to the regional geology.

The Sheslay district lies immediately south of the Level Mountain stratovolcano of Tertiary/Quaternary age. Stuhini Formation volcanoclastic rocks of Upper Triassic age are intruded by small (< 5 sq. km.) plutons of granitic to gabbroic composition that range in age from Jurassic to Eocene (?). Hackett River, the principal stream, follows a northwesterly structural corridor; other apparently significant lineaments trend northeasterly. Big, Hoey and Gossan Creeks (informal names given by prospectors) flow southerly across the Hat mineral tenures and strong iron-staining and other alteration is exposed in steep walled canyons.

Geology of the Hat tenures, as compiled by Utah Mines Ltd. and the owners, who are also geologists, is presented in Figure 4. The principal intrusion, labelled "Hat Stock", is variously a dioritic to gabbroic body whereas a smaller intrusion in the southeastern part of the property, labelled "Hoey Stock" is a monzonite/gabbro variation. To the northwest of the property area, a quartz diorite pluton that may extend westerly to the Sheslay area is similar in character to the larger Kaketsa Intrusion located south of the confluence of Sheslay and Hackett Rivers. Stuhini formation volcanoclastic rocks include an interbedded assemblage of siltstone and augite- and plagioclase-rich basaltic flows with minor tuff and are weakly to strongly hornfelsed: original textures have been obliterated by recrystallization and in places overprinted by a dissemination of fine to very fine grained sulphide minerals, almost entirely pyrite. Exposures along Big Creek are brightly gossaned whereas those in Hoey Creek are darker, reflecting the stronger shearing developed in andesitic and gabbroic members. A large central part of the tenures, including the location of a strong copper-in-soils geochemical anomaly, is obscured by thick willow growth and by swamp, muskeg and morainal debris: scattered outcrops of hornfelsed silicic sedimentary rocks are present.


Sulphide mineralization is present in several parts of the Hat property. The Big Creek valley at the east side has several areas with clusters of pyrite veinlets with chalcopyrite. The Hoey area has strongly sheared mafic-rich formations with pyrite, bornite, chalcopyrite and traces of molybdenite in association with crystalline carbonate (calcite) minerals: gold in amounts up to 1 ounce per ton (i.e. 31 g/tonne) were reported by Hoey, more recent samples returned on assay as much as 8.1 g/tonne gold. The owners also report several areas proximal to the Hoey area, samples of which assayed several grams per tonne gold. In the central part of the tenures narrow sheared zones with chalcopyrite and bornite (minor) have been exposed in bulldozer trenches and nearby to the west, several pieces of "float" rock strongly mineralized with pyrite and chalcopyrite were found by Utah Mines personnel and by the owners. In the Gossan Creek zone and irregularly to the southwest limit of the tenures, iron (pyrite) and copper sulphide mineralization occurs in hornfelsed volcanoclastic rocks that are over-printed by very intense carbonate/silica alteration.

Utah Mines Ltd. conducted induced polarization and magnetic geophysical surveys over much of the present mineral tenures. Strong geophysical responses were found to be coincident with areas of anomalous to strongly anomalous copper-in-soils. Historic and recent soil geochemical data are generally similar in magnitude. Magnetic patterns, as interpreted by Viselaar (1979, p. 12), included numerous areas of apparently anomalous magnetic responses that due to a lack of detailed knowledge of the geology could not be used to supplement the property data. Several linear magnetic anomalies were thought to possibly reflect dykes. Figure 5 and 6 illustrate Utah Mines Ltd. induced polarization geophysical survey data.



<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division, B.C.		
Title: <b>Regional Geology (After Gabrielse, 1998, et al.)</b>		
Scale: As Shown	Design: AW	Figure: 3
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83 Z 9

## Legend

 Claim Boundary

 Extension Fault


 Fault

 Normal Fault

 Thrust


### Mineral Occurrences


 Developed Prospect

 Past Producer

 Producer

 Prospect

 Showing


 Anomaly

### Geological Unit


 CSvf - Paleozoic - Stikine Assemblage rhyolite, felsic volcanic rocks


 ESvf - Cenozoic - Sloko Group rhyolite, felsic volcanic rocks

 KPes - Mesozoic to Cenozoic - Unnamed undivided sedimentary rocks

 KPesc - Mesozoic to Cenozoic - Unnamed coarse clastic sedimentary rocks


 LTrJCSy - Mesozoic - Copper Mountain Plutonic Suite syenitic to monzonitic intrusive rocks

 LTrgd - Mesozoic - Unnamed granodioritic intrusive rocks


 MLTrdr - Mesozoic - Unnamed dioritic intrusive rocks

 MLTrqd - Mesozoic - Unnamed quartz dioritic intrusive rocks

 MiPIL - Cenozoic - Level Mountain Group alkaline volcanic rocks

 PeEShgr - Cenozoic - Sloko-Hyder Plutonic Suite granite, alkali feldspar granite intrusive rocks


 PeEShqp - Cenozoic - Sloko-Hyder Plutonic Suite high level quartz phytic, felsitic intrusive rocks

 PnSdo - Paleozoic - Stikine Assemblage dolomitic carbonate rocks

 PnSv - Paleozoic - Stikine Assemblage undivided volcanic rocks


 Qvb - Cenozoic - Unnamed basaltic volcanic rocks

 TrJg - Mesozoic - Unnamed intrusive rocks, undivided

 TrJsy - Mesozoic - Unnamed syenitic to monzonitic intrusive rocks

 IJLTcg - Mesozoic - Laberge Group - Takwahoni Formation conglomerate, coarse clastic sedimentary rocks


 IJLTst - Mesozoic - Laberge Group - Takwahoni Formation argillite, greywacke, wacke, conglomerate turbidites


 IPSlm - Paleozoic - Stikine Assemblage limestone, marble, calcareous sedimentary rocks


 uTrSlm - Mesozoic - Stuhini Group limestone, marble, calcareous sedimentary rocks


 uTrSs - Mesozoic - Stuhini Group undivided sedimentary rocks

 uTrSsv - Mesozoic - Stuhini Group marine sedimentary and volcanic rocks

 uTrSv - Mesozoic - Stuhini Group undivided volcanic rocks

 uTrSva - Mesozoic - Stuhini Group andesitic volcanic rocks

 uTrSvb - Mesozoic - Stuhini Group basaltic volcanic rocks

 uTrSvc - Mesozoic - Stuhini Group volcanoclastic rocks

 Quaternary Unit

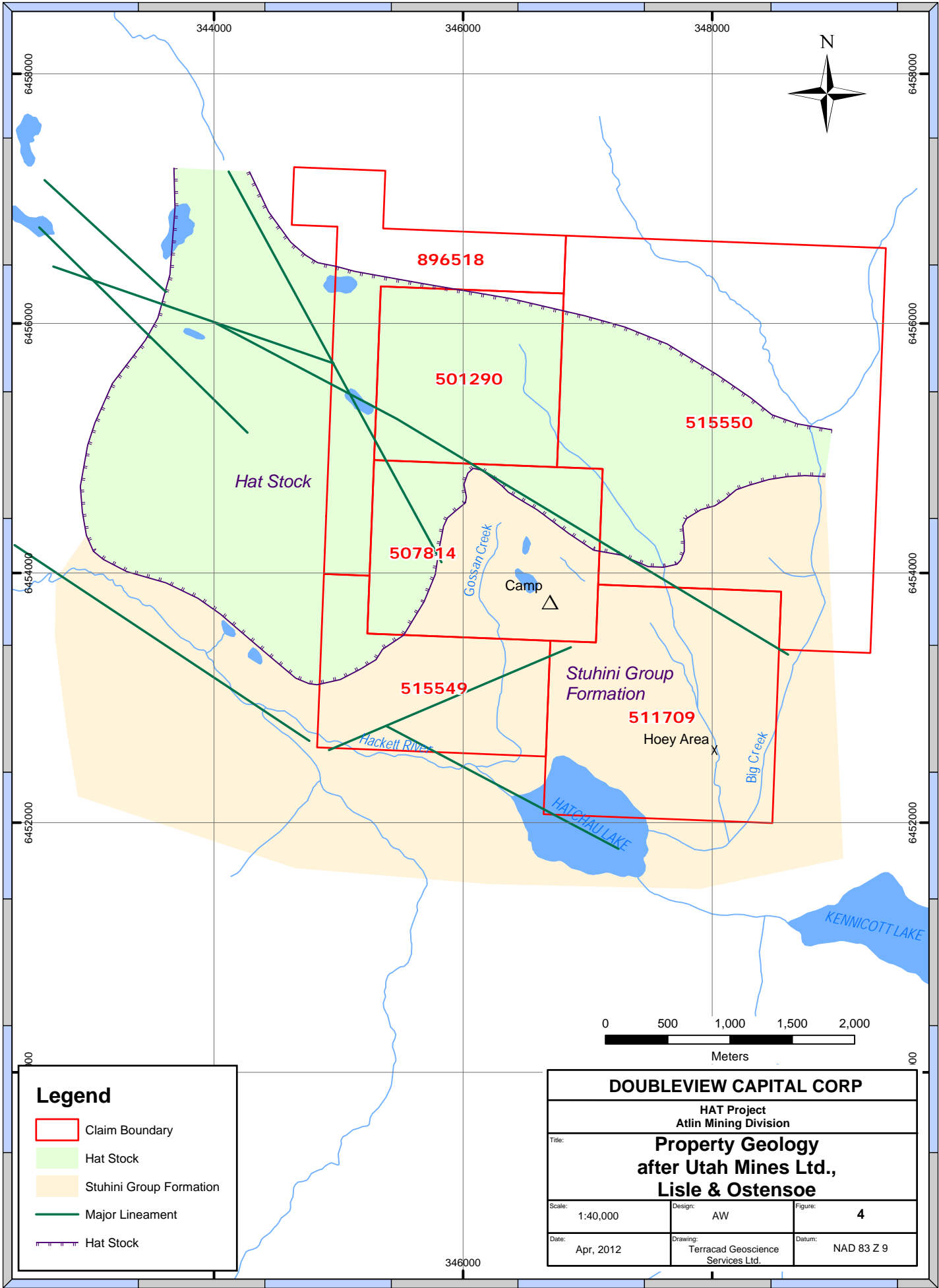
## DOUBLEVIEW CAPITAL CORP

HAT Project  
Atlin Mining Division, B.C.

Title:  
**Legend To Accompany  
Regional Geology**

Scale: . Design: AW Figure: **3a**

Date: Apr, 2012 Drawing: Terracad Geoscience Services Ltd. Datum: NAD 83 Z 9

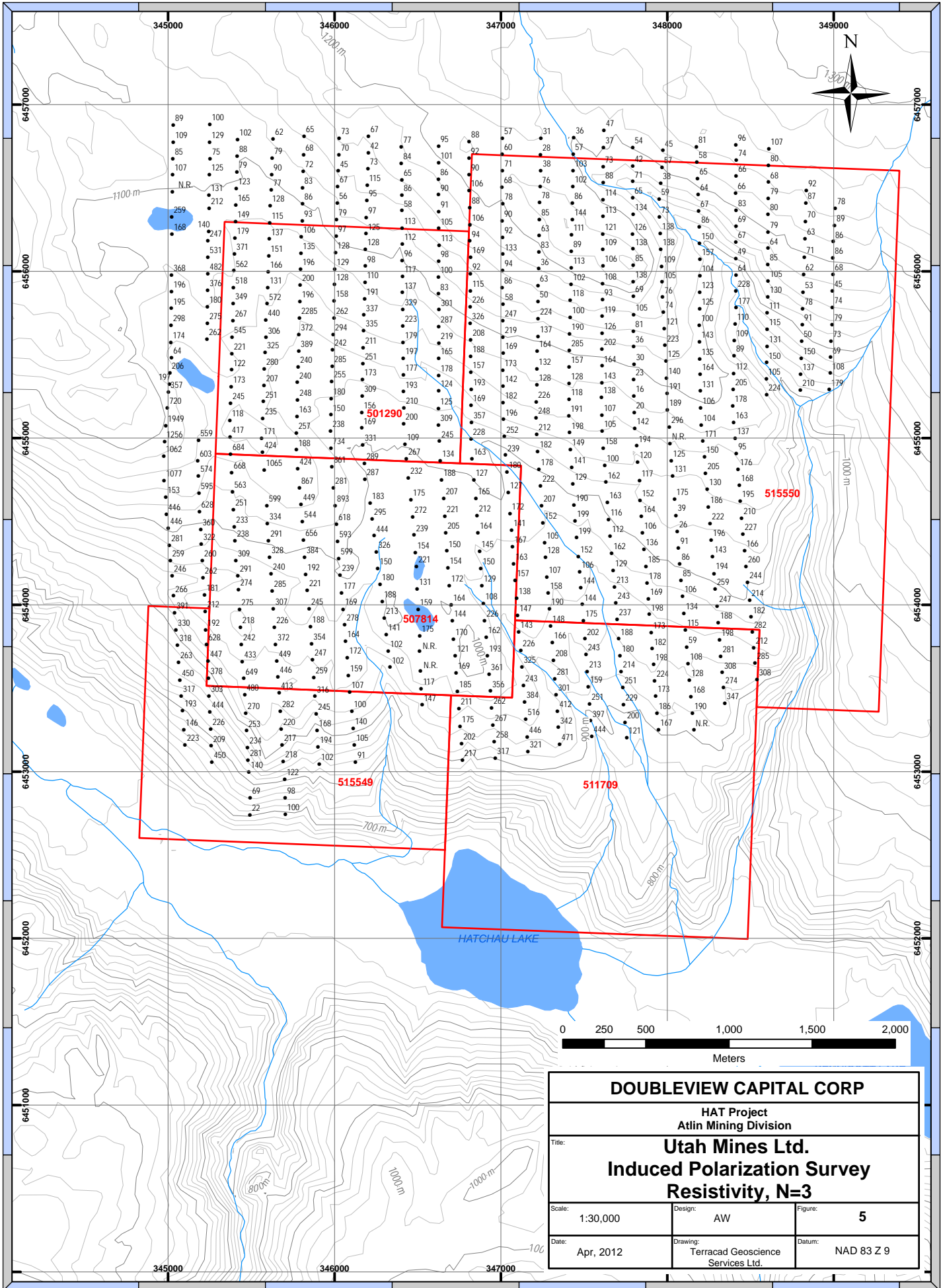


**Legend**

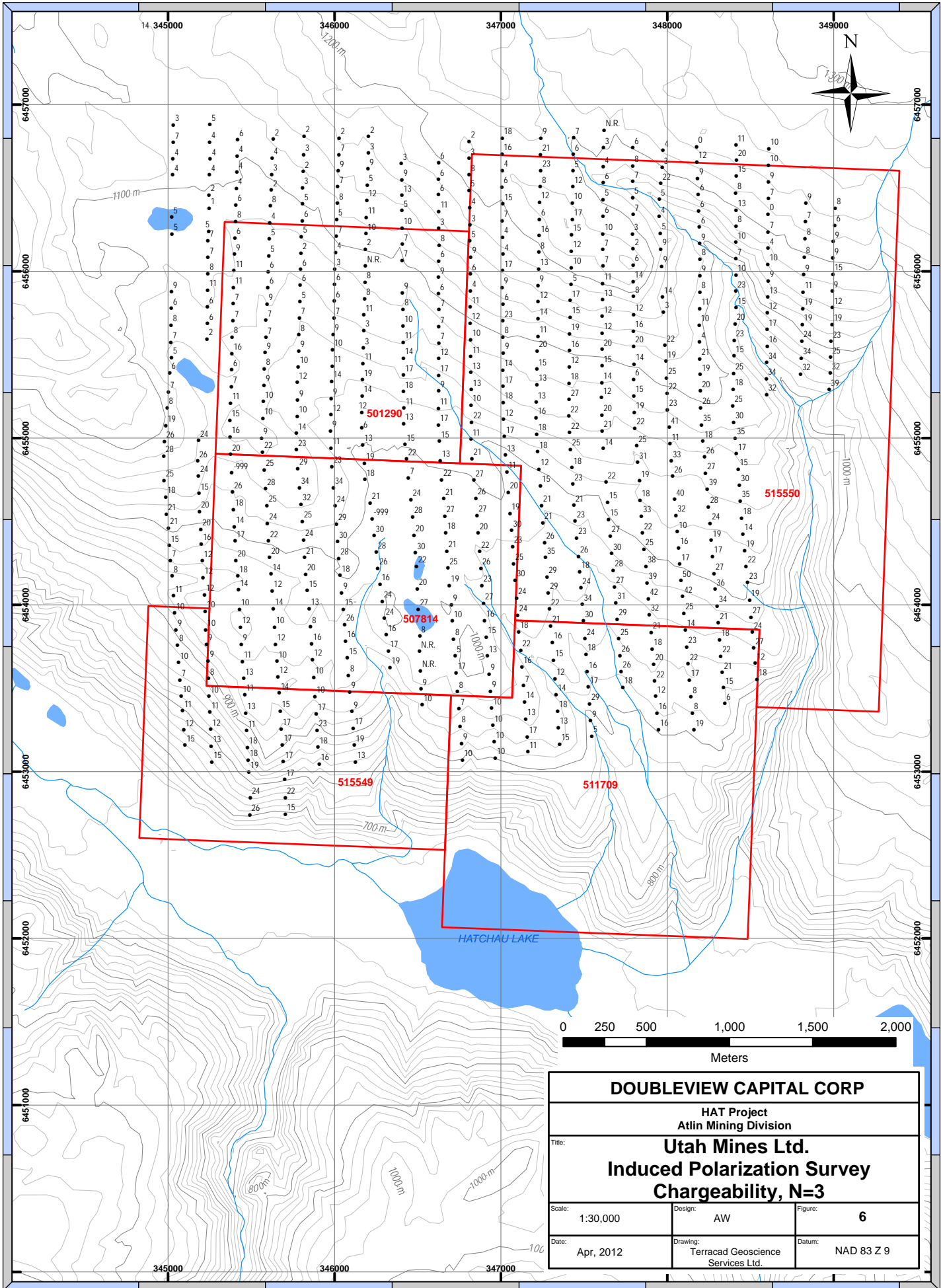
- Claim Boundary
- Hat Stock
- Stuhini Group Formation
- Major Lineament
- Hat Stock

<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
Title: <b>Property Geology after Utah Mines Ltd., Lisle &amp; Ostensoe</b>		
Scale: 1:40,000	Design: AW	Figure: <b>4</b>
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83 Z 9





<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
Title: <b>Utah Mines Ltd. Induced Polarization Survey Resistivity, N=3</b>		
Scale: 1:30,000	Design: AW	Figure: 5
Date: Apr, 2012	Drawing: Terraced Geoscience Services Ltd.	Datum: NAD 83 Z 9



<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
Title: <b>Utah Mines Ltd. Induced Polarization Survey Chargeability, N=3</b>		
Scale: 1:30,000	Design: AW	Figure: 6
Date: Apr, 2012	Drawing: Terracod Geoscience Services Ltd.	Datum: NAD 83 Z 9



## 7. DEPOSIT TYPES

The conceptual exploration model employed by Utah Mines Ltd. was almost certainly that of a standard porphyry deposit model. Their work in 1977 - 1979 was influenced by the prevailing climate of discovery that had in previous years resulted in the recognition of at least twenty significant porphyry-scale (i.e. multi-hundred million tonnes) copper, copper-gold, molybdenum and copper-molybdenum deposits in the Canadian Cordillera, including, notably, the Galore Creek, Schaft Creek, Red Chris and Adanac deposits in the northwestern part of British Columbia. Deposit models were being defined on the basis of such factors as mineral assemblage, host rocks, alteration suites, structural controls and morphology. It is probable that Utah Mines Ltd. was attracted to the Sheslay district site by the presence of widespread iron oxide staining, mid-Mesozoic age volcanoclastic rock formations, in particular the Stuhini formation, an analog of the "Nicola" formation a prolific porphyry-type deposit host elsewhere in British Columbia, granitic to gabbroic intrusive rocks, the then-recent discovery of the Dick Creek porphyry deposit ten kms to the west, and by the opportunity to work in what was obviously an under-explored area.

## 8. EXPLORATION

Mssrs. Lisle and Ostensoe acquired their Hat Property land position in 1994 on the basis of their familiarity with the district. In addition to their work in several parts of the area, a prospector under Mr. Lisle's direction had re-discovered the Hoey zone of copper-gold mineralization and had reported numerous other occurrences of copper mineralization. Lisle also concluded that the brightly coloured gossans in the "Gossan" Creek area were possibly masking zones of epithermal mineralization: the so-called "Buchanan" model of vertical zonation in hydrothermal systems appeared to have relevance (Buchanan, 1981). In addition, the owners recognized in the area of strong copper-gold soil geochemistry with coincident n-3 induced polarization response as defined by Utah Mines Ltd. what is in modern ore deposit theory the possible site of a classic porphyry deposit.

The Hat property was held by the vendors, Ostensoe and Lisle, from 1994 to the present. They completed many seasons of field work that included prospecting, geological mapping and geochemical rock, talus fines and soil sampling. The present option holder, Doubleview Capital Corp., acquired that option in August 2011 and commenced a program of soil geochemical sampling on September 1, 2011. The objective of that program was to confirm and better define characteristics of apparent copper-in-soils anomalies that were defined by Utah Mines Ltd. in 1977-1978 (see Figure 7).

The Doubleview Capital Corp. field crew employed soil sampling techniques recommended by WAMTECH of Bentley, Western Australia, developers of the Mobile Metal Ion analytical process. Mobile Metal Ion, ("MMI") soil sampling and analyses measure the loosely-held metal content of near-surface soils that form the uppermost part of an osmotic-like hydrologic column that brings to surface metal ions from bedrock sources. Such ions are brought to the near surface environment where the medium (i.e. water) is dispersed, leaving the ions, possibly aided by subtle electrical effects, adsorbed onto soil particles.

MMI analyses represent metal ions extracted from the soil sample by a mild leach process. The leach is partial, capturing only the ionic molecules, as opposed to conventional soil treatment that takes into solution the total metal component. MMI theory assumes that mobile metal ions move essentially vertically up the hydrologic column as opposed to soil particles that normally are transported by various mechanical processes and may be representative of a larger, far more diverse, provenance.

In the field, a 300 to 500 gram portion of soil was taken from a uniform depth below the base of the A or organic component of the soil profile. Samples were handled with tools that have been cleaned between sample sites to ensure that they are uncontaminated by material carried over from the previous location. Samples were placed in sealable plastic bags (i.e. Ziplock bags) and were sorted and accumulated securely until the sampling project was

completed. Sample locations were recorded by GPS if satellite contact was effective and otherwise in a notebook. [GPS coordinates can be downloaded into data plotting programs that streamline map production.] Samples were forwarded by freight truck to the SGS Laboratory in Toronto, Ontario, where their identities were entered into the lab's sample database.

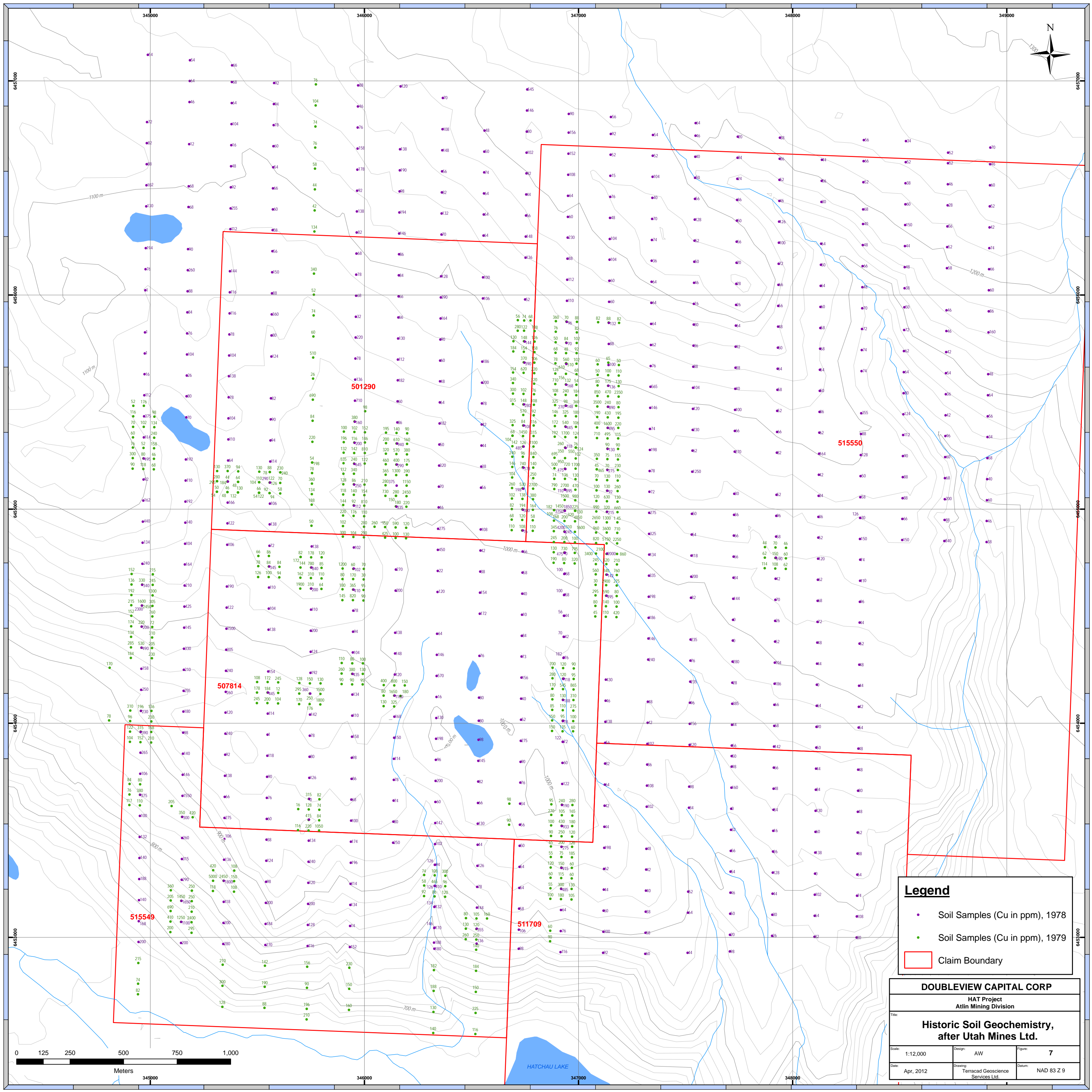
The MMI laboratory method entails treating a small portion of the soil sample with a weak solution, the exact composition of which is proprietary and not disclosed. The solvent solution extracts loosely-held metal ions from the soil and is then analysed by induced coupled plasma/mass spectrometry methods that measure very small concentrations of metals. The client, depending upon the nature of its mineral exploration strategy, can specify which of several different solvent solutions is to be applied. Commonly a suite of metals is requested. A further option is to request a separate determination by conventional ICP-MS preparation and processing of a broad, 30 to 64 element, spectrum of elements.

Conventional soil geochemical soil samples are treated by aqua regia or four-acid leach solutions that digest almost the complete sample. The principal difference between the methods lies in the difficulty inherent in determining the source of granular soil components: they can be strictly local or residual, or they can be transported by a variety of influences, such as glacial, aolian, fluvial, or mass wasting, the inter pore fluid column is however strictly limited in its path from bedrock or deeper to surface.

MMI sample data cannot be merged with conventional soil sample data.

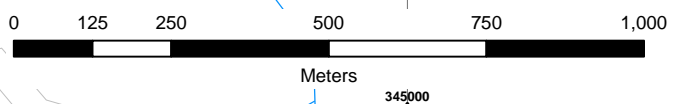
Figure 8 of this report illustrates the locations of 2011 Hat Project MMI soil geochemical samples.

The Hat Project MMI samples were treated in the SGS Laboratory using the MMI-M solvent solution that detaches and holds mobile ions in the extractant solution prior to analysis. At the client's request, SGS Lab reported gold, copper, silver, lead, zinc, and molybdenum values. Figure 8 illustrates MMI soil geochemical sample locations and Figures 9 to 14 illustrate MMI values for gold, copper, silver, lead, zinc and molybdenum, respectively. Certificates of Analysis are included in Appendix 1.



- Legend**
- Soil Samples (Cu in ppm), 1978
  - Soil Samples (Cu in ppm), 1979
  - Claim Boundary

<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
<b>Historic Soil Geochemistry, after Utah Mines Ltd.</b>		
Scale: 1:12,000	Design: AW	Figure: 7
Date: Apr, 2012	Drawing: Terracord Geoscience Services Ltd.	Datum: NAD 83 Z 9



## 9. INTERPRETATION AND CONCLUSIONS

The Hat property has been explored in a thirty-five year period by prospecting, a series of technical surveys, and a small number of shallow bulldozer and hand-dug trenches. Three areas of particular interest have been identified: (1) the Gossan Creek zone that comprises, from east to west, a zone of intense alteration that may represent the upper zone of a “Buchanan” model epithermal system, a +1 km linear structure with strong brecciation permeated with fine grained sulphide minerals, and at its west end, a pinnacle of erosion-resistant alteration that where sampled contained elevated silver-copper-gold values (2) the Hoey zone, an area of strongly sheared and mylonitized gabbroic volcanic rocks and nearby monzonite, that includes shreds of micaceous specular hematite, copper (chalcopyrite, bornite, malachite and azurite) and trace amounts of molybdenite, samples of which when assayed returned in addition to “good” copper values, gold values of as much as 8.1 ppm gold/tonne and 22,041 ppm copper, and (3) the copper-gold geochemically and geophysically anomalous zone first identified by Utah Mines Ltd. and confirmed by the present owners. The latter zone has dimensions of 1.5 km northwesterly and one km northeasterly, and occurs in an area of boggy ground without large areas of bedrock exposures. Several sulphide-bearing “float” pieces found by Utah personnel and by the owners assayed high values in copper (7336 ppm Cu) and 885 ppb gold and rock samples from trenches analysed 835 ppm copper and 134.8 ppm gold. The provenance of these pieces is unknown but is judged by the owners to be close by, possibly vertically below, their points of discovery. Samples from bedrock exposures in “Big” Creek, 1 km east of the anomalous area, analysed as high as 4798 ppm copper and 325.5 ppb gold.

Figures 8 to 14 of this report illustrate the locations of MMI soil geochemical samples (Figure 8) and analytical data in ppb for gold, silver, copper, lead, zinc and molybdenum in soils (Figures 9 to 14). The following observations apply to the west half of the Hat property: the two small grids elsewhere to the east are too limited to be useful guides to mineralization.

**GOLD** - Figure 9. Gold values are low with the exception of two notable samples from the Gossan Creek mineral zone located immediately northwest of Hatchau Lake. The area is strongly gossaned and may represent a “cap” area that in the Buchanan model overlies a zone of precious metal enrichment.

**COPPER** – Figure 10. Copper analytical values from Gossan Creek area samples vary erratically, without forming a strong pattern. The lower (southern) part of the stream area exhibits a possible northeast striking zone with “high” to “very high” copper values. A cluster of very strong copper-in-soils values in tenures 507814 and 511709 constitutes an obvious copper anomaly: this information is closely similar to historic sample results obtained by Utah Mines Ltd. and Lisle and Ostensoe and reported in ARIS reports. The gap in sampling from line 346900E to 346500E is attributed to being a zone of swamp and permafrost that did not permit acquisition of MMI-type soil samples.

**SILVER** - Figure 11. MMI soil samples from the Gossan Creek mineral zone area are moderately enriched in silver and the observations concerning gold (see above) also apply to silver. Elsewhere in the survey, silver values are weakly elevated and show a relationship with copper values.

**LEAD** – Figure 12. Lead MMI values are mildly interesting: there may be a separation of lead from copper in soils. Several samples from the central part of tenure 507814 are weakly elevated compared to elsewhere in the sample grid.

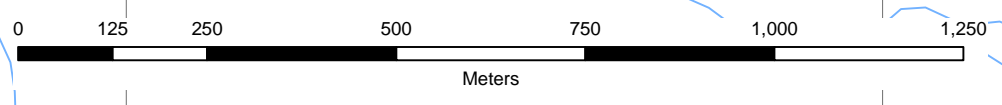
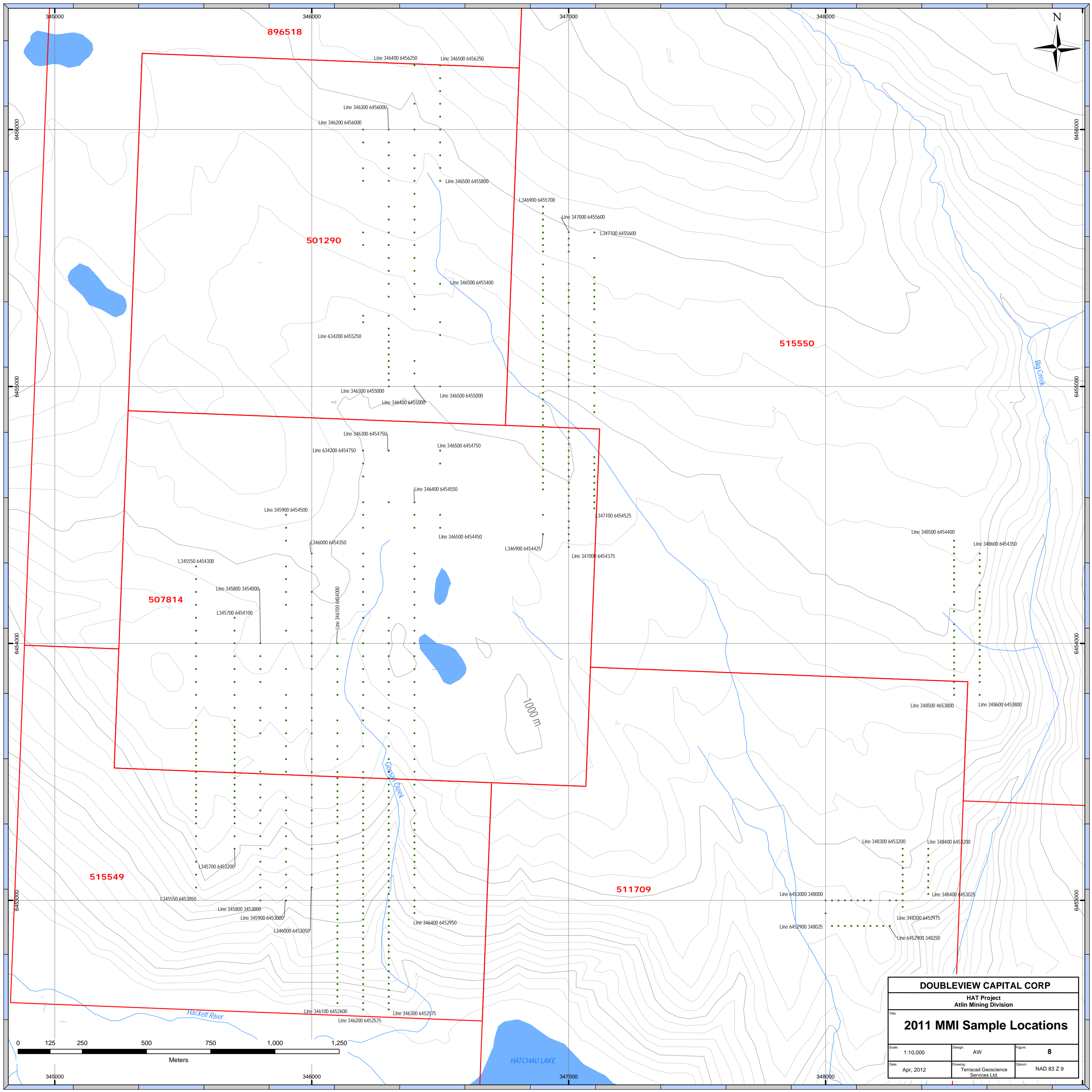
**ZINC** – Figure 13. Strong zinc MMI analyses are erratically distributed, with highest value, and two lower but still anomalous samples in nearby sites, in samples from 345700E.

**MOLYBDENUM** – Figure 14. Molybdenum MMI analyses are weakly to moderately strong in the Gossan Creek mineral zone area and are notably weak in the zone of strong copper values in tenures 511709 and 515549.

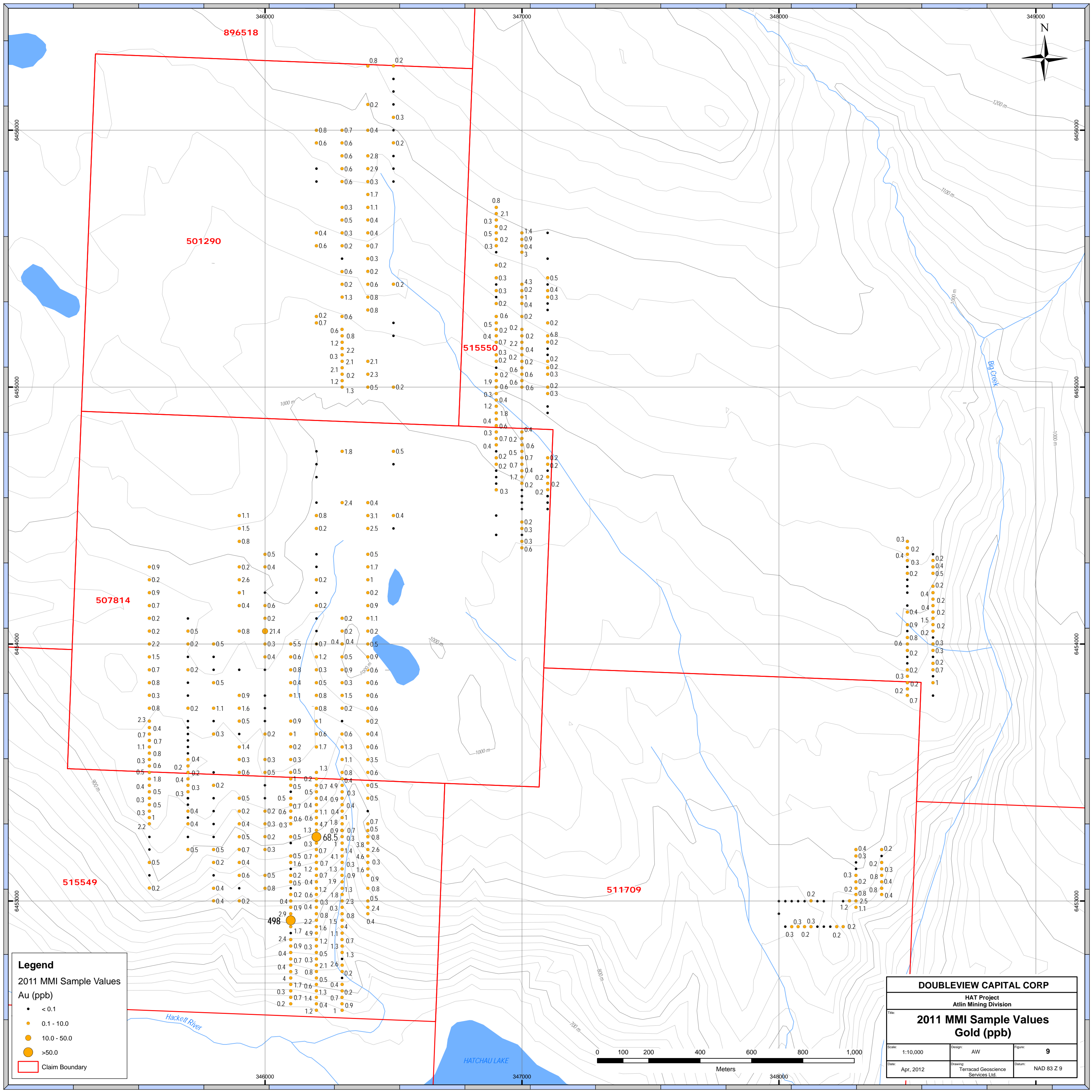
The author concludes that the 2011 program of MMI soil geochemical sampling and analyses confirms previous observations that the Hat property is highly prospective for the discovery of one or more important mineral zones,

possibly including (1) a porphyry-style copper-gold deposit, (2) an epithermal gold-multi-metal deposit and (3) a shear-hosted gold deposit. Recommendations for further determining the merits of the property are presented in Section 10 of this report.





<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
<b>2011 MMI Sample Locations</b>		
Scale:	1:10,000	Design: AW
Date:	Apr, 2012	Drawing: Terracad Geoscience Services Ltd.
Figure:	8	Datum: NAD 83 Z 9



**Legend**

2011 MMI Sample Values  
Au (ppb)

- <math>< 0.1</math>
- 0.1 - 10.0
- 10.0 - 50.0
- >50.0

□ Claim Boundary

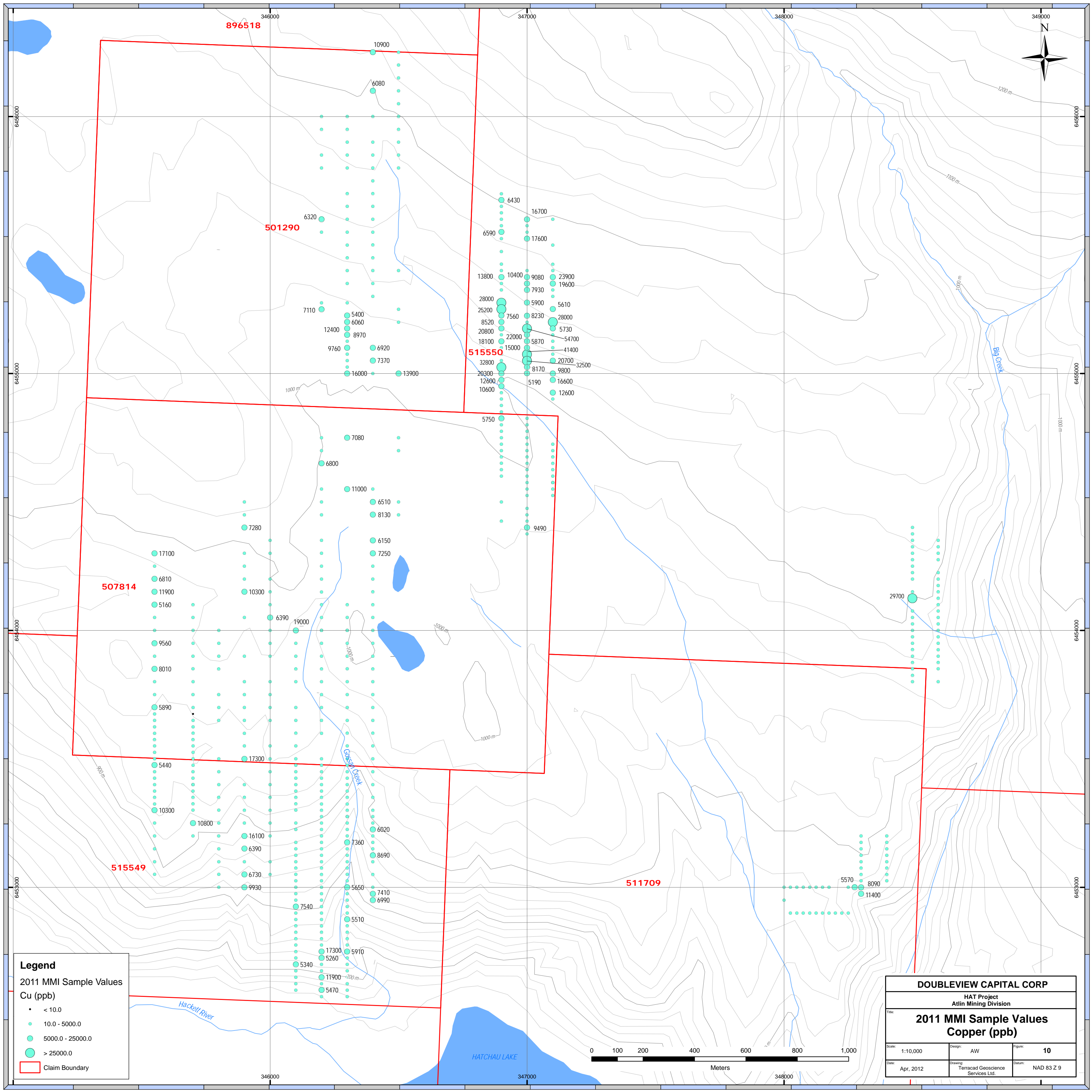
**DOUBLEVIEW CAPITAL CORP**

HAT Project  
Atlin Mining Division

**2011 MMI Sample Values  
Gold (ppb)**

Scale: 1:10,000	Design: AW	Figure: 9
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83 Z 9





**Legend**

2011 MMI Sample Values  
Cu (ppb)

- < 10.0
- 10.0 - 5000.0
- 5000.0 - 25000.0
- > 25000.0

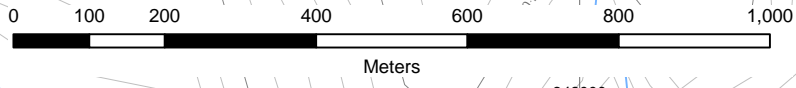
Claim Boundary

**DOUBLEVIEW CAPITAL CORP**

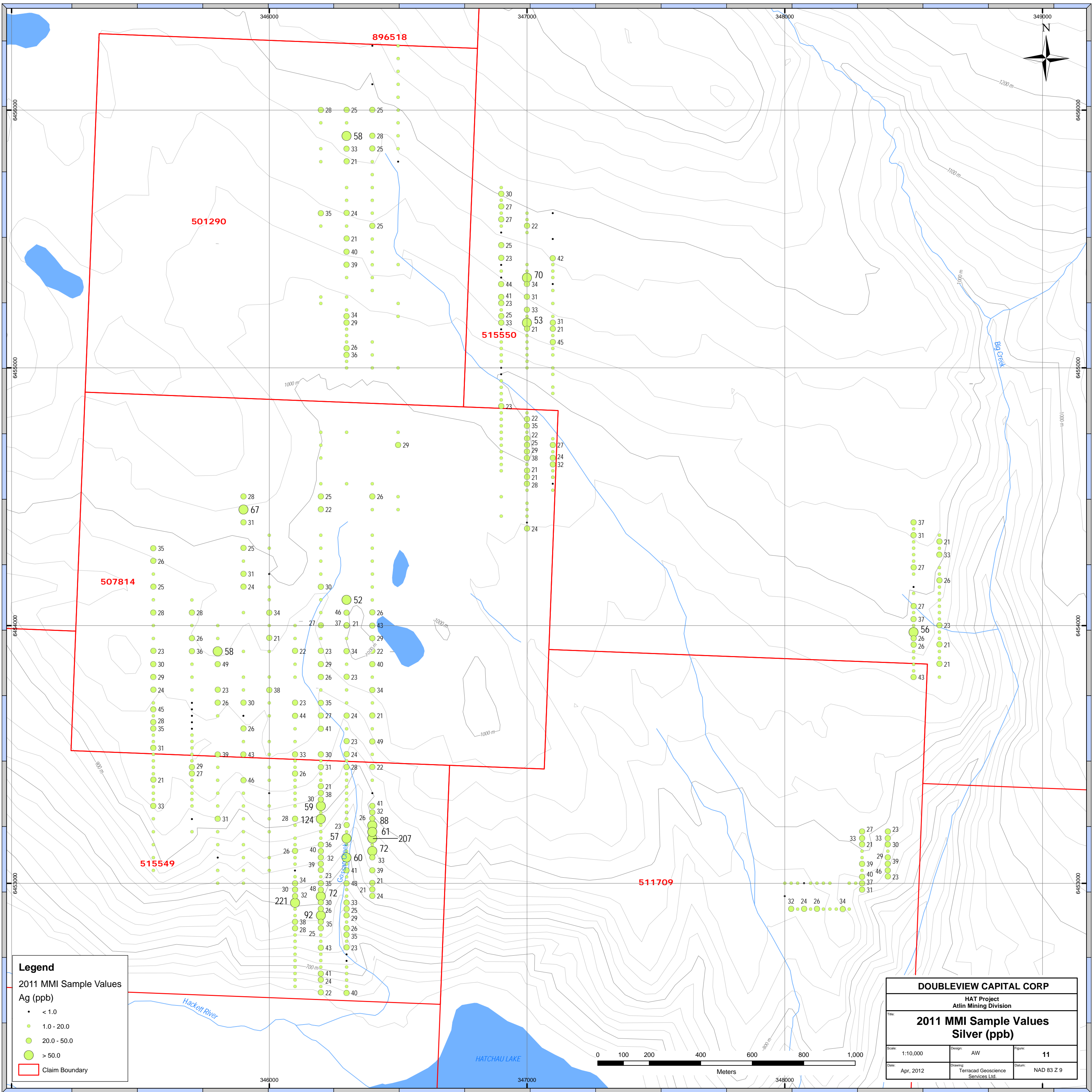
HAT Project  
Atlin Mining Division

**2011 MMI Sample Values  
Copper (ppb)**

Scale: 1:10,000	Design: AW	Figure: 10
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83 Z 9







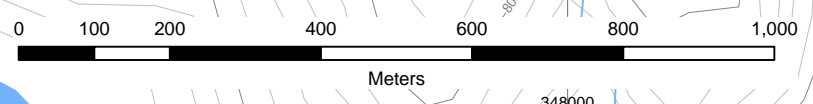
**Legend**

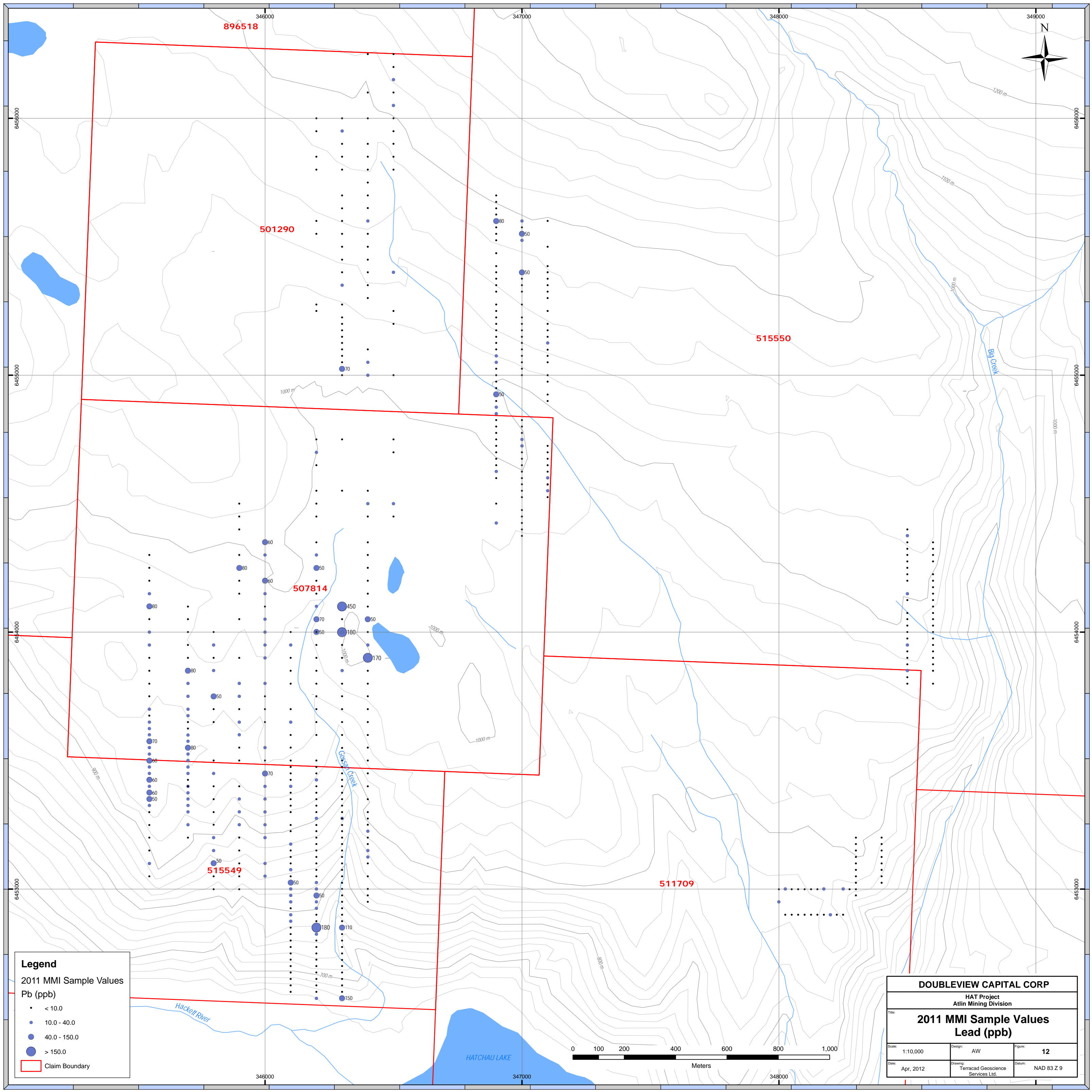
2011 MMI Sample Values  
Ag (ppb)

- < 1.0
- 1.0 - 20.0
- 20.0 - 50.0
- > 50.0

Claim Boundary

<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
<b>2011 MMI Sample Values Silver (ppb)</b>		
Scale: 1:10,000	Design: AW	Figure: 11
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83 Z 9





896518

501290

515550

507814

515549

511709

**Legend**

2011 MMI Sample Values  
Pb (ppb)

- < 10.0
- 10.0 - 40.0
- 40.0 - 150.0
- > 150.0

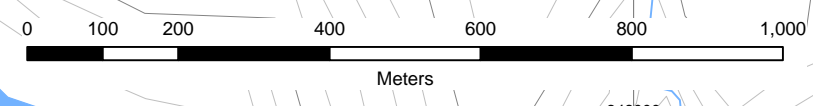
Claim Boundary

**DOUBLEVIEW CAPITAL CORP**

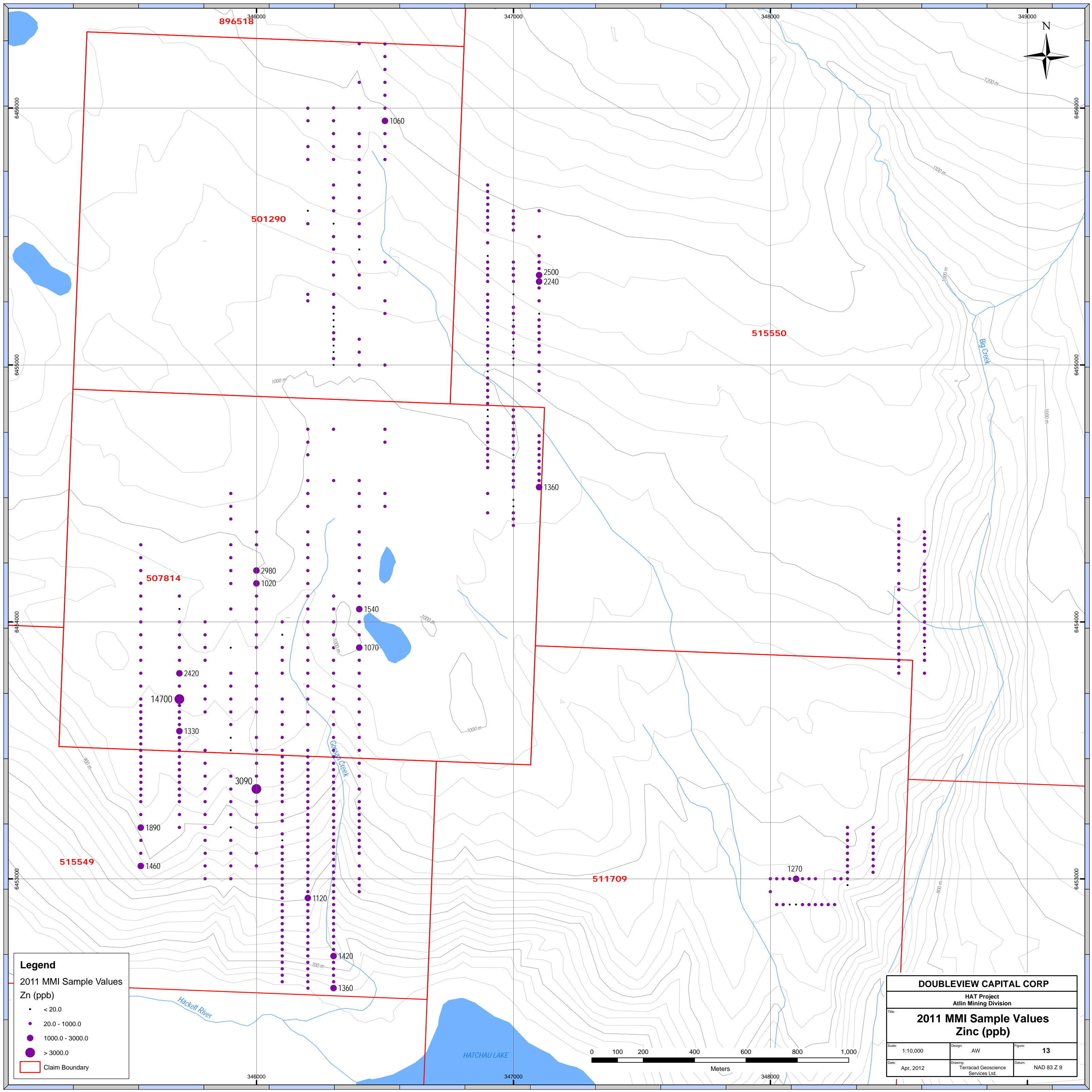
HAT Project  
Atlin Mining Division

**2011 MMI Sample Values  
Lead (ppb)**

Scale: 1:10,000	Design: AW	Figure: 12
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83 Z 9







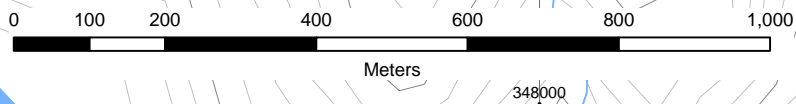
**Legend**

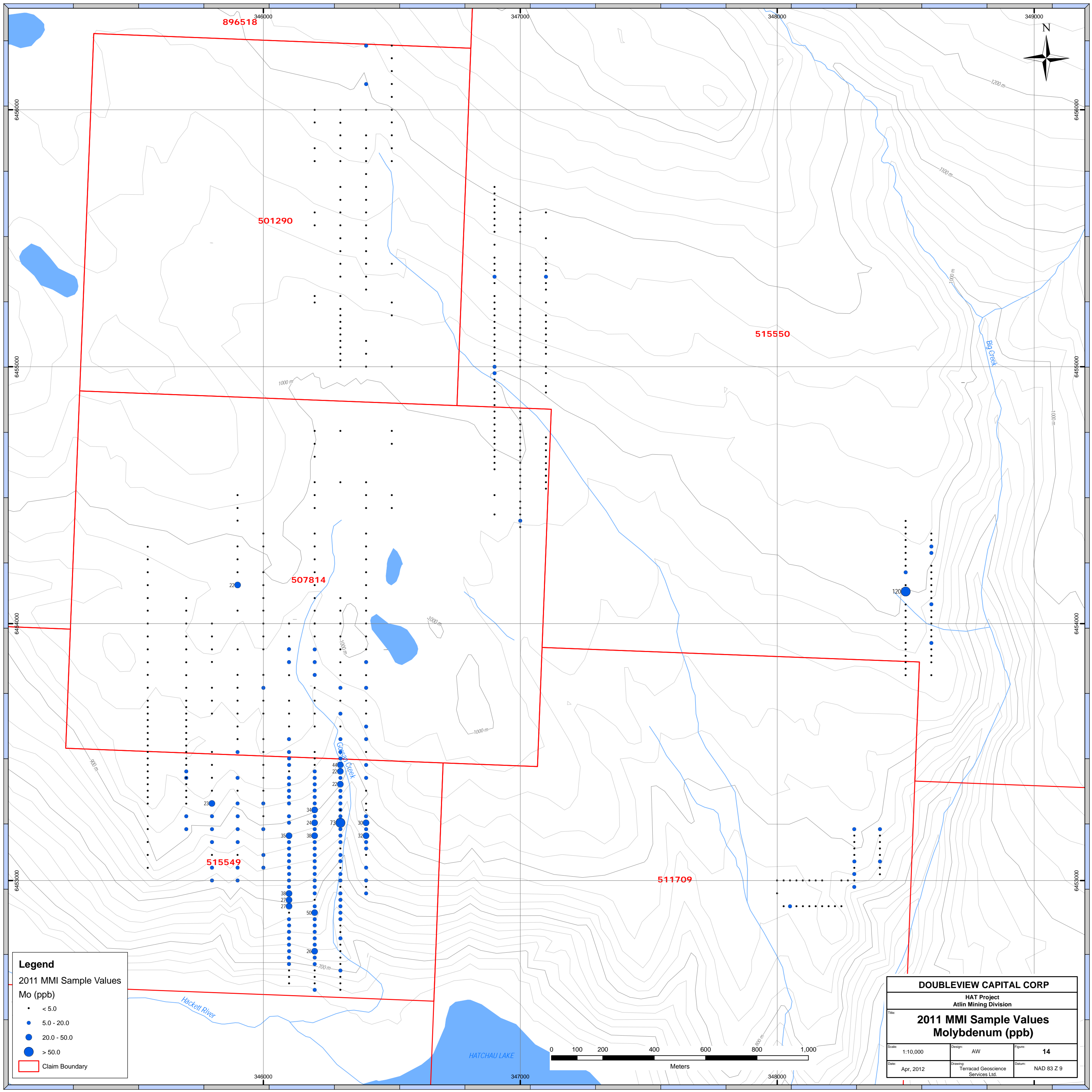
2011 MMI Sample Values  
Zn (ppb)

- < 20.0
- 20.0 - 1000.0
- 1000.0 - 3000.0
- > 3000.0

Claim Boundary

<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
<b>2011 MMI Sample Values Zinc (ppb)</b>		
Scale: 1:10,000	Design: AW	Figure: 13
Date: Apr, 2012	Drawing: Terraced Geoscience Services Ltd.	Datum: NAD 83 Z 9





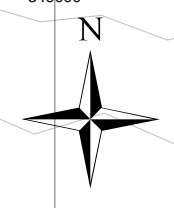
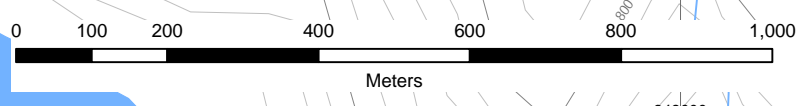
**Legend**

2011 MMI Sample Values  
Mo (ppb)

- < 5.0
- 5.0 - 20.0
- 20.0 - 50.0
- > 50.0

Claim Boundary

<b>DOUBLEVIEW CAPITAL CORP</b>		
HAT Project Atlin Mining Division		
<b>2011 MMI Sample Values Molybdenum (ppb)</b>		
Scale:	1:10,000	Design: AW
Date:	Apr, 2012	Drawing: Terracad Geoscience Services Ltd.
Figure:	14	Datum: NAD 83 Z 9



## 10. RECOMMENDATIONS

### Phase 1.

Prior to commencing work in the field, a further compilation of historic and ARIS report data relevant to the Property should be completed, followed by induced polarization geophysical surveys to confirm earlier (1978) geophysical data. Confirmation will be realized if geophysical data from (1) the Hoey area shows vertical persistence of chargeability/resistivity response to moderate depth (i.e. 200 metres or greater), (2) at the copper-gold geochemically anomalous area, if the historic strong N-1, N-3 patterns of chargeability are confirmed and extended to N-4 depth, (3) at Gossan Creek, if strong resistivity persists beneath the oxidized "cap", signifying persistence of silicification, especially if there is an increase in the strength of chargeability that would suggest the increasing presence of sulphide minerals. Such an increase will support the Buchanan exploration model of a strongly vertically zoned epithermal mineral zone of which only the uppermost portion is exposed.

Following receipt and evaluation of property data, a program of diamond drilling should be directed to the three target areas. Drilling is estimated to total 2500 metres in ten drill holes. The drilling will require much helicopter support.

### Phase 2.

A second phase of drilling will be determined on the basis of results obtained from the first ten drill holes. For planning purposes, Phase 2 drilling is expected to total 3500 metres in twenty drill holes.

## 11. REFERENCES

The following sources of information were consulted in the preparation of the accompanying technical report:

- ARIS: Assessment Report Indexing System – Geological Survey Branch reference library of assessment reports, accessible by internet
- Bostock, H. S., 1948, Physiography of the Canadian Cordillera, with special reference to the area north of the fifty-fifth parallel, Geol. Surv. Canada, Memoir 247
- Buchanan, L. J., 1981, Precious Metal Deposits Associated with Volcanic Environments in the Southwest, *in* Relations of Tectonics to Ore Deposits in the southern Cordillera, W. R. Dickenson and W. D. Payne (eds.), Arizona Geological Society Digest, v. 14, p. 237 - 262
- Currie, Lisel D. and Parrish, Randall R., 1997, Paleozoic and Mesozoic rocks of Stikinia exposed in northwestern British Columbia: Implications for correlations in the northern Cordillera, GSA Bull. Nov. 1997, v. 109, no. 11, pp 1402 – 1420.
- Gabrielse, H., 1998, Geology of the Cry Lake and Dease Lake Map Areas, North Central British Columbia, Geol. Surv. Canada, Bulletin 504.
- Ham, L. C., (1988), A Heritage Overview and Detailed Heritage Resources Impact Assessment of the Moon Property, Hackett River, Northwestern British Columbia, report for United Cambridge Mines Ltd., summarized in Assessment Report #18158
- Hoey, Frank, 1963, Hand written progress reports to Syndicate members, with descriptions of discoveries of gold-bearing rock outcrops, sketches and analyses
- Jackaman, W., and Friske, PWB, (2001) Regional Stream Sediment and Water Data, Dease Lake, British Columbia, (NTS 104J), BC RGS 55/GSCC Open File 4011
- Lisle, T. E., 1997, Geological and Geochemical Report on the Hat, Bob and Ken Mineral claims, Atlin Mining Division, Northwest British Columbia, Assessment Report #24935
- Lisle, T. E. and Ostensoe, E. A., 2005, Report on a Soil Geochemical Survey, Hat Project, Sheslay Mining District, Atlin Mining Division, Assessment Report #27932
- 2006, Report on a Soil Geochemical Survey, Hat Project, Sheslay Mining District, Atlin Mining Division, Assessment Report #28537
- 2008, Report on a Soil Geochemical Survey, Hat Project, Sheslay Mining District, Atlin Mining Division, British Columbia, Assessment Report #30372
- 2010, Soil Geochemical Survey on the Hat Property, Sheslay Mining District, Atlin Mining Division, British Columbia, Assessment Report #31178
- Minfile: Geological Survey Branch compilation of available information related to provincial mineral occurrences, accessible by Internet
- Ostensoe, E. A. And Lisle, T. E., 1996, Report of Work, Hat Project, Atlin Mining Division, Northwestern British Columbia, Assessment Report #24,388
- Thompson, W., 1988, Geochemical Survey of the Moon 1 – 4 claims (80 units), Atlin M. D., B. C., Report prepared for United Cambridge Mines Ltd. by Interex Development Corp., assessment report #18158.
- Schmidt, A., 1978, Linecutting and Geochemical Surveys, SKI property, Atlin Mining Division, B. C., Utah Mines Ltd., Assessment Report #6835.

Vyselaar, J., 1979, Combined Linecutting, Geochemical and Geophysical Report, SKI property, Atlin Mining Division, B. C., Utah Mines Ltd., Assessment Report #7482.

## 12. STATEMENT OF EXPENDITURES

The following expenditures were incurred in completion of the program of geochemical soil sampling and MMI analyses that are the subject of the accompanying report:

### Personnel – employed by Terracad Geoscience Services Ltd.

Farshad Shirvani, manager – 2 days @ \$600/day	\$ 1200.00
Erik Ostensoe, P. Geo., supervisor, 1 day @ \$600/day	\$ 600.00
Peter Burjoski, field supervisor, August 30 to September 19, 2011, 21 days @ \$600/day	\$ 12,600.00
Paul Hoffman, sampler, lead hand, August 30, to September 19, 2011, 21 days @ \$480/day	\$ 10,080.00
Scott Hamper, sampler, Aug. 31 to September 18, 2011, 19 days @ \$480/day	\$ 9,120.00
Jiovanni Woods, sampler, Aug. 31 to September 18, 2011, 19 days @ \$480/day	\$ 9,120.00
Colton Roe, sampler, Aug. 31 to September 18, 2011, 19 days @ \$480/day	\$ 9,120.00
Dana Lemaitre, sampler, Aug. 31 to September 18, 2011, 19 days @ \$480/day	\$ 9,120.00

### Transportation

Helicopter Services – Pacific Western Helicopters - as invoiced -	\$ 14,291.00
Four wheel drive Jeep Cherokee supplied by Terracad – Daily charge - 21 days @ \$100/day -	\$ 2,100.00
Mileage allowance @ \$0.35/km – incl. mob. from Vanderhoof to Dease Lake to Tahltan River (939 km) and demob. to Terrace (646 km) – 1585 km	\$ 555.00
Ford model 350 – FWD equipped – supplied by P. Burjoski - Daily charge 21 days @ \$120/day	\$ 2,520.00
Mileage allowance @ \$0.35/km incl. mob. from Vanderhoof to Dease Lake to Tahltan River and demob. to Terrace - 1585 km -	\$ 555.00

### Analytical Services

SGS Mineral Services – 479 soil samples analysed by MMI-M method: @ \$22.95/sample	\$ 10,993.00
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### Living Costs

Six persons for total of 118 person days, @ \$95/person/day -	\$ 10,620.00
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### Miscellaneous

Charges for complete field camp, tools, GPS (4), compasses (4), internet, SPOT, and satellite phone communications, first aid items (stretcher, backboard, et al.), consumables including flagging and sample bags - 21 days @ \$300/day

\$ 6,300.00

### Data and Report Preparation (Terracad Geoscience Services Ltd.)

Data assembly and plotting - ArcGIS, et al. -	
Farshad Shirvani - GIS specialist - 1 day @ \$600/day -	\$ 600.00
Anke Woodworth - GIS specialist - 3 days @ \$480/day -	\$ 1,440.00
Report - Erik Ostensoe, P. Geo., 2 days @ \$600/day -	\$ 1,200.00

Total Expenditures - \$121,134.00



### **13. AUTHOR'S QUALIFICATIONS**

Erik A. Ostensoe, P. Geo., an associate of Terracad Geoscience Services Ltd., prepared the accompanying text. Drawings, text and data were assembled by Terracad personnel. Ostensoe is a consulting geologist with many years experience in mineral exploration in western Canada and elsewhere and has much experience in exploration of porphyry-type copper, et al. deposits. He has participated in most of the recent work programs on the Hat property and is one of the vendors of the property to Doubleview.

## **APPENDIX: CERTIFICATES OF ANALYSIS**

SGS Mineral Services

TO 116852 - 83 soils

TO 116853 - 74 soils

TO 116854 - 64 soils

TO 116858 - 79 soils

TO 116859 - 78 soils

TO 116860 - 101 soils



## Certificate of Analysis

Work Order: TO116852

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 25, 2011

P.O. No. : -  
Project No. : THE HAT  
No. Of Samples : 85  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 4  
(Inclusive of Cover Sheet)

Certified By :

Lawrence Ng  
Regional Business Manager (GEOCHEM)

**SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>**

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

This document is issued by the Company under its General Conditions of Service accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

**WARNING:** The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : TO116852 Order:

Element Method Det.Lim. Units	Ag MMI-M5	As MMI-M5	Au MMI-M5	Cu MMI-M5	Mn MMI-M5	Mo MMI-M5	Pb MMI-M5	Zn MMI-M5
	1	10	0.1	10	10	5	10	20
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 348300 6453200	27	<10	0.4	1080	5710	8	<10	420
Line 348300 6453175	33	<10	0.3	850	4750	<5	10	100
Line 348300 6453150	21	<10	<0.1	330	1550	<5	<10	800
Line 348300 6453125	13	<10	<0.1	370	16600	<5	<10	260
Line 348300 6453100	12	<10	0.3	800	3400	<5	<10	270
Line 348300 6453075	39	<10	0.2	850	4370	6	<10	530
Line 348300 6453050	19	<10	0.2	2140	6380	<5	<10	100
Line 348300 6453025	40	<10	0.8	3270	8780	10	<10	100
Line 348300 6453000	37	10	2.5	8090	4970	<5	<10	110
Line 348300 6452975	31	<10	1.1	11400	3770	12	<10	20
Line 6453000 348275	13	<10	1.2	5570	5540	<5	<10	670
Line 6453000 348250	2	<10	0.1	1730	7080	<5	30	490
Line 6453000 348175	4	<10	<0.1	520	7790	<5	30	560
Line 6453000 348150	7	<10	0.1	540	2690	<5	<10	300
Line 6453000 348125	4	<10	0.2	610	5440	<5	<10	670
Line 6453000 348100	4	<10	<0.1	330	4230	<5	<10	1270
Line 6453000 348075	<1	<10	<0.1	150	8390	<5	10	980
Line 6453000 348050	5	<10	<0.1	310	1510	<5	<10	70
Line 6453000 348025	3	<10	<0.1	420	6340	<5	30	220
Line 6453000 348000	3	<10	<0.1	520	3260	<5	10	50
Line 6452900 348250	2	<10	0.2	1060	7170	<5	10	210
Line 6452900 348225	34	<10	0.2	1580	1730	<5	<10	660
Line 6452900 348200	7	<10	0.1	830	5090	<5	20	600
Line 6452900 348175	11	<10	0.1	920	2570	<5	<10	150
Line 6452900 348150	6	<10	0.1	500	5860	<5	10	270
Line 6452900 348125	26	<10	0.3	1670	5810	<5	<10	50
Line 6452900 348100	11	<10	0.2	630	1670	<5	10	20
Line 6452900 348075	24	<10	0.3	1330	3920	<5	<10	<20
Line 6452900 348050	16	<10	0.3	2040	1020	6	<10	30
Line 6452900 348025	32	<10	0.1	880	1320	<5	<10	40
Line 6452950 348000	1	<10	0.1	580	8260	<5	40	90
Line 348400 6453200	23	<10	0.2	810	5670	10	<10	330
Line 348400 6453175	33	<10	0.1	2510	4400	<5	<10	200
Line 348400 6453150	30	<10	0.2	2140	1870	<5	<10	120
Line 348400 6453125	10	<10	0.3	690	10400	<5	<10	540
Line 348400 6453100	29	<10	0.8	2800	2780	<5	<10	50
Line 348400 6453075	39	<10	0.4	1170	3360	6	<10	220
Line 348400 6453050	46	<10	0.8	2890	2070	<5	<10	50
Line 348400 6453025	23	<10	0.4	1570	3740	<5	<10	180
Line 348500 4653800	43	<10	0.7	850	4080	<5	<10	40
Line 438500 6453825	19	<10	0.2	490	5120	<5	<10	70
Line 348500 6453850	11	<10	0.2	590	2660	<5	20	170
Line 438500 6453875	6	<10	0.3	2070	1790	<5	<10	60

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Final : TO116852 Order:

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
Line 348500 6453900	18	<10	0.2	420	7050	<5	<10	250
Line 438500 4653925	26	<10	0.1	360	2200	<5	<10	110
Line 438500 4653950	26	<10	<0.1	500	2930	<5	20	640
Line 348500 4653975	56	<10	0.2	1400	2960	<5	<10	710
Line 348500 6454000	19	<10	0.6	2440	3980	<5	<10	110
Line 438500 4654025	37	<10	0.8	780	5730	<5	<10	630
Line 348500 4654050	16	<10	0.1	290	2350	<5	<10	220
Line 438500 6454075	27	<10	0.9	620	7420	<5	<10	60
Line 348500 6454125	3	20	0.4	29700	29100	120	<10	70
Line 348500 6454150	1	<10	<0.1	640	5020	<5	30	110
Line 348500 6454175	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 348500 6454200	10	<10	0.1	470	11000	6	<10	100
Line 348500 6454225	27	<10	0.1	1550	41500	<5	<10	110
Line 348500 6454250	11	<10	<0.1	250	5760	<5	<10	420
Line 348500 6454275	17	<10	0.2	460	2380	<5	<10	150
Line 348500 6454300	5	<10	<0.1	620	1720	<5	10	240
Line 348500 6454325	10	<10	0.3	1340	15200	<5	<10	100
Line 348500 6454350	31	<10	0.4	1330	5390	<5	10	130
Line 348500 6454375	12	<10	0.2	300	12500	<5	20	640
Line 348500 6454400	37	<10	0.3	290	2390	<5	<10	640
Line 348600 6454350	10	<10	0.1	670	4980	<5	10	340
Line 348600 6454325	21	<10	0.2	430	3700	<5	<10	790
Line 348600 6454300	20	<10	0.4	1350	3530	9	<10	80
Line 438600 6454275	33	<10	0.5	1640	4390	8	<10	100
Line 438600 6454225	15	<10	0.2	710	2300	<5	<10	240
Line 438600 6454200	11	<10	0.4	930	2800	<5	<10	80
Line 438600 6454175	26	<10	0.2	1120	9280	<5	<10	60
Line 438600 6454150	9	<10	0.4	1200	18500	<5	<10	70
Line 438600 6454125	9	<10	0.2	610	1770	<5	<10	80
Line 438600 6454100	16	<10	1.5	3220	3290	<5	<10	110
Line 348600 6454075	10	<10	0.2	2700	71400	14	<10	30
Line 348600 6454050	13	<10	0.2	630	3960	<5	<10	160
Line 348600 6454025	8	<10	0.1	280	1480	<5	<10	80
Line 348600 6454000	23	<10	0.3	460	5150	<5	<10	190
Line 348600 6453975	19	<10	0.3	1160	3700	<5	<10	230
Line 348600 6453950	3	<10	<0.1	120	1310	<5	<10	60
Line 348600 6453925	21	<10	0.2	210	1340	7	<10	400
Line 348600 6453900	15	<10	0.7	310	480	<5	<10	20
Line 348600 6453875	11	<10	0.1	370	1620	<5	10	80
Line 348600 6453850	21	30	1.0	310	2030	<5	<10	150
Line 348600 6453800	8	<10	0.1	450	1040	<5	<10	50
Line 6452950 348000	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Rep Line 348300 6453050	21	<10	0.2	2130	10400	6	<10	90

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Final : TO116852 Order:

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
*Rep Line 6453000 348025	6	<10	<0.1	480	4520	<5	30	70
*Rep Line 6452900 348075	25	<10	0.3	1450	5160	<5	<10	20
*Rep Line 348500 6453850	12	<10	0.2	590	2400	<5	20	170
*Rep Line 348500 6454150	1	<10	<0.1	470	4550	<5	30	70
*Rep Line 348582 6454225	15	<10	0.2	760	2230	<5	<10	210
*Rep Line 348600 6453850	21	30	1.1	310	2030	<5	<10	130
*Std MMISRM16	18	10	25.7	540	100	44	60	230
*Std AMISO169	7	<10	0.4	3370	3520	<5	100	190
*Std MMISRM18	28	<10	10.4	760	540	32	260	750
*Bik BLANK	<1	<10	<0.1	<10	20	<5	<10	<20
*Bik BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20
*Bik BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20

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# Certificate of Analysis

Work Order: TO116853

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 18, 2011

P.O. No. : -  
Project No. : THE HAT  
No. Of Samples : 74  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 3  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

Discard after 90 days:

Certified By :   
Lawrence Ng  
Regional Business Manager (GEOCHEM)

**SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>**

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Final : TO116853 Order:

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
Line 346300 6456000	25	<10	0.7	4700	1780	<5	<10	50
Line 346300 6455950	14	<10	0.6	1970	2500	<5	30	190
Line 346300 6455900	58	<10	0.6	2290	9980	<5	<10	160
Line 346300 6455850	33	<10	0.6	1650	4300	<5	10	70
Line 346300 6455800	21	<10	0.6	1530	1810	<5	<10	80
Line 346300 6455700	17	<10	0.3	230	820	<5	<10	50
Line 346300 6455650	18	<10	0.5	670	3970	<5	<10	100
Line 346300 6455600	24	<10	0.3	260	1870	<5	<10	40
Line 346300 6455550	17	<10	0.2	800	770	<5	<10	20
Line 346300 6455500	21	<10	0.1	1490	3680	<5	<10	70
Line 346300 6455450	40	<10	0.6	2150	9840	<5	10	190
Line 346300 6455400	39	<10	0.2	4540	3770	<5	<10	210
Line 346300 6455350	17	<10	1.3	3200	8580	<5	20	160
Line 346300 6455275	19	<10	0.6	4720	1070	<5	<10	30
Line 346300 6455225	16	<10	0.6	5400	7670	<5	<10	30
Line 346300 6455200	34	<10	0.8	6060	1550	<5	<10	<20
Line 346300 6455175	29	<10	1.2	12400	860	<5	<10	20
Line 346300 6455150	16	<10	2.2	8970	340	<5	<10	<20
Line 346300 6455125	6	<10	0.3	780	1870	<5	10	40
Line 346300 6455100	11	<10	2.1	9760	8540	<5	<10	40
Line 346300 6455075	26	<10	2.1	2350	620	<5	<10	<20
Line 346300 6455050	36	<10	0.2	3050	1880	<5	<10	<20
Line 346300 6455025	6	<10	1.2	3330	2450	<5	70	60
Line 346300 6455000	18	<10	1.3	16000	1760	<5	<10	20
Line 346300 6454750	10	<10	1.8	7080	5730	<5	10	50
Line 346300 6454550	13	<10	2.4	11000	7360	<5	<10	40
Line 346300 6454100	52	<10	0.2	750	2820	<5	450	440
Line 346300 6454050	46	<10	0.2	560	1960	<5	10	390
Line 346300 6454000	37	<10	0.4	680	2320	<5	180	310
Line 346300 6453375	15	<10	0.4	2570	3520	22	<10	100
Line 346300 6453400	5	<10	0.9	780	16100	12	<10	610
Line 346300 6453425	15	<10	0.3	2670	4620	22	<10	160
Line 346300 6453450	28	<10	4.9	4640	27100	44	<10	70
Line 346300 6453475	7	<10	0.4	630	21600	9	<10	320
Line 346300 6453800	23	<10	1.5	1560	7910	<5	<10	170
Line 346300 6453850	9	<10	0.3	420	4150	<5	20	190
Line 346300 6453900	34	<10	0.9	470	5810	<5	10	280
Line 346300 6453950	16	<10	0.5	620	1550	<5	<10	110
Line 346300 6454000 A	21	<10	0.4	320	3470	<5	20	540
Line 346400 6456250	<1	<10	0.8	10900	18400	7	<10	30
Line 346400 6456100	<1	<10	0.2	6080	13000	13	<10	30
Line 346400 6456000	25	<10	0.4	1810	4090	<5	<10	90
Line 346400 6455900	28	<10	2.8	4480	3400	<5	<10	110

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Final : TO116853 Order:

Element Method Det.Lim. Units	Ag MMI-M5	As MMI-M5	Au MMI-M5	Cu MMI-M5	Mn MMI-M5	Mo MMI-M5	Pb MMI-M5	Zn MMI-M5
	1	10	0.1	10	10	5	10	20
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 346400 6455850	25	<10	2.9	3070	3900	<5	10	90
Line 346400 6455800	12	<10	0.3	860	1590	<5	10	60
Line 346400 6455750	18	<10	1.7	3800	1030	<5	<10	30
Line 346400 6455700	14	<10	1.1	880	3290	<5	10	80
Line 346400 6455650	17	<10	0.4	890	5210	<5	<10	80
Line 346400 6455600	11	<10	0.4	790	10400	<5	20	250
Line 346400 6455550	25	<10	0.7	2840	3070	<5	<10	80
Line 346400 6455500	6	<10	0.3	680	2990	<5	<10	40
Line 346400 6455450	19	<10	0.2	1200	670	<5	<10	<20
Line 346400 6455400	19	<10	0.6	1950	5590	<5	<10	70
Line 346400 6455350	8	<10	0.8	2060	11000	<5	10	220
Line 346400 6455300	9	<10	0.8	2750	23800	<5	<10	40
Line 346400 6455100	20	<10	2.1	6920	10800	<5	<10	110
Line 346400 6455050	18	<10	2.3	7370	4890	<5	20	60
Line 346400 6455000	7	<10	0.5	3900	4550	<5	20	40
Line 346400 6454550	13	<10	0.4	970	5220	<5	10	110
Line 346400 6454500	26	<10	3.1	6510	5810	<5	20	90
Line 346400 6454450	11	<10	2.5	8130	1490	<5	<10	40
Line 346400 6454350	10	<10	0.5	6150	6680	<5	10	120
Line 346400 6454300	13	<10	1.7	7250	4440	<5	<10	30
Line 346400 6454250	14	<10	1.0	1760	2760	<5	<10	50
Line 346400 6454200	5	<10	0.2	550	3130	<5	<10	120
Line 346400 6454150	16	<10	0.9	910	2830	<5	<10	200
Line 346400 6454050	26	<10	0.2	2330	1480	<5	50	1540
Line 346400 6454000	43	<10	0.5	1760	3600	<5	<10	250
Line 346400 6453950	29	<10	0.9	1280	8470	<5	40	550
Line 346400 6453900	22	<10	0.6	620	11800	<5	170	1070
Line 346400 6453850	40	<10	0.6	1270	10700	7	<10	290
Line 346400 6453800	14	<10	0.6	740	4470	<5	<10	320
Line 346400 6453750	34	<10	0.6	1220	6710	7	<10	160
Line 346400 6453700	3	<10	0.2	290	4050	<5	<10	140
*Rep Line 346300 6456000	24	<10	0.9	4960	2130	<5	<10	50
*Rep Line 346300 6455125	5	<10	0.3	700	1790	<5	20	40
*Rep Line 346300 6453900	34	<10	0.7	450	6730	<5	10	370
*Rep Line 346400 6455650	18	<10	0.4	840	4170	<5	<10	80
*Rep Line 346400 6454550	15	<10	1.1	1630	10900	<5	<10	110
*Rep Line 346400 6454000	46	<10	0.6	2200	4070	<5	<10	220
*Std MMISRM16	21	<10	29.6	750	130	51	120	260
*Std AMISO169	9	10	0.7	3990	4030	<5	120	220
*Blk BLANK	<1	<10	<0.1	<10	20	<5	<10	<20
*Blk BLANK	<1	<10	<0.1	20	20	<5	<10	<20

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## Certificate of Analysis

Work Order: TO116853A

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 19, 2011

P.O. No. : -  
Project No. : THE HAT  
No. Of Samples : 58  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 3  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

Discard after 90 days:

Certified By :

Lawrence Ng  
Regional Business Manager (GEOCHEM)

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Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Final : TO116853A Order:

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
Line 346400 6453650	21	<10	0.4	360	3750	<5	<10	100
Line 346400 6453600	18	<10	0.6	700	4200	8	<10	80
Line 346400 6453550	49	<10	3.5	980	17000	9	<10	30
Line 346400 6453500	19	<10	0.6	880	12900	5	<10	230
Line 346400 6453450	22	<10	0.5	470	12600	7	<10	210
Line 346400 6453400	15	<10	0.5	770	21700	12	<10	130
Line 346400 6453350	1	<10	0.1	910	6200	<5	<10	780
Line 346400 6453300	41	<10	0.7	1560	13100	<5	<10	510
Line 346400 6453275	32	<10	0.5	970	20900	5	<10	650
Line 346400 6453250	26	<10	0.8	1560	21700	19	<10	460
Line 346400 6453225	88	<10	3.8	6020	16200	30	20	180
Line 346400 6453200	61	<10	2.6	820	29600	12	<10	60
Line 346400 6453175	207	<10	4.6	3360	14100	32	<10	150
Line 346400 6453150	18	<10	0.3	960	5310	8	20	450
Line 346400 6453125	72	<10	1.6	8690	8320	15	20	510
Line 346400 6453100	33	<10	0.9	1580	12900	<5	<10	770
Line 346400 6453050	39	<10	0.8	4890	13600	8	<10	380
Line 346400 6453000	21	<10	0.5	1110	18100	10	<10	110
Line 346400 6452975	21	<10	2.4	7410	10800	<5	<10	220
Line 346400 6452950	24	<10	0.4	6990	7700	8	<10	120
Line 346300 6452575	40	<10	1.0	4130	12900	<5	150	1360
Line 346300 6452600	13	<10	0.9	4460	9330	<5	<10	30
Line 346300 6452625	13	<10	0.7	730	33600	5	<10	70
Line 346300 6452650	20	<10	0.2	760	3000	7	<10	220
Line 346300 6452675	7	<10	0.4	4880	26100	5	<10	80
Line 346300 6452700	<1	<10	<0.1	180	8390	<5	<10	1420
Line 346300 6452725	1	<10	0.2	3560	9640	<5	10	130
Line 346300 6452750	23	10	2.6	5910	17000	<5	<10	30
Line 346300 6452775	2	<10	<0.1	740	20900	6	<10	200
Line 346300 6452800	35	20	1.3	700	14600	<5	<10	200
Line 346300 6452825	26	<10	1.3	1210	45000	5	<10	50
Line 346300 6452850	16	<10	0.7	1000	19000	11	110	680
Line 346300 6452875	29	<10	1.1	5510	24400	9	<10	90
Line 346300 6452900	25	<10	4.0	3820	20400	20	10	40
Line 346300 6452925	33	<10	1.5	3670	29600	9	10	130
Line 346300 6452950	13	10	0.8	600	22700	18	10	530
Line 346300 6452975	8	<10	0.3	290	9910	<5	10	550
Line 346300 6453000	48	<10	2.3	5650	31300	10	<10	40
Line 346300 6453025	19	30	1.8	2190	26300	12	<10	50
Line 346300 6453050	41	<10	1.3	1430	8430	<5	<10	100
Line 346300 6453075	14	<10	1.9	3100	24500	11	<10	30
Line 346300 6453100	60	<10	0.9	2650	16800	10	<10	70
Line 346300 6453125	11	<10	1.3	1780	10800	<5	10	160

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Final : TO116853A Order:

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
Line 346300 6453150	17	<10	0.3	1340	7180	13	<10	120
Line 346300 6453175	57	<10	4.1	7360	18600	14	<10	40
Line 346300 6453200	17	<10	1.4	2140	12600	10	<10	40
Line 346300 6453225	23	<10	1.0	1030	29900	73	<10	240
Line 346300 6453250	2	<10	0.3	910	22400	12	<10	530
Line 346100 6453275	4	<10	0.9	1010	30900	<5	<10	260
Line 346300 6453300	14	<10	1.8	2270	14700	13	<10	100
Line 346300 6453325	6	<10	1.0	2030	10400	9	<10	230
Line 346300 6453350	17	<10	0.4	830	9850	9	<10	220
Line 346300 6453500	24	<10	0.8	1400	12900	8	<10	80
Line 346300 6453550	23	<10	1.1	1150	9710	10	10	50
Line 346300 6453600	19	<10	1.3	2080	4320	<5	<10	100
Line 346300 6453650	24	<10	0.6	560	9710	7	<10	60
Line 346300 6453700	11	<10	0.1	360	1820	<5	<10	70
Line 346300 6453750	17	<10	0.2	310	3040	8	<10	280
*Rep Line 346400 6453300	43	<10	0.7	1860	12700	6	<10	250
*Rep Line 346400 6452975	22	<10	2.6	8680	11700	<5	<10	150
*Rep Line 346300 6452875	29	<10	1.1	5160	22400	8	<10	100
*Rep Line 346300 6453250	2	<10	0.2	1020	18800	8	<10	840
*Rep Line 346300 6453750	19	<10	0.2	320	3500	10	<10	330
*Std MMISRM16	17	10	21.7	610	30	44	80	220
*Std AMIS0169	9	<10	1.6	4050	3740	<5	110	190
*Bik BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20
*Bik BLANK	<1	<10	<0.1	<10	10	<5	<10	<20

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## Certificate of Analysis

Work Order: TO116854

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 28, 2011

P.O. No. : Project:HAT  
Project No. : THE HAT  
No. Of Samples : 70  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 3  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

Discard after 90 days:

**Comments:**

LNR:Line 346200 6453550

Certified By :

Lawrence Ng

Regional Business Manager (GEOCHEM)

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Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element Method Det.Lim. Units	Ag MMI-M5 ppb	As MMI-M5 ppb	Au MMI-M5 ppb	Cu MMI-M5 ppb	Mn MMI-M5 ppb	Mo MMI-M5 ppb	Pb MMI-M5 ppb	Zn MMI-M5 ppb
Line 346200 6452575	22	<10	1.2	1690	20900	11	40	810
Line 346200 6452600	19	<10	0.4	5470	7470	<5	<10	100
Line 346200 6452625	24	<10	1.4	4630	20100	<5	<10	40
Line 346200 6452650	41	<10	1.3	11900	12700	<5	<10	40
Line 346200 6452675	18	<10	0.6	4450	7830	7	<10	200
Line 346200 6452700	6	<10	0.5	2600	2250	12	10	230
Line 346200 6452725	18	<10	0.8	5260	14300	26	<10	60
Line 346200 6452750	43	<10	2.1	17300	8080	13	<10	150
Line 346200 6452775	14	<10	0.3	1470	5290	6	10	910
Line 346200 6452800	20	<10	0.5	1050	15200	9	<10	330
Line 346200 6452825	25	<10	0.3	610	7320	10	30	210
Line 346200 6452850	35	<10	1.2	1390	17900	15	180	670
Line 346200 6452875	92	<10	4.9	3610	17200	50	<10	50
Line 346200 6452900	26	10	1.6	4620	3310	19	<10	310
Line 346200 6452925	30	<10	2.2	2680	11200	5	20	1120
Line 346200 6452950	72	<10	0.8	820	9870	20	40	260
Line 346200 6452975	48	<10	0.4	760	5520	12	50	360
Line 346200 6453000	35	<10	0.3	1050	4760	12	30	230
Line 346200 6453025	19	<10	0.6	1860	10300	7	40	120
Line 346200 6453050	23	<10	1.2	1750	19900	14	<10	260
Line 346200 6453075	39	<10	0.4	1020	4060	15	<10	340
Line 346200 6453100	32	<10	0.7	1190	2180	9	10	60
Line 346200 6453125	40	<10	1.2	1770	11700	7	10	140
Line 346200 6453150	36	<10	0.7	1900	13200	10	<10	70
Line 346200 6453175	8	<10	0.7	110	16200	38	10	240
Line 346200 6453200	10	<10	0.7	550	8160	13	<10	100
Line 346200 6453225	9	<10	0.3	1230	1930	24	<10	200
Line 346200 6453250	124	<10	68.5	4760	1380	8	<10	30
Line 346200 6453275	17	<10	1.3	580	8320	34	30	210
Line 346200 6453300	59	<10	4.7	4150	4140	11	<10	40
Line 346200 6453325	30	<10	0.6	1530	6560	12	<10	150
Line 346200 6453350	38	<10	1.1	2060	4680	12	<10	140
Line 346200 6453375	21	<10	0.4	3650	3470	9	<10	450
Line 346200 6453400	17	<10	0.4	1410	4840	6	10	500
Line 346200 6453425	20	<10	0.5	900	5840	8	20	250
Line 346200 6453450	31	<10	0.7	1160	3030	<5	10	110
Line 346200 6453475	16	<10	0.2	330	3270	<5	10	100
Line 346200 6453550	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 346200 6453600	41	<10	1.7	1810	6500	<5	<10	40
Line 346200 6453650	27	<10	0.6	1100	3700	<5	<10	50
Line 346200 6453700	35	<10	1.0	1780	3510	<5	<10	30
Line 346200 6453750	16	<10	0.8	1480	7600	<5	10	70
Line 346200 6453800	26	<10	0.8	3810	1550	14	<10	50

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Final : TO116854 Order: Project:HAT

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
Line 346200 6453850	29	<10	0.5	2530	2390	6	<10	60
Line 346200 6453900	23	<10	0.3	660	2360	6	<10	120
Line 346200 6453950	17	<10	1.2	4310	3450	<5	10	40
Line 346200 6454000	27	<10	0.7	2530	1290	<5	<10	90
Line 346200 6456000	28	<10	0.8	1830	2560	<5	<10	100
Line 346200 6455950	8	<10	0.6	2050	5310	<5	<10	700
Line 346200 6455850	19	<10	0.1	1170	1490	<5	<10	250
Line 346200 6455800	13	<10	<0.1	1040	910	<5	<10	40
Line 346200 6455600	35	<10	0.4	6320	1850	<5	<10	20
Line 346200 6455450	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 634200 6455275	8	<10	0.2	560	2600	<5	<10	50
Line 634200 6455250	14	<10	0.7	7110	1580	<5	<10	40
Line 634200 6454100	4	<10	0.1	1270	3810	<5	30	90
Line 634200 6454750	8	<10	0.1	730	4930	<5	10	50
Line 346200 6454700	9	<10	0.1	820	4850	<5	30	220
Line 346200 6454650	13	<10	0.1	6800	3150	<5	<10	110
Line 346200 6454550	10	<10	0.1	1130	370	<5	10	100
Line 346200 6454500	25	<10	0.8	1510	2930	<5	<10	50
Line 346200 6454450	22	<10	0.2	1090	1270	<5	<10	80
Line 346200 6455400	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 346200 6454300	5	<10	0.1	1180	5730	<5	40	90
Line 346200 6454250	3	<10	0.2	1440	4320	<5	50	70
Line 346200 6454200	18	<10	0.1	750	2030	<5	<10	40
Line 346200 6454150	30	<10	0.2	1580	2270	<5	<10	150
Line 346200 6455100	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 346200 6455050	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 346200 6455000	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Rep Line 346200 6452750	45	<10	2.3	17800	8500	12	<10	110
*Rep Line 346200 6452925	33	<10	2.0	3110	10100	6	20	810
*Rep Line 346200 6453375	20	<10	0.6	4040	3090	12	<10	320
*Rep Line 346200 6455600	32	<10	0.3	5930	1980	<5	<10	<20
*Rep Line 346200 6455300	4	<10	0.1	1110	5920	<5	40	100
*Rep Line 346200 6455100	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Std MMISRM16	22	10	30.4	670	110	46	80	270
*Std AMISO169	8	<10	0.5	3870	4010	<5	110	210
*BIK BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20
*BIK BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20

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## Certificate of Analysis

Work Order: TO116854A

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 28, 2011

P.O. No. : Project:HAT  
Project No. : -  
No. Of Samples : 51  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 3  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

Discard after 90 days:

Certified By :

Lawrence Ng  
Regional Business Manager (GEOCHEM)

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Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element Method Det.Lim. Units	Ag MMI-M5	As MMI-M5	Au MMI-M5	Cu MMI-M5	Mn MMI-M5	Mo MMI-M5	Pb MMI-M5	Zn MMI-M5
	1	10	0.1	10	10	5	10	20
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 346100 6452600	7	<10	0.2	2270	4220	<5	<10	210
Line 346100 6452625	11	<10	0.7	3160	4240	<5	<10	30
Line 346100 6452650	6	<10	0.3	1380	6640	<5	<10	150
Line 346100 6452675	16	<10	1.7	4030	15200	9	<10	60
Line 346100 6452700	19	10	4.0	5340	13200	14	<10	80
Line 346100 6452725	15	10	3.0	4900	9070	7	<10	50
Line 346100 6452750	7	<10	0.4	1520	11100	10	<10	70
Line 346100 6452775	6	<10	0.7	910	15000	9	<10	220
Line 346100 6452800	10	<10	0.4	340	13200	13	<10	460
Line 346100 6452825	28	<10	0.9	990	6120	8	<10	130
Line 346100 6452850	38	<10	2.4	1030	7440	16	<10	480
Line 346100 6452875	3	<10	0.1	190	1330	<5	20	70
Line 346100 6452900	15	10	1.7	1260	15300	27	40	190
Line 346100 6452925	221	190	498	7540	13000	27	<10	250
Line 346100 6452950	32	10	2.9	1510	11300	38	30	180
Line 346100 6452975	30	<10	0.9	1020	6970	10	40	350
Line 346100 6453000	34	<10	0.4	850	5250	11	20	450
Line 346100 6453025	13	<10	0.2	170	12600	7	50	240
Line 346100 6453050	1	<10	0.1	150	1450	14	<10	110
Line 346100 6453075	17	<10	0.5	660	21000	11	20	60
Line 346100 6453100	10	<10	0.2	190	8290	7	10	280
Line 346100 6453125	26	<10	0.1	550	3430	18	<10	50
Line 346100 6453150	14	<10	1.6	1750	3800	12	<10	<20
Line 346100 6453175	11	10	0.5	850	12800	35	20	200
Line 346100 6453225	8	<10	<0.1	870	2620	13	<10	160
Line 346100 6453250	28	<10	0.5	660	4400	12	<10	120
Line 346100 6453275	12	<10	0.7	490	5810	11	20	310
Line 346100 6453300	14	<10	0.3	970	5370	12	10	480
Line 346100 6453325	13	<10	0.6	800	17700	12	<10	180
Line 346100 6453375	16	<10	0.7	550	15000	10	<10	460
Line 346100 6453400	16	<10	0.5	460	7140	15	20	260
Line 346100 6453425	26	<10	0.1	390	2560	5	10	130
Line 346100 6453450	18	<10	0.5	2500	1730	8	<10	50
Line 346100 6453475	12	<10	1.0	2850	7450	8	<10	60
Line 346100 6453500	33	<10	0.5	4600	2310	17	<10	30
Line 346100 6453525	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 346100 6453550	16	<10	0.3	290	17400	9	<10	30
Line 346100 6453600	8	<10	0.2	440	4920	<5	<10	190
Line 346100 6453650	44	<10	1.0	950	5820	<5	20	140
Line 346100 6453700	23	<10	0.9	650	5430	<5	<10	110
Line 346100 6453800	20	<10	1.1	2120	2350	<5	10	30
Line 346100 6453850	6	<10	0.4	1560	3310	10	<10	90
Line 346100 6453900	22	<10	0.8	2460	3320	14	<10	60

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Final : TO116854A Order: Project:HAT

Page 3 of 3

Element Method Det.Lim. Units	Ag MMI-M5	As MMI-M5	Au MMI-M5	Cu MMI-M5	Mn MMI-M5	Mo MMI-M5	Pb MMI-M5	Zn MMI-M5
	1 ppb	10 ppb	0.1 ppb	10 ppb	10 ppb	5 ppb	10 ppb	20 ppb
Line 346100 6453950	11	<10	0.6	810	2660	<5	20	20
Line 346100 6454000	18	<10	5.5	19000	4080	<5	<10	30
Line 346200 645550	13	<10	0.6	570	1590	<5	<10	30
Line 346200 6453500	30	<10	1.3	1490	4670	<5	10	50
Line 346200 6454050	6	<10	<0.1	640	2300	<5	70	110
Line 346200 645450	9	<10	0.1	510	1470	<5	<10	50
Line 346100 6453350	11	<10	0.6	1170	6490	12	<10	480
Line 346200 6454000	11	<10	0.1	580	7210	<5	50	120
*Rep Line 346100 6452800	11	<10	0.3	320	15500	16	<10	550
*Rep Line 346100 6453225	8	<10	0.1	960	2820	14	<10	160
*Rep Line 346100 6453325	11	<10	0.5	830	15200	11	<10	260
*Rep Line 346100 6453850	7	<10	0.3	1620	3260	9	<10	90
*Std MMISRM16	19	20	26.7	610	100	49	80	260
*Std AMIS0169	7	<10	0.4	3440	3650	<5	100	190
*Blk BLANK	<1	<10	0.2	<10	20	<5	<10	<20
*Blk BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20

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## Certificate of Analysis

Work Order: TO116858

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 20, 2011

P.O. No. : -  
Project No. : THE HAT  
No. Of Samples : 79  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 4  
(Inclusive of Cover Sheet)

Certified By :

Lawrence Ng  
Regional Business Manager (GEOCHEM)

**SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>**

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Final : TO116858 Order:

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
L345700 6453950	26	<10	<0.1	440	5370	<5	10	650
L345700 6453900	36	<10	0.2	700	6860	<5	<10	210
L345700 6453850	2	<10	<0.1	1090	10400	<5	80	760
L345700 6453800	2	<10	<0.1	270	25100	<5	20	2420
L345700 6453750	3	<10	0.2	1240	19700	<5	20	170
L345700 6453700	<1	<10	<0.1	90	9570	<5	30	14700
L345700 6453675	<1	<10	<0.1	<10	4060	<5	20	820
L345700 6453650	<1	<10	<0.1	40	10100	<5	10	190
L345700 6453625	<1	<10	<0.1	90	4070	<5	<10	60
L345700 6453600	<1	<10	<0.1	30	1600	<5	30	40
L345700 6453575	4	<10	<0.1	1310	8930	<5	40	1330
L345700 6453550	7	<10	0.4	930	21800	<5	80	370
L345700 6453525	6	<10	0.2	350	12300	<5	30	470
L345700 6453500	16	<10	0.2	530	9430	<5	20	350
L345700 6453475	20	<10	0.4	400	16000	<5	20	290
L345700 6453450	29	<10	0.3	1010	5280	<5	30	180
L345700 6453425	27	<10	0.3	470	21700	7	<10	310
L345700 6453400	9	<10	<0.1	330	7940	6	20	320
L345700 6453375	6	<10	<0.1	700	7290	<5	20	250
L345700 6453350	6	<10	0.4	1590	6970	<5	30	80
L345700 6453325	13	<10	0.1	1070	12600	<5	20	540
L345700 6453300	10	<10	0.4	810	10800	5	30	240
L345700 6453250	<1	<10	0.1	10800	13100	6	20	990
L345700 6453200	9	<10	0.5	1310	19900	10	10	550
L345700 6454050	28	<10	0.5	3900	1220	<5	<10	20
L345700 6454100	14	<10	0.1	1460	3790	<5	10	110
L347100 6455600	1	<10	<0.1	170	1760	<5	10	40
L347100 6455500	<1	<10	<0.1	1550	4780	<5	<10	230
L347100 6455425	42	<10	0.5	1960	6950	<5	<10	350
L347100 6455400	3	<10	<0.1	980	4650	<5	<10	240
L347100 6455375	7	<10	0.4	23900	2190	<5	<10	770
L347100 6455350	2	<10	0.3	19600	6090	9	<10	2500
L347100 6455325	<1	<10	<0.1	3960	2540	<5	10	2240
L347100 6455300	3	<10	<0.1	390	3520	<5	<10	970
L347100 6455250	3	<10	0.2	5610	10200	<5	<10	100
L347100 6455200	16	<10	6.8	28000	1480	<5	<10	<20
L347100 6455175	31	<10	0.2	5730	1810	<5	<10	50
L347100 6455150	21	<10	0.1	1980	5800	<5	10	80
L347100 6455125	16	<10	0.1	1030	7870	<5	20	150
L347100 6455100	45	<10	0.2	1070	2500	<5	<10	170
L347100 6455075	19	<10	0.2	1400	5340	<5	10	340
L347100 6455050	10	<10	0.3	20700	2280	<5	<10	90
L347100 6455000	3	<10	0.2	9800	3050	<5	<10	170

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Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
L347100 6454975	16	<10	0.3	16600	9490	<5	<10	60
L347100 6454925	6	<10	0.1	12600	13600	<5	<10	220
L347100 6454900	9	<10	0.1	1980	3670	<5	<10	110
L347100 6454700	27	<10	0.2	1470	3020	<5	<10	30
L347100 6454675	19	<10	0.1	990	4610	<5	10	90
L347100 6454650	24	<10	0.2	1530	2710	<5	<10	80
L347100 6454625	32	<10	0.2	660	5590	<5	<10	130
L347100 6454600	19	<10	0.2	1020	13800	<5	20	100
L347100 6454575	16	<10	<0.1	460	3760	<5	10	180
L346000 6454000	3	<10	0.3	1240	10300	<5	20	180
L346000 6453950	21	<10	0.4	840	4610	<5	20	250
L346000 6453900	15	<10	<0.1	740	4770	<5	40	70
L346000 6453800	9	<10	<0.1	670	12500	<5	20	810
L346000 6453750	38	<10	<0.1	280	12400	6	10	470
L346000 6453700	2	<10	<0.1	980	33700	<5	10	290
L346000 6453650	2	<10	0.2	3360	4700	<5	<10	50
L346000 6453550	14	<10	0.3	2880	4820	<5	20	60
L346000 6453500	13	<10	0.5	600	18800	<5	10	810
L346000 6453450	3	<10	<0.1	450	9790	<5	70	730
L346000 6453400	3	<10	<0.1	610	11800	<5	40	500
L346000 6453350	<1	<10	0.2	2100	20500	<5	20	3090
L346000 6453300	10	<10	0.3	1240	22600	16	40	430
L346000 6453250	6	<10	0.2	1110	10200	<5	20	580
L346000 6453200	15	<10	0.3	1310	13200	18	20	600
L346000 6453100	10	<10	0.5	1830	27300	7	20	240
L346000 6453050	16	<10	0.8	1970	17500	7	20	140
L346000 6454100	9	<10	0.2	520	9910	<5	10	460
L346000 6454150	10	<10	0.6	620	4180	<5	30	1020
L346000 6454200	<1	<10	<0.1	600	14000	<5	60	2980
L346000 6454300	4	<10	0.4	380	9840	<5	20	370
L346000 6454350	15	<10	0.5	1280	4250	<5	60	490
L345700 64534000	11	<10	<0.1	4000	3640	<5	<10	150
L347100 645575	7	<10	0.1	640	2990	<5	<10	50
L347100 645550	1	<10	0.1	3780	6190	<5	20	80
L347100 6454525	14	<10	<0.1	550	5150	<5	10	1360
L347100 6454725	12	<10	0.2	1040	2640	<5	<10	40
*Rep L345700 6453850	<1	<10	<0.1	1040	10500	<5	80	720
*Rep L345700 6453400	5	<10	<0.1	300	9840	<5	20	520
*Rep L345700 6453000	2	<10	<0.1	3250	4290	<5	<10	120
*Rep L347100 6455250	15	<10	0.3	14600	10900	<5	<10	110
*Rep L346000 6453800	12	<10	0.4	1420	14400	16	50	270
*Rep L346000 6453450	9	<10	0.4	540	5090	<5	20	1650
*Rep L346000 6453050	15	<10	0.2	1010	2500	<5	10	40

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Final : TO116858 Order:

Page 4 of 4

Element	Ag	As	Au	Cu	Mn	Mo	Pb	Zn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	10	0.1	10	10	5	10	20
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Std MMISRM16	16	10	23.5	630	190	45	110	220
*Std AMIS0169	8	10	0.5	4190	4480	<5	130	240
*Std MMISRM18	26	<10	10.2	830	600	33	320	680
*Bik BLANK	<1	<10	<0.1	<10	20	<5	<10	<20
*Bik BLANK	<1	<10	<0.1	<10	20	<5	<10	<20
*Bik BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20

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## Certificate of Analysis

Work Order: TO116859

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 18, 2011

P.O. No. : Project:HAT  
Project No. : THE HAT  
No. Of Samples : 79  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 4  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

Discard after 90 days:

**Comments:**

Missing samples:L345550 6453200,L346900 6455250

Certified By :

Lawrence Ng

Regional Business Manager (GEOCHEM)

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Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Final : TO116859 Order: Project:HAT

Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
L345550 6454000	7	<10	2.2	4830	5220	<5	40	160
L345550 6453950	16	<10	1.5	9560	5400	<5	20	70
L345550 6453900	23	<10	0.7	1520	7760	<5	<10	250
L345550 6453850	30	<10	0.8	8010	1770	<5	<10	40
L345550 6453800	29	<10	0.3	1630	3080	<5	10	110
L345550 6453750	24	<10	0.8	3360	3970	<5	10	70
L345550 6453700	16	<10	2.3	5890	4370	<5	20	110
L345550 6453675	45	<10	0.4	1250	5830	<5	10	280
L345550 6453650	15	<10	0.7	1710	9730	<5	30	280
L345550 6453625	28	<10	0.7	1800	8350	<5	20	130
L345550 6453600	35	<10	1.1	1920	13200	<5	20	80
L345550 6453575	13	<10	0.8	1430	10800	<5	70	90
L345550 6453550	12	<10	0.3	1760	3460	<5	20	170
L345550 6453525	31	<10	0.6	1610	16900	<5	30	140
L345550 6453500	14	<10	0.5	1530	13100	<5	60	270
L345550 6453475	14	<10	1.8	5440	10500	<5	20	120
L345550 6453450	11	<10	0.4	890	8090	<5	40	100
L345550 6453425	18	<10	0.5	1250	10800	<5	60	150
L345550 6453400	21	<10	0.3	920	7550	<5	30	310
L345550 6453375	12	<10	0.5	2040	5360	<5	60	370
L345550 6453350	7	<10	0.3	1990	7360	<5	50	430
L345550 6453325	14	<10	1.0	4750	5490	<5	20	90
L345550 6453300	33	<10	2.2	10300	8160	<5	<10	100
L345550 6453250	5	<10	<0.1	1320	2820	<5	<10	260
L345550 6453200	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L345550 6453150	8	<10	0.5	1520	5950	<5	10	590
L345550 6453100	14	<10	0.1	1010	4830	<5	20	170
L345550 6453050	6	<10	0.2	1040	2880	<5	<10	1460
L345550 6454050	28	<10	0.2	1620	1120	<5	<10	60
L345550 6454100	7	<10	0.2	5160	7170	<5	80	150
L345550 6454150	25	<10	0.7	11900	4960	<5	30	30
L345550 6454200	17	<10	0.9	6810	2160	<5	<10	30
L345550 6454250	26	<10	0.2	600	420	<5	<10	40
L345550 6454300	35	<10	0.9	17100	12100	5	<10	50
L346900 6455700	15	<10	0.8	3800	56800	<5	<10	80
L346900 6455675	30	<10	2.1	6430	5650	<5	10	80
L346900 6455650	14	<10	0.3	1320	3000	<5	10	470
L346900 6455625	27	<10	0.2	4260	3650	<5	<10	450
L346900 6455600	17	<10	0.5	2610	3150	<5	80	170
L346900 6455575	27	<10	0.2	2090	2180	<5	<10	160
L346900 6455550	20	<10	0.3	6590	4930	<5	10	100
L346900 6455525	<1	<10	<0.1	890	690	<5	<10	110
L346900 6455475	25	<10	0.2	470	1430	<5	<10	50

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Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
L346900 6455425	23	<10	0.3	450	1360	<5	<10	20
L346900 6455400	1	<10	<0.1	180	1820	<5	<10	50
L346900 6455375	2	<10	0.3	13800	5700	<5	<10	110
L346900 6455350	1	<10	<0.1	1230	10300	10	<10	100
L346900 6455325	44	<10	0.2	1870	2330	<5	<10	160
L346900 6455275	41	<10	0.6	28000	2240	<5	<10	60
L346900 6455250	23	<10	0.5	25200	3350	<5	<10	110
L346900 6455225	3	<10	0.2	7560	4910	<5	<10	40
L346900 6455200	25	<10	0.4	8520	2960	<5	<10	30
L346900 6455175	33	<10	0.7	20800	3170	<5	<10	60
L346900 6455150	<1	<10	<0.1	60	<10	<5	<10	<20
L346900 6455125	20	<10	0.3	18100	2910	<5	<10	100
L346900 6455100	19	<10	0.2	3310	5830	<5	<10	80
L346900 6455075	9	<10	0.1	620	3630	<5	20	540
L346900 6455050	3	<10	0.2	1780	15200	<5	20	260
L346900 6455025	5	<10	1.9	32800	6450	<5	<10	20
L346900 6455000	<1	<10	0.6	20300	9800	8	<10	30
L346900 6454975	<1	<10	0.3	12600	13800	12	<10	20
L346900 6454950	4	<10	0.4	10600	5570	<5	<10	40
L346900 6454925	11	<10	1.2	2420	2910	<5	50	40
L346900 6454900	7	<10	1.8	3330	2170	<5	10	30
L346900 6454875	15	<10	0.4	1020	4070	<5	20	140
L346900 6454850	23	<10	0.6	1400	2880	<5	20	50
L346900 6454825	15	<10	0.3	5750	15600	<5	<10	20
L346900 6454800	18	<10	0.7	1850	490	<5	<10	20
L346900 6454775	14	<10	0.4	1080	950	<5	<10	40
L346900 6454750	7	<10	<0.1	450	2550	<5	10	90
L346900 6454725	11	<10	0.2	2660	6810	<5	10	70
L346900 6454700	12	<10	0.2	1160	2630	<5	10	50
L346900 6454675	6	<10	<0.1	180	540	<5	<10	100
L346900 6454650	9	<10	<0.1	1100	1430	<5	10	60
L346900 6454625	7	<10	0.1	320	1980	<5	30	30
L346900 6454600	12	<10	0.3	2160	910	<5	<10	30
L346900 6454500	3	<10	<0.1	150	1000	<5	<10	30
L346900 6454425	14	<10	<0.1	1180	2310	<5	20	40
L346550 6453200	5	<10	0.1	1190	4340	<5	<10	1890
*Rep L345550 6453950	14	<10	1.2	8470	4640	<5	20	80
*Rep L345550 6453500	17	<10	0.6	1680	14700	<5	50	170
*Rep L346900 6455600	21	<10	0.7	2960	3510	<5	90	190
*Rep L346900 6455375	2	<10	0.2	12600	4590	<5	<10	120
*Rep L346900 6455100	22	<10	0.2	3380	5810	<5	<10	40
*Rep L346900 6454850	25	<10	0.6	1510	3230	<5	20	50
*Rep L346550 6453200	5	<10	0.2	1110	4620	<5	<10	1810

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Element	Ag	As	Au	Cu	Mn	Mo	Pb	Zn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	10	0.1	10	10	5	10	20
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Std MMISRM16	16	<10	25.4	670	140	41	70	240
*Std AMIS0169	8	20	0.5	3900	4220	<5	120	230
*Std MMISRM18	23	10	8.2	680	580	29	230	660
*Bik BLANK	<1	<10	<0.1	20	20	<5	<10	<20
*Bik BLANK	<1	<10	<0.1	<10	20	<5	<10	<20
*Bik BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20

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## Certificate of Analysis

Work Order: TO116860

To: **Farshad Shirvani**  
**Terracad GeoScience Services Ltd.**  
310-675 W. Hastings St.  
VANCOUVER  
BC V6B 1N2

Date: Oct 20, 2011

P.O. No. : -  
Project No. : THE HAT  
No. Of Samples : 108  
Date Submitted : Oct 03, 2011  
Report Comprises : Pages 1 to 4  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

Discard after 90 days:

Certified By :

Lawrence Ng  
Regional Business Manager (GEOCHEM)

**SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>**

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Final : TO116860 Order:

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Element Method Det.Lim. Units	Ag MMI-M5 1 ppb	As MMI-M5 10 ppb	Au MMI-M5 0.1 ppb	Cu MMI-M5 10 ppb	Mn MMI-M5 10 ppb	Mo MMI-M5 5 ppb	Pb MMI-M5 10 ppb	Zn MMI-M5 20 ppb
Line 347000 6455600	17	<10	1.4	16700	1450	<5	30	30
Line 347000 6455575	11	<10	0.9	3530	1740	<5	10	90
Line 347000 6455550	22	<10	0.4	720	1850	<5	50	50
Line 347000 6455525	12	<10	3.0	17600	4160	<5	20	40
Line 347000 6455400	14	<10	4.3	3980	4670	<5	50	40
Line 347000 6455375	17	<10	0.2	9080	2520	<5	<10	140
Line 347000 6455350	70	<10	1.0	10400	8110	<5	<10	80
Line 347000 6455325	34	<10	0.4	7930	4700	<5	<10	690
Line 347000 6455275	31	<10	0.2	5900	440	<5	<10	<20
Line 347000 6455225	33	<10	0.2	8230	2650	<5	<10	50
Line 347000 6455200	8	<10	0.2	4090	6460	<5	<10	50
Line 347000 6455175	53	<10	2.2	54700	1690	<5	<10	<20
Line 347000 6455150	21	<10	0.4	22000	1530	<5	<10	70
Line 347000 6455125	12	<10	0.2	5870	4700	<5	<10	30
Line 347000 6455100	16	<10	0.2	15000	2610	<5	<10	<20
Line 347000 6455075	18	<10	0.6	41400	1690	<5	<10	<20
Line 347000 6455050	19	<10	0.6	32500	4290	<5	<10	50
Line 347000 6455025	16	<10	0.6	8170	2750	<5	<10	<20
Line 347000 6455000	11	<10	0.6	5190	1650	<5	<10	<20
Line 347000 6454825	16	<10	0.4	1180	1420	<5	<10	150
Line 347000 6454800	22	<10	0.2	1180	1630	<5	<10	60
Line 347000 6454775	35	<10	0.6	2070	4660	<5	10	90
Line 347000 6454750	20	<10	0.5	1480	1610	<5	30	100
Line 347000 6454725	22	<10	0.7	2050	2700	<5	20	50
Line 347000 6454700	25	<10	0.7	1430	4860	<5	10	150
Line 347000 6454675	29	<10	0.4	1180	17400	<5	<10	130
Line 347000 6454650	38	<10	1.7	2230	6330	<5	<10	20
Line 347000 6454625	20	<10	0.2	620	1980	<5	10	150
Line 347000 6454600	21	<10	<0.1	1310	2080	<5	<10	50
Line 347000 6454375	24	<10	0.6	1810	680	<5	<10	30
Line 347000 6454400	<1	<10	0.3	9490	4720	10	<10	90
Line 347000 6454425	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 347000 6454450	18	<10	0.3	1350	350	<5	<10	<20
Line 347000 6454475	8	<10	0.2	1040	1650	<5	<10	20
Line 347000 6454525	9	<10	<0.1	620	2560	<5	<10	30
Line 347000 6454550	28	<10	<0.1	440	3440	<5	10	270
Line 347000 6454575	21	<10	<0.1	780	2240	<5	<10	30
Line 345900 6453900	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 345900 6453800	12	<10	0.9	1910	10100	<5	20	220
Line 345900 6453750	12	<10	1.6	1850	15000	<5	20	450
Line 345900 6453700	30	<10	0.5	1470	4870	<5	10	70
Line 345900 6453650	1	<10	<0.1	240	31900	<5	20	180
Line 345900 6453600	26	<10	1.4	2360	4790	<5	20	80

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	1	10	0.1	10	10	5	10	20
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 345900 6453550	12	<10	0.3	3160	1020	<5	<10	20
Line 345900 6453500	43	<10	0.6	17300	2590	16	<10	20
Line 345900 6453400	46	<10	0.5	2150	16200	14	10	50
Line 345900 6453350	7	<10	0.2	1330	5020	5	20	110
Line 345900 6453300	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 345900 6453250	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 345900 6453200	15	<10	0.7	16100	1810	6	<10	20
Line 345900 6453150	20	<10	0.4	6390	6340	6	<10	570
Line 345900 6453100	11	<10	0.6	3310	2980	<5	<10	250
Line 345900 6454050	9	<10	0.8	4070	2000	<5	<10	70
Line 345900 6454150	24	<10	0.4	10300	4470	22	<10	30
Line 345900 6454200	31	<10	1.0	2940	1300	<5	<10	50
Line 345900 6454250	10	<10	2.6	2750	8260	<5	80	80
Line 345900 6454300	25	<10	0.2	1370	2240	<5	<10	40
Line 345900 6454400	31	<10	0.8	7280	4800	<5	<10	410
Line 345900 6454450	67	<10	1.5	2400	4200	<5	<10	180
Line 345900 6454500	28	<10	1.1	2510	1590	<5	<10	190
Line 345800 3454000	7	<10	0.5	760	8070	<5	10	450
Line 345800 3453950	10	<10	<0.1	680	6460	<5	20	410
Line 345800 3453900	58	<10	0.1	590	3640	<5	<10	200
Line 345800 3453850	49	<10	0.5	1660	7600	<5	20	70
Line 345800 3453750	23	<10	1.1	1580	5540	<5	50	140
Line 345800 3453700	26	<10	0.1	620	10600	<5	10	170
Line 345800 3453650	18	<10	0.3	2200	22200	<5	<10	260
Line 345800 3453600	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 345800 3453500	39	<10	<0.1	400	4570	<5	<10	150
Line 345800 3453450	6	<10	0.2	330	2400	<5	30	390
Line 345800 3453350	5	<10	0.1	2390	15400	<5	10	90
Line 345800 3453300	18	<10	<0.1	1010	11000	23	<10	90
Line 345800 3453250	31	<10	0.1	910	5590	12	<10	140
Line 345800 3453200	16	<10	0.5	1150	11800	12	20	160
Line 345800 3453150	10	<10	0.2	820	7080	8	30	250
Line 345800 3453100	<1	<10	<0.1	840	13000	<5	50	520
Line 345800 3453050	14	<10	0.4	940	5030	8	10	40
Line 345800 3453000	14	<10	0.4	1020	16000	6	10	250
Line 346500 6456250	16	<10	0.2	770	2160	<5	<10	470
Line 346500 6456200	2	<10	<0.1	470	3460	<5	<10	90
Line 346500 6456150	16	<10	0.1	530	3440	<5	20	260
Line 346500 6456100	2	<10	<0.1	1100	5550	<5	<10	300
Line 346500 6456050	13	<10	0.3	1730	3760	<5	20	300
Line 346500 6456000	6	<10	<0.1	230	1800	<5	<10	890
Line 346500 6455950	11	<10	0.2	2230	2890	<5	<10	1060
Line 346500 6455900	14	<10	0.1	860	3210	<5	<10	230

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Final : TO116860 Order:

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	1	10	0.1	10	10	5	10	20
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 346500 6455850	8	<10	0.1	500	2710	<5	10	100
Line 346500 6455800	<1	<10	<0.1	850	3610	<5	<10	360
Line 346500 6455700	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 346500 6455400	4	<10	0.2	770	6740	<5	20	140
Line 346500 6455250	2	<10	<0.1	620	1920	<5	10	60
Line 346500 6455000	13	<10	0.2	13900	1960	<5	<10	50
Line 346500 6454750	13	<10	0.5	1730	8050	<5	<10	100
Line 346500 6454700	29	<10	<0.1	830	5080	<5	<10	870
Line 346500 6454500	20	<10	0.4	1520	5440	<5	20	110
Line 346500 6454450	11	<10	0.1	940	13600	<5	10	620
Line 346500 6454100	14	<10	1.1	1180	6420	<5	10	80
Line 346500 6454050	34	<10	21.4	6390	7050	<5	30	80
Line 346500 6454000	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Line 347000 465425	9	<10	<0.1	270	940	<5	<10	70
Line 346900 6453900	3	<10	<0.1	980	4160	<5	<10	20
Line 346900 6453300	10	<10	0.4	1610	16400	7	20	30
Line 346900 6453250	15	<10	0.5	720	32900	6	20	70
Line 347000 6454000	19	<10	0.2	580	8210	<5	10	130
Line 345900 6453000	4	<10	0.2	9930	8240	9	10	170
Line 345900 6453050	2	<10	0.1	6730	9480	7	<10	500
Line 345800 6453400	13	<10	<0.1	370	7390	<5	10	100
Line 346500 6455200	11	<10	<0.1	2430	27100	<5	<10	80
*Rep Line 347000 6455575	11	<10	0.9	2730	2380	<5	10	120
*Rep Line 347000 6455100	17	<10	0.2	14700	2530	<5	<10	<20
*Rep Line 347000 6454550	30	<10	<0.1	410	3620	<5	20	350
*Rep Line 345900 6453650	2	<10	0.1	320	32500	<5	20	140
*Rep Line 345800 3453750	22	<10	1.1	1620	5550	<5	40	120
*Rep Line 345800 3453250	24	<10	0.2	980	5700	12	<10	140
*Rep Line 346500 6455250	1	<10	<0.1	540	2020	<5	20	60
*Rep Line 347000 6454000	25	<10	0.2	530	8730	<5	10	150
*Rep Line 345900 6453400	13	<10	0.1	380	8170	5	10	60
*Std MMISRM16	17	20	23.9	680	90	45	90	250
*Std AMISO169	7	<10	0.3	3770	3970	<5	110	210
*Std MMISRM18	25	10	8.7	700	550	30	240	640
*Blk BLANK	<1	<10	<0.1	20	<10	<5	<10	<20
*Blk BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20
*Blk BLANK	<1	<10	<0.1	<10	<10	<5	<10	<20

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