

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING

at the

HIGHWAY PROPERTY

HWY 11-16 YC72275-YC72280

NTS 105C/01

Latitude 60°00'N; Longitude 132°09'W

in the

Watson Lake Mining District,
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

TARSIS RESOURCES LTD.

by

H. Smith, P. Geo.

February 2011

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INTRODUCTION

The Highway property covers a volcanogenic massive sulphide (VMS) prospect located in southern Yukon. Tarsis Resources Ltd. owns the property 100%.

This report describes results of a soil geochemical survey that was conducted by one person between June 8 and 11, 2010. Exploration was funded by Tarsis and managed by Archer, Cathro & Associates (1981) Limited. The author supervised the work program. The author's Statement of Qualifications appears in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Highway property consists of six contiguous mineral claims located in southern Yukon on NTS map sheet 105C/01 at latitude 60°00'N and longitude 132°09'W (Figure 1). The claims are registered with the Watson Lake Mining Recorder in the name of Tarsis. The locations of individual claims are shown on Figure 2 while claim registration information is listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date *</u>
HWY 11-16	YC72275-YC72280	March 26, 2014

* Expiry date includes 2010 work that has been filed for assessment credit but not yet accepted.

The Highway property is located 35 km southeast of Teslin, a village that lies alongside the Alaska Highway approximately 183 km by road southeast of Whitehorse. In 2010, the worker stayed in Teslin and drove to the property by truck, via the Alaska Highway, which crosses the claims.

HISTORY

There is no recorded previous work in the area currently covered by the Highway property. Strategic Metals Ltd. staked the Highway property (HWY 1 to 32) in September 2007, and performed a minor amount of prospecting and geochemical sampling that year. No results were reported from that work.

In 2008, Strategic contracted Geotech Ltd. of Aurora, Ontario, to perform a helicopter-borne versatile time-domain electromagnetic (VTEM) geophysical survey over the Highway property. Results from this survey were not filed for assessment credit, and Strategic subsequently reduced its claim position to six claims (HWY 11-16).

In 2009, Tarsis purchased the Highway property from Strategic. A copy of the VTEM report from the 2008 survey was included in the sale. A VTEM conductor (late time dB/dt) was identified in what is now the centre of the Highway property (Figure 3).

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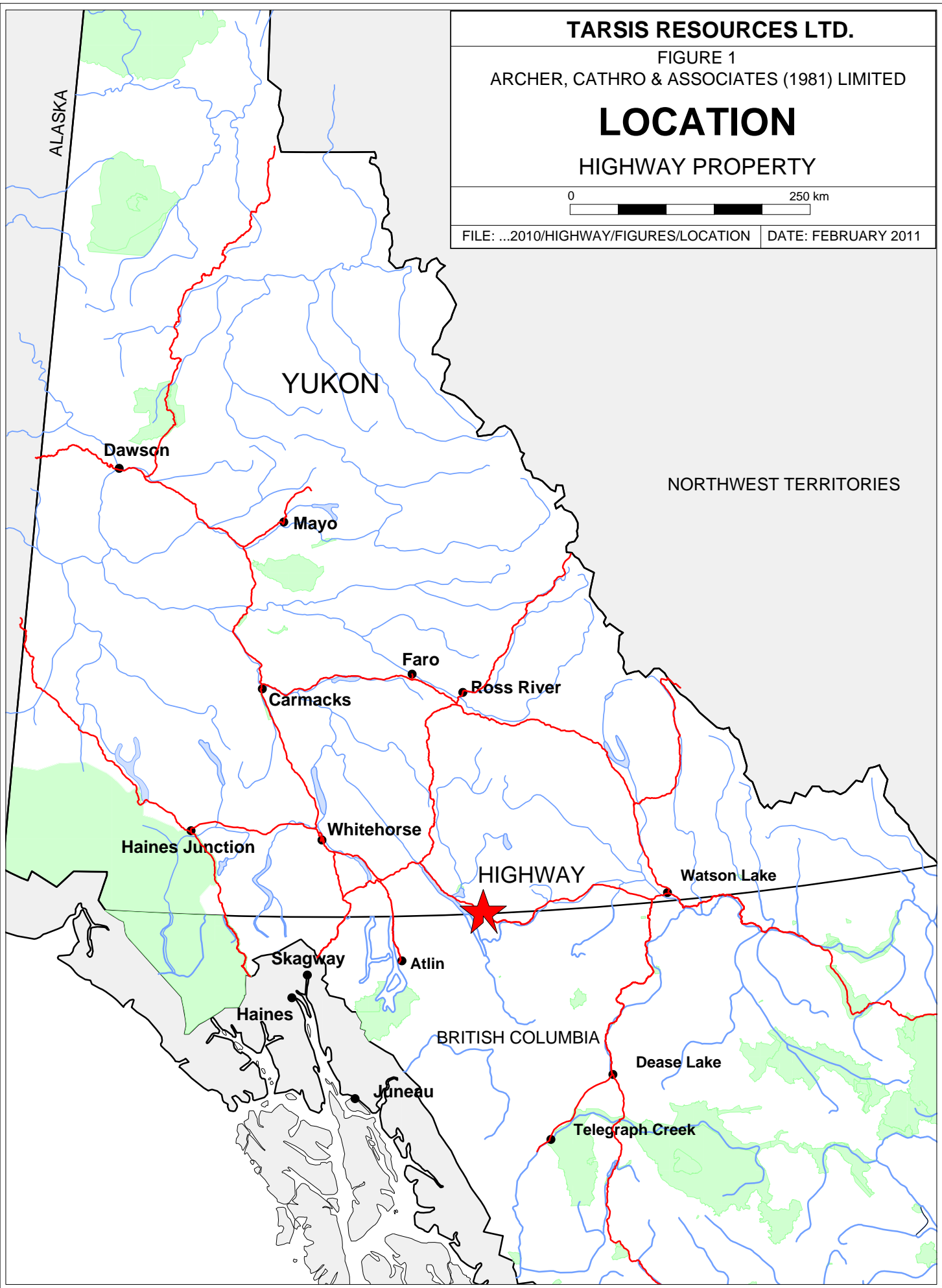
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

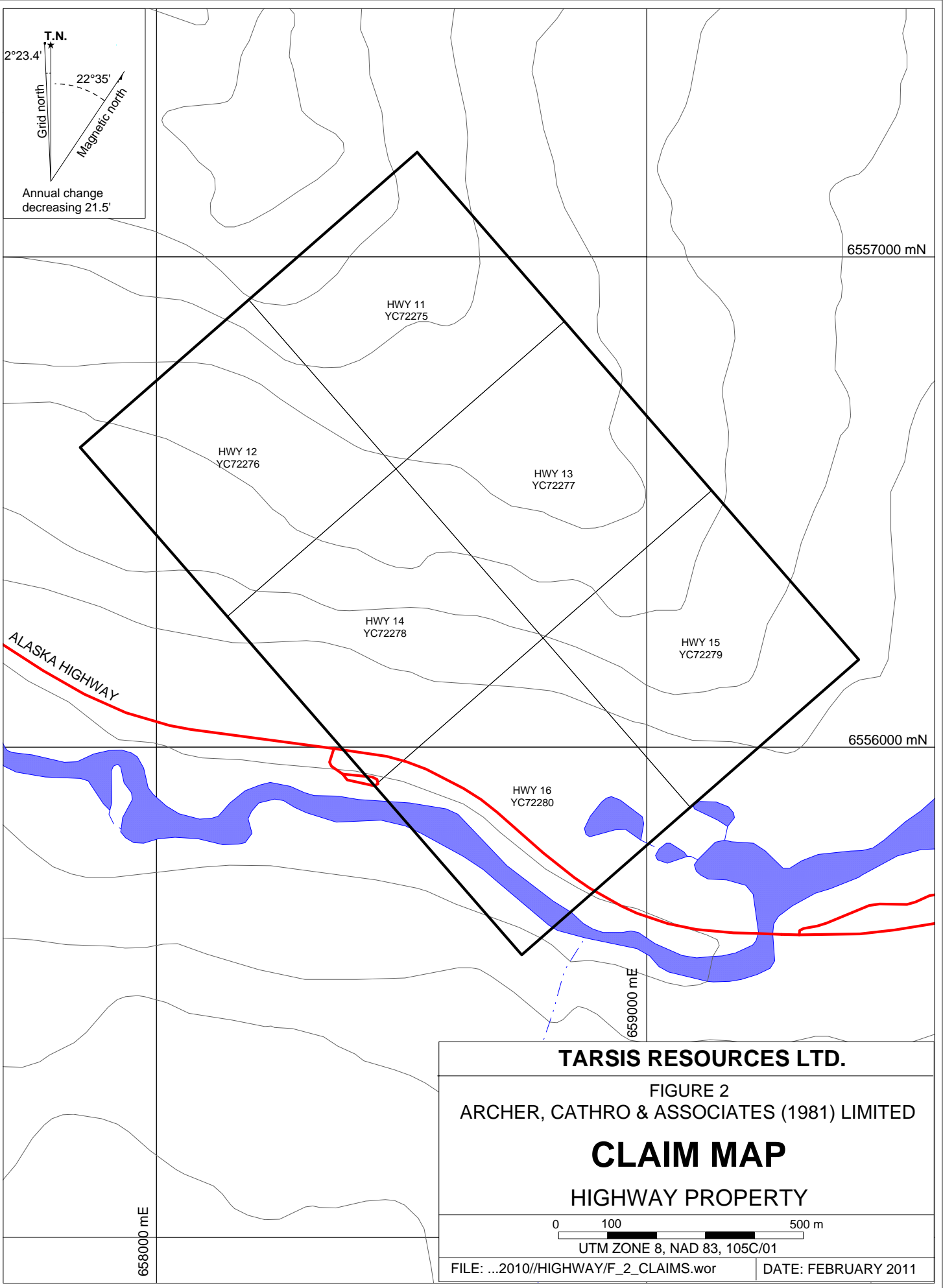
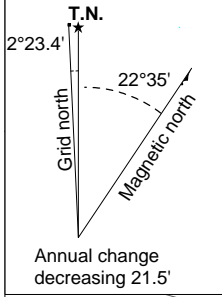
LOCATION

HIGHWAY PROPERTY



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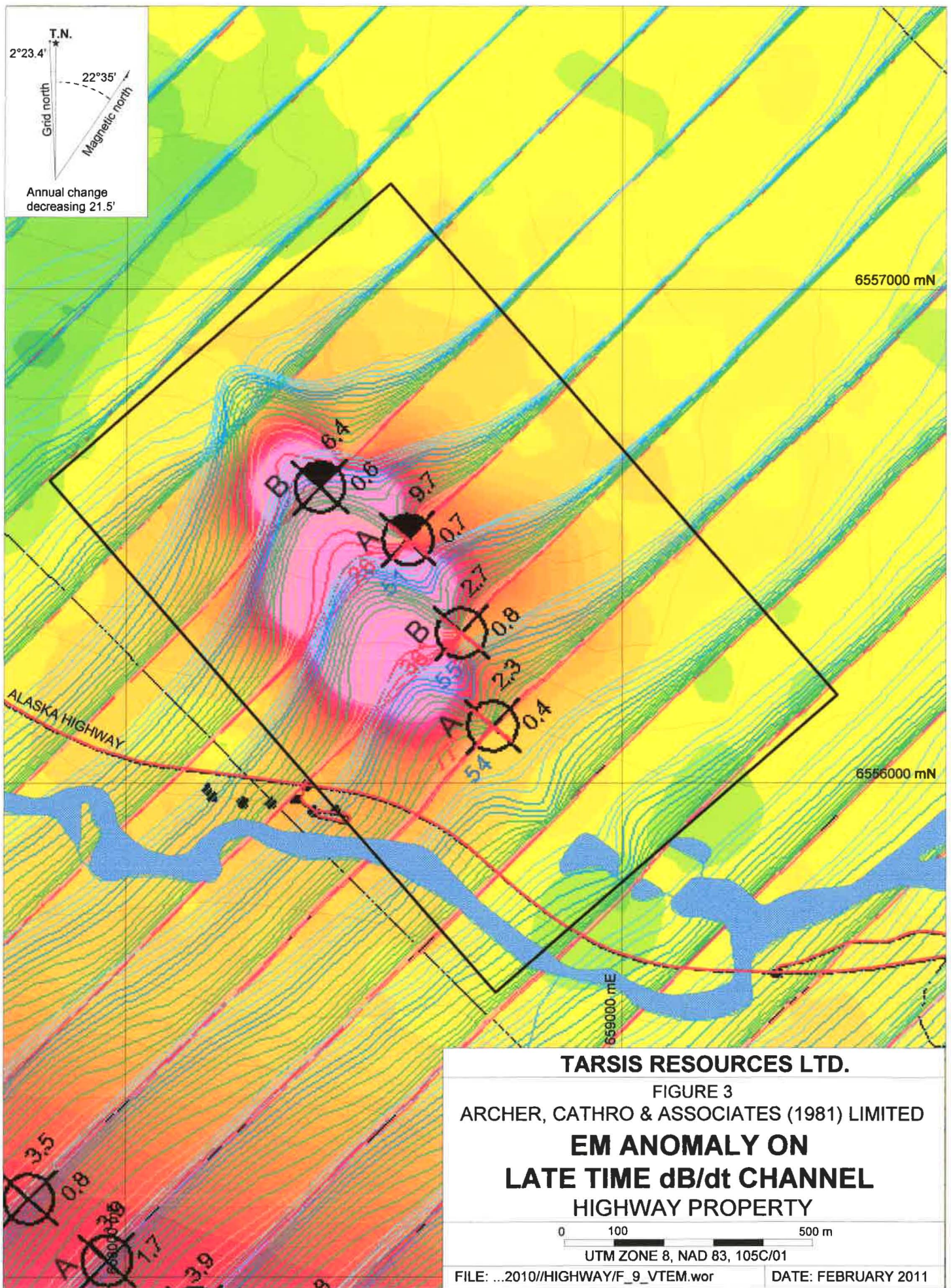
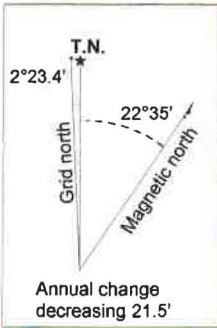
FIGURE 2
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM MAP

HIGHWAY PROPERTY

0 100 500 m
 UTM ZONE 8, NAD 83, 105C/01

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FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**EM ANOMALY ON
LATE TIME dB/dt CHANNEL
HIGHWAY PROPERTY**

FILE: ...2010/HIGHWAY/F_9_VTEM.wor DATE: FEBRUARY 2011

GEOMORPHOLOGY

The property lies along the northwestern flank of the Cassiar Mountains. It is located eight kilometres south of Mount Morley and two kilometres west of Morley Lake. Morley River cuts through the southwest corner of the property. Local topography is subdued with elevations ranging from 800 m in the valley bottom to 1000 m atop a low ridge. Infrequent bedrock exposures can be found on glacially scoured hummocks along the ridge.

A small, unnamed lake surrounded by marshland is located in the southern part of the property. There are numerous small creeks that drain the property, of which all creeks are tributaries of the Morley River, which is part of the Yukon River watershed.

The claim block is well vegetated with spruce, balsam, pine, alder and tamarack on hillsides and willow along creeks and in marshes. The entire property lies below treeline.

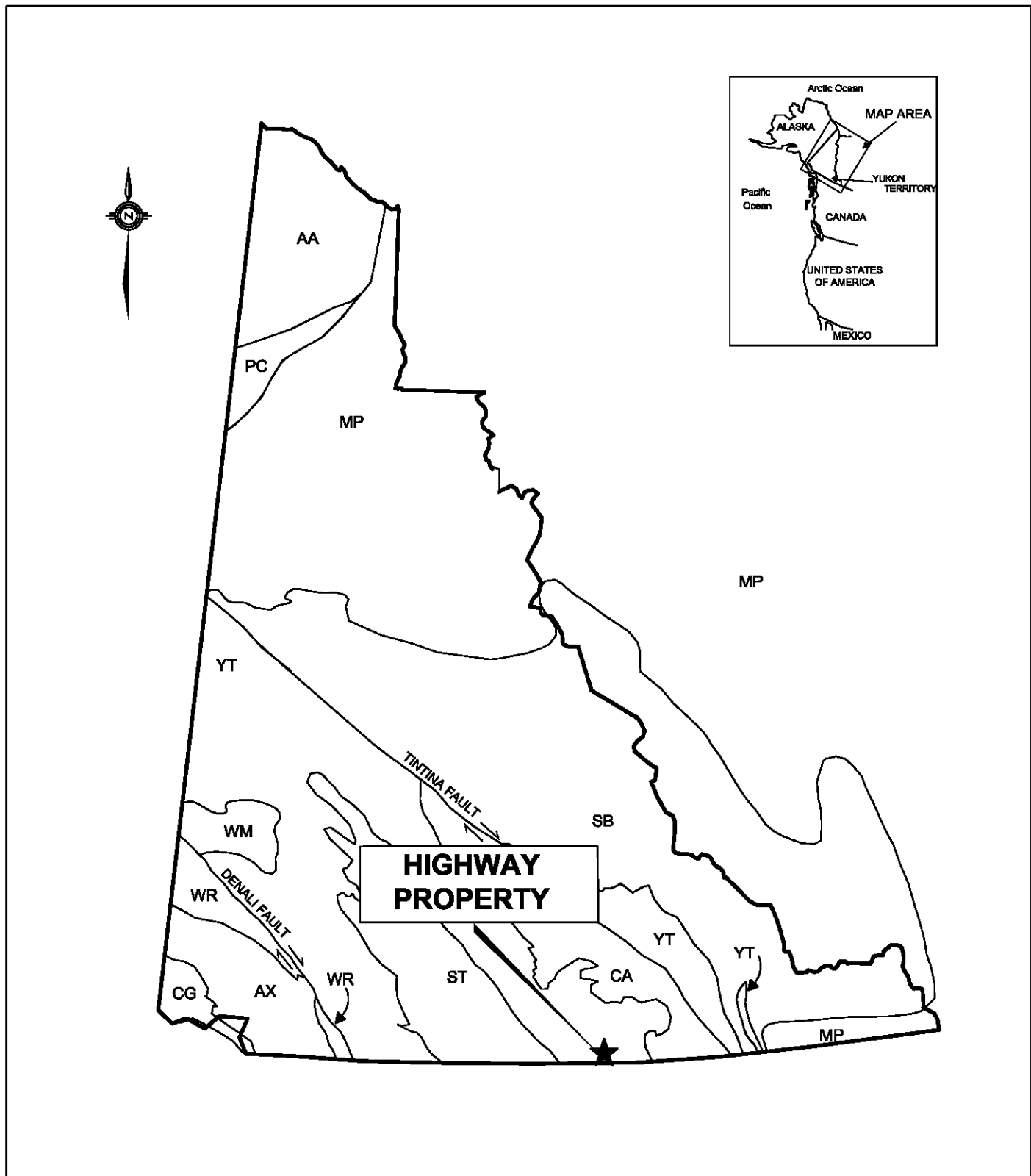
REGIONAL GEOLOGY

The property lies within a belt of Yukon-Tanana Terrane rocks on the southwest side of the Tintina Fault Zone (Figure 4). Yukon-Tanana Terrane underlie much of west-central Yukon, including a displaced block immediately northeast of the Tintina Fault Zone. This block is referred to as the Finlayson Lake District and it hosts a number of VMS deposits and prospects.

The most recent mapping of the Yukon-Tanana Terrane southwest of the Tintina Fault Zone near the British Columbia-Yukon border was addressed in a special paper published by the Geological Association of Canada in 2006 (Figure 5). This portion of the Northern Cordillera is segregated into the eastern, central and western belts, all three of which comprise stratigraphy associated with Permian and older sedimentation, arc related volcanism and coeval intrusions (Roots et al., 2006). Stratigraphy within each belt has been intruded by Eocene to early Jurassic plutons. The western belt hosts the Highway property. Stratigraphic units within it mostly belong to the Devonian to Mississippian Big Salmon Complex and comprise bimodal arc-volcanic rocks, phyllite, siliceous metasedimentary rocks and minor carbonate units. Coeval orthogneiss is common throughout the sequence and ranges in age from late Devonian to Jurassic. The upper portion of the Big Salmon Complex is marked by a rose coloured manganiferous metachert believed to represent an exhalative volcanic pulse (Mihalynuk et al, 2006). The metavolcanic rocks of the Big Salmon Complex are considered age equivalent to the Finlayson Assemblage, which hosts VMS deposits northeast of the Tintina Fault Zone (Colpron et al, 2006).

Klinkit Group unconformably overlies stratigraphy of the Big Salmon Complex. It consists of pale coloured marble and intermediate to mafic tuffs plus volcanic-derived metasedimentary rocks with lesser volcanic flows, quartz sandstone and interlayered dark siltstone. Volcanic rocks are more abundant near the base of the succession. These sequences were deposited between mid-Mississippian and Permian.

Big Salmon Complex rocks in the vicinity of the Highway property include: Mount Hazel orthogneiss; greenstone and intercalated sedimentary rocks; and psammite and argillite.



ANCESTRAL NORTH AMERICA

- MP** Mackenzie Platform
- SB** Selwyn Basin

TERRANES
Displaced Continental Margin

- AA** Arctic Alaska
- CA** Cassiar
- PC** Porcupine

Pericratonic Terranes

- YT** Yukon-Tanana / Sible Mountain

ACCRETED TERRANES

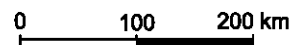
- ST** Sikinia / Cache Creek
- AX** Alexander
- WR** Wrangellia
- CG** Chugach
- WM** Windy McKinley

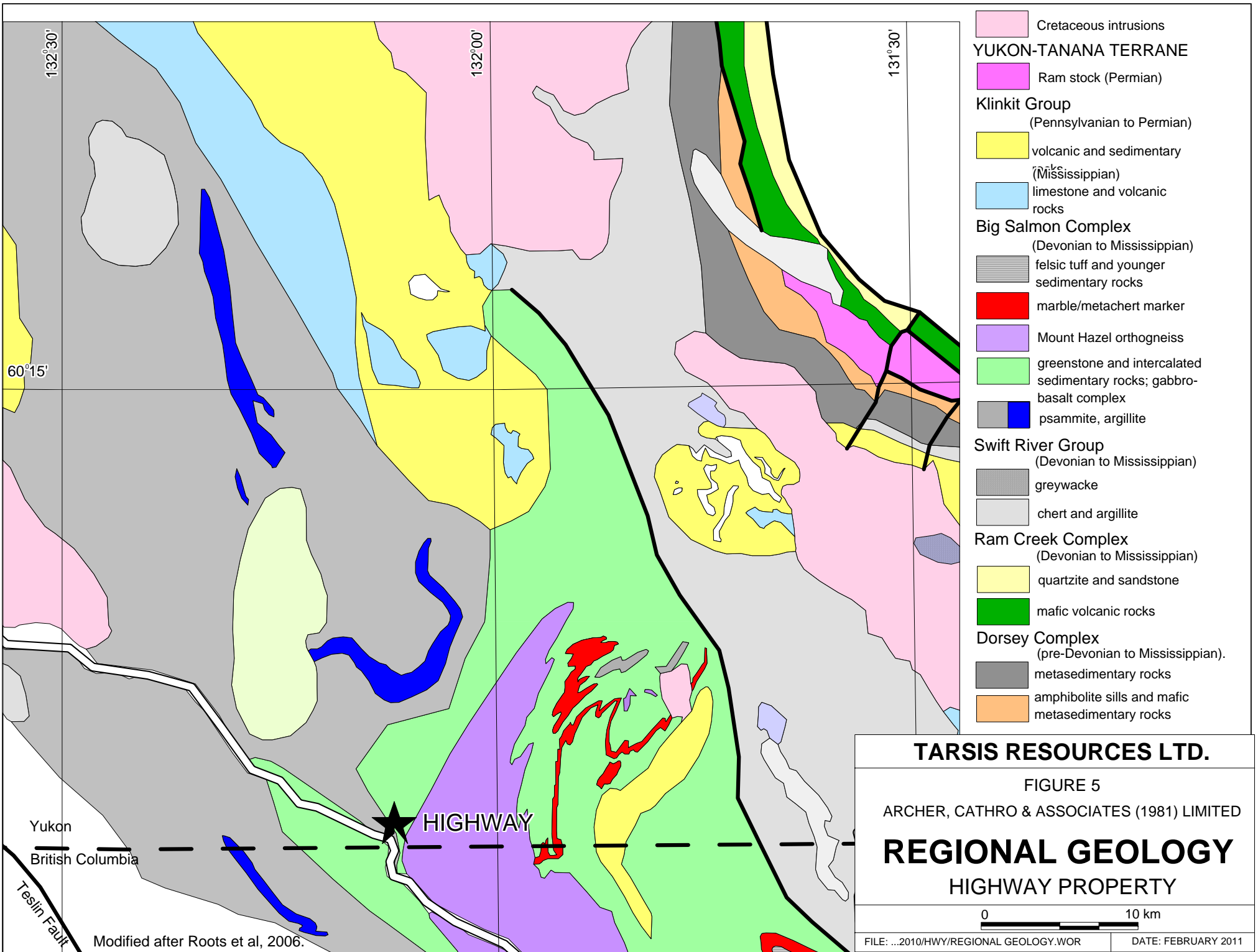
TARSIS CAPITAL CORP.

FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TECTONIC SETTING
HIGHWAY PROPERTY**





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FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY
HIGHWAY PROPERTY

0 10 km

PROPERTY GEOLOGY

No detailed (less than 1:50,000 scale) mapping has been done on the Highway property. Based on the work done by Roots et al., (2006), the property is mostly underlain by mafic and felsic metavolcaniclastic rocks of the Big Salmon Complex.

SOIL GEOCHEMISTRY

In 2010, a total of 71 soil samples were taken at 100 by 150 m spacings across the entire property, using hand held augers (Figure 6). Results for copper, silver and zinc are plotted on Figures 7 to 9, respectively. Certificates of Analysis are in Appendix II. All 2010 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 10 to 30 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Chemex, where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41).

The 2010 soil sampling program was designed to follow up the VTEM anomaly and to test for evidence of a soil signature enriched in VMS pathfinder elements (copper, silver, lead and zinc). Table I below shows soil sample thresholds.

Table I – Soil Geochemical Thresholds

Element	Background (ppm)	Weak (ppm)	Moderate (ppm)	Strong (ppm)
Copper	0 ≤ 50	50 ≤ 100	100 ≤ 200	200 ≤ 227
Silver	0 ≤ 0.2	0.2 ≤ 0.5	0.5 ≤ 1.0	1.0 ≤ 1.8
Lead	0 ≤ 10	10 ≤ 17	n/a	n/a
Zinc	0 ≤ 50	50 ≤ 100	100 ≤ 200	200 ≤ 275

*Bold indicates peak values from 2010 sampling.

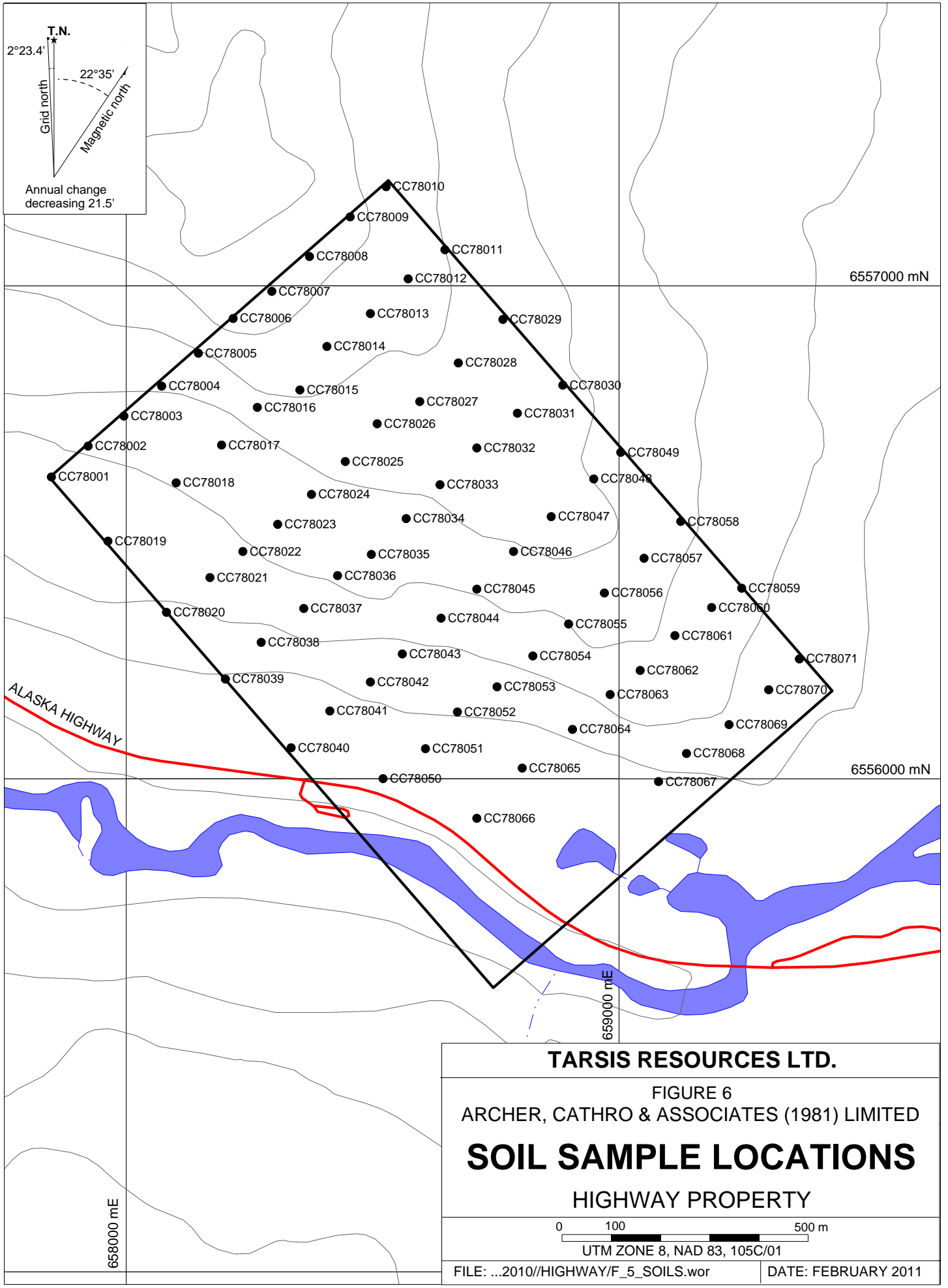
Strongly anomalous values for copper, silver and zinc occur as isolated highs. Lead values were background to weakly anomalous. There is a weak correlation between anomalous copper and zinc values, but no noteworthy correlation between the other elements.

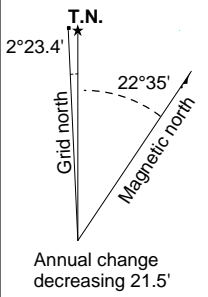
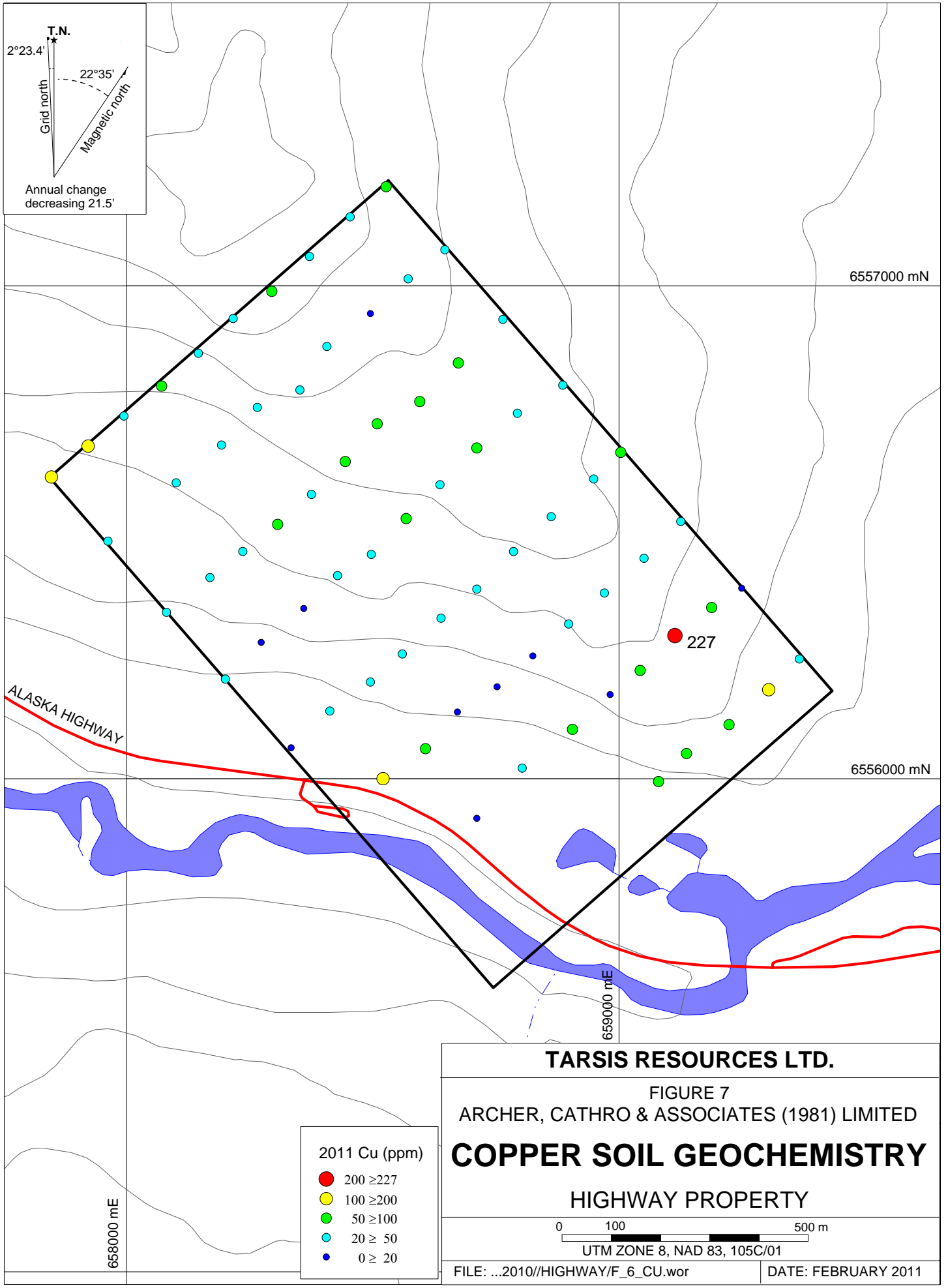
At this time, no correlation can be made between elevated soil sample values and geology.

The highest values for copper and zinc lie northeast and southeast of the geophysical anomaly, while a best silver value lies slightly downhill of it.

DISCUSSION AND CONCLUSIONS

The potential for VMS style mineralization on the Highway property remains mostly untested due to the coarse-scale of the soil sampling, the lack of mapping and prospecting and the presence of glacial overburden.





6557000 mN

6556000 mN

ALASKA HIGHWAY

227

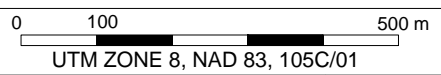
659000 mE

658000 mE

- 2011 Cu (ppm)
- 200 ≥ 227
 - 100 ≥ 200
 - 50 ≥ 100
 - 20 ≥ 50
 - 0 ≥ 20

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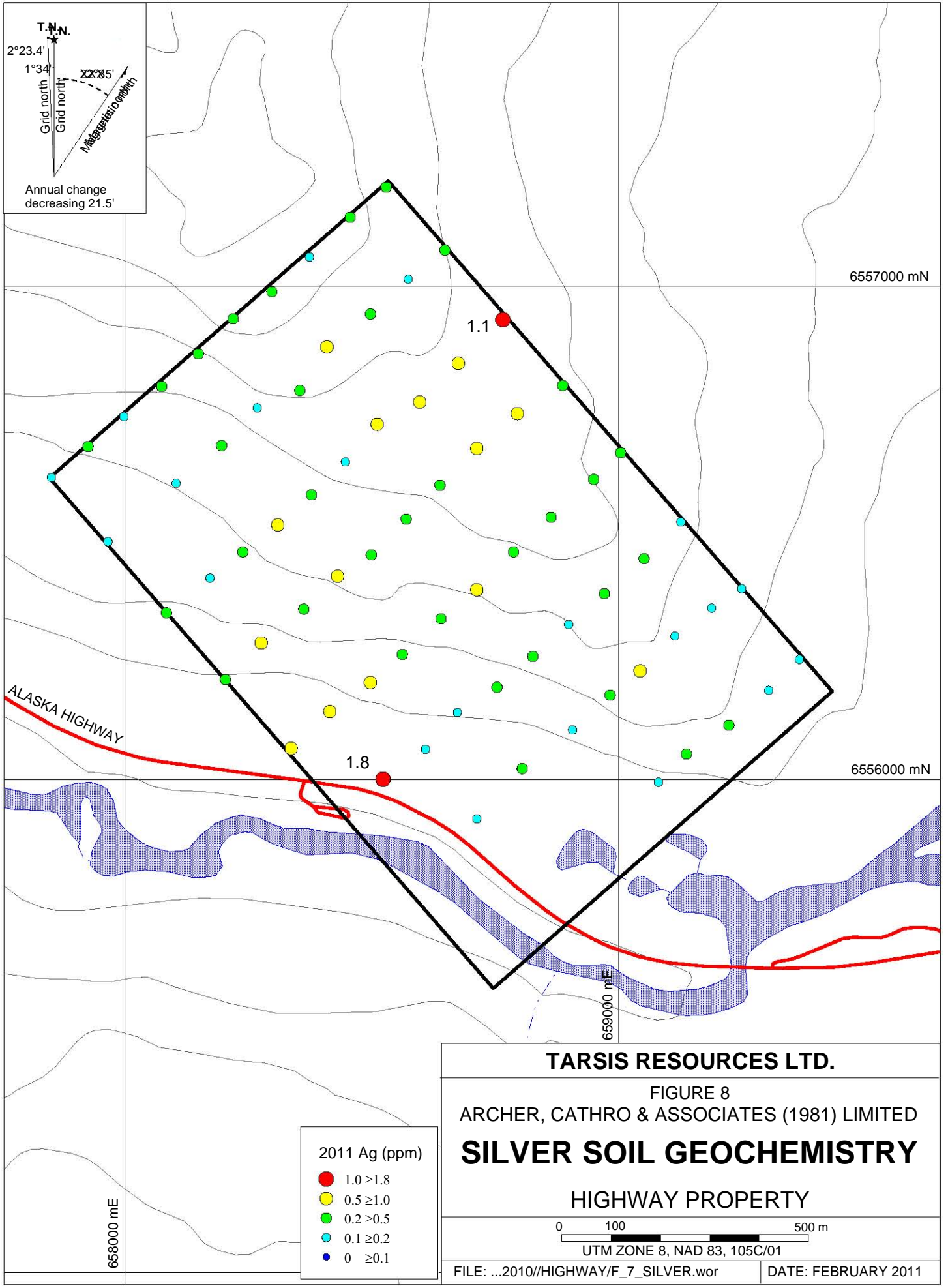
FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY
HIGHWAY PROPERTY

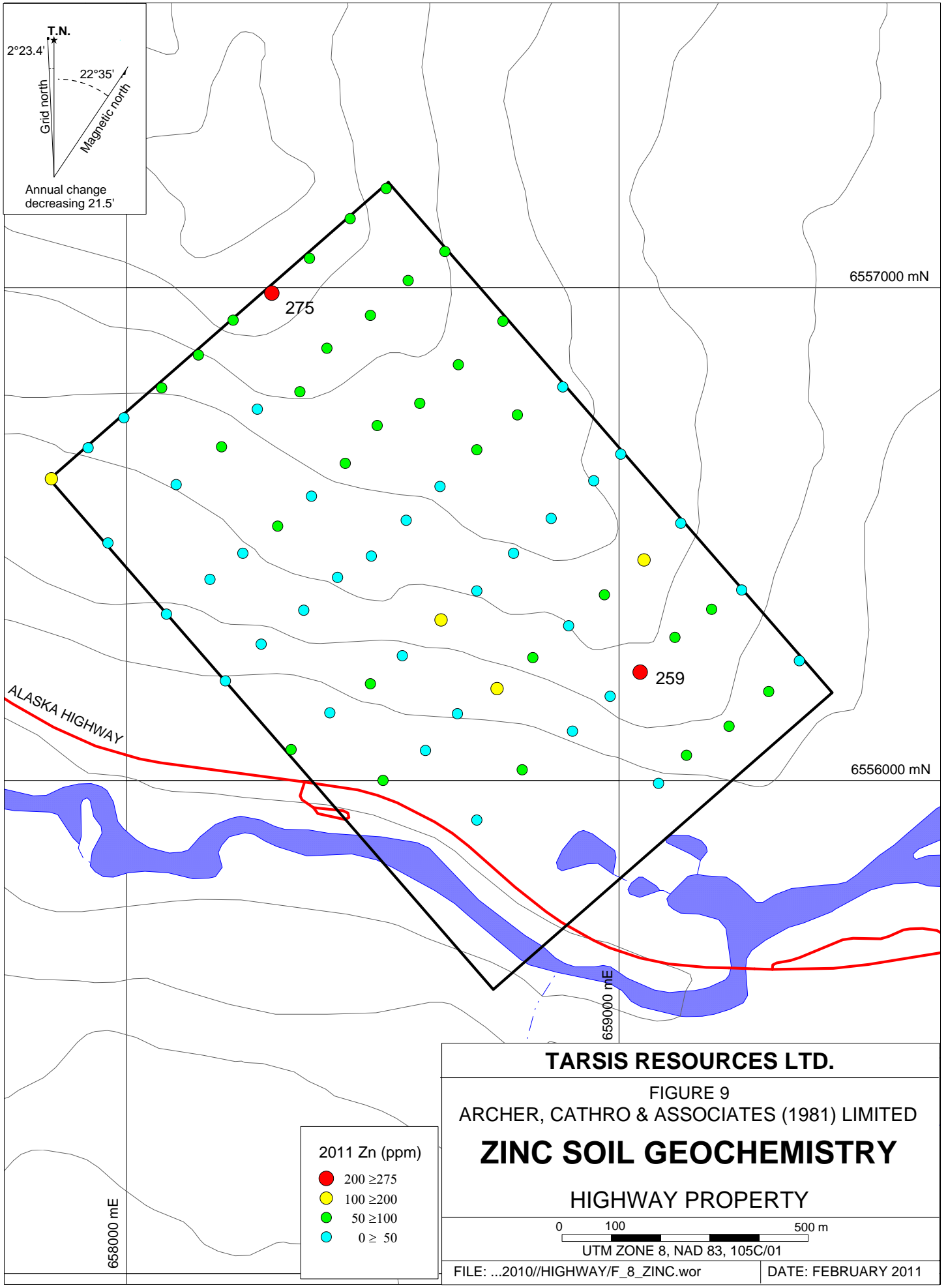


UTM ZONE 8, NAD 83, 105C/01

FILE: ...2010//HIGHWAY/F_6_CU.wor

DATE: FEBRUARY 2011





The 2010 soil sampling survey yielded some elevated copper, silver and zinc values. A follow up work program comprising infill soil sampling is recommended to try and define specific areas of interest.

Due to the limited bedrock exposure on the property, conventional mapping and prospecting are not recommended.

Respectfully submitted,

Archer, Cathro & Associates (1981) Limited

H. Smith, P.Geo.

REFERENCES

Colpron M., Nelson, J. L., Murphy, D.C.

- 2006 A tectonostratigraphic framework for the pericratonic terranes of the northern Cordillera, in Colpron, M. and Nelson, J.L., eds. Paleozoic Evolution and Metallogeny of Pericratonic Terranes at the Ancient Pacific Margins of North America, Canadian and Alaskan Cordillera; Geological Association of Canada, Special Paper 45, p. 1-23.

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address at #604-175 West 1 Street, North Vancouver, British Columbia, V7M 3N9 do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 150000).
4. I have personally directed the fieldwork reported herein and have interpreted all data resulting from this work.

Heather Smith, B.Sc., P.Geo.

APPENDIX II
CERTIFICATES OF ANALYSIS



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 2-JUL-2010
Account: F

CERTIFICATE VA10082261

Project: HIGHWAY(MOR)

P.O. No.:

This report is for 71 Soil samples submitted to our lab in Vancouver, BC, Canada on 21-JUN-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Total # Pages: 3 (A - C)
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Project: HIGHWAY(MOR)

CERTIFICATE OF ANALYSIS	VA10082261
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Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC78001		0.12	<0.2	2.38	3	<10	170	<0.5	<2	0.63	<0.5	19	41	120	3.96	10
CC78002		0.16	0.3	1.05	7	<10	150	<0.5	<2	0.68	<0.5	10	56	174	2.56	<10
CC78003		0.08	<0.2	1.47	3	<10	240	<0.5	<2	1.40	<0.5	9	34	27	2.54	10
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CC78005		0.12	0.3	1.87	<2	<10	310	<0.5	<2	0.34	<0.5	15	43	28	3.99	10
CC78006		0.12	0.2	1.53	2	<10	140	<0.5	<2	0.24	<0.5	19	76	35	3.35	10
CC78007		0.16	0.2	2.89	<2	<10	400	0.7	2	0.38	0.7	34	55	63	6.69	20
CC78008		0.12	<0.2	3.11	<2	<10	240	0.7	3	0.60	<0.5	25	90	24	6.86	10
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CC78010		0.16	0.2	1.91	5	<10	200	<0.5	2	0.31	<0.5	17	22	57	5.10	10
CC78011		0.12	0.2	1.81	<2	<10	130	<0.5	<2	0.32	<0.5	15	31	41	4.02	10
CC78012		0.12	<0.2	1.69	2	<10	180	<0.5	2	0.27	<0.5	18	31	27	4.92	10
CC78013		0.12	0.2	0.88	<2	<10	160	<0.5	<2	0.17	0.6	16	35	16	5.17	20
CC78014		0.16	0.5	1.50	2	<10	180	<0.5	<2	0.27	<0.5	13	28	30	3.88	10
CC78015		0.12	0.2	1.59	2	<10	190	<0.5	<2	0.31	<0.5	12	26	33	3.10	10
CC78016		0.14	<0.2	1.34	7	<10	100	<0.5	<2	0.24	<0.5	10	30	29	2.71	<10
CC78017		0.14	0.2	1.41	5	<10	160	<0.5	<2	0.43	<0.5	10	28	27	2.72	10
CC78018		0.18	<0.2	1.37	21	<10	70	<0.5	<2	0.23	<0.5	12	33	30	2.86	10
CC78019		0.16	<0.2	1.72	4	<10	250	<0.5	2	0.29	<0.5	12	38	24	2.66	<10
CC78020		0.16	0.2	1.14	2	<10	160	<0.5	<2	0.61	<0.5	10	27	20	2.70	<10
CC78021		0.20	<0.2	1.39	2	<10	90	<0.5	<2	0.25	<0.5	9	29	23	2.75	10
CC78022		0.18	0.2	1.71	4	<10	190	<0.5	<2	0.28	<0.5	12	34	24	2.81	10
CC78023		0.12	0.9	2.29	10	<10	210	0.5	2	0.42	<0.5	19	33	72	5.15	10
CC78024		0.18	0.2	1.76	<2	<10	130	<0.5	<2	0.24	<0.5	10	33	26	2.78	10
CC78025		0.18	<0.2	1.81	4	<10	150	<0.5	<2	0.25	<0.5	14	34	64	3.04	10
CC78026		0.20	0.5	1.95	3	<10	130	<0.5	<2	0.24	<0.5	13	36	61	3.32	10
CC78027		0.16	0.6	1.74	2	<10	110	<0.5	<2	0.35	<0.5	13	30	55	3.21	10
CC78028		0.16	0.7	2.01	2	<10	190	<0.5	<2	0.32	<0.5	15	24	54	4.13	10
CC78029		0.14	1.1	2.26	4	<10	200	0.5	<2	0.29	<0.5	19	31	44	5.63	10
CC78030		0.16	0.3	1.32	<2	<10	150	<0.5	<2	0.39	<0.5	10	29	47	2.70	<10
CC78031		0.10	0.9	1.39	3	<10	80	<0.5	<2	0.20	<0.5	12	28	23	3.21	10
CC78032		0.14	0.7	2.28	4	<10	270	0.5	<2	0.37	<0.5	22	26	54	4.76	10
CC78033		0.14	0.3	1.57	3	<10	120	<0.5	3	0.19	<0.5	10	27	27	2.82	<10
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CC78038		0.14	0.5	1.23	4	<10	120	<0.5	<2	0.33	<0.5	10	31	17	2.51	<10
CC78039		0.18	0.3	1.40	3	<10	200	<0.5	<2	0.53	<0.5	10	24	30	2.44	10
CC78040		0.14	0.6	1.80	4	<10	220	<0.5	<2	0.33	<0.5	16	39	18	3.61	10



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Project: HIGHWAY(MOR)

CERTIFICATE OF ANALYSIS	VA10082261
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Sample Description	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	
	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
Method Analyte Units LOR	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	
CC78001	<1	0.30	<10	1.60	741	1	0.01	39	560	2	0.02	<2	3	27	<20	
CC78002	<1	0.07	10	0.71	404	2	0.02	43	820	4	0.03	<2	4	34	<20	
CC78003	<1	0.05	<10	0.66	272	2	0.02	26	250	6	0.04	<2	2	57	<20	
CC78004	<1	0.23	10	1.30	641	1	0.01	26	420	8	0.02	<2	5	22	<20	
CC78005	<1	0.16	10	0.89	718	1	0.01	28	680	5	0.02	<2	3	18	<20	
CC78006	1	0.07	10	1.15	334	1	0.01	54	640	3	0.02	<2	2	15	<20	
CC78007	<1	0.47	10	1.82	1430	2	0.02	47	670	13	0.02	<2	8	37	<20	
CC78008	<1	0.20	<10	3.61	497	2	0.01	64	350	4	0.02	<2	16	29	<20	
CC78009	<1	0.21	10	0.78	948	1	0.01	12	650	6	0.02	<2	2	18	<20	
CC78010	<1	0.31	<10	1.23	749	3	0.01	11	950	4	0.02	<2	3	20	<20	
CC78011	<1	0.15	<10	0.95	466	1	0.01	22	310	4	0.02	<2	3	21	<20	
CC78012	<1	0.19	10	0.82	956	2	0.01	13	1050	6	0.02	<2	3	21	<20	
CC78013	<1	0.12	10	0.32	835	2	0.01	11	1070	9	0.02	<2	1	12	<20	
CC78014	<1	0.20	<10	0.80	478	1	0.01	16	850	5	0.02	<2	2	20	<20	
CC78015	<1	0.13	<10	0.90	508	1	0.01	16	430	8	0.02	<2	2	23	<20	
CC78016	<1	0.08	10	0.61	365	1	0.01	25	110	5	0.01	<2	2	12	<20	
CC78017	<1	0.05	10	0.64	426	2	0.02	20	220	15	0.02	<2	3	20	<20	
CC78018	<1	0.05	10	0.65	303	4	0.01	36	210	8	0.01	<2	2	17	<20	
CC78019	1	0.05	10	0.68	271	1	0.02	36	300	3	0.01	<2	3	18	<20	
CC78020	<1	0.05	10	0.84	362	1	0.02	22	480	3	0.03	<2	2	27	<20	
CC78021	1	0.06	<10	0.69	311	1	0.01	19	180	3	0.01	<2	2	13	<20	
CC78022	<1	0.07	<10	0.75	521	2	0.01	31	440	5	0.01	<2	2	15	<20	
CC78023	1	0.26	<10	1.10	1380	3	0.01	31	820	14	0.02	<2	4	25	<20	
CC78024	<1	0.05	10	0.66	331	1	0.01	26	450	2	0.01	<2	2	14	<20	
CC78025	<1	0.06	10	0.92	415	1	0.01	46	430	4	0.01	<2	3	15	<20	
CC78026	<1	0.09	10	1.04	401	1	0.01	30	410	5	0.01	<2	3	16	<20	
CC78027	<1	0.14	10	0.99	411	1	0.01	30	690	6	0.01	<2	3	19	<20	
CC78028	<1	0.27	<10	1.19	458	1	0.01	17	800	3	0.01	<2	3	18	<20	
CC78029	<1	0.29	<10	1.16	678	2	0.01	20	1500	5	0.02	<2	3	16	<20	
CC78030	<1	0.08	10	0.75	380	1	0.01	24	800	2	0.02	<2	2	21	<20	
CC78031	<1	0.05	10	0.55	739	1	0.01	14	890	5	0.02	<2	2	10	<20	
CC78032	<1	0.19	<10	1.30	735	1	0.01	18	870	5	0.02	<2	4	18	<20	
CC78033	<1	0.05	10	0.81	414	<1	0.01	22	320	6	<0.01	<2	3	15	<20	
CC78034	<1	0.10	<10	1.11	382	<1	0.01	29	270	4	<0.01	<2	3	15	<20	
CC78035	<1	0.06	10	1.06	410	<1	0.02	20	520	4	0.01	<2	3	20	<20	
CC78036	<1	0.09	<10	0.72	552	1	0.01	29	390	8	0.01	<2	2	15	<20	
CC78037	<1	0.04	10	0.67	283	1	0.02	22	440	4	0.01	<2	2	20	<20	
CC78038	1	0.08	10	0.48	313	2	0.01	26	220	8	0.01	<2	2	19	<20	
CC78039	1	0.03	10	0.49	276	<1	0.01	22	200	5	0.02	<2	3	26	<20	
CC78040	<1	0.16	10	0.56	677	1	0.02	26	410	5	0.01	<2	2	23	<20	



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CERTIFICATE OF ANALYSIS VA10082261

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC78001		0.12	<10	<10	76	<10	110
CC78002		0.13	<10	<10	45	<10	48
CC78003		0.07	<10	<10	50	<10	34
CC78004		0.15	<10	<10	89	<10	57
CC78005		0.23	<10	<10	99	<10	58
CC78006		0.22	<10	<10	78	<10	58
CC78007		0.47	<10	<10	198	<10	275
CC78008		0.31	<10	<10	220	<10	71
CC78009		0.28	<10	<10	97	<10	69
CC78010		0.26	<10	<10	147	<10	85
CC78011		0.22	<10	<10	97	<10	75
CC78012		0.36	<10	<10	117	<10	76
CC78013		0.60	<10	<10	134	<10	88
CC78014		0.25	<10	<10	95	<10	56
CC78015		0.17	<10	<10	74	<10	55
CC78016		0.14	<10	<10	53	<10	41
CC78017		0.12	<10	<10	52	<10	68
CC78018		0.11	<10	<10	49	<10	49
CC78019		0.13	<10	<10	55	<10	36
CC78020		0.11	<10	<10	53	<10	40
CC78021		0.15	<10	<10	62	<10	38
CC78022		0.14	<10	<10	58	<10	47
CC78023		0.20	<10	<10	103	<10	90
CC78024		0.17	<10	<10	61	<10	44
CC78025		0.12	<10	<10	58	<10	57
CC78026		0.16	<10	<10	71	<10	51
CC78027		0.16	<10	<10	68	<10	51
CC78028		0.21	<10	<10	116	<10	57
CC78029		0.30	<10	<10	136	<10	87
CC78030		0.15	<10	<10	62	<10	42
CC78031		0.20	<10	<10	71	<10	72
CC78032		0.22	<10	<10	119	<10	71
CC78033		0.15	<10	<10	69	<10	40
CC78034		0.16	<10	<10	78	<10	42
CC78035		0.16	<10	<10	69	<10	44
CC78036		0.10	<10	<10	48	<10	36
CC78037		0.10	<10	<10	45	<10	30
CC78038		0.14	<10	<10	49	<10	44
CC78039		0.11	<10	<10	48	<10	36
CC78040		0.25	<10	<10	77	<10	77



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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
CC78041		0.18	0.7	1.68	10	<10	160	<0.5	<2	0.28	<0.5	14	35	35	3.20	<10
CC78042		0.14	0.7	2.03	3	<10	180	<0.5	<2	0.22	<0.5	14	32	22	3.43	10
CC78043		0.14	0.2	1.33	3	<10	120	<0.5	<2	0.28	<0.5	10	28	33	2.34	<10
CC78044		0.18	0.3	2.48	5	<10	340	0.7	2	0.27	0.8	18	36	26	4.66	10
CC78045		0.18	0.9	1.48	5	<10	180	<0.5	<2	0.31	<0.5	11	27	34	2.94	<10
CC78046		0.12	0.3	1.09	6	<10	110	<0.5	<2	0.32	<0.5	11	29	30	2.75	<10
CC78047		0.16	0.3	1.41	5	<10	130	<0.5	<2	0.24	<0.5	10	24	21	2.89	<10
CC78048		0.14	0.4	1.39	3	<10	120	<0.5	<2	0.28	<0.5	10	29	32	2.48	<10
CC78049		0.18	0.3	1.63	2	<10	230	<0.5	<2	0.32	<0.5	12	31	68	4.25	10
CC78050		0.16	1.8	1.79	7	<10	190	<0.5	2	1.41	<0.5	18	30	104	3.44	<10
CC78051		0.18	<0.2	1.18	4	<10	130	<0.5	<2	0.63	<0.5	10	34	62	2.51	10
CC78052		0.16	<0.2	1.66	2	<10	230	<0.5	2	0.43	<0.5	12	31	19	3.14	<10
CC78053		0.18	0.2	1.38	<2	<10	170	<0.5	2	0.19	0.7	14	29	12	3.43	10
CC78054		0.14	0.2	1.49	5	<10	170	<0.5	<2	0.24	<0.5	11	27	19	3.24	10
CC78055		0.16	<0.2	1.36	6	<10	90	<0.5	<2	0.22	<0.5	10	22	31	2.67	<10
CC78056		0.14	0.2	1.49	2	<10	140	<0.5	2	0.21	0.7	14	38	26	4.98	10
CC78057		0.14	0.3	1.90	3	<10	240	<0.5	<2	0.24	<0.5	18	26	33	4.72	10
CC78058		0.12	<0.2	1.42	5	<10	110	<0.5	<2	0.26	<0.5	10	30	36	3.02	<10
CC78059		0.16	<0.2	1.28	5	<10	130	<0.5	<2	0.31	<0.5	10	37	15	3.29	<10
CC78060		0.18	<0.2	2.74	3	<10	370	<0.5	4	0.57	<0.5	22	43	83	4.87	<10
CC78061		0.18	<0.2	3.14	3	<10	160	<0.5	<2	0.58	<0.5	22	22	227	4.38	<10
CC78062		0.12	0.5	1.78	3	<10	230	0.8	<2	0.59	<0.5	21	34	68	3.22	10
CC78063		0.14	0.2	1.27	2	<10	120	<0.5	4	0.22	<0.5	10	24	18	2.72	<10
CC78064		0.18	<0.2	1.37	3	<10	210	<0.5	<2	0.45	<0.5	10	30	56	2.63	10
CC78065		0.20	0.2	2.66	7	<10	260	0.5	<2	0.23	<0.5	14	48	21	3.68	10
CC78066		0.20	<0.2	1.28	4	<10	150	<0.5	<2	0.34	<0.5	10	40	14	2.33	10
CC78067		0.16	<0.2	1.33	2	<10	140	<0.5	2	0.58	<0.5	12	24	60	2.67	<10
CC78068		0.16	0.2	2.11	6	<10	190	<0.5	<2	0.33	<0.5	14	36	64	3.63	10
CC78069		0.18	0.3	1.99	7	<10	190	0.6	2	0.45	<0.5	15	34	93	3.57	<10
CC78070		0.16	<0.2	2.04	<2	<10	290	<0.5	3	0.49	<0.5	23	22	108	4.02	10
CC78071		0.12	<0.2	1.30	2	<10	190	<0.5	7	0.34	<0.5	10	32	24	2.82	<10



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	20	
CC78041		<1	0.08	<10	0.74	330	1	0.01	44	310	6	0.01	<2	2	<20	
CC78042		<1	0.10	10	0.75	484	2	0.02	21	260	4	0.01	<2	2	<20	
CC78043		1	0.03	10	0.56	388	<1	0.01	30	450	4	<0.01	<2	2	<20	
CC78044		1	0.08	10	0.60	894	<1	0.02	55	2770	5	0.01	<2	3	<20	
CC78045		<1	0.13	10	0.87	683	1	0.02	27	640	3	<0.01	<2	3	<20	
CC78046		<1	0.07	10	0.72	339	<1	0.02	28	850	4	<0.01	<2	2	<20	
CC78047		<1	0.05	<10	0.66	527	<1	0.01	23	530	4	<0.01	<2	2	<20	
CC78048		<1	0.08	10	0.79	436	<1	0.01	27	560	5	0.01	<2	2	<20	
CC78049		<1	0.04	10	0.80	398	1	0.02	17	470	9	0.01	<2	3	<20	
CC78050		1	0.17	10	1.21	865	<1	0.02	32	720	4	0.06	<2	3	<20	
CC78051		1	0.08	10	0.73	419	<1	0.02	32	520	4	0.01	<2	3	<20	
CC78052		<1	0.13	10	0.58	639	<1	0.01	23	290	5	0.01	<2	3	<20	
CC78053		<1	0.05	10	0.42	868	<1	0.01	15	1570	8	0.01	<2	2	<20	
CC78054		<1	0.09	<10	0.58	428	<1	0.01	21	550	5	0.01	<2	2	<20	
CC78055		1	0.07	<10	0.75	297	<1	0.01	18	270	2	<0.01	<2	2	<20	
CC78056		<1	0.06	10	0.49	608	1	0.02	21	610	8	0.01	<2	2	<20	
CC78057		<1	0.16	10	0.90	830	<1	0.02	17	1850	5	0.01	<2	2	<20	
CC78058		<1	0.09	<10	0.78	289	<1	0.01	23	570	5	0.01	<2	2	<20	
CC78059		<1	0.11	<10	0.48	269	1	0.01	23	260	4	0.01	<2	2	<20	
CC78060		<1	0.64	<10	1.91	688	<1	0.02	31	770	3	0.01	<2	4	<20	
CC78061		<1	0.04	<10	2.58	1160	<1	0.01	20	670	<2	0.01	<2	6	<20	
CC78062		<1	0.04	20	0.40	425	<1	0.02	66	1500	17	0.01	<2	3	<20	
CC78063		1	0.07	<10	0.53	449	<1	0.01	19	530	4	0.01	<2	2	<20	
CC78064		<1	0.06	10	0.84	343	<1	0.02	26	570	4	<0.01	<2	3	<20	
CC78065		<1	0.12	10	0.76	543	<1	0.02	38	750	6	0.01	<2	4	<20	
CC78066		<1	0.04	10	0.60	323	<1	0.01	28	420	2	<0.01	<2	4	<20	
CC78067		1	0.16	10	0.95	374	<1	0.02	22	690	2	0.01	<2	3	<20	
CC78068		<1	0.24	<10	1.03	475	<1	0.01	30	370	4	0.01	<2	3	<20	
CC78069		<1	0.10	10	0.78	825	3	0.02	65	590	9	<0.01	<2	4	<20	
CC78070		<1	0.38	10	0.97	844	2	0.02	21	610	6	<0.01	<2	4	<20	
CC78071		<1	0.10	<10	0.48	223	3	0.01	20	550	6	<0.01	<2	2	<20	



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
CC78041		0.13	<10	<10	59	<10	37
CC78042		0.20	<10	<10	74	<10	50
CC78043		0.15	<10	<10	49	<10	38
CC78044		0.33	<10	<10	85	<10	105
CC78045		0.16	<10	<10	59	<10	46
CC78046		0.15	<10	<10	59	<10	35
CC78047		0.17	<10	<10	56	<10	39
CC78048		0.13	<10	<10	56	<10	38
CC78049		0.42	<10	<10	133	<10	46
CC78050		0.13	<10	<10	62	<10	56
CC78051		0.12	<10	<10	48	<10	35
CC78052		0.17	<10	<10	67	<10	46
CC78053		0.27	<10	<10	66	<10	144
CC78054		0.23	<10	<10	75	<10	56
CC78055		0.13	<10	<10	60	<10	34
CC78056		0.36	<10	<10	98	<10	96
CC78057		0.35	<10	<10	105	<10	146
CC78058		0.17	<10	<10	70	<10	39
CC78059		0.22	<10	<10	82	<10	36
CC78060		0.32	<10	<10	142	<10	75
CC78061		0.14	<10	<10	111	<10	66
CC78062		0.21	<10	<10	53	<10	259
CC78063		0.16	<10	<10	61	<10	41
CC78064		0.14	<10	<10	54	<10	38
CC78065		0.20	<10	<10	75	<10	80
CC78066		0.12	<10	<10	50	<10	33
CC78067		0.14	<10	<10	60	<10	41
CC78068		0.19	<10	<10	85	<10	51
CC78069		0.18	<10	<10	63	<10	58
CC78070		0.24	<10	<10	100	<10	64
CC78071		0.15	<10	<10	69	<10	45