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**REPORT**

**BC Geological Survey  
Assessment Report  
30304**

**on the**

**CHRISTMAS LAKE PROJECT**

**Canim Lake Area  
Clinton Region, British Columbia**

**Latitude 51° 54' N., Longitude 120° 46' W.  
NTS map sheet 92P/15W**

**by**

**James W. McLeod, P.Geo.**

**on behalf of**

**Omega Exploration Services Inc.**

**October 15, 2008  
Savona, British Columbia**

**BRITISH COLUMBIA  
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**30304**

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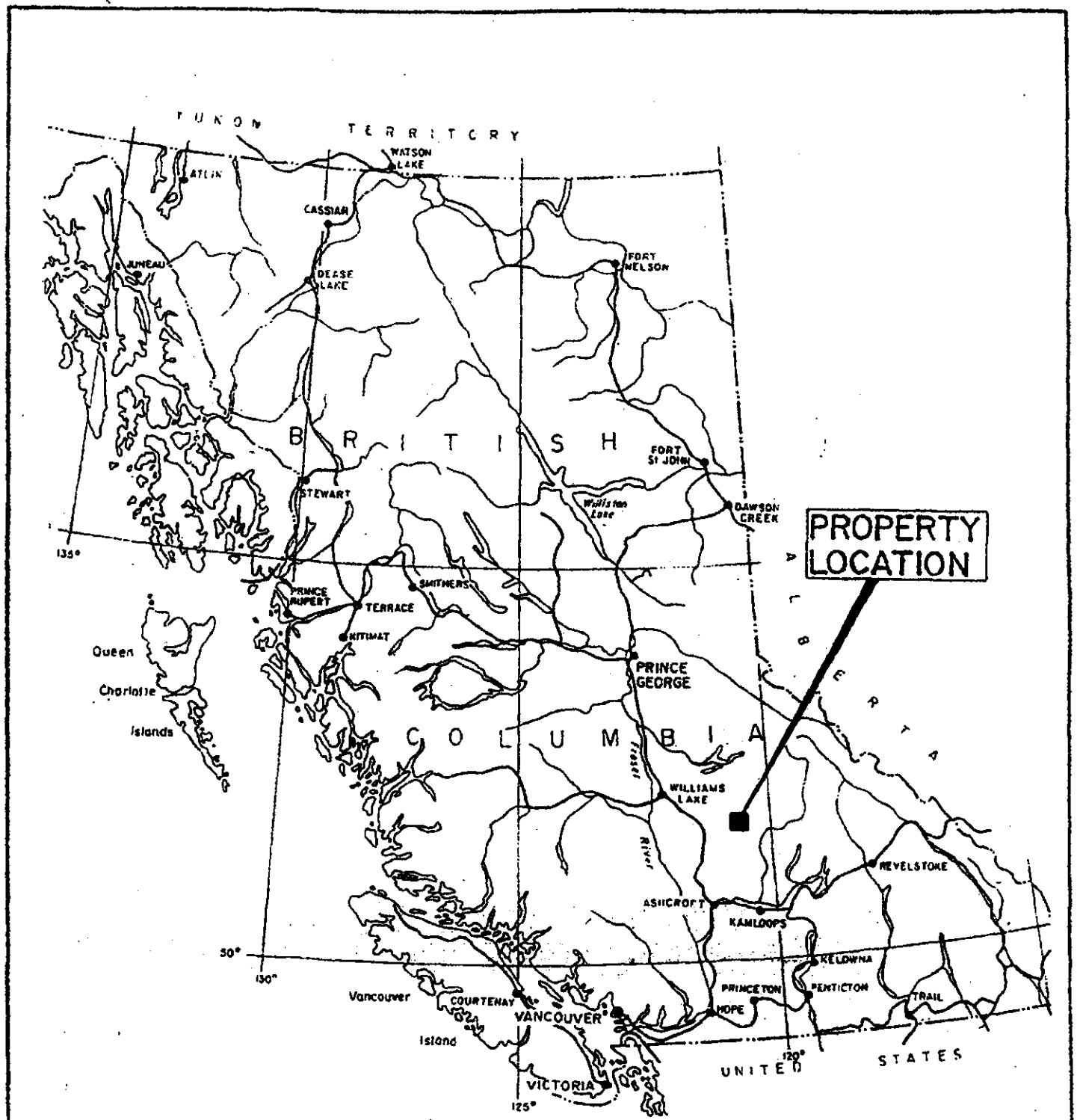
## **SUMMARY**

The Christmas Lake project described in this report is located on the north side of Canim Lake in the Clinton Mining region, south central British Columbia, Canada.

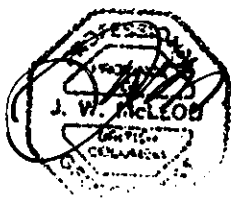
The current fieldwork included a reconnaissance geological and geochemical MMI program that is reasonably detailed in the grid area over areas previously sampled by conventional soil survey methods that underwent ICP analyses and a reconnaissance portion that is entirely of the MMI and IONIC Leach method. The IONIC Leach data from the current fieldwork program (73 samples) stands alone because the historical ICP data was probably too qualitative with many partial digestions and much higher detection limits. Any reasonably current MMI data from the Lisa zone in the northwest corner of the property appears to be possibly an area with more base metal and precious metal, mixed mineralogy (see References - 2006 Assessment Report) that could possibly be due to a different vertical position in the hydrothermal system.

## **INTRODUCTION**

The current fieldwork program was undertaken during the periods July 26-August 5, 2008, note partial days. The current program was undertaken to try and relate previous anomalous soil and rock results using the mobile metal ion soil (MMI) sample method and the IONIC leach digestion. Remnants of the old South grid were encountered and were used in locating the precise sample location sites. The current grid areas cover portions of the old survey area that contain some of the anomalous gold results. The present survey area may occur at a different elevation in the hydrothermal system when compared to the northwestern (Lisa) zone. It is thought that the non-ferrous sulphides encountered or observed in the current survey area may offer a wider range of indicator minerals that could be used in locating the expected gold occurrences. Copper, zinc and arsenic appear from previous, limited soil sampling surveys to display some interrelationship and contourable values. The current fieldwork program included mobile metal ion (MMI) soil sampling techniques, IONIC leach digestion and induction coupled plasma mass spectrophotometer (ICPMS) analyses that renders generally very low detection limits and very complete or possibly much more total digestion.



**PROPERTY  
LOCATION**



**OMEGA EXPLORATION SERVICES INC.**

**CHRISTMAS LAKE PROJECT  
LOCATION MAP**

N.T.S. 92P-15W      CLINTON M.D., B.C.

0      200      400      600 KM.

SCALE: AS SHOWN	DATE: NOV. 2008
DRAWN BY: J. M.	FIGURE NO. 1

## **LOCATION AND ACCESS**

The claim area may be located on NTS map sheet, 92P/15W at latitude 51° 54' north and longitude 120° 46' west. The property is situated approximately 42 km. (25 airmiles) northeast of the Town of 100 Mile House, B.C. on the north side of Canim Lake. The property is situated in the Clinton Mining region, British Columbia.

Access to the mineral claims is gained by traveling 55 km. (33 miles) east of 100 Mile House, B.C. on the good all weather Boss Mountain-Hendricks Lake road to Christmas Lake and the property.

Property roads traverse much of the mineral claim, especially the Areas of Interest.

## **TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT**

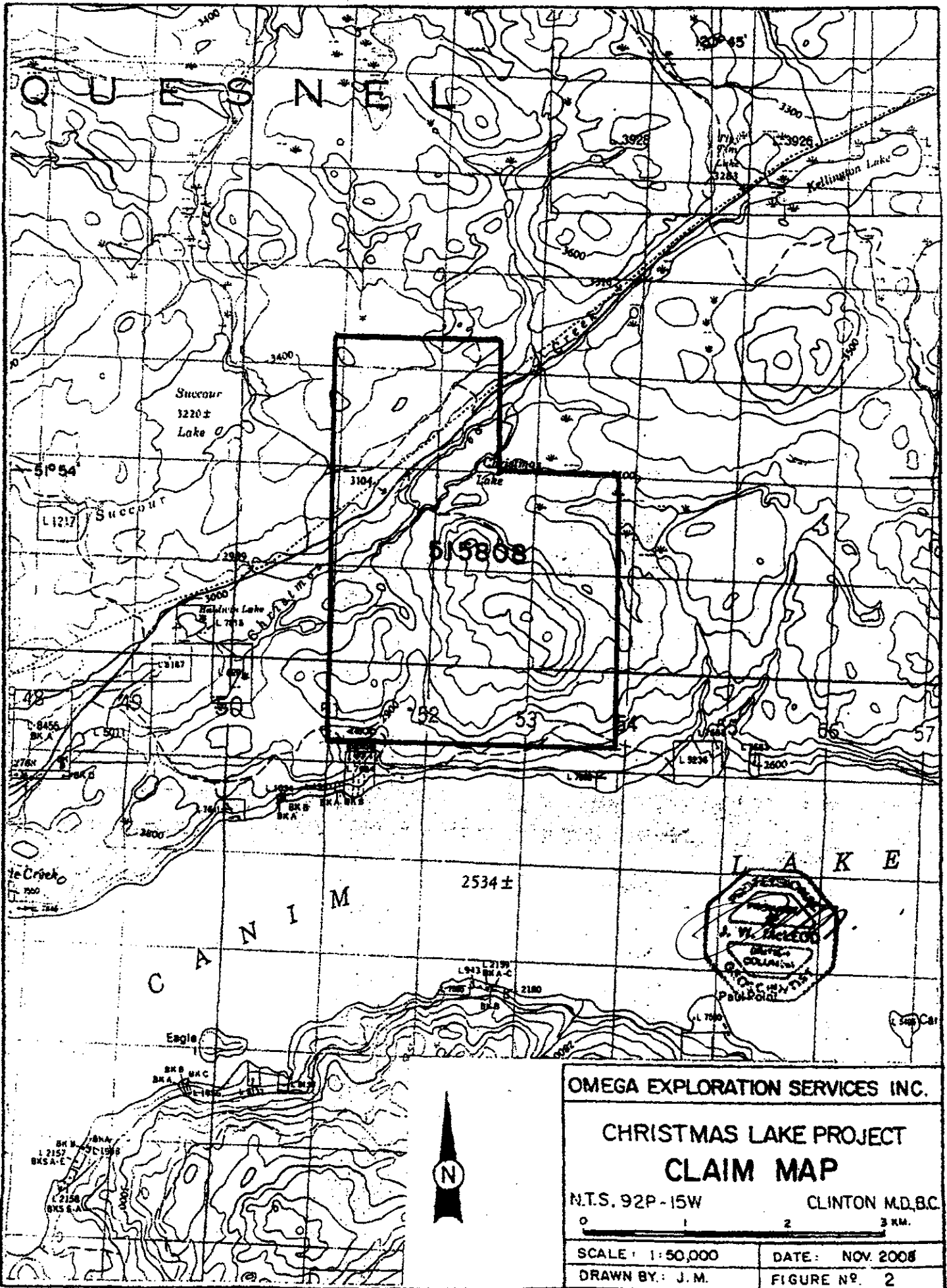
The mineral claim lies within the Fraser plateau zone or physiographic belt of the larger Interior plateau region and covers low, rounded mountainous terrain. The resulting topographic features probably originated from deeper crustal movements that produce contraction and expansion zones through the crust offering zones of weakness. The area has been glaciated, but overburden in the claim area is not thought to be very deep.

The claim area is mainly a coniferous tree (spruce, pine and some cedar) covered plateau or terraced benches with some scattered patches of deciduous forest, such as Western white birch, cottonwood and aspen. The elevations of the claim area range from 900 metres (2,950') to 1,250 metres (4,100').

The general area experiences approximately 90 cm. (35") of precipitation annually, of which 15% - 20% may occur as a snow equivalent. The winter weather is moderately cold with, not infrequent warming periods. The summer weather could be described as variable, some dry and hot and others cool and wet. The local area can experience a squall-type of weather in any season.

## **PROPERTY AND OWNERSHIP**

The property is situated in the Clinton Mining region of British Columbia, Canada at latitude 51° 54' north and longitude 120° 46' west.



The original claims that were located, four-post, lode mineral claims were comprised of two contiguous blocks that together were known as the Christmas Lake property have been converted electronically to a single mineral claim listed as follows:

<u>Name</u>	<u>Tenure No.</u>	<u>Cells</u>	<u>Good to Date</u>
Christmas Lake	515808	54	Aug. 22, 2010

The Christmas Lake Project is comprised of 54 contiguous cells. The mineral tenure covers a total area of 1077 hectares or 2,660 acres.

The mineral claim is owed 100% by Omega Exploration Services Inc. of Savona, British Columbia, Canada.

## **HISTORY**

The recorded mining history of the general mineral claim area dates from the 1970's when exploration emphasis was directed toward the porphyry copper discovery. It wasn't until the gold hunt became intense in the late 1970's and early 1980's that exploration activities in the project area increased. The following scenario describes the exploration evolution of the Christmas Lake property. Some rock hand pits, bulldozer trenching and several A-sized diamond core drill holes of unknown location were undertaken peripheral to the large area of interest worked during the early 1970-80's porphyry period.

The exact date of this initial work is not known and is not available in the public record. In 1983 after the discovery of the QR (Quesnel River) gold deposit to the north-northwest of this property, a geological examination of the claim area revealed some lode gold indications and the property was staked on behalf of the E&B Syndicate (a German, foreign, exploration tax fund) operating out of Calgary, Alberta. E&B joint ventured the Christmas Lake Gold project with Ming Mines Limited of Vancouver, BC in 1985. The period 1985-87 saw Ming Mines fund the geological, geochemical and geophysical work on the property that constituted the j.v. activities. By 1990 Ming Mines had, at a cost of approximately \$140,000, earned a 50% interest in the Christmas Lake gold property. The fieldwork was carried-out by the operator, E&B (later this entity was taken over by Mascot Gold Mines Ltd.

of Vancouver, B.C.). From approximately 1988 to 2001, the property remained in good standing, but did not undergo further fieldwork until 2002 when trenching, rehabilitation of the property roads and some of the historical grid and an orientation sampling program were undertaken. In 2003 a two diamond drill hole (DDH) program was completed. Since this time the author has conducted some magnetometer, self potential, soil and rock exposure sampling in the northwest quadrant of the mineral claim on what used to be the Lisa mineral claim. This is the area where during the period 1985-87 a soil and rock exposure sampling program returned highly anomalous gold values, but where the exact location of the sample sites could not be re-established.

## **GEOLOGY**

The property covers an area underlain by interlayered volcanoclastic and tuffaceous rock units assigned to the Upper Triassic age Nicola Group. Included in this assemblage are fine grained, crystalline andesites and/or diorites. These older units are in places intruded by quartz diorite of possible Cretaceous or younger age that are tentatively assigned to the Takomkane batholith type-unit occurring to the northeast of the claims. Volcanic dykes and overlying flows that appear to be the youngest rocks in the area, of possible Tertiary age, are also reported to have been observed cutting and overlying the older units. The property hosts a main zone of gold-bearing mineralization and several ancillary zones. The highest gold values encountered to date range from 1.5 - 6.0 grams (0.047- 0.193 oz/tonne). The mineralized areas are contained within larger zones of propylitic alteration and hornfelsing within the older rocks that may indicate varying proximity to the intrusive rocks.

Generally speaking, the conduits that allowed invasive igneous activity and subsequent hydrothermal alteration and mineralizing action appear to center about the northside of Canim Lake. This northeast trending zone appears to have been affected by moderately strong east-west faulting that in this particular area suggests low to moderately steep, possible northeasterly dipping structures.

The volcanoclastics, tuffs and generally fine grained, micro-porphyrific, crystalline rock units observed on the property have a similar appearance to the Central Belt units of the Nicola Group rocks that the writer has observed at a number of locations to the south in the Aspen Grove - Princeton areas



of British Columbia. Locally these alkalic rocks may be interlayered with aphanitic textured tuffs of possible rhyodacite composition. The apparently youngest rock units observed in the claim area is a micro-porphyrific hornblende diorite that is observed to lie (or intrude) concordantly in the older layered sequences and to cut, in places, discordantly across these same units. These younger intrusive crystalline units may have considerable effect on the selective emplacement of the gold mineralization.

## **PREVIOUS WORK PROGRAMS**

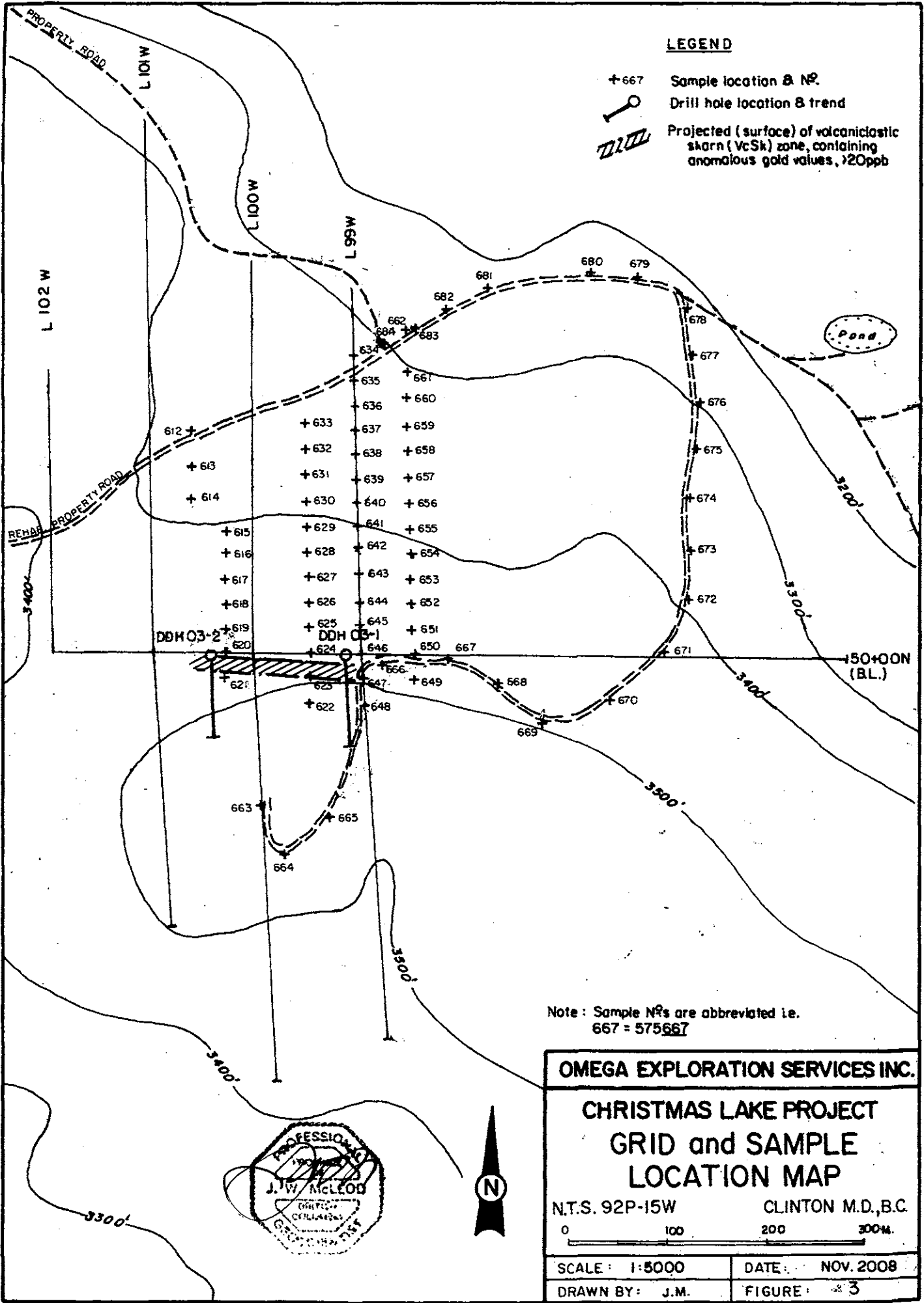
During the period 1983-87 the property underwent geological mapping, rock and soil geochemistry, magnetometer, very low frequency electromagnetic (VLF-EM) and induced polarization (IP) surveying, as well as, hand, hoe and bulldozer trenching in widespread areas. A number of coincidentally anomalous areas of interest have been delineated.

During the period 2002-06 the property underwent a two DDH program and further rock trenching, some localized soil and rock sampling, self potential and magnetometer work in an area that had not undergone these surveys in the past. In 2006 the northwestern (formerly the Lisa) area underwent a limited prospecting IP survey and some coincident MMI sampling. The results that are seen in places to offer some coincidence between the various groups of elements for instance the Gold - Porphyry - Base Metal Suites, as well as the IP data.



## **CURRENT WORK PROGRAM**

The current fieldwork program was conducted by the author's exploration crew during the period July 26 - August 05, 2008. The program consisted of rehabilitating 1.3 km. of survey grid, as well as considerable access road brushing-out of 2.8 km.


A total of 73 MMI soil samples were taken from the 10cm - 25cm. vertical horizon, that is measured from the bottom of the organic layer (ground cover, humus, "root hairs"). An area roughly 0.5 metre<sup>2</sup> is cleaned off and a vertical face is dug through the organic zone. The type and thickness of this zone is recorded. The vertical face is deepened through the soil zone below the organic layer. The author tries to achieve an approximately 25 cm. vertical soil horizon. The soils in the property area can generally be described as podzols which have developed under coniferous cover. The

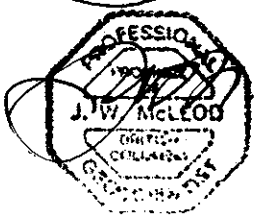


**LEGEND**


- +667 Sample location & No.
-  Drill hole location & trend
-  Projected (surface) of volcaniclastic skarn (VcSk) zone, containing anomalous gold values, >20ppb

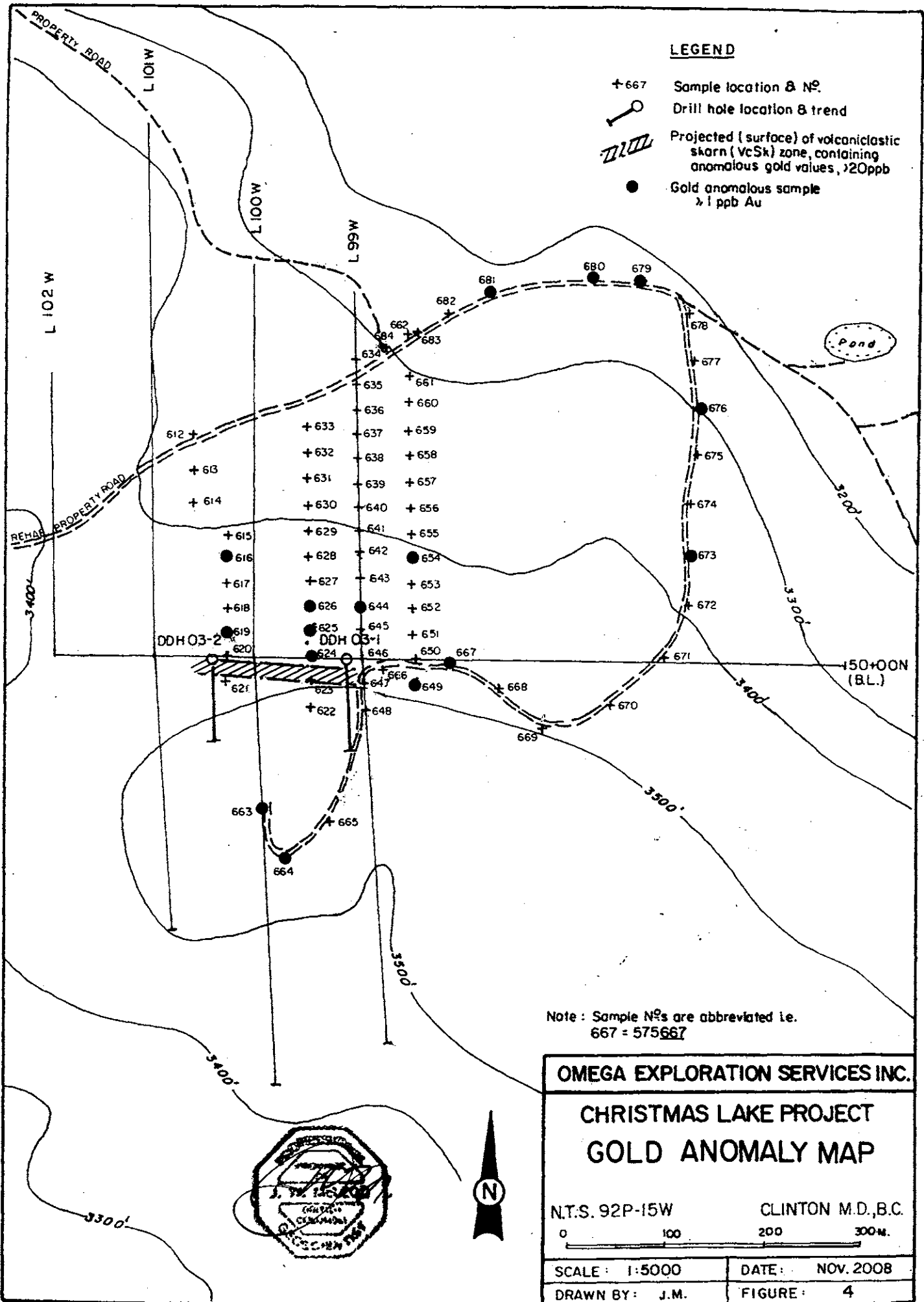
Note: Sample Nos are abbreviated i.e.  
667 = 575667

<b>OMEGA EXPLORATION SERVICES INC.</b>	
<b>CHRISTMAS LAKE PROJECT GRID and SAMPLE LOCATION MAP</b>	
N.T.S. 92P-15W	CLINTON M.D., B.C.
	
SCALE: 1:5000	DATE: NOV. 2008
DRAWN BY: J.M.	FIGURE: 3



**LEGEND**

- + 667 Sample location & No.
- Drill hole location & trend
-  Projected (surface) of volcaniclastic skarn (VcSk) zone, containing anomalous gold values, >20ppb
- Gold anomalous sample > 1 ppb Au



Note : Sample Nos are abbreviated i.e.  
667 = 575667

**OMEGA EXPLORATION SERVICES INC.**

**CHRISTMAS LAKE PROJECT  
GOLD ANOMALY MAP**

N.T.S. 92P-15W

CLINTON M.D., B.C.

0 100 200 300M.

SCALE : 1:5000

DATE : NOV. 2008

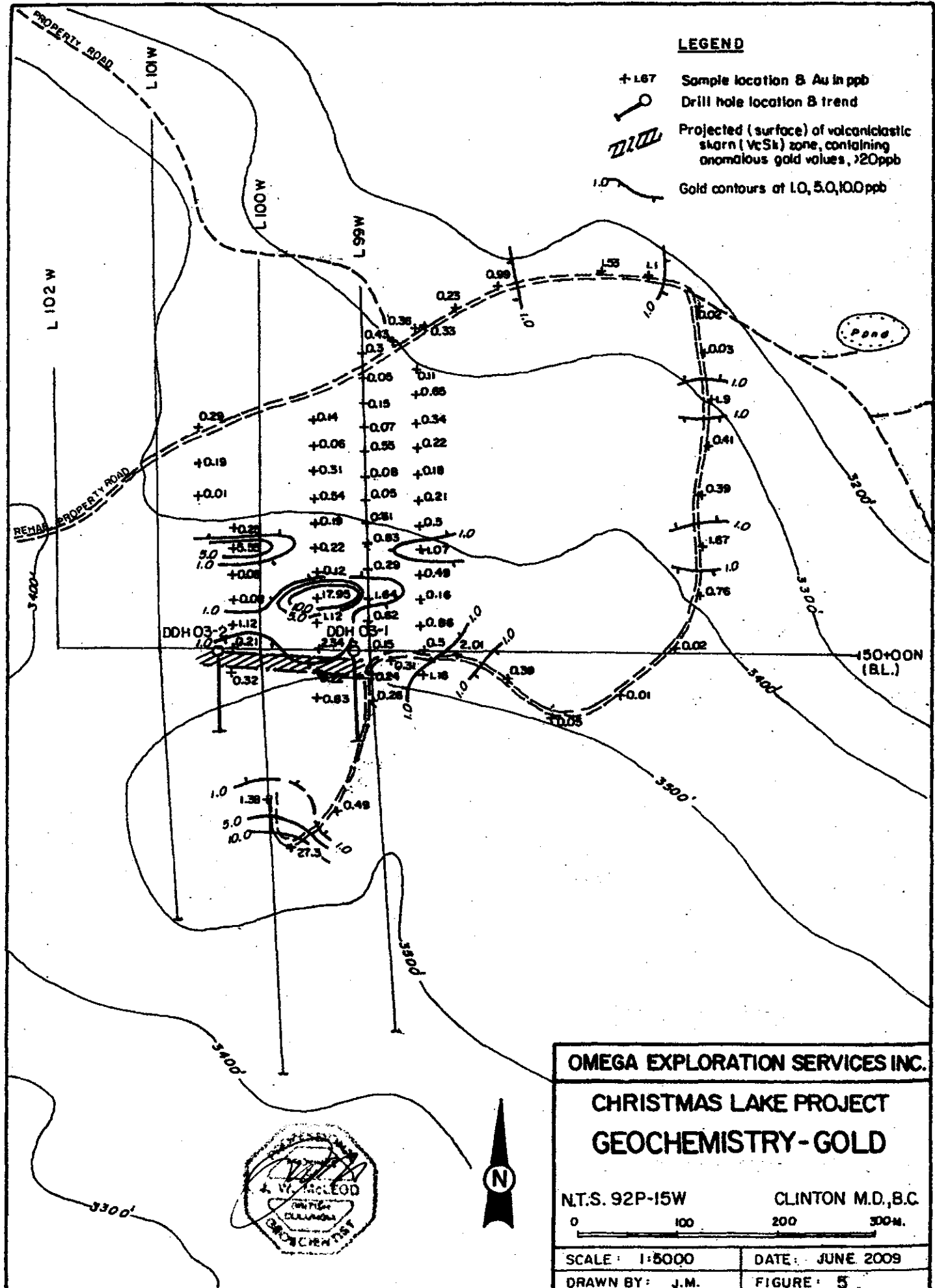
DRAWN BY : J.M.

FIGURE : 4

soil texture and type of horizon, i.e. "A" (often a greyish, bleached) horizon, sometimes followed by a "B" (often a rusty, oxidized and sometimes enriched) horizon. The interval to be sampled in this mobile metal ion (MMI) soil section ranging from 10 cm. - 25 cm. in vertical thickness is sampled with a plastic scoop and the soil is put through a plastic sieve with openings of 0.635 cm (1/4") and the undersized is caught in a plastic (gold) pan. The use of plastic tools because they are thought to be essentially chemically benign and of course the need of thorough cleaning of the collection tools between each sample. The 0.84 - 1.84 kilogram samples were bagged and tagged in marked 30 cm. x 30 cm. Ziploc bags. The samples were taken to ALS Chemex laboratory in North Vancouver, B.C. where they are registered using our project name and sample numbers and then sent by air to Perth, Australia for IONIC leach digestion and subsequent induction coupled plasma (ICP) analyses. The samples underwent the ME-MS23 (multi-element) package.

## CONCLUSIONS

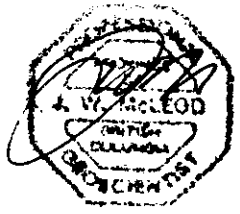
The current IONIC leach results exhibit very few anomalous clusters or suites of elements, but generally solitary, anomalous gold values are reasonably abundant as 22% of the gold results fall in this category. Only one sample, the one with the highest gold value, #575664 exhibited significant clustering with other anomalous elements. The other anomalous elements are as follows: Co, Cu, Dy, Er, Gd, Ho, Lu, Ni, Pd, Tb, Tm, Y and Yb. The entire Gold Exploration Suite with the exception silver is present in this sample. The other two highly anomalous gold samples are # 575616 and 575626. There are no other coincidentally anomalous elements with # 575616. Sample # 575626 has only Ag, Hg and Sb. On the basis of this feature and characteristics revealed in the both the current and historical data only the element gold underwent the standard descriptive statistical tests. These are defined and include a definition of their respective background - anomalous divisions as derived by frequency distribution curves for the elemental analytical results, albeit from a small population, as follows:



**LEGEND**

- +L67 Sample location & Au in ppb
- Drill hole location & trend
- Projected (surface) of volcaniclastic skarn (VcSk) zone, containing anomalous gold values, >20ppb
- Gold contours of 1.0, 5.0, 10.0ppb

<b>OMEGA EXPLORATION SERVICES INC.</b>	
<b>CHRISTMAS LAKE PROJECT</b>	
<b>GEOCHEMISTRY - GOLD</b>	
N.T.S. 92P-15W	CLINTON M.D., B.C.
SCALE: 1:5000	DATE: JUNE 2009
DRAWN BY: J.M.	FIGURE: 5



Gold

- 1) Mean plus 2x standard deviations (SD) = 2.16 ppb
- 2) 95% anomalous gold threshold = 1.16 ppb
- 3) 2006 anomalous threshold for gold from the former Lisa area = 0.60 ppb
- 4) Used 1 ppb that is a conservative choice and a value still 50 times the ICPMS detection limit for gold

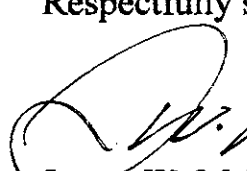
**RECOMMENDATIONS**

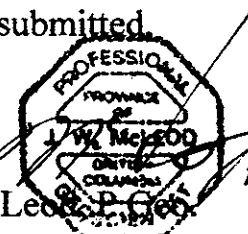
A follow-up core drilling program is required to test for the validity of these results. If there are continuing positive results, this may well be a useful method to use in the Interior plateau area where rock exposures can be scarce and young volcanic flow units often mask the older units.

**COST ESTIMATE**

Geologist, supervision and assistants for 30 days	\$ 13,500
Camp and board for 90 mandays	4,500
Transportation rentals and fuel	4,000
Small diameter core drilling, 150m. all inclusive	7,500
Analyses and assays	1,000
Permits, fees, filings, insurance, etc.	1,500
Reports and maps	1,000
Contingency	<u>3,000</u>
Total	\$ 36,000

Respectfully submitted

  
James W. McLeod, P. Geol.



## STATEMENT OF COSTS

Geology and supervisory work, James W. McLeod  
at \$500/day for the following days July 26-28, 30;  
1/2 days, August 2-5, 2008 \$ 3,000

Field assistants performing grid installation, road access  
clearing work and MMI soil sampling:

1) Jacqueline A. McLeod at \$250/day worked July 28-29,  
31; 1/2 days July 26, 28, 29, 31 and August 2-5, 2008  
= \$ 1,750

2) Ryan Barnes at \$100/day worked July 27-31 and August  
2-4; 1/2 days July 26 and August 5, 2008 = \$ 900

3) Sam McLeod at \$100/day worked July 27-31 and August  
2-4; 1/2 days July 26 and August 5, 2008 = \$ 900 \$ 3,550

Board, 44 mandays 1,370

Equipment rentals: RV trailer, chainsaws,

Four Trac and supplies 2,200

IONIC leach analyses 3,200

Report and maps 900

Transportation and travel 780


Total \$15,000


## CERTIFICATE

I, **JAMES W. McLEOD**, of the Village of Savona, Province of British Columbia, hereby certify as follows:

- 1) I am a Consulting Geologist with an office at P.O. Box 216, 6857 Valley Road, Savona, B.C., V0K 2J0.
- 2) I am a Professional Geoscientist registered in the Province of British Columbia and a Fellow of the Geological Association of Canada.
- 3) I graduated with a degree of Bachelor of Science, Major Geology, from The University of British Columbia in 1969.
- 4) I have practiced my profession since 1969.
- 5) I have a direct interest in the Christmas Lake mineral claim.
- 6) The above report is based on personal field experience gained by myself in the general area during the past 37 years and on the Christmas Lake property in particular, during the past 7 years.

DATED at Savona, Province of British Columbia this 15th day of October 2008.

  
James W. McLeod  
Qualified Person





## REFERENCES

- British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Reports – 3,547, 14,239, 14,452, 15,699 and 16,170.
- Campbell, R.B.: Quesnel Lake west half, GSC, Map 3-1961.
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- Preto, V. A., 1972. Geology of Copper Mountain. Bulletin 59, British Columbia Department of Mines and Petroleum Resources.
- Preto, V. A. Geology of the Nicola Group between Merritt and Princeton. Bulletin 69, British Columbia Ministry of Energy, Mines and Petroleum Resources.
- Tipper, H.W.: Quesnel, BC, GSC, Map 12-1959.

**APPENDIX 1**

**IONIC LEACH DATA**



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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

To: WESTERN MINERALS INC

PO BOX 216

SAVONA BC V0K 2J0

## CERTIFICATE VA08113496

Project: CLP

P.O. No.:

This report is for 73 Soil samples submitted to our lab in Vancouver, BC, Canada on 12-AUG-2008.

The following have access to data associated with this certificate:

JIM MCLEOD

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS23	IONIC Leach - Complete PKG.	ICP-MS
pH-MS23	MS23 Leach pH	

To: WESTERN MINERALS INC  
ATTN: JIM MCLEOD  
PO BOX 216  
SAVONA BC V0K 2J0

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: \_\_\_\_\_

Wayne Abbott, Operations Manager, Western Australia



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: WESTERN MINERALS INC  
 PO BOX 216  
 SAVONA BC V0K 2J0

Page: 2 - A  
 Total # Pages: 3 (A - D)  
 Finalized Date: 23-SEP-2008  
 Account: WEMINC

Project: CLP

## CERTIFICATE OF ANALYSIS VA08113496

Sample Description	Method	WEI-21	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Record Wt.	Ag	As	Au	Ba	Ba	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units	kg	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb
LOR	0.02	0.1	1	0.02	10	0.2	3	2	0.2	1	0.1	0.3	1	0.1	10	
575612		0.58	12.4	15	0.29	1280	1.7	↘	↘	186.5	22	42.1	47.6	61	14.7	950
575613		0.50	21.7	8	0.19	870	1.1	↘	↘	217	37	31.2	39.9	24	3.3	640
575614		0.42	6.1	27	<0.02	920	2.3	↘	↘	140.0	53	24.7	35.0	52	3.4	190
575615		0.62	23.5	28	0.25	840	1.9	↘	↘	131.5	31	50.0	29.1	67	4.8	450
575616		0.38	33.6	36	5.55	350	1.5	↘	↘	201	42	38.6	43.9	19	8.5	410
575617		0.30	2.7	32	0.08	1290	3.5	↘	↘	118.0	24	28.2	246	22	4.7	480
575618		0.30	2.2	36	0.08	1280	2.7	↘	↘	93.7	147	60.3	99.4	54	5.7	950
575619		0.28	10.3	11	1.12	160	0.6	↘	↘	174.5	10	48.7	83.1	5	2.8	740
575620		0.42	8.8	17	0.21	370	0.8	↘	↘	185.5	17	19.8	40.7	12	5.8	140
575621		0.50	12.3	13	0.32	650	1.6	↘	↘	165.5	29	48.9	36.5	61	4.6	370
575622		0.44	16.7	10	0.83	620	0.5	↘	↘	280	29	20.3	49.3	19	5.3	270
575623		0.26	1.5	10	0.22	640	2.0	↘	↘	314	82	15.7	101.0	20	3.9	320
575624		0.44	20.4	11	2.34	540	0.4	↘	↘	272	13	8.5	25.9	11	5.8	400
575625		0.36	20.9	10	1.12	570	0.4	↘	↘	290	14	15.8	33.4	13	3.3	390
575626		0.38	6760	12	17.95	370	1.8	↘	↘	238	61	32.6	31.4	13	7.6	1030
575627		0.44	48.1	14	0.12	740	2.1	↘	↘	221	46	28.4	69.6	28	4.3	460
575628		0.32	8.5	9	0.22	500	1.1	↘	↘	304	16	8.3	40.6	11	3.0	120
575629		0.22	2.0	17	0.19	650	3.8	↘	↘	142.5	22	6.0	384	12	5.5	1100
575630		0.50	16.2	14	0.54	610	1.6	↘	↘	222	24	146.5	66.2	46	1.0	930
575631		0.40	27.9	7	0.31	390	<0.2	↘	↘	353	17	10.4	20.4	7	2.5	630
575632		0.44	10.9	11	0.06	450	2.8	↘	↘	137.5	20	26.2	30.2	22	8.7	570
575633		0.58	23.3	9	0.14	650	3.4	↘	↘	141.5	9	78.7	42.6	41	4.1	640
575634		0.64	20.5	6	0.30	980	1.1	↘	↘	208	12	53.6	70.7	48	3.1	560
575635		0.48	61.2	7	0.05	480	2.7	↘	↘	153.0	16	103.5	44.8	24	5.8	700
575636		0.46	34.5	14	0.15	570	2.9	↘	↘	109.0	24	189.5	60.0	46	13.7	1080
575637		0.34	15.3	8	0.07	640	3.1	↘	↘	83.4	25	38.7	96.7	31	5.4	250
575638		0.48	17.9	5	0.55	2340	0.6	↘	↘	404	14	23.7	16.7	19	1.7	1130
575639		0.50	17.5	10	0.08	1030	3.5	↘	↘	117.0	14	75.0	57.3	30	7.4	250
575640		0.46	25.1	25	0.05	870	1.9	↘	↘	127.0	26	27.8	35.7	82	4.8	210
575641		0.42	51.2	6	0.61	190	1.1	↘	↘	214	29	76.1	48.8	6	17.4	2670
575642		0.32	15.9	19	0.83	270	3.1	↘	↘	145.0	23	48.1	63.6	25	4.1	520
575643		0.48	14.9	8	0.29	510	2.0	↘	↘	227	25	48.2	60.5	26	2.7	390
575644		0.48	14.2	4	1.64	750	0.9	↘	↘	211	7	56.0	135.5	16	5.1	1570
575645		0.24	2.5	8	0.62	510	1.6	↘	↘	353	43	16.7	70.9	8	2.9	480
575646		0.38	4.4	18	0.15	440	1.1	↘	↘	231	63	16.6	46.5	21	3.5	240
575647		0.34	8.5	9	0.24	360	1.8	↘	↘	188.5	63	19.8	56.3	20	3.9	1680
575648		0.32	1.8	14	0.26	390	0.9	↘	↘	411	38	9.2	57.6	8	2.4	430
575649		0.62	23.9	5	1.16	360	0.4	↘	↘	271	13	43.5	91.8	11	8.6	1120
575650		0.56	14.0	7	0.50	710	0.4	↘	↘	281	9	12.1	51.9	8	4.3	580
575651		0.66	18.7	10	0.86	420	1.2	↘	↘	175.5	8	110.0	52.6	43	4.0	740



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212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

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

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## CERTIFICATE OF ANALYSIS VA08113496

Sample Description	Method Analyte Units LOR	WEI-21	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
		Raced Wt. kg	Ag ppb	As ppb	Au ppb	Ba ppb	Be ppb	Bi ppb	Br ppm	Ca ppm	Cd ppb	Ce ppb	Co ppb	Cr ppb	Cs ppb	Cu ppb
575652		0.56	10.3	17	0.16	630	2.4	<3	<2	117.5	12	44.0	69.0	37	6.7	240
575653		0.62	15.4	10	0.49	660	2.9	<3	<2	75.3	11	66.6	113.0	43	7.6	540
575664		0.62	29.1	13	1.07	850	2.4	<3	<2	158.0	12	68.7	146.0	45	8.1	1320
575655		0.64	40.8	14	0.50	620	2.4	<3	<2	93.0	12	105.0	64.9	42	3.9	780
575656		0.58	16.4	5	0.21	420	1.6	<3	<2	224	31	51.1	78.0	8	4.4	1990
575657		0.56	31.4	22	0.18	410	2.8	<3	<2	146.5	28	42.2	46.8	50	5.8	430
575658		0.38	10.8	26	0.22	610	1.6	<3	<2	304	42	53.3	79.1	34	12.0	520
575659		0.60	21.7	12	0.34	920	1.5	<3	<2	268	20	28.6	120.0	54	9.7	560
575660		0.32	8.4	4	0.65	210	1.4	<3	<2	127.0	45	15.1	476	3	3.9	16000
575661		0.34	7.0	28	0.11	750	2.2	<3	<2	70.7	49	55.0	133.0	74	4.0	1840
575662		0.64	57.7	8	0.36	610	1.5	<3	<2	174.5	19	67.3	60.5	45	5.9	820
575663		0.60	25.0	31	1.38	380	1.1	<3	<2	227	38	41.1	77.1	18	8.6	470
575664		0.34	9.0	34	27.3	430	4.4	<3	<2	119.0	90	68.7	478	21	8.2	12800
575665		0.18	1.2	8	0.49	1550	2.1	<3	<2	646	412	10.2	75.4	9	3.7	800
575666		0.34	3.6	47	0.31	1120	3.2	<3	<2	67.5	71	51.6	85.4	107	10.0	520
575667		0.62	23.2	6	2.01	800	1.1	<3	<2	286	7	44.0	120.0	19	6.8	1210
575668		0.60	44.5	2	0.39	630	<0.2	<3	<2	327	4	22.7	89.2	7	4.2	1030
575669		0.38	3.7	5	0.05	1370	2.1	<3	<2	163.0	78	36.5	20.7	16	3.7	1100
575670		0.24	1.0	9	<0.02	670	1.6	<3	<2	166.0	97	13.5	106.0	16	6.7	590
575671		0.26	1.2	7	0.02	460	1.7	<3	<2	204	72	17.9	99.6	22	3.6	240
575672		0.40	8.8	7	0.76	260	0.8	<3	<2	269	82	20.9	192.0	13	4.7	17400
575673		0.36	7.3	17	1.67	390	2.3	<3	<2	284	28	35.8	86.4	14	10.7	1090
575674		0.36	10.7	19	0.39	280	2.5	<3	<2	219	18	45.8	28.2	27	4.1	230
575675		0.54	10.0	9	0.41	400	1.4	<3	<2	323	63	26.1	62.8	21	5.7	4610
575676		0.58	38.8	15	1.90	680	0.5	<3	<2	205	8	32.3	54.0	27	2.6	1220
575677		0.48	4.1	20	0.03	790	1.3	<3	<2	233	49	25.2	56.7	94	3.5	260
575678		0.48	38.8	16	0.02	610	1.3	<3	<2	117.5	25	37.8	21.9	44	3.2	340
575679		0.62	46.6	5	1.10	1130	2.3	<3	<2	129.0	25	81.6	73.7	34	6.3	1500
575680		0.52	37.0	1	1.53	770	<0.2	<3	<2	810	24	8.2	110.0	6	0.4	4110
575681		0.82	45.5	3	0.99	630	<0.2	<3	<2	415	23	9.0	38.8	8	0.4	1940
575682		0.70	54.6	20	0.23	840	1.8	<3	<2	168.5	32	83.1	57.7	53	4.1	620
575683		0.72	41.4	35	0.33	450	0.6	<3	<2	211	15	26.5	35.9	26	6.8	740
575684		0.72	36.0	11	0.43	1130	2.3	<3	<2	189.0	19	99.9	116.5	44	5.2	850



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212 Brookbank Avenue

North Vancouver BC V7J 2C1

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

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## CERTIFICATE OF ANALYSIS VA08113496

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	
		Dy ppb	Er ppb	Eu ppb	Fe ppm	Ga ppb	Gd ppb	Ge ppb	Hf ppb	Hg ppb	Ho ppb	I ppm	In ppb	La ppb	Li ppb	Lu ppb
575612		4.5	2.4	1.2	66.8	42.0	5.3	0.5	<10	1.2	1.1	<0.1	<0.5	17.3	7.9	0.4
575613		3.8	2.1	1.0	38.1	30.7	4.7	0.3	<10	0.6	0.9	<0.1	<0.5	15.5	3.2	0.4
575614		3.8	2.4	0.9	90.0	40.9	3.9	0.8	<10	1.2	0.9	<0.1	<0.5	9.0	9.2	0.3
575615		6.3	3.5	1.6	82.1	37.7	7.6	0.8	<10	1.0	1.8	<0.1	<0.5	25.9	12.7	0.6
575616		6.8	3.8	1.4	75.7	17.0	7.5	0.6	<10	0.6	1.7	<0.1	<0.5	16.6	8.0	0.5
575617		7.4	5.7	1.1	130.5	52.0	4.3	0.7	<10	1.3	2.3	<0.1	<0.5	9.3	8.4	0.9
575618		9.0	5.9	1.7	145.5	72.2	7.7	1.7	<10	1.8	2.5	<0.1	<0.5	21.8	21.5	0.9
575619		5.7	3.5	1.3	39.5	7.7	7.8	0.3	<10	0.9	1.5	<0.1	<0.5	23.9	2.3	0.5
575620		2.7	1.7	0.6	35.6	14.4	3.0	0.3	<10	1.0	0.6	<0.1	<0.5	8.3	3.0	0.2
575621		5.3	2.7	1.3	84.0	25.5	5.6	0.7	<10	1.0	1.2	<0.1	<0.5	16.9	8.3	0.4
575622		2.6	1.4	0.6	45.0	20.3	2.9	0.2	<10	0.9	0.5	<0.1	<0.5	9.2	1.5	0.2
575623		5.2	3.9	0.7	66.1	26.6	3.7	0.8	<10	1.0	1.5	<0.1	<0.5	5.8	8.2	0.6
575624		1.0	0.5	0.4	22.0	17.7	1.3	0.2	<10	0.5	0.1	<0.1	<0.5	4.6	1.2	0.1
575625		1.4	0.8	0.5	31.1	18.9	2.1	0.3	<10	0.6	0.3	<0.1	<0.5	7.5	2.0	0.1
575626		8.3	5.3	1.6	45.3	14.3	8.4	0.5	<10	13.9	2.2	<0.1	<0.5	15.2	4.2	0.8
575627		7.6	4.7	1.2	103.5	29.5	6.5	0.5	<10	1.1	2.1	<0.1	<0.5	11.8	5.7	0.7
575628		1.6	1.1	0.4	45.1	18.4	1.5	0.3	<10	0.5	0.4	<0.1	<0.5	3.2	3.2	0.2
575629		2.6	4.1	0.4	151.0	25.9	1.0	0.3	<10	0.3	1.1	<0.1	<0.5	2.2	3.9	1.0
575630		19.8	10.9	3.9	50.1	20.8	21.5	0.5	<10	1.5	5.1	<0.1	<0.5	49.7	2.4	1.3
575631		1.6	0.8	0.4	12.1	12.3	2.3	<0.2	<10	0.5	0.3	<0.1	<0.5	3.9	1.2	0.1
575632		6.0	3.6	1.1	66.4	19.1	5.7	0.3	<10	0.6	1.5	<0.1	<0.5	11.8	3.2	0.5
575633		7.8	4.4	1.9	40.9	23.9	10.3	0.3	<10	0.9	1.9	0.1	<0.5	34.1	2.3	0.6
575634		4.6	2.8	1.3	51.1	33.3	6.0	0.4	<10	0.6	1.1	<0.1	<0.5	22.1	3.6	0.4
575635		15.0	8.8	3.1	38.9	17.6	16.3	0.4	<10	0.4	4.0	0.1	<0.5	38.5	3.8	1.2
575636		15.4	9.9	3.6	80.1	23.2	21.2	0.5	<10	0.9	4.3	0.1	<0.5	65.6	5.5	1.4
575637		6.3	3.9	1.0	55.7	29.5	5.8	0.6	<10	1.1	1.6	<0.1	<0.5	13.9	6.2	0.6
575638		11.5	6.6	3.1	23.1	72.9	13.7	0.2	<10	<0.1	3.0	<0.1	<0.5	17.9	0.9	0.9
575639		9.0	5.2	2.0	66.4	36.7	10.8	0.5	<10	0.9	2.3	<0.1	<0.5	30.9	3.8	0.7
575640		3.1	1.8	0.7	65.6	39.8	3.0	0.9	<10	0.8	0.6	<0.1	<0.5	10.1	13.8	0.3
575641		6.4	4.1	1.6	17.5	7.1	7.6	0.3	<10	0.5	1.4	0.1	<0.5	24.9	1.9	0.7
575642		3.8	2.4	1.0	68.5	18.2	4.4	0.6	<10	0.9	0.8	<0.1	<0.5	21.3	6.4	0.5
575643		3.8	2.3	1.1	51.7	21.2	4.3	0.4	<10	0.8	0.8	<0.1	<0.5	20.0	2.2	0.4
575644		5.9	3.6	1.7	31.5	27.0	7.1	0.3	<10	1.3	1.3	<0.1	<0.5	28.0	1.2	0.6
575645		3.1	2.5	0.9	46.5	21.8	2.8	0.4	<10	0.8	0.8	<0.1	<0.5	7.7	3.0	0.5
575646		1.9	1.2	0.6	47.0	23.9	1.9	0.8	<10	1.1	0.4	<0.1	<0.5	6.5	8.7	0.2
575647		4.0	2.6	0.9	77.1	20.4	3.5	0.7	<10	0.9	0.9	<0.1	<0.5	11.3	9.6	0.5
575648		2.1	1.5	0.5	39.6	15.9	2.0	0.3	<10	1.1	0.5	<0.1	<0.5	3.2	1.4	0.3
575649		4.3	2.6	1.3	26.4	14.6	5.1	0.2	<10	1.2	0.8	<0.1	<0.5	19.6	0.9	0.4
575650		1.5	1.0	0.6	21.3	28.2	1.7	0.3	<10	0.8	0.3	<0.1	<0.5	5.6	2.2	0.1
575651		7.6	4.1	2.1	37.4	19.3	9.6	0.6	<10	0.7	1.4	<0.1	<0.5	41.4	6.2	0.6



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		Dy ppb	Er ppb	Eu ppb	Fa ppm	Ga ppb	Gd ppb	Ge ppb	Hf ppb	Hg ppb	Ho ppb	I ppm	In ppb	La ppb	Li ppb	Lu ppb
		0.1	0.1	0.1	0.1	0.5	0.1	0.2	10	0.1	0.1	0.1	0.5	0.1	0.2	0.1
575652		4.3	2.7	1.2	66.2	31.6	4.5	0.7	<10	0.8	0.9	△.1	△.5	19.7	10.1	0.5
575653		6.1	3.9	1.7	66.6	33.7	6.2	0.6	<10	0.7	1.3	△.1	△.5	26.5	7.2	0.6
575654		6.9	4.0	2.0	60.8	36.1	8.1	0.6	<10	0.6	1.4	0.1	△.5	37.2	5.2	0.7
575655		7.9	4.5	2.1	64.0	29.9	9.8	0.3	<10	0.4	1.6	0.1	△.5	43.7	2.1	0.8
575656		12.0	7.8	2.4	53.3	16.2	10.4	0.2	<10	0.4	2.7	△.1	△.5	19.2	0.5	1.2
575657		4.2	2.7	1.1	66.6	31.4	4.8	0.9	<10	1.0	0.9	△.1	△.5	20.7	13.0	0.4
575658		9.7	6.4	3.5	67.2	24.5	9.4	0.4	<10	0.8	2.1	△.1	△.5	21.3	3.4	1.0
575659		3.5	2.1	1.1	66.6	35.5	3.8	0.3	<10	1.1	0.7	△.1	△.5	12.8	3.2	0.3
575660		5.2	4.7	0.8	56.5	9.7	3.3	0.2	<10	0.4	1.4	△.1	△.5	5.6	1.4	0.7
575661		5.6	3.6	1.4	161.0	61.4	5.1	1.6	<10	1.8	1.3	0.1	△.5	25.9	9.6	0.5
575662		5.3	3.1	1.6	44.2	27.6	6.4	0.5	<10	0.9	1.1	0.1	△.5	27.6	3.7	0.4
575663		4.7	2.9	1.1	60.8	16.2	5.0	0.2	<10	0.8	1.0	△.1	△.5	16.9	1.8	0.5
575664		28.7	22.3	4.0	117.5	20.2	17.3	0.6	<10	0.6	7.3	△.1	△.5	28.0	4.6	3.6
575665		4.1	5.4	0.9	100.0	64.5	2.2	0.4	<10	0.9	1.3	△.1	△.5	4.7	4.5	1.5
575666		3.8	2.7	1.1	163.0	65.2	4.3	2.5	10	1.3	0.9	0.1	△.5	17.4	34.0	0.4
575667		4.5	2.8	1.3	33.7	30.2	5.3	0.3	<10	0.7	0.9	△.1	△.5	16.1	1.2	0.4
575668		2.4	1.6	0.9	24.9	29.9	2.9	<0.2	<10	0.6	0.5	△.1	△.5	11.2	0.2	0.2
575669		11.0	6.8	2.1	56.7	54.7	8.1	0.4	<10	0.8	2.4	△.1	△.5	14.1	4.0	0.9
575670		5.9	5.0	1.0	94.9	35.3	3.8	0.6	<10	1.0	1.6	△.1	△.5	6.0	6.6	0.8
575671		4.1	3.5	0.6	111.0	31.5	3.0	0.9	<10	0.8	1.0	△.1	△.5	6.9	12.0	0.6
575672		6.1	4.4	1.7	46.6	12.1	5.6	0.3	<10	0.5	1.4	△.1	△.5	11.7	3.2	0.7
575673		7.7	5.5	1.4	70.0	16.3	5.9	0.4	<10	0.8	1.7	△.1	△.5	14.3	4.1	0.9
575674		3.2	2.0	0.9	56.4	19.5	3.7	0.6	<10	0.8	0.7	△.1	△.5	16.9	5.0	0.3
575675		4.3	2.7	1.1	53.9	17.1	4.2	0.5	<10	0.6	0.9	△.1	△.5	12.7	3.3	0.4
575676		2.0	1.1	0.8	27.9	26.8	2.8	0.4	<10	0.8	0.4	△.1	△.5	12.9	3.8	0.2
575677		2.7	1.6	0.9	61.0	41.4	2.8	1.3	<10	1.1	0.5	△.1	△.5	11.0	17.4	0.2
575678		3.4	2.1	1.0	54.5	35.2	4.3	0.6	<10	0.5	0.7	△.1	△.5	18.2	6.6	0.4
575679		9.1	5.4	2.7	56.7	45.5	10.4	0.5	<10	0.8	1.9	0.1	△.5	37.5	2.9	0.8
575680		14.0	7.4	3.9	8.5	25.3	17.4	<0.2	<10	0.9	3.0	△.1	△.5	8.5	4.6	1.0
575681		6.1	3.3	2.0	12.5	21.7	6.7	<0.2	<10	0.9	1.2	△.1	△.5	13.0	0.3	0.5
575682		8.8	4.9	2.3	58.3	36.3	10.3	0.6	<10	0.9	1.8	△.1	△.5	42.0	6.5	0.7
575683		3.2	1.9	1.0	36.3	22.2	4.0	0.5	<10	0.8	0.6	△.1	△.5	14.0	5.1	0.3
575684		6.3	3.3	1.9	45.1	43.7	7.3	0.3	<10	0.7	1.2	△.1	△.5	26.4	2.3	0.5



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

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

To: WESTERN MINERALS INC

PO BOX 216

SAVONA BC V0K 2J0

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Project: CLP

## CERTIFICATE OF ANALYSIS VA08113496

Sample Description	Method Analyte Units LOI	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	
		Mg ppm	Mn ppm	Mo ppb	Nb ppb	Nd ppb	Ni ppb	Pb ppb	Pd ppb	Pr ppb	Rb ppb	Re ppb	Sb ppb	Se ppb	Sm ppb	Sn ppb
575812		22.8	2.86	5	2.0	19.1	199	80	0.5	4.4	204	<0.1	<1	2	4.4	0.5
575813		14.65	5.52	<5	1.1	16.9	182	50	<0.1	3.8	187	<0.1	<1	4	4.0	0.3
575814		10.80	8.09	6	3.8	12.1	123	250	<0.1	2.6	128	<0.1	1	5	3.2	0.8
575815		6.58	5.25	6	4.2	28.2	154	90	0.3	6.3	147	<0.1	1	5	6.6	0.8
575816		11.30	2.82	<5	1.9	23.2	109	90	0.2	4.8	91	<0.1	<1	2	6.0	0.5
575817		20.8	3.75	<5	3.3	12.8	97	410	1.4	2.8	111	<0.1	<1	5	3.3	0.6
575818		8.03	11.10	<5	9.1	24.7	178	510	<0.1	5.8	122	<0.1	<1	2	5.9	2.3
575819		7.39	1.89	<5	1.3	28.5	94	70	1.1	6.5	98	<0.1	<1	6	6.7	<0.2
575820		7.25	1.92	5	1.2	10.9	72	170	0.2	2.3	143	<0.1	<1	3	2.5	0.2
575821		15.85	2.99	5	2.4	19.3	129	90	0.2	4.3	103	<0.1	<1	4	4.6	0.5
575822		15.30	3.21	<5	1.3	11.0	82	150	<0.1	2.2	136	<0.1	<1	5	2.8	0.2
575823		44.9	7.83	<5	1.8	10.0	127	440	<0.1	1.6	143	<0.1	<1	5	2.5	0.7
575824		19.10	2.11	<5	0.9	5.5	63	20	0.2	1.1	143	<0.1	<1	<2	1.4	<0.2
575825		24.1	2.26	<6	1.0	8.3	96	30	0.5	1.7	118	<0.1	<1	2	1.7	0.2
575826		18.95	4.46	<5	0.5	22.4	255	600	0.4	4.7	160	<0.1	40	7	7.1	0.2
575827		30.8	6.88	<5	2.1	17.7	154	230	0.8	3.6	171	<0.1	<1	4	4.7	0.4
575828		19.20	3.68	<5	1.0	4.7	121	90	0.3	0.8	123	<0.1	<1	<2	1.3	0.3
575829		14.35	0.96	<5	0.9	3.4	104	120	0.3	0.5	81	<0.1	<1	2	0.8	0.5
575830		35.1	2.07	6	0.8	67.0	233	90	5.1	14.5	99	<0.1	<1	7	18.9	0.2
575831		13.25	2.15	14	0.2	7.4	85	<10	0.2	1.2	90	<0.1	<1	5	2.1	<0.2
575832		6.83	2.56	7	1.1	17.2	123	130	1.1	3.7	97	<0.1	<1	5	4.9	0.2
575833		5.11	2.11	11	1.3	39.6	100	160	1.6	9.5	142	<0.1	1	6	8.9	0.2
575834		10.15	2.62	16	1.7	23.6	88	100	1.3	5.3	100	<0.1	1	3	5.1	0.3
575835		7.88	1.06	7	0.8	55.0	103	90	4.2	11.8	95	<0.1	1	8	13.2	<0.2
575836		7.64	3.56	9	2.6	78.3	101	120	4.3	18.6	187	<0.1	1	9	18.3	0.3
575837		7.18	2.54	8	1.7	19.6	124	160	0.7	4.1	158	<0.1	<1	4	4.8	0.4
575838		147.5	0.61	<5	<0.1	34.9	1040	50	4.6	6.1	128	<0.1	<1	2	10.3	<0.2
575839		16.90	4.04	<5	1.9	36.1	312	1740	2.0	6.5	401	<0.1	<1	4	6.6	0.4
575840		9.07	4.10	10	4.7	11.0	152	120	<0.1	2.7	176	<0.1	2	3	2.7	0.9
575841		6.73	0.58	7	0.4	29.0	152	30	1.5	6.1	203	<0.1	1	4	6.4	<0.2
575842		4.61	2.43	10	4.4	20.4	113	80	0.6	4.7	145	<0.1	<1	<2	4.0	0.5
575843		11.45	3.84	<5	2.6	19.2	133	100	0.6	4.3	175	<0.1	<1	<2	4.2	0.2
575844		17.40	2.08	<5	1.0	30.4	81	60	2.3	6.3	152	<0.1	<1	<2	6.5	<0.2
575845		15.50	10.95	<5	1.9	9.8	154	160	0.3	2.0	130	<0.1	<1	2	2.4	0.2
575846		12.60	6.84	<5	3.7	7.4	111	140	<0.1	1.7	136	<0.1	<1	<2	1.7	0.6
575847		14.25	7.38	<5	2.9	13.5	292	70	<0.1	2.8	121	<0.1	<1	<2	2.9	0.4
575848		39.5	12.00	<5	0.9	5.4	165	130	0.3	1.0	168	<0.1	<1	3	1.4	<0.2
575849		14.20	3.72	<5	0.7	21.7	72	30	1.5	4.6	171	<0.1	<1	6	4.7	<0.2
575850		13.70	1.09	<5	0.9	7.4	84	20	0.7	1.4	175	<0.1	<1	<2	1.7	<0.2
575851		4.31	2.21	8	2.4	41.1	96	40	2.0	9.5	164	<0.1	<1	2	8.7	0.3





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		Mg	Mn	Mo	Nb	Nd	Ne	Pb	Pd	Pr	Rb	Re	Sb	Se	Sm	Sn
		ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		0.01	0.01	5	0.1	0.1	3	10	0.1	0.1	5	0.1	1	2	0.1	0.2
575652		8.22	2.62	<5	4.3	19.6	113	90	1.3	4.3	168	<0.1	<1	<2	4.4	0.6
575653		6.89	4.78	<5	3.9	28.4	133	170	1.9	6.2	154	<0.1	<1	2	5.6	0.4
575654		8.64	3.00	7	2.6	37.7	149	120	2.2	7.8	182	<0.1	<1	<2	7.6	0.2
575655		5.10	1.98	11	2.7	43.7	105	110	2.4	10.1	155	<0.1	<1	4	9.2	0.2
575656		21.7	5.06	<5	0.4	30.4	194	90	4.0	5.7	167	<0.1	<1	3	8.1	<0.2
575657		8.77	4.78	5	6.0	19.3	187	120	0.7	4.3	196	<0.1	<1	3	4.3	0.8
575658		17.55	7.67	<5	1.4	29.0	313	170	2.8	5.8	249	<0.1	3	4	7.3	<0.2
575659		17.95	4.09	<5	1.7	15.1	204	110	1.1	3.0	314	<0.1	1	<2	3.4	<0.2
575660		11.65	9.15	<5	0.5	9.9	701	50	1.0	1.9	174	<0.1	<1	6	2.6	<0.2
575661		6.44	7.96	7	14.2	22.9	100	300	0.1	5.5	94	<0.1	1	5	4.8	1.9
575662		4.53	2.92	10	1.9	27.9	112	50	1.2	6.1	202	<0.1	<1	5	6.1	0.2
575663		14.05	5.30	<5	1.6	19.5	122	160	0.8	4.1	192	<0.1	<1	6	4.2	<0.2
575664		11.15	6.95	<5	1.2	47.1	1120	230	9.7	8.8	183	<0.1	<1	7	12.6	0.2
575665		44.9	5.16	<5	1.2	6.4	121	3710	<0.1	1.3	146	<0.1	<1	4	1.6	0.4
575666		8.09	22.2	5	19.6	17.5	191	380	<0.1	4.3	184	<0.1	1	<2	3.5	2.9
575667		12.00	2.52	<5	0.6	19.7	133	70	2.0	4.1	292	<0.1	<1	<2	4.3	<0.2
575668		12.60	0.80	<5	0.3	12.1	52	30	1.9	2.5	167	<0.1	<1	<2	2.8	<0.2
575669		16.60	3.29	<5	1.2	27.9	291	180	2.0	4.8	221	<0.1	<1	<2	6.6	0.2
575670		16.25	11.60	<5	2.6	9.3	114	500	<0.1	1.7	127	<0.1	<1	<2	2.7	0.5
575671		32.5	9.24	<5	3.4	8.9	144	420	<0.1	1.6	121	<0.1	<1	<2	2.3	0.6
575672		30.4	16.20	10	0.8	17.1	507	150	1.1	3.2	116	<0.1	<1	<2	4.3	0.2
575673		17.85	5.72	<5	1.2	20.3	183	90	2.5	4.0	135	<0.1	<1	<2	4.8	<0.2
575674		7.44	7.65	6	5.2	17.4	104	120	0.6	4.0	134	<0.1	<1	<2	3.3	0.5
575675		42.2	11.35	34	1.1	14.9	306	60	0.1	3.1	222	0.1	<1	2	3.5	<0.2
575676		19.65	2.52	9	2.0	14.1	90	20	0.6	3.2	121	<0.1	<1	<2	2.9	0.2
575677		30.2	12.40	12	6.8	11.5	290	170	<0.1	2.4	127	<0.1	<1	<2	2.6	1.1
575678		6.75	3.22	6	5.4	20.6	104	50	0.4	4.5	122	<0.1	<1	<2	4.2	0.7
575679		6.40	5.15	9	1.5	45.2	124	120	2.4	9.3	206	<0.1	1	2	10.1	<0.2
575680		56.4	2.00	10	<0.1	26.6	367	20	7.9	3.1	45	<0.1	<1	3	11.0	<0.2
575681		33.6	0.75	5	<0.1	26.3	316	10	3.0	4.0	30	<0.1	<1	<2	7.0	<0.2
575682		9.81	3.66	<5	2.9	45.2	166	90	1.9	9.8	147	<0.1	1	3	9.6	0.3
575683		6.29	1.10	<5	1.9	16.5	93	30	0.9	3.3	223	<0.1	2	<2	3.8	0.3
575684		8.13	1.40	6	1.9	30.9	84	120	1.7	6.8	207	<0.1	<1	3	6.7	<0.2



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Sample Description	Method Analyte Units LOL	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	pH-MS23	
		Sr ppb 10	Ta ppb 10	Tb ppb 0.1	Te ppb 1	Th ppb 1	Tl ppb 10	Ti ppb 1	Tm ppb 0.1	U ppb 1	W ppb 0.2	Y ppb 0.1	Yb ppb 0.1	Zn ppb 20	Zr ppb 1	Final pH Unity 0.1
575612		770	<10	0.8	<1	7	860	<1	0.4	5	0.2	30.7	2.5	1070	46	7.5
575613		810	<10	0.5	<1	5	610	<1	0.4	4	<0.2	28.7	2.1	1120	34	7.5
575614		530	<10	0.4	<1	8	1740	<1	0.4	3	0.4	26.4	2.4	3620	52	7.5
575615		450	<10	1.0	<1	9	2120	<1	0.6	4	0.5	44.3	3.8	1720	88	7.5
575616		630	<10	0.9	1	5	840	<1	0.7	4	0.3	49.5	3.7	1130	38	7.5
575617		850	<10	0.7	<1	8	1320	<1	1.1	4	<0.2	56.4	6.0	2380	63	7.5
575618		650	<10	1.1	<1	14	4460	<1	1.1	5	0.7	68.9	6.5	5010	96	7.5
575619		400	<10	0.9	<1	6	450	<1	0.6	5	<0.2	36.9	3.5	390	47	7.5
575620		670	<10	0.3	<1	4	440	<1	0.3	2	<0.2	20.9	1.6	430	27	7.5
575621		610	<10	0.7	<1	9	1240	<1	0.5	4	0.3	31.1	2.6	1940	43	7.5
575622		1380	<10	0.3	<1	3	350	<1	0.3	3	<0.2	18.7	1.4	1210	28	7.5
575623		1770	<10	0.5	<1	3	780	<1	0.7	4	0.2	47.6	4.0	2840	20	7.5
575624		1050	<10	0.1	<1	2	230	<1	0.1	2	<0.2	7.3	0.5	210	20	7.5
575625		1510	<10	0.1	<1	3	280	<1	0.1	2	<0.2	11.0	0.7	430	21	7.5
575626		1020	<10	1.2	<1	4	300	<1	0.9	2	<0.2	67.7	5.1	2340	14	7.5
575627		1410	<10	0.8	<1	7	880	<1	0.8	4	<0.2	59.0	4.7	2330	37	7.5
575628		1210	<10	0.1	<1	2	430	<1	0.2	2	<0.2	14.2	1.1	990	17	7.5
575629		1150	<10	0.1	<1	3	410	<1	0.9	2	<0.2	21.2	5.9	450	27	7.5
575630		1280	<10	3.0	1	11	450	<1	1.7	6	<0.2	127.0	9.3	580	39	7.5
575631		980	<10	0.2	<1	1	80	<1	0.1	4	<0.2	13.4	0.6	180	12	7.5
575632		640	<10	0.8	<1	6	660	<1	0.6	3	<0.2	45.5	3.5	720	35	7.5
575633		420	<10	1.2	<1	11	660	<1	0.8	6	0.2	53.8	4.4	340	80	7.5
575634		910	<10	0.6	<1	6	890	<1	0.5	4	<0.2	35.2	2.5	450	40	7.5
575635		540	<10	2.2	<1	9	470	<1	1.5	7	<0.2	116.5	8.7	280	60	7.5
575636		450	<10	2.5	<1	18	1060	<1	1.7	12	0.3	123.0	9.8	1370	113	7.5
575637		450	<10	0.8	<1	7	1120	<1	0.7	4	0.2	46.1	4.0	670	64	7.5
575638		2330	<10	1.8	<1	2	70	<1	1.1	3	<0.2	97.3	5.8	310	12	7.5
575639		420	<10	1.3	<1	11	850	<1	0.9	5	<0.2	65.3	5.0	540	79	7.5
575640		390	<10	0.3	<1	9	2240	<1	0.3	3	0.6	19.9	1.7	1320	77	7.5
575641		470	<10	0.9	<1	4	220	<1	0.8	8	0.3	45.4	3.0	440	30	9.0
575642		340	<10	0.6	<1	9	1610	1	0.5	6	0.6	25.5	2.0	1660	99	9.0
575643		660	<10	0.6	<1	8	710	1	0.4	6	0.3	24.0	1.7	720	62	9.0
575644		730	<10	0.9	<1	8	340	1	0.7	6	0.2	43.1	2.7	330	62	9.0
575645		1080	<10	0.4	<1	4	570	<1	0.5	4	<0.2	25.4	2.1	2910	32	9.0
575646		630	<10	0.2	<1	4	1690	<1	0.2	3	0.3	13.7	1.0	2770	44	9.0
575647		690	<10	0.5	<1	5	1450	<1	0.5	4	0.3	32.7	2.1	3020	47	9.0
575648		1610	<10	0.2	<1	1	270	<1	0.3	3	<0.2	17.4	1.2	2770	11	9.0
575649		1000	<10	0.6	<1	3	230	<1	0.4	5	0.2	29.4	1.7	510	36	9.0
575650		950	<10	0.2	<1	2	410	<1	0.2	3	<0.2	11.7	0.6	310	28	9.0
575651		420	<10	1.1	<1	13	1280	1	0.7	6	0.5	43.2	2.9	210	70	9.0



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Project: CLP

## CERTIFICATE OF ANALYSIS VA08113496

Sample Description	Method Analyte Units LOR	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	pH-MS23
		Sr ppb 10	Ta ppb 10	Tb ppb 0.1	Te ppb 1	Th ppb 1	Ti ppb 10	Tl ppb 1	Tm ppb 0.1	U ppb 1	W ppb 0.2	Y ppb 0.1	Yb ppb 0.1	Zn ppb 20	Zr ppb 1	Final pH Unity 0.1
575652		320	<10	0.6	<1	8	2260	<1	0.5	5	0.8	29.1	2.1	450	103	9.0
575653		340	<10	0.8	<1	12	1770	<1	0.7	5	0.4	43.1	3.2	400	112	9.0
575654		680	<10	1.0	<1	11	1250	<1	0.7	6	0.4	47.1	3.1	900	99	9.0
575655		330	<10	1.2	<1	14	1020	<1	0.8	7	0.4	50.6	3.8	250	109	9.0
575656		800	<10	1.5	<1	7	170	<1	1.4	4	<0.2	94.6	5.7	920	25	9.0
575657		390	<10	0.8	<1	9	2770	<1	0.5	5	0.5	32.1	2.0	570	94	9.0
575658		1140	<10	1.2	<1	4	510	<1	1.0	4	<0.2	78.0	4.9	840	36	9.0
575659		1030	<10	0.5	<1	7	800	<1	0.4	4	0.2	24.3	1.6	940	49	9.0
575660		490	<10	0.5	<1	3	280	<1	0.8	3	<0.2	42.9	3.4	1700	19	9.0
575661		340	<10	0.7	<1	13	6010	<1	0.6	5	0.6	37.6	2.7	1410	133	9.0
575662		500	<10	0.8	<1	10	1050	<1	0.5	5	0.3	34.8	2.2	870	76	9.0
575663		700	<10	0.6	<1	7	490	<1	0.5	5	<0.2	34.3	2.3	1790	58	9.0
575664		570	<10	3.2	<1	8	800	<1	3.7	6	0.3	244	16.5	2370	53	9.0
575665		3390	<10	0.3	<1	3	530	<1	1.2	3	0.2	38.5	6.4	15900	28	9.0
575666		380	<10	0.5	<1	18	9490	<1	0.5	7	1.2	25.0	2.2	4090	189	9.0
575667		1290	<10	0.6	<1	6	320	<1	0.5	4	<0.2	31.9	1.9	380	36	9.0
575668		1630	<10	0.3	<1	3	100	<1	0.3	4	<0.2	20.3	1.1	150	36	9.0
575669		1150	<10	1.3	<1	6	720	<1	1.1	3	<0.2	83.0	4.6	3640	29	9.0
575670		960	<10	0.6	<1	8	1260	<1	0.9	3	<0.2	48.6	4.1	1780	36	9.0
575671		1000	<10	0.4	<1	5	1670	<1	0.6	3	0.2	35.8	2.8	4890	32	9.0
575672		870	<10	0.8	<1	3	490	<1	0.7	3	<0.2	53.9	3.3	1810	22	9.0
575673		1070	<10	0.9	<1	4	500	<1	1.0	4	<0.2	81.1	4.4	1820	42	9.0
575674		470	<10	0.4	<1	8	1950	<1	0.3	5	0.3	21.8	1.5	290	89	9.0
575675		1120	<10	0.6	<1	4	540	<1	0.5	4	<0.2	32.7	1.9	2000	28	9.0
575676		540	<10	0.3	<1	4	850	<1	0.2	4	0.2	13.4	0.9	230	53	9.0
575677		800	<10	0.3	<1	8	3780	<1	0.3	3	0.7	17.7	1.1	650	63	9.0
575678		330	<10	0.5	<1	8	2440	<1	0.4	4	0.6	23.3	1.7	810	95	9.0
575679		360	<10	1.4	<1	11	730	<1	0.9	6	0.3	58.9	4.1	310	87	9.0
575680		4470	<10	2.1	<1	1	20	<1	1.0	3	0.2	117.0	4.2	80	6	9.0
575681		2000	<10	0.9	<1	2	50	<1	0.5	3	0.2	52.7	2.1	90	13	9.0
575682		500	<10	1.2	<1	10	1410	<1	0.8	6	0.4	56.3	3.5	1100	89	9.0
575683		470	<10	0.4	<1	4	1040	<1	0.3	4	0.4	23.9	1.4	420	50	9.0
575684		930	<10	0.9	<1	13	900	<1	0.5	5	0.4	38.8	2.4	750	68	9.0