



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: CARTER, N. C.

1410 WENDE RD.  
 VICTORIA, BC  
 V8P 3T5

830649  
 Tillicum  
 82F/13

A0123370

Comments: ATTN: N.C. CARTER

**CERTIFICATE**

**A0123370**

(OUO) - CARTER, N. C.

Project:  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 31-AUG-2001.

## SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
PUL-31	3	Pulv. <250g to >85%/-75 micron
STO-21	3	Reject Storage-First 90 Days
LOG-22	3	Samples received without barcode
CRU-31	3	Crush to 70% minus 2mm
SPL-21	3	Splitting Charge
229	3	ICP - Aq Digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	3	Weight of received sample	BALANCE	0.01	1000.0
Au-AA23	3	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Ag-ICP41	3	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	3	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	3	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	3	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	3	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	3	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	3	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	3	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	3	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	3	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	3	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	3	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	3	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	3	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	3	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	3	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	3	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	3	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	3	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	3	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	3	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	3	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	3	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	3	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	3	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	3	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	3	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	3	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	3	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	3	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	3	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	3	V ppm: 32 element, soil & rock	ICP-AES	1	10000



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ANALYTICAL PROCEDURES 2 of 2					
METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
W-ICP41	3	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	3	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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 Account :OUO

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<b>CERTIFICATE OF ANALYSIS</b>	<b>A0123370</b>
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SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	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	Hg ppm	K %	La ppm
M751053	94139402	1.82	< 5	0.6	2.41	10	< 10	90	< 0.5	10	0.23	2.0	6	117	34	2.77	< 10	< 1	1.05	< 10
M751054	94139402	1.66	10	1.4	0.97	2	< 10	20	< 0.5	6	0.43	0.5	15	30	135	4.28	< 10	< 1	0.08	< 10
M751055	94139402	1.18	< 5	< 0.2	0.27	< 2	< 10	< 10	< 0.5	4	0.02	< 0.5	< 1	81	22	0.24	< 10	1	0.16	< 10

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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M751053	94139402	1.48	690	24	0.07	16	540	12	0.11	4	8	27	0.11	< 10	< 10	108	< 10	86
M751054	94139402	0.27	115	6	0.09	11	1430	< 2	1.03	< 2	1	29	0.06	< 10	< 10	52	< 10	24
M751055	94139402	0.01	130	1	0.05	3	10	2	< 0.01	8	< 1	7	< 0.01	< 10	< 10	1	< 10	8

CERTIFICATION: \_\_\_\_\_