



Environmental Division

		Cert	ificate of Ar	nalysis		
CASH CLIENTS - W						
ATTN: TERRY STU					Reported On:	29-JUL-08 09:01 AM
535 A ROSEMEADO	W CR				noponiou om	20 002 00 0010 1 7 1111
WATERLOO ON N2	2T 2A1					
Lab Work Order #:	L658933				Date Receive	ed: 22-JUL-08
Project P.O. #: Job Reference: Legal Site Desc: CofC Numbers: Other Information:	61664					
Comments:						
		NANCY GRAHAM Account Manager	Lui	L		

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY. ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd. (formerly ETL Chemspec Analytical Ltd.)
Part of the ALS Laboratory Group



Environmental Division



ALS LABORATORY GROUP CRITERIA REPORT

L658933 CONTD.... Page 2 of 3

							29-JUL-	08 08:58:53
Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Spe	cific Limits	Analyzed	Batch
L658933-1 ROCK LAKE								
Sampled By: client on 15-JUL-08								
Matrix: Water					STANDARDS	GUIDELINES	-	
Hardness by Calculation								
Calcium (Ca)-Total	6.2		0.5	mg/L			25-JUL-08	R699439
Hardness (as CaCO3)	20		10	mg/L		80-100	28-JUL-08	
Magnesium (Mg)-Total	1.0		0.5	mg/L			25-JUL-08	R699439
Nitrate and Nitrite as N								
Nitrate and Nitrite as N	<0.2		0.2	mg/L	10		24-JUL-08	
Nitrate-N	0.1		0.1	mg/L	10		23-JUL-08	R698594
Nitrite-N	<0.1		0.1	mg/L	1		23-JUL-08	R698594
Total Coliform, e.Coli E. Coli	1		0	CFU/100mL	** 0		23-JUL-08	R698347
Total Coliforms	70	DLA	10.0	CFU/100mL			23-JUL-08	R698354
Total Colliditis	70	DLA	10.0	5F 0/ 10011L	<u> </u>		23-30L-00	1090554

^{**} analytical results for this parameter exceed criteria limits listed on this report

Reference Information

L658933 CONTD.... Page 3 of 3 29-JUL-08 08:58:53

Laboratory Location

Sample Parameter Qualifier key listed: Description

Qualifier

DLA Dete	ction Limit Adju	sted For Dilution		
Methods Listed (if a	applicable):			
ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
CA-TOT-WT	Water	Calcium (Ca) -Total		EPA 200.8
EC-MF-WT	Water	E. Coli		SM 9222D
A 100mL volume of	sample is filtere	ed through a membrane, th	ne membrane is placed on mFC-BCIG agar and	d incubated at @44.5-0.2°C for 24-2h.
ETL-HARDNESS-CALO	C- Water	Hardness (as CaCO3)		APHA 2340 B
ETL-N2N3-WT	Water	Calculate from NO2 + N	NO3	APHA 4110 B
MG-TOT-WT	Water	Magnesium (Mg) - Tota	ıl	EPA 200.8
NO2-WT	Water	Nitrite-N		EPA 300.0 (IC)
NO3-WT	Water	Nitrate-N		EPA 300.0 (IC)
TC-MF-WT	Water	Total Coliforms		SM 9222B
A 100mL volume of	sample is filtere	ed through a membrane, th	ne membrane is placed on mENDO LES agar a	and incubated at 35–0.5°C for 24–2h.
			Laboratory Methods employed follow in- generally based on nationally or interna	
Chain of Custody n	umbers:			
61664				

WT ALS LABORATORY GROUP -WATERLOO, ONTARIO, CAN

GLOSSARY OF REPORT TERMS Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds. The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.

Laboratory Definition Code

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

mg/kg (units) - unit of concentration based on mass, parts per million mg/L (units) - unit of concentration based on volume, parts per million

Laboratory Location

< - Less than

Laboratory Definition Code

D.L. - Detection Limit

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ALS provides criteria information as a service to you, our customer. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. ALS recommends review of the most current version of the regulation, and assumes no responsibility for the accuracy of the criteria levels indicated.





Environmental Division

ALS Laboratory Group Quality Control Report

Workorder: L658933 Report Date: 29-JUL-08 Page 1 of 3

Client: CASH CLIENTS - WATERLOO

535 A ROSEMEADOW CR WATERLOO ON N2T 2A1

Contact: TERRY STURTEVANT

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CA-TOT-WT	Water							
Batch R699439 WG806838-1 CVS Calcium (Ca)-Total			102		%		86-121	25-JUL-08
WG806838-5 DUP Calcium (Ca)-Total		WG806838-4 112	115	DLM	mg/L	2.4	20	25-JUL-08
WG806838-3 MB Calcium (Ca)-Total			<0.5		mg/L		0.5	25-JUL-08
EC-MF-WT	Water							
Batch R698347 WG805079-2 DUP E. Coli		L658976-1	0		CFU/100mL	0.0	82	23-JUL-08
WG805079-1 MB E. Coli			0		CFU/100mL		1	23-JUL-08
MG-TOT-WT	Water							
Batch R699439 WG806838-1 CVS Magnesium (Mg)-Total			101		%		70.404	25 1111 00
WG806838-5 DUP		WG806838-4	101		70		78-124	25-JUL-08
Magnesium (Mg)-Total		37	39	DLM	mg/L	2	20	25-JUL-08
WG806838-3 MB Magnesium (Mg)-Total			<0.5		mg/L		0.5	25-JUL-08
NO2-WT	Water							
Batch R698594 WG805764-5 DUP		WG805764-4						
Nitrite-N WG805764-6 DUP		0.4 L659200-1	0.4	J	mg/L	0.0	0.4	23-JUL-08
Nitrite-N		<0.3	<0.3	RPD-NA	mg/L	N/A	25	23-JUL-08
WG805764-8 DUP Nitrite-N		L658472-5 <0.5	<0.5	RPD-NA	mg/L	N/A	25	23-JUL-08
WG805764-3 LCS Nitrite-N			101		%		80-120	23-JUL-08
WG805764-1 MB Nitrite-N			<0.1		mg/L		0.1	23-JUL-08
NO3-WT	Water							
Batch R698594 WG805764-5 DUP Nitrate-N		WG805764-4 0.5	0.5	J	mg/L	0.0	0.4	23-JUL-08
WG805764-6 DUP		L659200-1						

ALS Laboratory Group Quality Control Report

Workorder: L658933

Report Date: 29-JUL-08

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Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-WT		Water							
Batch R69 WG805764-6	98594 DUP		L659200-1						
Nitrate-N			<0.3	<0.3	RPD-NA	mg/L	N/A	20	23-JUL-08
WG805764-8 Nitrate-N	DUP		L658472-5 <0.5	<0.5	RPD-NA	mg/L	N/A	20	23-JUL-08
WG805764-3 Nitrate-N	LCS			101		%		80-120	23-JUL-08
WG805764-1 Nitrate-N	MB			<0.1		mg/L		0.1	23-JUL-08
TC-MF-WT		Water							
Batch R69	98354								
WG805076-2 Total Coliforms	DUP		L658966-1 0	0		CFU/100mL	0.0	39	23-JUL-08
WG805076-1 Total Coliforms	MB			0		CFU/100mL		1	23-JUL-08

ALS Laboratory Group Quality Control Report

Workorder: L658933 Report Date: 29-JUL-08 Page 3 of 3

Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

61664

P. PAGE__ C of C#

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

SO Morthland Dond 1 hit #1 Waterlan ON NOV 9	000		
CONSTITUTE (519) 886-6910 Fax: (519) 886-9047 CANADA TOLL FREE: 1-800-668-9878		Service Requested: Date Required:	Priority (50% surcharge) (2-3 working days) Emergency (100%, surcharge) (1-3 working days)
COMPANY NAME	CRITERIA Criteria on report (v/n)	ANALYSIS REQUEST	
PEREN STURTENANT	1		
PROJECT MANAGER	Table 1 2 3	*1	SUBMISSION #
	TCLP MISA PWQO	22%	7.658433
	OTHER	ישכ	ENTERED BY:
29519) 513-9993	REPORT ALL FINAL RESULTS WILL BE MAILED DISTRIBUTION	33 Ox	2002
	EMAIL	JO-	DATE/TIME ENTERED:
QUOTATION # PO#	EMAILIX 15tyrter @ WLH.CA	ATING CA	1,1, 20to 15:10
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	535 A ROSPINGARAIN Cr.		
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	SPECIAL INSTRUCTIONS/COMMENTS	S	SAMPLE CONDITION
			FROZEN MEAN TEMP
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NOTES AND CONDITIONS:

1. Quote number must be provided to ensure proper pricing.

2. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs. YELLOW - File copy

PINK - Customer Copy

Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

White - report copy