



ATTN: JOEL Whiteshell Colony

River Hills MB R0E 1T0

Date Received: 12-JUL-13

Report Date: 18-JUL-13 15:48 (MT)

Version: FINAL

Client Phone: 204-340-5716

Certificate of Analysis

Lab Work Order #: L1331694

Project P.O. #: Paid \$31.00 by MC 16-Jul-13 CR

Job Reference: WHITESHELL COLONY LAGOON

C of C Numbers: Legal Site Desc:

Paul Necolas
Paul Nicolas
Account Manager

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L1331694 CONTD.... PAGE 2 of 3 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1331694-1 WHITESHELL COLONY Sampled By: CLIENT on 11-JUL-13 @ 10:30 Matrix: Sewage/Waste Water Miscellaneous Parameters Phosphorus (P)-Total	2.76		0.010	mg/L		18-JUL-13	R2651860

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

WHITESHELL COLONY LAGOON L1331694 CONTD....

Reference Information

PAGE 3 of 3 Version: FINAL

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**		
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS		
This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.					

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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:

Laboratory Definition Code	Laboratory Location
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

ALS Laboratory ANALYTICAL CHEMISTRY & TESTING SERV Environmental Division	Group ICES ALS	12 - 1329 Niakwa F Winnipeg, Manitoba Tel: (204) 255-9720 Fax: (204) 255-972	a R2J 3T4) :1	CHEMISTRY INF MICRO INFO: (20	ly / Analytical Request F O: (204) 255 9739 04) 255 9740 OR (204) 2			
Sample Condition U	Y USE ONLY (SHADED A pon Receipt:ACCEPT AmbientBrokenI	ABLE NON	ACCEPTABLE		ECEIVED: July 12	 113		
Date Sampled J. 1.	/2013 Time: <u>/0</u> : <u>3</u> 5	Δ M □ ✓ P M □	Date Required:					
Date Sampled 71/14	12015 111116. <u>70 · 30</u>	A.W. [J] F.W. [_]	O house at Man					
Location: Whitesh	ell colony Logo	- γ	Submitter's Name Printed:					
(Town, Community, City	· •		Sample Submitt	ted By:	<u>.</u>			
Community Code Number:			Rural Municipalit	y/LGC/UVD:				
SAMPLE TYPE DRINKING WATER Untreated Well Treated Well Treated Municipal Non-Treated Municipal Water-Surface-Raw Water-Surface-Treated PURPOSE OF TEST Private Real Estate	Sewage Lake/Ri Swimmi Whirt Po	ing Pool	1. Quote nu 2. Failure to 3. ALS's liat	CONDITIONS mber must be provide		Y		
LAB MIMBER	CAMBLE IDENTI	FICATION	ALS CUSTOMER		QUOTE #:			
LAB NUMBER	SAMPLE IDENTIL		NAME: WANTED COMPANY: ADDRESS:	REPORT TO FESTILL COR Whiteshell C RIVER HILLS H - 340-574 FAX E-MAIL D FAX	BE SENT TO ANY Colony PROV.: MR (FAX NUMBER) (FAX NUMBER) (EMAIL ADDRESS)	Yecom		
SAMPLING INST Manitoba Part of the AI 12 - 1329 Niakwa Phone: +1 204 255 972	Total Prosphorations on REVERS Technology Centre LS Laboratory Grou Rd. E., Winnipeg, MB Canada R 0 Fax: +1 204 255 9721 www.al pbell Brothers Limited Company	SE SIDE	NAME: COMPANY: ADDRESS: CITY/TOWN: POSTAL CODE: PAYMENT PA	ARTICULARS EDED / CLIENT'S P.C	/ PROV.: Subtotal \$ G.S.T. \$ Total \$			
	SUBMITTER COPY		OUR POLICY IS NOT	TO ACCEPT SAMPLES FROM	THE PRIVATE CITIZEN WITHOUT PREPAYA	VENT		

ENTERED IN LIMS BY:



ATTN: JOEL Whiteshell Colony

River Hills MB R0E 1T0

Date Received: 12-JUL-13

Report Date: 18-JUL-13 15:48 (MT)

Version: FINAL

Client Phone: 204-340-5716

Certificate of Analysis

Lab Work Order #: L1331700

Project P.O. #: PAID \$31.00 by MC 16-JUL-13

Job Reference: C of C Numbers: Legal Site Desc:

<u>Paul Necolas</u> Paul Nicolas

Account Manager

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Sampled By: CLIENT on 11-JUL-13 @ 16:30	Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
	Sampled By: CLIENT on 11-JUL-13 @ 16:30 Matrix: Sewage/Waste Water	E WHITEMOUTH RI	VER					
		1.49		0.010	mg/L		18-JUL-13	R2651860
	Miscellaneous Parameters	1.49		0.010	mg/L		18-JUL-13	R2651860

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

L1331700 CONTD....

PAGE 3 of 3 Version: FINAL

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.

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

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES ANALYTICAL CHEMISTRY & TESTING SERVICES 12 - 1329 Niakwa F Winnipeg, Manitob Tel: (204) 255-972 Fax: (204) 255-972 Toll Free: 1 800 60	CHEMISTRY INFO: (204) 255 9739 MICRO INFO: (204) 255 9740 QR (204) 255 9737
FOR LABORATORY USE ONLY (SHADED AREAS)	ACCEPTABLE DATE RECEIVED: Twy 12/13
Date Sampled: July 11 Za/3 Time: 4: 30 A.M. P.M.	
1.1.1.11	Submitter's Name Printed:
Location: Unites hell Colony (Town, Community, City)	Sample Submitted By:
Community Code Number:	Rural Municipality/LGC/UVD:
SAMPLE TYPE DRINKING WATER Unfreated Well Treated Well Treated Municipal Nor-Treated Municipal Water-Surface-Raw PLEASE PRINT NON-DRINKING WATER Sewage/Waste Water Lake/River Swimming Pool Whirl Pool Other	A PRESS FIRMLY NOTES & CONDITIONS 1. Quote number must be provided to insure proper pricing. 2. Failure to properly complete all portions of this form may delay analysis. 3. ALS's liability limited to cost of analysis.
Waler-Surface-Treated	SERVICE REQUESTED REGULAR PRIORITY EMERGENCY
PURPOSE OF TEST Private Real Estate Water Main	(50% SURCHARGE) (100% SURCHARGE)
LAB NUMBER SAMPLE IDENTIFICATION	ALS CUSTOMER #: QUOTE #:
	REPORT TO BE SENT TO
Just Before whitemouth River	NAME: Whiteshell colony COMPANY: Whiteshell colony ADDRESS: Whiteshell colony
	CITY/TOWN: River Hills /PROV.! MB
	POSTAL CODE: ROE 170
	PHONE: 204-340-5716
L1331700-COFC	BY: MAIL FAX
-	CC
	NAME:
	ADDRESS:
	CITY/TOWN:/PROV.:
	POSTAL CODE:
	PHONE: BY: MAIL FAX
	(FAX NUMBER)
	PICKUP E-MAIL [(EMAIL ADDRESS)
Analysis and T \ / D) 1	BILLING ADDRESS SAME AS REPORT TO
Analyses required Total Phosphorus Analysis	NAME:
	COMPANY:
	ADDRESS:
	CITY/TOWN: / PROV.:
	POSTAL CODE:
CAMPI ING INGTO COLORS	PAYMENT PARTICULARS
SAMPLING INSTRUCTIONS ON REVERSE SIDE	☐ INVOICE NEEDED / CLIENT'S P.O. NO.
Manitoba Technology Centre Ltd.	INTERAC
Part of the ALS Laboratory Group 12 - 1329 Niakwa Rd. E., Winnipeg, MB Canada R2J 3T4	CASH Subtotal \$
Phone: +1 204 255 9720 Fax: +1 204 255 9721 www.alsglobal.com	☐ CHEQUE G.S.T. \$

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ENTERED IN LIMS BY:

☐ VISA / MASTERCARD

Total

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CASH CLIENTS - WINNIPEG N/A RIVER HILLS MB R0E 1T0 ATTN: WHITESHELL COLONY **Date:** 24-JUL-13

PO No.: CLIENT PAID \$31 BY CHEQUE

WO No.: L1334543

Project Ref:

Sample ID: WHITESHELL COLONY

Sampled By:

Date Collected: 18-JUL-13 Lab Sample ID: L1334543-1

Matrix: water

PAGE 1 of 2

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Phosphorus (P)-Total	2.37		mg/L			24-JUL-13
* CDWQG = Health Canada Guideline Limits updated * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWG	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de for diatomaceous e	tection limit. arth filtration ple	ase see
Approved by Chartal Graha— Chantal Bouchard Account Manager						



Guidelines & Objectives

Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N* Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.

Lead* A cumulative body poison, uncommon in naturally occurring hard waters.

Fluoride* Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).

Total Coliforms* Criteria is 0 CFU/100mL. Adverse health effects.

E. Coli* Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.

*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

Aesthetic Objective Concentration Levels

Alkalinity Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.

Balance Quality control parameter ratioing cations to anions
Bicarbonate See Alkalinity. Report as the anion HCO3-1
Carbonate See Alkalinity. Reported at the anion CO3-2

See Hardness. Common major cation of water chemistry.

Chloride Common major anion of water chemistry.

Conductance Physical test measuring water salinity (dissolved ions or solids)

Hardness Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in

water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.

Hydroxide See alkalinity

Magnesium See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.

Measure of water acidity/alkalinity. Normal range is 7.0-8.5.

Potassium Common major cation of water chemistry.

Sodium Common major cation of water chemistry. Measure of salinity (saltiness).

Sulphate Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.

Total Dissolved Solids A measure of water salinity.

Iron Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.

Manganese Elevated levels may cause staining of laundry and porcelain.

Heterotrophic

Calcium

рΗ

Plate Count Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

GLOSSARY OF REPORT TERMS

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< - Less than.

D.L. - The reporting 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

ALS Laboratory ANALYTICAL CHEMISTRY & TESTING SERV		onani o decida y i sinany nodi node o si
	A 11 1 10 10 10 10 10 10 10 10 10 10 10 1	** THEMISTRY INFO: (204) 255 9739
Environmental Division		ICRO INFO: (204) 255 9740 OR (204) 255 973
		WORK ORDER NO:
FOR LABORATOR	Y USE ONLY (\$ L1334543-COF	C LAB NO.:
Sample Condition U	lpon Receipt: 🔼	DATE RECEIVED: Tuly 18 (13
Frozen Cold	Ambient Broken Leakage Incom	rect Sample Container TIME RECEIVED: 1100
COMMENT:		BY: GH 20.0°C
Date Sampled: 1 1 1/2	//aa Time: O . J/T AM DVPM []	Date Required:
pare cambied. 70014 18	Ambient Broken Leakage Incom	Cubacitada Nama Daintada
Location: Whites	hell Colony	
(Town, Community, Cit	(k	Sample Submitted By:
Community Code Number:		Rural Municipality/LGC/UVD:
SAMPLE TYPE	PLEASE PRINT	T & PRESS FIRMLY
DRINKING WATER	NON-DRINKING WATER	NOTES & CONDITIONS
Untreated Well Treated Well	☐ Sewage/Waste Water ☐ Lake/River	 Quote number must be provided to insure proper pricing. Failure to properly complete all portions of this form may defay analysi
Treated Municipal	Swimming Pool	ALS's liability limited to cost of analysis.
Non-Treated Municipal Water-Surface-Raw	☐ Whirl Pool ☐ Other	
Water-Surface-Treated	_	SERVICE REQUESTED
PURPOSE OF TEST	The Mark	REGULAR PRIORITY EMERGENCY
Private Real Estat	e 🔝 Water Main	(50% SURCHARGE) (100% SURCHARGE
LAB NUMBER	SAMPLE IDENTIFICATION	ALS CUSTOMER #:QUOTE #:
*****		REPORT TO BE SENT TO
		NAME: Whiteshell Colony
		COMPANY: Whitestell Colony
		ADDRESS: Whiteshell colony
		CITY/TOWN: RIVER 14:115 / PROV.: MB
		POSTAL CODE: ROE ITO
		PHONE: 204-340-5716
		BY: MAIL FAX
		PICKUP [E-MAIL [joe @ whitestolkolonyecon
		(EMAIL ADDRESS)
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		NAME:
=	<u>-</u>	ADDRESS:
		CITY/TOWN: / PROV.:
		POSTAL CODE:
		PHONE:
		BY: MAIL FAX
		PICKUP E-MAIL
		(EMAIL ADDRESS)
Analyses required	total Phosphorous analysis	BILLING ADDRESS SAME AS REPORT TO
	19401 1. 102010002 MEHAIZ	NAME:
		COMPANY:
	<u> </u>	ADDRESS:
		CITY/TOWN: / PROV.:
		POSTAL CODE:
SAMPLING INST	TRUCTIONS ON REVERSE SIDE	PAYMENT PARTICULARS
		INVOICE NEEDED / CLIENT'S P.O. NO
Manitoba	Technology Centre Ltd.	□ INTERAC
	L S Laboratory Group Rd. E., Winnipeg, MB Canada R2J 3T4	CASH Sabtotal \$
Phone: +1 204 255 972	0 Fax: +1 204 255 9721 www.alsglobal.com	☑ CHEQUE # 075 G.S.T. \$
A Cam	obell Brothers Limited Company	□ VISA / MASTERCARD Total \$ 31.00
	SUBMITTER COPY	OUR POLICY IS NOT TO ACCEPT SAMPLES FROM THE PRIVATE CITIZEN WITHOUT PREPAYMENT
		ENTERED IN LIMS BY:



ATTN: N/A

Whiteshell Colony

River Hills MB R0E 1T0

Date Received: 26-JUL-13

Report Date: 30-JUL-13 14:28 (MT)

Version: FINAL

Client Phone: 204-340-5716

Certificate of Analysis

Lab Work Order #: L1338634

Project P.O. #: Client paid \$62.00 for this and L1338636

Job Reference: WHITESHELL COLONY

C of C Numbers: Legal Site Desc:

Chantal Bouchard

Chantal Bouchard Account Manager

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L1338634 CONTD.... PAGE 2 of 3 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1338634-1 WHITESHELL COLONY - ALMOST EMP Sampled By: CLIENT on 26-JUL-13 @ 08:30 Matrix: Water	PTY - AT DISCHARG	βE					
	2.16		0.010	mg/L		30-JUL-13	R2660537
Miscellaneous Parameters Phosphorus (P)-Total	2.16		0.010	mg/L		30-JUL-13	R2660537

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

WHITESHELL COLONY L1338634 CONTD....

Reference Information

PAGE 3 of 3 Version: FINAL

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS

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	aboratory HEMISTRY & TESTING SER		→ w	? - 1329 Niakwa Ro innipeg, Manitoba I: (204) 255 255		CHEMIS	TRY INFO: (2	204) 255 97	Request Form 739 R (204) 255 9737
Environ	nental Division						DRK ORDER NO		R (204) 200 9737 R (204) 200 9737
FOR	LABORATOR	vusê III]	\		LAB NO.:		10/056/-
	le Condition U	. 11)	L1338634-	COFC	l TABLE		DATE RECE	IVED:	Tuly 26/13
-	ozen 🗌 Cold			nicome		ontainer .	TIME RECEI	VED:	10
COM	MENT:						ву: С	4 (-	5.9°C
Date Sar	npled: JWY	Z6/Z013_	Time: <u>4</u> : <u>30</u> A.	M. P. M	Date Required:				
Location			colony.		Submitter's Nar	me Printed	:		
Cocation	(Town, Community, Ci	ty)	<u> </u>	 	Sample Submit	ted By:			
Commun	ity Code Number:		·		Rural Municipalit	ty/LGC/UVE	D:	<u>.</u>	
DRIN Untre Treat Treat Non- Wate Wate PUR	LE TYPE KING WATER ated Well ed Well ed Municipal Treated Municipal r-Surface-Raw r-Surface-Treated POSE OF TEST le Real Estat		NON-DRINK Sewage/Was Lake/River Swimming Po Whirl Pool Other		NOTES & 0 1. Quote nu 2. Failure to	CONDITION umber must coproperly cobility limited REQUESTE AR PF	be provided to in omplete all portion to cost of analys	ons of this formsis.	nicing. n may delay analysis. MERGENCY 00% SURCHARGE)
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Analys	es required	total	Phosphorous.		BILLING ADI			ME AS REPO	
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ı	12 - 1329 Niakwa	Rd. E., Winni	atory Group peg, MB Canada R2J 3	T4	CASH	+ (~~~		total \$	
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ENTERED IN LIMS BY:



ATTN: N/A

Whiteshell Colony

River Hills MB R0E 1T0

Date Received: 26-JUL-13

Report Date: 30-JUL-13 14:29 (MT)

Version: FINAL

Client Phone: 204-340-5716

Certificate of Analysis

Lab Work Order #: L1338636

Project P.O. #: Client paid see L1338634

Job Reference: WHITESHELL COLONY

C of C Numbers: Legal Site Desc:

Chantal Bouchard

Chantal Bouchard Account Manager

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L1338636 CONTD.... PAGE 2 of 3 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1338636-1 WHITESHELL COLONY - ALMOST EMF Sampled By: CLIENT on 26-JUL-13 @ 09:30	TY - AT WHITEMO	UTH RIVE	R				
Matrix: Water Miscellaneous Parameters							
Phosphorus (P)-Total	1.15		0.010	mg/L		30-JUL-13	R2660537

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

WHITESHELL COLONY L1338636 CONTD....

Reference Information

PAGE 3 of 3 Version: FINAL

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< - Less than.

D.L. - The reporting limit.

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ALS Laboratory Group



12 - 1329 Niakwa Rd. E. Winnipeg, Manitoba R2J 3T4 Tel: (204) 255-9720 Chain of Custody / Analytical Request Form

CHEMISTRY INFO: (204) 255 9739	
MICRO INFO: (204) 255 9740 OR (204) 255 97	3

Environr Intal Division	Fax: (204) 255-972 Toll Free: 1 800 60		ORK ORDER NO: 133862/
FOR LABORATOR	Y USE ONLY (SHADED AREAS)	•	LAB NO.:
ı		ACCEPTABLE	DATE RECEIVED: Taly 26/13
j.	Ambient Broken Leakage Incor		
COMMENT:			BY: GH 16.6°C
Date Sampled: J _A \y2	6/20/3 Time: 9: 30 A.M. P.M.	Date Required:	
· · · · · · · · · · · · · · · · · · ·	teshell colony.	Submitter's Name Printe	d:
Location:		Sample Submitted By:	
Community Code Number	:	Rural Municipality/LGC/UV	/D:
DAMPLE TYPE DRINKING WATER Untreated Well Treated Municipal Non-Treated Municipal Water-Surface-Raw Water-Surface-Treated PURPOSE OF TEST Private Real Esta	NON-DRINKING WATER Sewage/Waste Water Lake/River Swimming Pool Whirl Pool Other	2. Failure to properly 3. ALS's liability limite SERVICE REQUEST REGULAR F	st be provided to insure proper pricing. complete all portions of this form may delay analysis ed to cost of analysis. TED
LAB NUMBER	SAMPLE IDENTIFICATION	ALS CUSTOMER #:	QUOTE #:REPORT TO BE SENT TO
	Almost Empty - At whitement River L1338636-COFC	COMPANY: White ADDRESS: Whi CITY/TOWN: CIU POSTAL CODE: COL PHONE: ZOU - ZU BY: MAIL FA PICKUP E-I CC NAME: ADDRESS: CITY/TOWN: POSTAL CODE: PHONE: BY: MAIL FA FA PICKUP E-I	Shell Colony iteshell Colony er Hills / PROV: MB E 170 0-5716 IX [(FAX NUMBER)
SAMPLING INS Manitoba Part of the A	TRUCTIONS ON REVERSE SIDE Technology Centre Ltd. LS Laboratory Group ARI E. Winning MR Group 21 374	COMPANY:ADDRESS:	/ PROV.:
Phone: +1 204 255 97	a Rd. E., Winnipeg, MB Canada R2J 3T4 20 Fax: +1 204 255 9721 www.alsglobal.com apbell Brothers Limited Company	CHEQUE# 690	

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