

August 9, 2012

Northwest Territories Water Board  
P.O. Box 2531  
Inuvik, NT  
X0E 0T0

**Attention: Freda Wilson**

Dear Ms. Wilson:

**Water License No. N7L1-1762 at Camp Farewell  
2007-2011 Summary Report**

This letter has been written on behalf of Shell Canada Energy (Shell) by IEG Consultants Ltd. (IEG) regarding the former Water Licence No. N7L1-1762. This letter summarizes water use and disposal at Shell's Camp Farewell site between 2007 and 2011.

Between 2007 and 2011, no water was obtained from the Mackenzie River or the unnamed lake north of the site. In 2009, approximately 2,200 m<sup>3</sup> of meltwater contained in the on-site lagoon was discharged to the Mackenzie River. The meltwater was pumped from the lagoon using four pumps over two days, and discharged via hoses extending from the lagoon into the Mackenzie River. Prior to discharge, the meltwater was sampled by IEG personnel, and the analytical results are attached. The results met the criteria provided by the Northwest Territories Water Board in Water Licence N7L1-1762.

If you have any questions or comments, please contact Krista Beavis at IEG at (403) 648-4291 or at [kbeavis@klohn.com](mailto:kbeavis@klohn.com).

Yours truly,  
**KLOHN CRIPPEN BERGER LTD.**



Krista Beavis  
P.Geol.

c.c. Randall Warren – Shell Canada Energy



Your P.O. #: 47001127 005 OD  
Your Project #: A04012A01 CAMP FAREWELL  
Site: CAMP FAREWELL, NT  
Your C.O.C. #: 80849

**Attention: DAVID WELLS**  
IEG CONSULTANTS  
PO Box 3178  
INUUVIK, NT  
CANADA X0E0T0

**Report Date: 2009/07/20**

### CERTIFICATE OF ANALYSIS

**MAXXAM JOB #: A935769**

**Received: 2009/07/14, 7:35**

Sample Matrix: Water  
# Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Biochemical Oxygen Demand	1	2009/07/14	2009/07/19	EIND SOP-00010	SM 5210 B
Chlorine (Total)	1	N/A	2009/07/14	EENVSOP-00070	HACH 8167
Total Coliforms and E.Coli	1	2009/07/14	2009/07/15	EIND SOP-00013	SM 9223 A,B
Oil and Grease (Gravimetric, n-Hexane)	1	N/A	2009/07/15	EENVSOP-00093	SM 5520B
pH	1	N/A	2009/07/14	EENVSOP-00054	SM 4500-H B
Total Suspended Solids (NFR)	1	2009/07/15	2009/07/15	EENVSOP-00073	SM 2540 D

### Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ERIN ANDERSON, B.Sc., Project Manager  
Email: eanderson@maxxamanalytics.com  
Phone# (780) 577-7113 Ext:7113

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

## RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		P75429	P75429		
Sampling Date		2009/07/13 07:45	2009/07/13 07:45		
COC Number		80849	80849		
	<b>Units</b>	<b>090713-01W</b>	<b>090713-01W Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Demand Parameters</b>					
Biochemical Oxygen Demand	mg/L	24	N/A	10	3273011
<b>Misc. Inorganics</b>					
Total Dissolved Chlorine	mg/L	0.05 (1)	0.05	0.02	3271795
pH	N/A	10.1	N/A	N/A	3271204
Total Suspended Solids	mg/L	29 (2)	N/A	3	3273893
<b>Microbiological Param.</b>					
E.Coli DST	mpn/100mL	<1	N/A	1	3276828
Total Coliforms DST	mpn/100mL	82	N/A	1	3276828
<b>Misc. Organics</b>					
Extractable (n-Hex.) Oil and grease	mg/L	<4 (3)	N/A	4	3273899

N/A = Not Applicable

RDL = Reportable Detection Limit

( 1 ) Sample was past hold time when received.

Matrix Spike exceeds acceptance limits for CL2T due to matrix interference. Reanalysis yields similar results.

( 2 ) Detection limit raised based on sample volume used for analysis.

( 3 ) Detection limits raised due to insufficient sample volume.



Maxxam Job #: A935769  
Report Date: 2009/07/20

IEG CONSULTANTS  
Client Project #: A04012A01 CAMP FAREWELL  
Site Reference: CAMP FAREWELL, NT  
Your P.O. #: 47001127 005 OD  
Sampler Initials: DW

Package 1	4.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**

Quality Assurance Report  
 Maxxam Job Number: EA935769

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3271204 SB8	Calibration Check	pH	2009/07/14		100	%	97 - 103
	RPD	pH	2009/07/14	2.6		%	5
3271795 LF1	Calibration Check	Total Dissolved Chlorine	2009/07/14		95	%	80 - 120
	MATRIX SPIKE [P75429-02]	Total Dissolved Chlorine	2009/07/14		79 (1)	%	80 - 120
	BLANK	Total Dissolved Chlorine	2009/07/14	<0.02		mg/L	
	RPD [P75429-02]	Total Dissolved Chlorine	2009/07/14	NC		%	20
3273011 RV	Calibration Check	Biochemical Oxygen Demand	2009/07/19		98	%	81 - 119
	BLANK	Biochemical Oxygen Demand	2009/07/19	<2		mg/L	
3273893 RW3	MATRIX SPIKE	Total Suspended Solids	2009/07/15		95	%	80 - 120
	SPIKE	Total Suspended Solids	2009/07/15		97	%	80 - 120
	BLANK	Total Suspended Solids	2009/07/15	<1		mg/L	
	RPD	Total Suspended Solids	2009/07/15	NC (2)		%	20
3273899 AR6	BLANK	Extractable (n-Hex.) Oil and grease	2009/07/15	<2		mg/L	
3276828 JA6	BLANK	E.Coli DST	2009/07/15	<1		mpn/100mL	
		Total Coliforms DST	2009/07/15	<1		mpn/100mL	

NC = Non-calculable

RPD = Relative Percent Difference

( 1 ) Please note that the recovery of some compounds are outside control limits however the overall quality control for this analysis meets our acceptability criteria.

( 2 ) Detection limit raised based on sample volume used for analysis.

**Validation Signature Page**

**Maxxam Job #: A935769**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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DINA TLEUGABULOVA, Ph.D., Project Manager



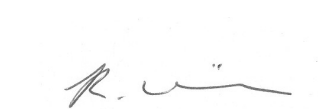
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JAY ABBOTT, Bioassay Supervisor



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LISA CUMMINGS, Extractables Supervisor



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ROBERT VIVIAN, Senior Analyst

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

**Invoice To:** Require Report? Yes ☐ No ☒  
**Company Name:** Shell Canada  
**Contact Name:** Randall Warren  
**Address:** P.O. Box 100, Station main, Calgary  
**Contact #s:** **Ph:** (403) **PC:** T2P 2H5 **Fax:** -

**Report To:**  
David Wells  
IEG Consultants Ltd.  
Wauvik  
**Prov:** NT **PC:** XOEOTO  
**Ph:** (867) 777-8521 **Fax:** (867) 777-2747

**PO # / AFE #:**  
**Quotation #:**  
**Project #:** A04012A01  
**Project Name:** Camp Farewell  
**Location:** Camp Farewell, NT  
**Sampler's Initials:** DW

**DETECTION LIMIT REQUIREMENTS:**

Check the applicable criterion and indicate land use

- ☐ AT1  
☐ CCME  
☐ OTHER

**REPORT DISTRIBUTION:**

**EMAIL ADDRESS(S):**

dwells@ieg.ca

**SERVICE REQUESTED:**

- ☒ **RUSH** (Please ensure you contact the lab to reserve)  
**Date Required:** July 16, 2009  
☐ **REGULAR** Turnaround (5 to 7 Days)

Sample Identification		Matrix S/W	Date & Time Sampled Year/Month/Day	BTEX F1-F4	Sieve (75 m	Salinity 4	Regulated	Assessment	Paint Fi	TCLP				BTEX F	BTEX F	Routine Wal	REGULATED METALS (CCME / AT1) <sup>3</sup>	Mercury	Ammon	TOC	Asbes	Bod	TSS	pH	Fecal	Oil	Total	*HOLD for 6	# of Contain
1	090712-01A	-	2009/07/12 17:00																		X								1
2	090712-02A	-	2009/07/12 17:10																		X								1
3	090712-03A	-	2009/07/12 17:20																		X								1
4	090712-04A	-	2009/07/12 17:25																		X								1
5	090713-01W	W	2009/07/13 7:45																			X	X	X	X	X	X		5
6																													
7																													
8																													
9																													
10																													
11																													
12																													

\*All samples are held for 60 calendar days after sample receipt. For long term storage please contact your project manager.

Maxxam Job #:

Relinquished By: David Wells Date/Time: July 13/09 / 7:54

Sign and Print: David Wells

COMMENTS/SPECIAL INSTRUCTIONS:

Page 6 of 6

# JARS USED & NOT SUBMITTED: 1 Received By: July 14/09 7:35am  
CUSTODY SEAL YES / NO  
Temperature: 4 36 Ice:





Your P.O. #: 47001127 005 OD  
Your Project #: A04012A01(CAMP FAREWELL)  
Site: CAMP FAREWELL, NT.  
Your C.O.C. #: 80848

**Attention: DAVID WELLS**

IEG CONSULTANTS  
PO Box 3178  
INUVIK, NT  
CANADA X0E0T0

**Report Date: 2009/07/30**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A939389**

**Received: 2009/07/29, 8:15**

Sample Matrix: Water  
# Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
pH	1	N/A	2009/07/30	EENV SOP-00054	SM 4500-H B

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ALAINA HUNTER, Project Manager  
Email: alaina.hunter@maxxamanalytics.com  
Phone# (780) 577-7100

=====

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Total cover pages: 1





Maxxam Job #: A939389  
Report Date: 2009/07/30

IEG CONSULTANTS  
Client Project #: A04012A01(CAMP FAREWELL)  
Site Reference: CAMP FAREWELL, NT.  
Your P.O. #: 47001127 005 OD  
Sampler Initials: SB

## RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		P99009		
Sampling Date		2009/07/27 15:00		
COC Number		80848		
	Units	SW-090727 FAREWELL-LGM	RDL	QC Batch

Misc. Inorganics				
pH	N/A	9.00	N/A	3312736
RDL = Reportable Detection Limit				



Maxxam Job #: A939389  
Report Date: 2009/07/30

IEG CONSULTANTS  
Client Project #: A04012A01(CAMP FAREWELL)  
Site Reference: CAMP FAREWELL, NT.  
Your P.O. #: 47001127 005 OD  
Sampler Initials: SB

Package 1	10.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**



IEG CONSULTANTS  
Attention: DAVID WELLS  
Client Project #: A04012A01(CAMP FAREWELL)  
P.O. #: 47001127 005 OD  
Site Reference: CAMP FAREWELL, NT.

### Quality Assurance Report

Maxxam Job Number: EA939389

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3312736 SB8	Calibration Check	pH	2009/07/30		100	%	97 - 103
	RPD	pH	2009/07/30	0.4		%	5
RPD = Relative Percent Difference							

Maxxam Analytics International Corporation o/a Maxxam Analytics Edmonton: 9331 - 48th Street T6B 2R4 Telephone(780)577-7100 FAX(780)450-4187

**Validation Signature Page**

**Maxxam Job #: A939389**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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DINA TLEUGABULOVA, Ph.D., Project Manager

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PO # / AFE #:   
Quotation #:   
Project #: A04012A01   
Project Name: Camp Farewell   
Location: Camp Farewell, NT.   
Sampler's Initials: STB

dwells@icg.ca  
skind@icg.ca

Interloc

Maxxam Job #:

	Ice
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9	10	1
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518 YEV 62242725

518 YEV 62242725

Shipper's Name and Address Nom et adresse de l'expéditeur <b>IEG Consultants Ltd.</b> 29 Industrial Road Inuvik, NT X0E 0T0 867-777-8521		Shipper's Account Number Numéro de compte de l'expéditeur <b>MAX102CW</b>		Not negotiable / Non négociable <b>Air Waybill Lettre de transport aérien</b> Issued by / Émise par <b>Canadian North</b> 300 - 5201 50th Ave Yellowknife, NT X1A 3S Canada	
Consignee's Name and Address Nom et adresse du destinataire <b>Maxxam Analytics</b> 9331-48st. Edmonton, AB T6B 2R4 780-465-1212		Consignee's Account Number Numéro de compte du destinataire <b>MAX102CW</b>		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity Les exemplaires 1, 2 et 3 de cette lettre de transport aérien sont originaux et ont la même validité	
Issuing Carrier's Agent Name and City / Nom et ville de l'agent du transporteur émetteur <b>YEG Canadian North</b> Edmonton		Accounting information / Renseignements comptables Acc. #: <b>KLO100CW</b> <b>Klohn Crippen Berger Ltd</b> 500 - 2618 Hopewell Place NE Calgary, AB T1Y 7J7 <b>Mary Mack, 403-291-0777</b>		It is agreed that the goods described herein are accepted for carriage in apparent good order and condition (except as noted) and SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF, ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Il est convenu que les marchandises décrites dans le présent document sont acceptées pour le transport en bon état apparent (sauf annotation contraire) et que le transport est SOUMIS AUX CONDITIONS DU CONTRAT QUI FIGURENT AU VERSO. LES MARCHANDISES PEUVENT ÊTRE TRANSPORTÉES PAR TOUT AUTRE MOYEN Y COMPRIS PAR ROUTE OU PAR TOUT AUTRE TRANSPORTEUR À MOINS QUE DES INSTRUCTIONS CONTRAIRES PRÉVOIES. À CE SUJET, L'ATTENTION DE L'EXPÉDITEUR EST ATTIRÉE SUR L'AVIS CONCERNANT LA LIMITATION DE RESPONSABILITÉ DU TRANSPORTEUR.	
Agent's IATA Code / Code IATA de l'agent <b>YEG</b>		Account Number / Numéro de compte <b>MAX102CW</b>		Declared Value for Customs Valeur déclarée pour la douane <b>NCV</b>	
Airport of Departure (Address of first Carrier) and Requested Routing Aéroport de départ (Adresse du premier transporteur) et itinéraire demandé <b>Inuvik</b>		Flight Date Vol. / Date <b>4/5/28 JUL</b>		Amount of Insurance Montant de l'assurance <b>NIL</b>	
Handling Information / Renseignements pour le traitement de l'expédition <b>Please Deliver</b> <b>KEEP COOL</b>		Signature of Shipper or his Agent Signature de l'expéditeur ou de son agent		Signature of issuing Carrier or its Agent Signature du transporteur émetteur ou de son agent	

Number of Pieces Nombre de colis RCP		Gross Weight Poids brut	kg lb	Rate Class / Classeur du tarif Commodity Item No. N° d'article de la marchandise	Chargeable Weight Poids de taxation	Rate / Charge Tarif / Montant	Total	Nature and Quantity of Goods (including Dimensions or Volume) Nature et quantité des marchandises (y compris dimensions ou volume)
1	5	K	M	GAD 00	5	MIN	51.00	Water Sample DIMS 10x8x9IN (bulk)
1	5	K					51.00	

Prepaid / Port payé	Weight Charge / Taxation au poids	Collect / Port dû	Other Charges / Autres frais
51.00	0.00		Delivery Charge 12.00 Nav Canada Charge 2.5
0.00	0.00		Fuel Surcharge 4.59 Goods/Service Tax 3.5
3.51	0.00		
Total other Charges Due Agent / Total des autres frais dus à l'agent			
0.00	0.00		
Total other Charges Due Carrier / Total des autres frais dus au transporteur			
19.14	0.00		
Total prepaid / Total port payé		Total collect / Total port dû	
73.65	0.00		
Currency Conversion Rates Taux de conversion monétaire	Charges in Destination Currency Port dû en monnaie du pays de destination		
For Carrier's Use only at Destination Réservé au transporteur à destination	Charges at Destination / Frais à l'arrivée		

518 YEV 62242725

ORIGINAL 2 (FOR CONSIGNEE)  
ORIGINAL 2 (POUR LE DESTINATAIRE)