

NWB Annual Report

Year being reported: 2016 ▼

License No: 1BR-THI1419 Issued Date: August 20, 2014
 Expiry Date: August 19, 2019

Project Name: Hydrocarbon Impacted Water Treatment Facility Project

Licensee: Qikiqtaaluk Environmental Inc.

Mailing Address: PO Box 2110
 2027 Iqaluit Lane
 Iqaluit, Nu
 X0A 0H0

Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):

same

General Background Information on the Project (*optional):

Licence Requirements: the licensee must provide the following information in accordance with

Part B ▼ Item 1 ▼

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	no water used	
Water Quantity:	0	Quantity Allowable Domestic (cu.m)
	0	Actual Quantity Used Domestic (cu.m)
	0	Quantity Allowable Drilling (cu.m)
	0	Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

- ☐ Solid Waste Disposal
☐ Sewage
☐ Drill Waste
☐ Greywater
☐ Hazardous
☒ Other:

Hydrocarbon Impacted Water

Additional Details:

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: na (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed

Additional Details:

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed

Additional Details:

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Additional Details:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Additional Details:

Results of any additional sampling and/or analysis that was requested by an Inspector

No additional sampling requested by an Inspector or the Board

Additional Details: (date of request, analysis of results, data attached, etc)

na

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

No additional sampling requested by an Inspector or the Board

Additional Details: (Attached or provided below)

na

Any responses or follow-up actions on inspection/compliance reports

No inspection and/or compliance report issued by INAC

Additional Details: (Dates of Report, Follow-up by the Licensee)

na

Any additional comments or information for the Board to consider

Attached are the analytical results of water samples collected at monitoring station THI-1 prior to discharge of treated water on July 22nd (~37,260L), and September 9th (~37,260L), 2016.

Date Submitted:

May 15, 2018

Submitted/Prepared by:

Olivier Simard

Contact Information:

Tel: (867) 222-8194

Fax: na

email: osimard@genv.ca

C.O.C.: ---

REPORT No. B16-18383

Report To:

Qikiqtaaluk Env. Inc.

9935, rue de Chateaufort, Entrée 1

Brossard Quebec J4Z 3V4 Canada

Attention: Oliver Simard

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 28-Jun-16

JOB/PROJECT NO.: QE15-201-6

DATE REPORTED: 08-Jul-16

P.O. NUMBER: 430000873

SAMPLE MATRIX: Surface Water

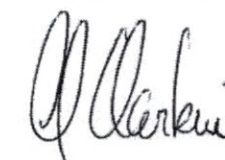
WATERWORKS NO.

			Client I.D.	Res 1-2			
			Sample I.D.	B16-18383-1			
			Date Collected	23-Jun-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	29-Jun-16/O	135		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	29-Jun-16/O	96		
pH @25°C	pH Units		SM 4500H	29-Jun-16/O	7.90		
Conductivity @25°C	µmho/cm	1	SM 2510B	29-Jun-16/O	262		
Total Suspended Solids	mg/L	3	SM 2540D	30-Jun-16/O	3		
Chloride	mg/L	0.5	SM4110C	29-Jun-16/O	3.2		
Nitrite (N)	mg/L	0.1	SM4110C	29-Jun-16/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	29-Jun-16/O	8.0		
Sulphate	mg/L	1	SM4110C	29-Jun-16/O	3		
Aluminum	mg/L	0.01	SM 3120	29-Jun-16/O	0.07		
Cadmium	mg/L	0.00002	EPA 200.8	04-Jul-16/O	0.00003		
Calcium	mg/L	0.02	SM 3120	29-Jun-16/O	48.8		
Chromium	mg/L	0.002	SM 3120	29-Jun-16/O	< 0.002		
Copper	mg/L	0.0001	EPA 200.8	04-Jul-16/O	0.0411		
Iron	mg/L	0.005	SM 3120	29-Jun-16/O	0.200		
Lead	mg/L	0.00002	EPA 200.8	04-Jul-16/O	0.0125		
Magnesium	mg/L	0.01	SM 3120	29-Jun-16/O	3.07		
Manganese	mg/L	0.001	SM 3120	29-Jun-16/O	0.144		
Mercury	mg/L	0.00002	SM 3112 B	04-Jul-16/O	< 0.00002		
Nickel	mg/L	0.0002	EPA 200.8	04-Jul-16/O	0.0058		
Phosphorus	mg/L	0.1	SM 3120	29-Jun-16/O	< 0.1		
Potassium	mg/L	0.1	SM 3120	29-Jun-16/O	0.9		
Sodium	mg/L	0.2	SM 3120	29-Jun-16/O	2.6		
Zinc	mg/L	0.005	SM 3120	29-Jun-16/O	0.059		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	30-Jun-16/O	0.03		
Phenolics	mg/L	0.001	MOEE 3179	30-Jun-16/O	< 0.001		
Benzene	µg/L	0.5	EPA 8260	30-Jun-16/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	30-Jun-16/O	< 0.5		

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

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Brossard Quebec J4Z 3V4 Canada

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2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 28-Jun-16

JOB/PROJECT NO.: QE15-201-6

DATE REPORTED: 08-Jul-16

P.O. NUMBER: 430000873

SAMPLE MATRIX: Surface Water

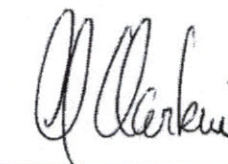
WATERWORKS NO.

			Client I.D.	Res 1-2			
			Sample I.D.	B16-18383-1			
			Date Collected	23-Jun-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Ethylbenzene	µg/L	0.5	EPA 8260	30-Jun-16/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	30-Jun-16/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	30-Jun-16/O	< 0.1		
Xylene, m,p,o-	µg/L	0.4	EPA 8260	30-Jun-16/O	< 0.4		
Toluene-d8 (SS)	%		EPA 8260	30-Jun-16/O	100		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	30-Jun-16/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	30-Jun-16/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	30-Jun-16/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	30-Jun-16/K	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	06-Jul-16/K	1.1		
Acenaphthene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	08-Jul-16/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	08-Jul-16/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Dibenz(a,h)anthracene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	08-Jul-16/K	< 0.07		
Naphthalene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

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1ST BATCH

C.O.C.: ---

REPORT No. B16-18383

Report To:

Qikiqtaaluk Env. Inc.

9935, rue de Chateauneuf, Entrée 1

Brossard Quebec J4Z 3V4 Canada

Attention: Oliver Simard

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 28-Jun-16

JOB/PROJECT NO.: QE15-201-6

DATE REPORTED: 08-Jul-16

P.O. NUMBER: 430000873

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	Res 1-2			
			Sample I.D.	B16-18383-1			
			Date Collected	23-Jun-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Phenanthrene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	08-Jul-16/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	08-Jul-16/K	60.0		

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

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C.O.C.: ---

REPORT No. B16-20760

Rev. 1

Report To:

Qikiqtaaluk Env. Inc.

9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Oliver Simard

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Jul-16

JOB/PROJECT NO.: QE15-201-6

DATE REPORTED: 21-Jul-16

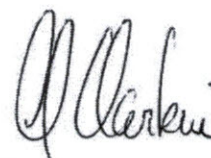
P.O. NUMBER: 430000873

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Parameter			Hardness (as CaCO ₃)	Lead			
Units			mg/L	mg/L			
R.L.			1	0.00002			
Reference Method			SM 3120	EPA 200.8			
Date Analyzed/Site			21-Jul-16/O	19-Jul-16/O			
Client I.D.	Sample I.D.	Date Collected					
RES 1-2	B16-20760-1	13-Jul-16	129	0.00265			

NOTE: Revision created upon request from client to add Hardness to the Final Report.



Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

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Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill

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Olivier Simard

De: Olivier Simard <osimard@qenv.ca>
Envoyé: juillet 22 2016 11:25
À: Justin Hack (Justin.Hack@aandc-aadnc.gc.ca)
Objet: Water Discharge - QE
Pièces jointes: B16-18383_R.PDF; B16-20760 rev 1_R.PDF

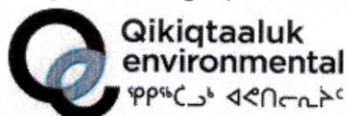
Justin,

We treated approximately 40 cubic meters of water and we are ready to discharge. I attached the analytical results. On the report No. B16-18383, the Lead concentration was elevated above the effluent quality limits within the licence. We then did a Lime treatment on the water and re-tested. The Lead concentration came out to 0.00265 mg/L and hardness to 129 mg/L (see report No. B16-20760). According to CCME, when hardness is accounted for, the Lead concentration water is no longer considered a waste. See CCME calculator http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=124#aql_fresh_concentration. Are we authorized to discharge this treated water considering that this concentration does not exceed CCME Guidelines for the Protection of Aquatic Life?

Thanks,

Olivier Simard B.Sc.

Project Manager, Northern Projects



1571B Kakivak Ct. PO Box 1228
Iqaluit, Nunavut X0A 0H0 Canada
Cellular 1 867 222-8194

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C.O.C.: ---

REPORT No. B16-25153

Report To:

Qikiqtaaluk Env. Inc.

9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 23-Aug-16

JOB/PROJECT NO.: QE16-131-2

DATE REPORTED: 02-Sep-16

P.O. NUMBER:

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	Res 1-2			
			Sample I.D.	B16-25153-1			
			Date Collected	21-Aug-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Aug-16/O	71		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	31-Aug-16/O	101		
pH @25°C	pH Units		SM 4500H	24-Aug-16/O	9.06		
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Aug-16/O	215		
Total Suspended Solids	mg/L	3	SM 2540D	26-Aug-16/O	3		
Chloride	mg/L	0.5	SM4110C	23-Aug-16/O	10.2		
Nitrite (N)	mg/L	0.1	SM4110C	23-Aug-16/O	0.4		
Nitrate (N)	mg/L	0.1	SM4110C	23-Aug-16/O	1.0		
Sulphate	mg/L	1	SM4110C	23-Aug-16/O	3		
Aluminum	mg/L	0.01	SM 3120	24-Aug-16/O	1.57		
Cadmium	mg/L	0.00002	EPA 200.8	25-Aug-16/O	0.00002		
Calcium	mg/L	0.02	SM 3120	24-Aug-16/O	26.4		
Chromium	mg/L	0.002	SM 3120	24-Aug-16/O	< 0.002		
Copper	mg/L	0.0001	EPA 200.8	25-Aug-16/O	0.0024		
Iron	mg/L	0.005	SM 3120	24-Aug-16/O	0.117		
Lead	mg/L	0.00002	EPA 200.8	25-Aug-16/O	0.00069		
Magnesium	mg/L	0.01	SM 3120	24-Aug-16/O	1.21		
Manganese	mg/L	0.001	SM 3120	24-Aug-16/O	0.045		
Mercury	mg/L	0.00002	SM 3112 B	24-Aug-16/O	< 0.00002		
Nickel	mg/L	0.0002	EPA 200.8	25-Aug-16/O	0.0013		
Phosphorus	mg/L	0.1	SM 3120	24-Aug-16/O	0.3		
Potassium	mg/L	0.1	SM 3120	24-Aug-16/O	2.8		
Sodium	mg/L	0.2	SM 3120	24-Aug-16/O	21.4		
Zinc	mg/L	0.005	SM 3120	24-Aug-16/O	0.010		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	30-Aug-16/O	< 0.01		
Phenolics	mg/L	0.001	MOEE 3179	31-Aug-16/O	< 0.001		
Oil & Grease-Total	mg/L	1.0	SM 5520	02-Sep-16/K	< 1.0		
Benzene	µg/L	0.5	EPA 8260	23-Aug-16/O	< 0.5		



Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

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Brossard Quebec J4Z 3V4 Canada

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Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 23-Aug-16

JOB/PROJECT NO.: QE16-131-2

DATE REPORTED: 02-Sep-16

P.O. NUMBER:

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		Res 1-2			
			Sample I.D.		B16-25153-1			
			Date Collected		21-Aug-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Toluene	µg/L	0.5	EPA 8260	23-Aug-16/O	0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	23-Aug-16/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	23-Aug-16/O	< 0.4			
Xylene, o-	µg/L	0.1	EPA 8260	23-Aug-16/O	< 0.1			
Xylene, m,p,o-	µg/L	0.4	EPA 8260	23-Aug-16/O	< 0.4			
Toluene-d8 (SS)	%		EPA 8260	23-Aug-16/O	102			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	23-Aug-16/O	< 20			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	30-Aug-16/K	240			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	30-Aug-16/K	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	30-Aug-16/K	< 400			
Acenaphthene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Acenaphthylene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Anthracene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	29-Aug-16/K	< 0.01			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	29-Aug-16/K	< 0.1			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Chrysene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Fluoranthene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Fluorene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			
Methylnaphthalene 2-(-1-)	µg/L	0.07	EPA 8270	29-Aug-16/K	< 0.07			
Naphthalene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05			

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Lab Manager - Ottawa District

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DATE RECEIVED: 23-Aug-16

JOB/PROJECT NO.: QE16-131-2

DATE REPORTED: 02-Sep-16

P.O. NUMBER:

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	Res 1-2			
			Sample I.D.	B16-25153-1			
			Date Collected	21-Aug-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Phenanthrene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	29-Aug-16/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	29-Aug-16/K	90.0		

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

Olivier Simard

De: Justin Hack <Justin.Hack@aandc-aadnc.gc.ca>
Envoyé: septembre 9 2016 11:47
À: Simard, Olivier
Objet: Re: Treated water discharge - 2nd batch

Hi Olivia,

Thank you for the notification.

Although, your discharge is very slightly above the water quality parameters; however, under normal conditions the error related to pH measurements is +/- 0.1pH, which could put you below the criteria.

Please proceed with the discharge.

Justin

>>> "Olivier Simard" <osimard@qenv.ca> 9/9/2016 11:25 AM >>>
Hello Justin,

Please see attached analysis results from second batch of water treated this year. Are we allowed to discharge at Lot 3 discharge location? The only criteria here that's glitching is pH at 9.06 when our license says 6.5 to 9 units...

Olivier Simard B.Sc.

Project Manager, Northern Projects



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