NWB2(insert)

NWB Annua	al Report	Year being reported: 2014 ▼	111122
License No:	1BR-THI1419	Issued Date: August 20, 2014	
		Expiry Date: August 19, 2019	
	Project Name:	Treatment of Hydrocarbon Impacted Water	
	Licensee: Qiki	qtaaluk Environmental Inc.	
	Mailing Address:	9935 Catania Avenue, Entrance 1 - Suite 200 Brossard, QC J4Z 3V4	
		y filing Annual Report (if different from Name of Licensee please clarify he two entities, if applicable):	
General Bac	ckground Information	on on the Project (*optional):	
	1	ns to a water treatment facility used for the treatment of cted water and snow/ice.	
	ater; sewage and g	and waste disposal activities, including, but not limited to: methods of reywater management; drill waste management; solid and hazardous waste	
•	Water Source(s):	None - no water withdraw	
	Water Quantity:	O Quantity Allowable Domestic (cu.m) O Actual Quantity Used Domestic (cu.m) O Quantity Allowable Drilling (cu.m) Total Quantity Used Drilling (cu.m)	
	Waste Managemer Solid Waste I Sewage Drill Waste Greywater Hazardous	•	
	✓ Other:	Hydrocarbon impacted water and free product	
	Additional Details: rbon impacted water	r is treated using filters. Excess free product is packaged in drums and disposed	
We are wai	ting on AANDC appro	y 4,500 litres of wastewater stored onsite and 23,000 litres stored at the airport. oval to discharge the water, test results have been provided	
All treated v	water has been disch	arged on Lot 3.	
A total of 50	6,590 L of PHC conta	minated water/snow/ice was collected, treated and discharged in 2014.	

	unauthorized discharges and a summary of follow-up actions taken.
	Spill No.: (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)
	No spills occured
	The spine seems of the spine see
Pavision	s to the Spill Contingency Plan
CVISION	Other: (see additional details)
	other. (See additional details)
	Additional Details:
	The Spill Contingency Plan has been revised and submitted along with the 2014
	Annual Report for approval as requested.
Revision	s to the Abandonment and Restoration Plan
	AR plan submitted and approved - no revision required or proposed
	Additional Details:
	The reclamation cost estimate remains unchanged. The previous plan and cost
	estimate submitted remains valid.
Progress	sive Reclamation Work Undertaken
	Additional Details (i.e., work completed and future works proposed)
	None completed, work will be done at the start of 2015 to meet the requirements
	of the AANDC inspection report.
Results	of the Monitoring Program including:
	The GPS Coordinates (in degrees, minutes and seconds of latitude and longitude) of each
	location where sources of water are utilized;
	Not Applicable (N/A)
	Additional Details:
	No water sources are used.
	No water sources are used.
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;
	location where wastes associated with the licence are deposited; Not Applicable (N/A)
	location where wastes associated with the licence are deposited;
	location where wastes associated with the licence are deposited; Not Applicable (N/A)
	location where wastes associated with the licence are deposited; Not Applicable (N/A) Additional Details:
	Iocation where wastes associated with the licence are deposited; Not Applicable (N/A) Additional Details: Waste (used filter material etc.) is shipped south for disposal at an authorized
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Any other details on water use or waste disposal requested by the Board by November	r 1 of the year l	being
reported.		

No additional sampling requested by an Inspector or the Board



Additional Details: (Attached or provided below)

A total of 56,590 L of impacted water was treated at the facility in 2014.

The following was sent for off-site disposal:

- -500 kg activated carbon
- -410 L (2 drums) of waste petroleum product
- -1 m³ of waste absorbents

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)

Any additional comments or information for the Board to consider

QE plans to connect the WTU to the City's electrical grid in 2015.

Figure 1 presented in the Operations and Management Plan provides a map of the treatment facility and associated infrastructure.

Analytical results for treated effluent samples (Sample ID: 1129636) showed concentrations below the maximum allowable criteria outlined in the Licence (1BR-THI1419) as specified in the Operations and Management Plan.

A soil sample (Sample ID: Cour1) was also collected at the point of discharge and the results show that the discharge of treated water has no adverse impact on the surrounding environment.

Analytical certificates are attached to the present report.

Monitoring will continue throughout the operation of the facility as outlined in the Operations and Management Plan.

Date Submitted: Submitted/Prepared by: Contact Information: March 27, 2015

Olivier Simard

Tel: (867) 222-8194

Fax:

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email: osimard@qenv.ca

Certificate of Analysis



Client: Qikiytaaluk Enviromental

9935 Av de Catania, Entrance 1, Suite 200

Brossard, QC J4X 3V4

Attention: Mr. Oliver Simard PO#: RQ11-105

Invoice to: Qikiytaaluk Enviromental

 Report Number:
 1416300

 Date Submitted:
 2014-08-05

 Date Reported:
 2014-08-13

 Project:
 QE14-200-3

 COC #:
 788187

Tanya Baillargeon

Team Lead, Organics

Page 1 of 9

_		_	_	_
Dear	Oliv.	nr C	ima	rd.
Deal	UIIV	e 3	ши	пu.

Please find attached the analytical results for your samples.	If you have any questions regarding this report,	please do not hesitate to call (613-727-5692).
Report Comments:		
APPROVAL:		APPROVAL:

Exova (Ottawa) is certified and accredited for specific parameters by:

Laboratory Supervisor, Inorganics

CALA, Canadian Association for Laboratory Accreditation (to ISO 17025), OMAFRA, Ontario Ministry of Agriculture, Food and Rural Affairs (for farm soils), Licensed by Ontario MOE for specific tests in drinking water.

Exova (Mississauga) is accredited for specific parameters by: SCC, Standards Council of Canada (to ISO 17025)

Lorna Wilson

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Certificate of Analysis



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 Report Number:
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 2014-08-13

 Project:
 QE14-200-3

 COC #:
 788187

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1123936 Water - 2014-08-04 2014-01
Calculations	Hardness as CaCO3	1 1	mg/L		321
General Chemistry	Alkalinity as CaCO3	5	mg/L		123
	Cl	1	mg/L		622
	Conductivity	5	uS/cm		2500
	NO2 + NO3 as N	0.10	mg/L		0.23
	рН	1.00			7.74
	SO4	1	mg/L		151
	Total Suspended Solids	2	mg/L		20
Hydrocarbons	F1 (C6-C10)	100	ug/L		<100
	F1-BTEX (C6-C10)	100	ug/L		<100
	F2 (C10-C16)	100	ug/L		200
	F3 (C16-C34)	200	ug/L		<200
	F4 (C34-C50)	200	ug/L		<200
	O-Terphenyl	0	%		139
Mercury	Hg	0.0001	mg/L		<0.0001
Metals	Al	0.01	mg/L		0.13
	As	0.001	mg/L		0.001
	Ca	1	mg/L		61
	Cd	0.0001	mg/L		0.0005
	Со	0.0002	mg/L		0.0024
	Cr	0.001	mg/L		<0.001
	Cu	0.001	mg/L		0.007
	Fe	0.03	mg/L		3.51
	K	1	mg/L		11
	Mg	1	mg/L		41
	Mn	0.01	mg/L		1.04

Guideline =

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Brossard, QC

J4X 3V4

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 Project:
 QE14-200-3

 COC #:
 788187

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1123936 Water - 2014-08-04 2014-01
Metals	Na	2	mg/L		414
	Ni	0.005	mg/L		0.010
	Pb	0.001	mg/L		0.002
	Zn	0.01	mg/L		0.22
Nutrients	N-NH3	0.02	mg/L		5.17
	Phenols	0.001	mg/L		0.002
	Total P	0.01	mg/L		0.02
Oil & Grease	Oil & Grease - Total	1	mg/L		<1
Semi-Volatiles	1-methylnaphthalene	0.1	ug/L		<0.1
	2-methylnaphthalene	0.1	ug/L		<0.1
	Acenaphthene	0.1	ug/L		<0.1
	Acenaphthylene	0.1	ug/L		<0.1
	Anthracene	0.1	ug/L		<0.1
	Benzo(a)anthracene	0.1	ug/L		<0.1
	Benzo(a)pyrene	0.01	ug/L		<0.01
	Benzo(b)fluoranthene	0.05	ug/L		<0.05
	Benzo(g,h,i)perylene	0.1	ug/L		<0.1
	Benzo(k)fluoranthene	0.05	ug/L		<0.05
	Chrysene	0.05	ug/L		<0.05
	Dibenzo(a,h)anthracene	0.1	ug/L		<0.1
	Fluoranthene	0.1	ug/L		<0.1
	Fluorene	0.1	ug/L		<0.1
	Indeno(1,2,3-c,d)pyrene	0.1	ug/L		<0.1
	Naphthalene	0.1	ug/L		<0.1
	Phenanthrene	0.1	ug/L		<0.1
	Pyrene	0.1	ug/L		<0.1

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 2014-08-13

 Project:
 QE14-200-3

 COC #:
 788187

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1123936 Water - 2014-08-04 2014-01
VOCs	Benzene	0.5	ug/L		<0.5
	Ethylbenzene	0.5	ug/L		<0.5
	m/p-xylene	0.5	ug/L		<0.5
	o-xylene	0.5	ug/L		<0.5
	Toluene	0.5	ug/L		<0.5
	Xylene; total	1.0	ug/L		<1.0
VOCs Surrogates (%	Toluene-d8	0	%		98

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Report Number: 1416300
Date Submitted: 2014-08-05
Date Reported: 2014-08-13
Project: QE14-200-3
COC #: 788187

QC Summary

	Analyte			Blank		QC % Rec	QC Limits
Run No	0	Analysis Date	2014-	08-07 Method	C:	SM2340B	
Hardnes	s as CaCO3						
Run No	274035	Analysis Date	2014-	08-06 Method	C:	SM4500-PF	
Total P				<0.01 mg/L		100	85-115
Run No	274047	Analysis Date	2014-	08-06 Method	C:	SM4500-NH3D	
N-NH3				<0.02 mg/L		98	85-115
Run No	274057	Analysis Date	2014-	08-06 Method	EP	PA 200.8	
Al				<0.01 mg/L		94	89-111
As				<0.001 mg/L		99	93-106
Cd				<0.0001 mg/L		99	93-107
Со				<0.0002 mg/L		101	94-106
Cr				<0.001 mg/L		101	94-106
Cu				<0.001 mg/L		100	93-106
Fe				<0.03 mg/L		95	92-107
Mn				<0.01 mg/L		102	94-106

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Brossard, QC

J4X 3V4

Attention: Mr. Oliver Simard

PO#: RQ11-105 Invoice to: Qikiytaaluk Enviromental Report Number: 1416300 Date Submitted: Date Reported: Project:

2014-08-05 2014-08-13 QE14-200-3 COC #: 788187

QC Summary

	Analyte			Blank	QC % Rec	QC Limits
Ni			<	0.005 mg/L	101	94-106
Pb			<	0.001 mg/L	106	70-130
Zn			•	<0.01 mg/L	100	94-106
Run No	274068	Analysis Date 201	4-08-06	Method	C SM5530D	
Phenols			<	0.001 mg/L	96	73-127
Run No	274083	Analysis Date 201	4-08-06	Method	C SM4500-NO3-F	
NO2 + N	O3 as N		<	<0.10 mg/L	100	80-120
Run No	274084	Analysis Date 201	4-08-06	Method	M SM3120B-3500C	
Ca				<1 mg/L	99	80-120
K				<1 mg/L	104	80-120
Mg				<1 mg/L	99	80-120
Na				<2 mg/L	103	80-120
Run No	274087	Analysis Date 201	4-08-06	Method	M SM3112B-3500B	
Hg			<(0.0001 mg/L	107	70-130
Run No	274102	Analysis Date 201	4-08-06	Method	SM 2320B	
Alkalinity	as CaCO3			<5 mg/L	97	95-105
Conducti	vity			<5 uS/cm	101	95-105

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Report Number: 1416300
Date Submitted: 2014-08-05
Date Reported: 2014-08-13
Project: QE14-200-3
COC #: 788187

QC Summary

Analyte		Blank	QC % Rec	QC Limits
рН		5.93	100	90-110
Run No 274106	Analysis Date 2014-	08-07 Method	SM 4110C	_
CI		<1 mg/L	100	90-110
SO4		<1 mg/L	107	90-110
Run No 274139	Analysis Date 2014-	08-07 Method	C SM2540	
Total Suspended Solids		<2 mg/L	101	90-110
Run No 274207	Analysis Date 2014-	08-08 Method	O CCME Reg 153	
F1 (C6-C10)		<100 ug/L	103	80-120
Run No 274209	Analysis Date 2014-	08-08 Method	O CCME Reg 153	
F1-BTEX (C6-C10)				
Run No 274210	Analysis Date 2014-	08-07 Method	V 8260B	
Benzene		<0.5 ug/L	101	80-120
Ethylbenzene		<0.5 ug/L	102	80-120
m/p-xylene		<0.5 ug/L	107	80-120
o-xylene		<0.5 ug/L	105	80-120
Toluene		<0.5 ug/L	110	80-120
Toluene-d8		95 %	105	80-120

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Brossard, QC

J4X 3V4

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Project: QE14-200-3
COC #: 788187

QC Summary

Analyte		Blank	QC % Rec	QC Limits
Run No 274212	Analysis Date 2014-	08-08 Method \	⁷ 8260B	
Xylene; total				
Run No 274233	Analysis Date 2014-	08-08 Method 0	SM5520B	
Oil & Grease - Total		<1 mg/L	95	60-120
Run No 274282	Analysis Date 2014-	08-08 Method F	8270	
1-methylnaphthalene		<0.1 ug/L	64	20-140
2-methylnaphthalene		<0.1 ug/L	64	20-140
Acenaphthene		<0.1 ug/L	66	20-140
Acenaphthylene		<0.1 ug/L	64	20-140
Anthracene		<0.1 ug/L	72	20-140
Benzo(a)anthracene		<0.1 ug/L	78	20-140
Benzo(a)pyrene		<0.01 ug/L	73	20-140
Benzo(b)fluoranthene		<0.05 ug/L	67	20-140
Benzo(g,h,i)perylene		<0.1 ug/L	76	20-140
Benzo(k)fluoranthene		<0.05 ug/L	76	20-140
Chrysene		<0.05 ug/L	77	20-140
Dibenzo(a,h)anthracene		<0.1 ug/L	76	20-140

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J4X 3V4

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Report Number: 1416300
Date Submitted: 2014-08-05
Date Reported: 2014-08-13
Project: QE14-200-3
COC #: 788187

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Fluoranthene	<0.1 ug/L	78	20-140
Fluorene	<0.1 ug/L	70	20-140
Indeno(1,2,3-c,d)pyrene	<0.1 ug/L	76	20-140
Naphthalene	<0.1 ug/L	62	20-140
Phenanthrene	<0.1 ug/L	72	20-140
Pyrene	<0.1 ug/L	80	20-140
Run No 274366 Analysis Date 2014-	-08-12 Method O	CCME	
O-Terphenyl	71 %		60-140
Run No 274386 Analysis Date 2014-	-08-12 Method O	CCME Reg 153	
F4 (C34-C50)	<200 ug/L	119	50-120
Run No 274389 Analysis Date 2014-	-08-12 Method O	CCME Reg 153	
F2 (C10-C16)	<100 ug/L	119	50-120
F3 (C16-C34)	<200 ug/L	119	50-120

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9935 Av de Catania, Entrance 1, Suite 200

Brossard, QC J4X 3V4

Attention: Mr. Greg Johnson

PO#: RQ11-105

Page 1 of 6 Invoice to: Qikiytaaluk Enviromental

Report Number: 1418970 Date Submitted: 2014-09-03 Date Reported: 2014-09-10 Project: QE14-200-3 COC #: 789334

Charlie (Long) Qu

Laboratory Supervisor, Organics

Dear Greg Johnson:

Please find attached the analytical results for your samples.	If you have any questions regarding this report,	please do not hesitate to call (613-727-5692).
Report Comments:		
APPROVAL:		APPROVAL:

Exova (Ottawa) is certified and accredited for specific parameters by:

Laboratory Supervisor, Inorganics

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Lorna Wilson

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Certificate of Analysis



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9935 Av de Catania, Entrance 1, Suite 200

Brossard, QC

J4X 3V4

Attention: Mr. Greg Johnson

PO#: RQ11-105

Invoice to: Qikiytaaluk Enviromental

 Report Number:
 1418970

 Date Submitted:
 2014-09-03

 Date Reported:
 2014-09-10

 Project:
 QE14-200-3

 COC #:
 789334

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1131280 Soil 2014-09-02 Cour 1
<u> </u>	Moisture	0.1	%	Guideillie	4.6
General Chemistry	F1 (C6-C10)	10			<10
Hydrocarbons			ug/g		<10
_	F1-BTEX (C6-C10)	10	ug/g		<10
-	F2 (C10-C16) F3 (C16-C34)	20	ug/g		<20
-	· · · · · · · · · · · · · · · · · · ·	20	ug/g		<20
-	F4 (C34-C50) O-Terphenyl	0	ug/g %		60
Moround	Hg	0.1			<0.1
Mercury Metals	_	0.1	ug/g		<0.2
IVIETAIS	Ag As	1	ug/g		3
_	Ba	1	ug/g ug/g		41
	Cd	0.5			<0.5
	Co	1	ug/g		9
	Cr	1	ug/g		56
	Cu	1	ug/g		22
	Mn	1	ug/g ug/g		325
	Mo	1	ug/g ug/g		1
	Ni	1	ug/g ug/g		26
	Pb	1	ug/g ug/g		8
	Se	1	ug/g ug/g		<1
	Sn Sn	5	ug/g ug/g		<5
	Zn	2	ug/g ug/g		65
VOCs	Benzene	0.02	ug/g ug/g		<0.02
V 003	Ethylbenzene	0.02	ug/g ug/g		<0.05
	m/p-xylene	0.05	ug/g ug/g		<0.05
	o-xylene	0.05	ug/g ug/g		<0.05
	O-VAIGHG	0.05	ug/g		νο.οο

Guideline =

* = Guideline Exceedence

** = Analysis completed at Mississauga, Ontario.

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Certificate of Analysis



Client: Qikiytaaluk Enviromental

9935 Av de Catania, Entrance 1, Suite 200

Brossard, QC

J4X 3V4

Attention: Mr. Greg Johnson

PO#: RQ11-105

Invoice to: Qikiytaaluk Enviromental

Report Number: 1418970
Date Submitted: 2014-09-03
Date Reported: 2014-09-10
Project: QE14-200-3
COC #: 789334

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1131280 Soil 2014-09-02 Cour 1
VOCs	Toluene	0.20	ug/g		<0.20
	Xylene; total	0.05	ug/g		<0.05
VOCs Surrogates (%	Toluene-d8	0	%		95

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QC Summary

Analyte		Blank	QC % Rec	QC Limits
Run No 275894	Analysis Date 2014-	09-10 Method C	CME	
F2 (C10-C16)		<10 ug/g	92	50-120
F3 (C16-C34)		<20 ug/g	92	50-120
F4 (C34-C50)		<20 ug/g	92	50-120
Run No 275899	Analysis Date 2014-	09-10 Method C	SM2540B	
Moisture		<0.1 %	99	80-120
Run No 275906	Analysis Date 2014-	09-10 Method C	CME	_
O-Terphenyl		60 %	106	60-140
Run No 275942	Analysis Date 2014-	09-09 Method V	8260B	
Benzene		<0.02 ug/g	92	80-120
Ethylbenzene		<0.05 ug/g	91	80-120
m/p-xylene		<0.05 ug/g	95	80-120
o-xylene		<0.05 ug/g	95	80-120
Toluene		<0.20 ug/g	95	80-120
Toluene-d8		98 %	100	

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J4X 3V4 Mr. Greg Johnson

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QC Summary

	Analyte				Blank		QC % Rec	QC Limits
Run No	275943	Analysis Date	2014-	09-10	Method	CC	CME	
F1 (C6-C	(10)				<10 ug/g		95	80-120
Run No	275944	Analysis Date	2014-	09-10	Method	CC	CME	
F1-BTE	((C6-C10)							
Run No	275945	Analysis Date	2014-	09-10	Method	V 8	3260B	
Xylene; t	otal							
Run No	275948	Analysis Date	2014-	09-10	Method	М	SM3112B-3500B	
Hg					<0.1 ug/g		87	70-130
Run No	275958	Analysis Date	2014-	09-10	Method	EF	PA 200.8	
Ag					<0.2 ug/g		92	70-130
As					<1 ug/g		100	70-130
Ва					<1 ug/g		94	70-130
Cd					<0.5 ug/g		91	70-130
Co					<1 ug/g		98	70-130
Cr					<1 ug/g		101	70-130
Cu					<1 ug/g		99	70-130
Mn					<1 ug/g		101	70-130

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QC Summary

Analyte	Blank	QC % Rec	QC Limits
Мо	<1 ug/g	98	70-130
Ni	<1 ug/g	100	70-130
Pb	<1 ug/g	95	70-130
Se	<1 ug/g	100	70-130
Sn	<5 ug/g	91	70-130
Zn	<2 ug/g	98	70-130

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