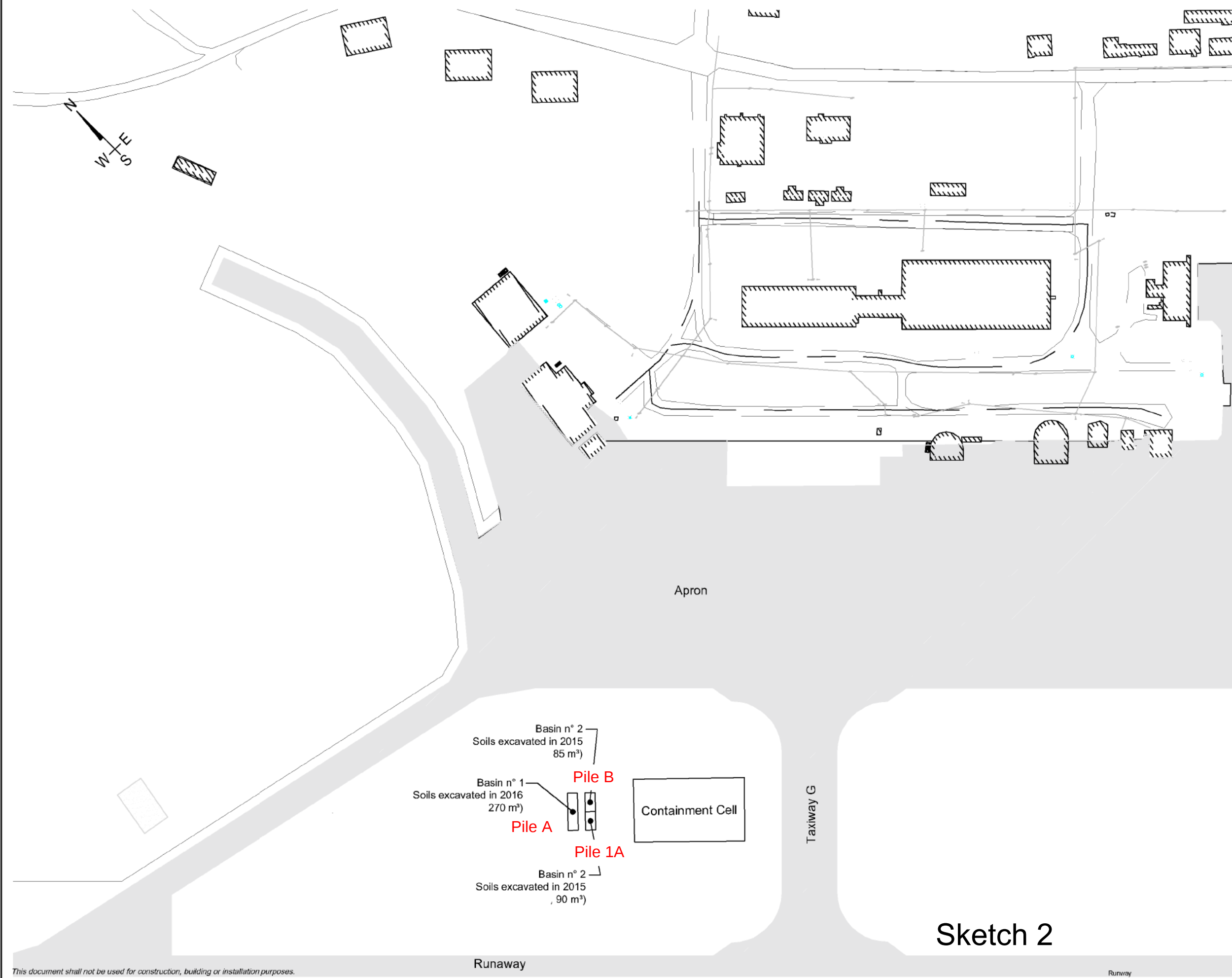




Sketch 2

C.O.C.: ---

REPORT No. B17-20144

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: 18-Jul-17

JOB/PROJECT NO.: QE16-190-2

DATE REPORTED: 25-Jul-17

P.O. NUMBER: 430001488

SAMPLE MATRIX: Soil

WATERWORKS NO.

			Client I.D.		PILE-A-1	PILE-A-2	PILE-A-3	PILE-A-4
			Sample I.D.		B17-20144-1	B17-20144-2	B17-20144-3	B17-20144-4
			Date Collected		13-Jul-17	13-Jul-17	13-Jul-17	13-Jul-17
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
% moisture	%	0.1		19-Jul-17/O	4.8	4.5	4.3	3.6
Benzene	µg/g	0.02	EPA 8260	19-Jul-17/O	< 0.02	< 0.02	< 0.02	< 0.02
Toluene	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	< 0.03	< 0.03
Ethylbenzene	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	< 0.03	< 0.03
Xylene, m,p-	µg/g	0.04	EPA 8260	19-Jul-17/O	< 0.04	< 0.04	< 0.04	< 0.04
Xylene, o-	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	< 0.03	< 0.03
Xylene, m,p,o-	µg/g	0.05	EPA 8260	19-Jul-17/O	< 0.05	< 0.05	< 0.05	< 0.05
Toluene-d8 (SS)	%	10	EPA 8260	19-Jul-17/O	98	98	96	97
Acenaphthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b+k)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.06	< 0.07	< 0.08	< 0.05
Benzo(g,h,i)perylene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3,-cd)pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene,1-	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene,2-	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene 2-(1-)	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.06	< 0.05
Naphthalene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	< 0.05	< 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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C.O.C.: ---

REPORT No. B17-20144

Report To:

Qikiqtaaluk Env. Inc.

9935, rue de Chateauneuf, 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: 18-Jul-17

JOB/PROJECT NO.: QE16-190-2

DATE REPORTED: 25-Jul-17

P.O. NUMBER: 430001488

SAMPLE MATRIX: Soil

WATERWORKS NO.

			Client I.D.		PILE-A-1	PILE-A-2	PILE-A-3	PILE-A-4
			Sample I.D.		B17-20144-1	B17-20144-2	B17-20144-3	B17-20144-4
			Date Collected		13-Jul-17	13-Jul-17	13-Jul-17	13-Jul-17
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	0.07	< 0.05
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	24-Jul-17/K	105	97.0	100	88

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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Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Jul-17

JOB/PROJECT NO.: QE16-190-2

DATE REPORTED: 25-Jul-17

P.O. NUMBER: 430001488

SAMPLE MATRIX: Soil

WATERWORKS NO.

			Client I.D.	PILE-A-5	DT1		
			Sample I.D.	B17-20144-5	B17-20144-6		
			Date Collected	13-Jul-17	13-Jul-17		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
% moisture	%	0.1		19-Jul-17/O	4.3	4.7	
Benzene	µg/g	0.02	EPA 8260	19-Jul-17/O	< 0.02	< 0.02	
Toluene	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	
Ethylbenzene	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	
Xylene, m,p-	µg/g	0.04	EPA 8260	19-Jul-17/O	< 0.04	< 0.04	
Xylene, o-	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	
Xylene, m,p,o-	µg/g	0.05	EPA 8260	19-Jul-17/O	< 0.05	< 0.05	
Toluene-d8 (SS)	%	10	EPA 8260	19-Jul-17/O	99	98	
Acenaphthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Acenaphthylene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Benzo(a)anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	0.05	< 0.05	
Benzo(a)pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Benzo(b)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Benzo(b+k)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.07	
Benzo(g,h,i)perylene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Benzo(k)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Chrysene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Dibenzo(a,h)anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Fluorene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Indeno(1,2,3,-cd)pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Methylnaphthalene,1-	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Methylnaphthalene,2-	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Methylnaphthalene 2-(1-)	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.07	< 0.05	
Naphthalene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Phenanthrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 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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C.O.C.: ---

REPORT No. B17-20144

Report To:

Qikiqtaaluk Env. Inc.

9935, rue de Chateauneuf, 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: 18-Jul-17

JOB/PROJECT NO.: QE16-190-2

DATE REPORTED: 25-Jul-17

P.O. NUMBER: 430001488

SAMPLE MATRIX: Soil

WATERWORKS NO.

			Client I.D.	PILE-A-5	DT1		
			Sample I.D.	B17-20144-5	B17-20144-6		
			Date Collected	13-Jul-17	13-Jul-17		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.05	< 0.05	
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	24-Jul-17/K	109	107	

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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C.O.C.: ---

REPORT No. B17-20148

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: 18-Jul-17

JOB/PROJECT NO.: QE16-190-2

DATE REPORTED: 24-Jul-17

P.O. NUMBER: 430001488

SAMPLE MATRIX: Soil

WATERWORKS NO.

			Client I.D.		PILE-B-1	PILE-B-2	PILE-B-3	DT2
			Sample I.D.		B17-20148-1	B17-20148-2	B17-20148-3	B17-20148-4
			Date Collected		12-Jul-17	12-Jul-17	12-Jul-17	12-Jul-17
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
% moisture	%	0.1		19-Jul-17/O	6.3	5.5	5.2	5.8
Benzene	µg/g	0.02	EPA 8260	19-Jul-17/O	< 0.02	< 0.02	< 0.02	< 0.02
Toluene	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	< 0.03	< 0.03
Ethylbenzene	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	< 0.03	< 0.03
Xylene, m,p-	µg/g	0.04	EPA 8260	19-Jul-17/O	< 0.04	< 0.04	< 0.04	< 0.04
Xylene, o-	µg/g	0.03	EPA 8260	19-Jul-17/O	< 0.03	< 0.03	< 0.03	< 0.03
Xylene, m,p,o-	µg/g	0.05	EPA 8260	19-Jul-17/O	< 0.05	< 0.05	< 0.05	< 0.05
Toluene-d8 (SS)	%	10	EPA 8260	19-Jul-17/O	98	99	97	99
Acenaphthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.09	< 0.08	< 0.08	< 0.08
Acenaphthylene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	0.144	< 0.1	< 0.1	0.141
Benzo(a)pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b+k)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(g,h,i)perylene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3,-cd)pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Methylnaphthalene,1-	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Methylnaphthalene,2-	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Methylnaphthalene 2-(1-)	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.2	< 0.2	< 0.2	< 0.2
Naphthalene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	µg/g	0.05	EPA 8270	24-Jul-17/K	< 0.1	< 0.1	< 0.1	< 0.1

NOTE: Elevated RL's for PAH's due to sample matrix interferences.



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

DATE RECEIVED: 18-Jul-17

JOB/PROJECT NO.: QE16-190-2

DATE REPORTED: 24-Jul-17

P.O. NUMBER: 430001488

SAMPLE MATRIX: Soil

WATERWORKS NO.

			Client I.D.		PILE-B-1	PILE-B-2	PILE-B-3	DT2
			Sample I.D.		B17-20148-1	B17-20148-2	B17-20148-3	B17-20148-4
			Date Collected		12-Jul-17	12-Jul-17	12-Jul-17	12-Jul-17
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Pyrene	µg/g	0.05	EPA 8270	24-Jul-17/K	0.144	< 0.1	< 0.1	0.226
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	24-Jul-17/K	90.0	85.0	74.0	76.0

NOTE: Elevated RL's for PAH's due to sample matrix interferences.



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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