

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 1120015 Client Project: 023-162 - Leicester

Report Date: 27-September-2021

Prepared for:

Cedwyn Morgan Hydro Environmental Technologies 54 Nonset Path Acton, MA 01720

> Richard Warila, Laboratory Director New England Testing Laboratory, Inc. 59 Greenhill Street West Warwick, RI 02893 rich.warila@newenglandtesting.com

NETLAB Case Number: 1I20015

Samples Submitted:

The samples listed below were submitted to New England Testing Laboratory on 09/20/21. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 1I20015. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
1I20015-01	105	Air	09/18/2021	09/20/2021
1I20015-02	106	Air	09/18/2021	09/20/2021
1I20015-03	107	Air	09/18/2021	09/20/2021
1I20015-04	108	Air	09/18/2021	09/20/2021
1I20015-05	109	Air	09/18/2021	09/20/2021
1I20015-06	205	Air	09/18/2021	09/20/2021
1I20015-07	Library	Air	09/18/2021	09/20/2021
1I20015-08	Cafeteria	Air	09/18/2021	09/20/2021
1I20015-09	104 Hallway	Air	09/18/2021	09/20/2021
1I20015-10	Gym	Air	09/18/2021	09/20/2021

NETLAB Case Number: 1I20015

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

104 Hallway (Lab Number: 1I20015-09)

Analysis Method

Air-phase Petroleum Hydrocarbons MADEP APH

105 (Lab Number: 1I20015-01)

Analysis Method
Air-phase Petroleum Hydrocarbons MADEP APH

106 (Lab Number: 1I20015-02)

Analysis Method

Air-phase Petroleum Hydrocarbons MADEP APH

107 (Lab Number: 1I20015-03)

Analysis Method

Air-phase Petroleum Hydrocarbons MADEP APH

108 (Lab Number: 1I20015-04)

Analysis Method

Air-phase Petroleum Hydrocarbons MADEP APH

109 (Lab Number: 1I20015-05)

AnalysisMethodAir-phase Petroleum HydrocarbonsMADEP APH

205 (Lab Number: 1I20015-06)

Analysis Method

Air-phase Petroleum Hydrocarbons MADEP APH

Cafeteria (Lab Number: 1I20015-08)

 Analysis
 Method

 Air-phase Petroleum Hydrocarbons
 MADEP APH

Gym (Lab Number: 1I20015-10)

Analysis Method

Air-phase Petroleum Hydrocarbons MADEP APH

Library (Lab Number: 1I20015-07)

Analysis Method

Air-phase Petroleum Hydrocarbons MADEP APH

Method References

Case Narrative

CASE NARRATIVE:

Sample Receipt:

The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

APH:

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control samples were within method specified quality control criteria.

Sample Canister Summary:

Sample ID: 105 Canister ID 0548

Flow Controller ID #6/8 Hours Flow Controller RPD <20% Yes

Collection Time 8 Hours

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -28"Hg
Final Field Vacuum -3.5"Hg
Final Laboratory Vacuum -5.0"Hg

Sample ID: 106

Canister ID 0050

Flow Controller ID #6/8 Hours
Flow Controller RPD <20% Yes
Collection Time 8 Hours 2 Minutes

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -28"Hg Final Field Vacuum -3"Hg

Final Laboratory Vacuum -4.4"Hg

Sample ID: 107

Canister ID 2340

Flow Controller ID #6/8 Hours Flow Controller RPD <20% Yes

Collection Time 8 Hours

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -28"Hg
Final Field Vacuum -5.5"Hg
Final Laboratory Vacuum -5.2"Hg

Canister ID 0055

Flow Controller ID #6/8 Hours

Flow Controller RPD < 20% Yes

Collection Time 7 Hours 50 Minutes

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -29"Hg

Final Field Vacuum -5.5"Hg

Final Laboratory Vacuum -5.6"Hg

Sample ID: 109

Canister ID 0946

Flow Controller ID #6/8 Hours

Flow Controller RPD < 20% Yes

Collection Time 8 Hours

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -30"Hg

Final Field Vacuum -4"Hg

Final Laboratory Vacuum -5.6"Hg

Sample ID: 205

Canister ID 4811

Flow Controller ID #6/8 Hours

Flow Controller RPD < 20% Yes

Collection Time 8 Hours

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -28"Hg

Final Field Vacuum -3.5"Hg

Final Laboratory Vacuum -4.7"Hg

Sample ID: Library

Canister ID 0030

Flow Controller ID #6/8 Hours

Flow Controller RPD < 20% Yes

Collection Time 8 Hours

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -30"Hg

Final Field Vacuum -7"Hg

Final Laboratory Vacuum -6.2"Hg

Sample ID: Cafeteria

Canister ID 8721

Flow Controller ID #6/8 Hours

Flow Controller RPD <20% Yes

Collection Time 8 Hours

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -28"Hg

Final Field Vacuum -7.5"Hg

Final Laboratory Vacuum -9.8"Hg

Sample ID: 104 Hallway

Canister ID 0013

Flow Controller ID #6/8 Hours

Flow Controller RPD < 20% Yes

Collection Time 8 Hours
Initial Laboratory Vacuum <-28"Hg
Initial Field Vacuum -28"Hg
Final Field Vacuum -5"Hg
Final Laboratory Vacuum -6.0"Hg

Sample ID: Gym Canister ID 9162

Flow Controller ID \$#6/8\$ Hours Flow Controller RPD $<\!\!20\%$ Yes

Collection Time 8 Hours

Initial Laboratory Vacuum <-28"Hg

Initial Field Vacuum -28"Hg
Final Field Vacuum -5"Hg
Final Laboratory Vacuum -5.5"Hg

Sample Type	Grab = -	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:	
Sample Container	Canister(s) si	ize: ■ 6L	Other					
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other			
Sampling Flow Meter	RPD of pre &	post-sampling calil	oration chec	k(s):	<u><</u> 20%	>20%		

APH ANALYTICAL RESULTS

			Client ID		105
Internal Standards:			Lab ID		1120015-01
Pentafluorobenzene		Dat	e Collected	09/18/21	
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received		09/20/21
Gridiosofizone do		Dat	te Analyzed		09/22/21
MS Tuning Standard:		Pre-sample vac	cuum (field)		-28 in. Hg
Bromofluorobenzene		Post-sample vac	cuum (field)		-3.5 in. Hg
		Lab Rece	ipt vacuum		-5.0 in. Hg
			tion Factor		1
Target APH Analytes & Hydrocarbon Ranges		ting Limit			le Results
<u> </u>	ug/m³	ppb v/v	ug/ı		ppb v/v
1,3-Butadiene	2.0	0.9	ND		ND
Methyl t-butyl ether (MTBE)	2.0	0.6	ND		ND
Benzene	2.0	0.6	ND		ND
Toluene	2.0	0.5	3.	5	0.9
Ethylbenzene	2.0	0.5	NI)	ND
m&p-Xylene	2.0	0.5	2	1	4.7
o-Xylene	2.0	0.5	6.4	4	1.5
Total xylenes	2.0	0.5	27	7	6.2
Naphthalene	0.63	0.1	NI)	ND
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	150	00	NA
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	140	00	NA
C9-C10 Aromatic Hydrocarbons	10.0	NA	25	5	NA

2: C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

No - Details Attached No - Details Attached Yes No Yes - Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature: Record Position: Laboratory Director

Date: 09/27/21 Printed Name: Richard Warila

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^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab = -	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:	
Sample Container	Canister(s) si	ize: ■ 6L	Other					
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other			
Sampling Flow Meter	RPD of pre &	post-sampling calil	oration chec	k(s):	<u><</u> 20%	>20%		

APH ANALYTICAL RESULTS

			Client ID	106	
Internal Standards:			Lab ID	1120015-02	
Pentafluorobenzene		Dat	e Collected	09/18/21	
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received	09/20/21	
Officiosefizefie-do		Dat	te Analyzed	09/22/21	
MS Tuning Standard:		Pre-sample vac	cuum (field)	-28 in. Hg	
Bromofluorobenzene		Post-sample vac	cuum (field)	-3 in. Hg	
		Lab Rece	ipt vacuum	-4.4 in. Hg	
		Dilu	tion Factor	1	
Target APH Analytes &		ing Limit		Sample Results	
Hydrocarbon Ranges	ug/m ³	ppb v/v	ug/r	m ³ ppb v/v	
1,3-Butadiene	2.0	0.9	NI	D ND	
Methyl t-butyl ether (MTBE)	2.0	0.6	N	D ND	
Benzene	2.0	0.6	N	D ND	
Toluene	2.0	0.5	N	D ND	
Ethylbenzene	2.0	0.5	N	D ND	
m&p-Xylene	2.0	0.5	N	D ND	
o-Xylene	2.0	0.5	N	D ND	
Total xylenes	2.0	0.5	N	D ND	
Naphthalene	0.63	0.1	N	D ND	
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	17	7 NA	
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	48	B NA	
C9-C10 Aromatic Hydrocarbons	10.0	NA	NI	D NA	

^{2:} C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed?
Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications made to the APH method, as specified in Sect 11.1.2

Yes No - Details Attached
Yes No - Details Attached
No Yes - Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 09/27/21

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^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:
Sample Container	Canister(s) s	size: 6L	Other				
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other		
Sampling Flow Meter	RPD of pre 8	RPD of pre & post-sampling calibration check(s): ■ ≤ 20%					

APH ANALYTICAL RESULTS

			Client ID		107	
Internal Standards:			Lab ID		1120015-03	
Pentafluorobenzene		Dat	e Collected	09/18/21		
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received		09/20/21	
Officioseff2effe-do		Dat	te Analyzed		09/22/21	
MS Tuning Standard:		Pre-sample vac	cuum (field)		-28 in. Hg	
Bromofluorobenzene		Post-sample vac	cuum (field)		-5.5 in. Hg	
		Lab Rece	ipt vacuum		-5.2 in. Hg	
		Dilu	tion Factor		1	
Target APH Analytes &		ing Limit			Results	
Hydrocarbon Ranges	ug/m³	ppb v/v	ug/r	m ³	ppb v/v	
1,3-Butadiene	2.0	0.9	ND		ND	
Methyl t-butyl ether (MTBE)	2.0	0.6	ND		ND	
Benzene	2.0	0.6	N)	ND	
Toluene	2.0	0.5	NI)	ND	
Ethylbenzene	2.0	0.5	2.0		0.5	
m&p-Xylene	2.0	0.5	11	ı	2.6	
o-Xylene	2.0	0.5	3.9	9	0.9	
Total xylenes	2.0	0.5	15	5	3.5	
Naphthalene	0.63	0.1	NI)	ND	
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	62	0	NA	
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	150	00	NA	
C9-C10 Aromatic Hydrocarbons	10.0	NA	20)	NA	

2: C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

3: C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

No - Details Attached No - Details Attached Yes No Yes - Details Attached

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Signature: Resident Position: Laboratory Director

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Sample Type	Grab	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:
Sample Container	Canister(s) s	size: 6L	Other				
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other		
Sampling Flow Meter	RPD of pre 8	RPD of pre & post-sampling calibration check(s): ■ ≤ 20%					

APH ANALYTICAL RESULTS

			Client ID	108		
Internal Standards:			Lab ID		1120015-04	
Pentafluorobenzene		Dat	e Collected	09/18/21 09/20/21		
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received			
Gilloropenizene do		Dat	te Analyzed		09/22/21	
MS Tuning Standard:		Pre-sample vac	cuum (field)		-29 in. Hg	
Bromofluorobenzene		Post-sample vac	cuum (field)		-5.5 in. Hg	
		Lab Rece	ipt vacuum		-5.6 in. Hg	
			tion Factor		1	
Target APH Analytes &		ing Limit			Results	
Hydrocarbon Ranges	ug/m³	ppb v/v	ug/	m ³	ppb v/v	
1,3-Butadiene	2.0	0.9	ND		ND	
Methyl t-butyl ether (MTBE)	2.0	0.6	ND		ND	
Benzene	2.0	0.6	ND		ND	
Toluene	2.0	0.5	5.	4	1.4	
Ethylbenzene	2.0	0.5	3.	2	0.7	
m&p-Xylene	2.0	0.5	10	6	3.6	
o-Xylene	2.0	0.5	5.	3	1.2	
Total xylenes	2.0	0.5	2	1	4.9	
Naphthalene	0.63	0.1	NI	D	ND	
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	140	00	NA	
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	170	00	NA	
C9-C10 Aromatic Hydrocarbons	10.0	NA	2:	2	NA	

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

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Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 09/27/21

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^{2:} C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab = -	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:	
Sample Container	Canister(s) si	ize: ■ 6L	Other					
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other			
Sampling Flow Meter	RPD of pre &	post-sampling calil	oration chec	k(s):	<u><</u> 20%	>20%		

APH ANALYTICAL RESULTS

			Client ID	109		
Internal Standards:			Lab ID		1120015-05	
Pentafluorobenzene		Dat	e Collected		09/18/21	
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received		09/20/21	
Chlorobenzene-do		Dat	te Analyzed		09/22/21	
MS Tuning Standard:		Pre-sample vac	cuum (field)		-30 in. Hg	
Bromofluorobenzene		Post-sample vac	cuum (field)		-4 in. Hg	
		Lab Rece	ipt vacuum		-5.6 in. Hg	
		Dilu	ution Factor		1	
Target APH Analytes &		ing Limit			Results	
Hydrocarbon Ranges	ug/m ³	ppb v/v	ug/i	m ³	ppb v/v	
1,3-Butadiene	2.0	0.9	ND		ND	
Methyl t-butyl ether (MTBE)	2.0	0.6	ND		ND	
Benzene	2.0	0.6	ND		ND	
Toluene	2.0	0.5	3.	8	1.0	
Ethylbenzene	2.0	0.5	NI	D	ND	
m&p-Xylene	2.0	0.5	4.	5	1.0	
o-Xylene	2.0	0.5	2.	3	0.5	
Total xylenes	2.0	0.5	6.	8	1.6	
Naphthalene	0.63	0.1	NI	D	ND	
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	67	0	NA	
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	66	0	NA	
C9-C10 Aromatic Hydrocarbons	10.0	NA	NI	 D	NA	

2: C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

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Signature: Resident Position: Laboratory Director

Date: 09/27/21 Printed Name: Richard Warila

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^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:
Sample Container	Canister(s) s	size: 6L	Other				
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other		
Sampling Flow Meter	RPD of pre 8	RPD of pre & post-sampling calibration check(s): ■ ≤ 20%					

APH ANALYTICAL RESULTS

			Client ID		205
Internal Standards:			Lab ID	1 20015-06	
Pentafluorobenzene		Dat	e Collected		09/18/21
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received		09/20/21
Gilloroberizerie-do		Dat	te Analyzed		09/23/21
MS Tuning Standard:		Pre-sample vac	cuum (field)		-28 in. Hg
Bromofluorobenzene		Post-sample vac	cuum (field)		-3.5 in. Hg
		Lab Rece	ipt vacuum		-4.7 in. Hg
		Dilu	ition Factor		1
Target APH Analytes &	Repoi	ting Limit		Sample	Results
Hydrocarbon Ranges	ug/m³	ppb v/v	ug/	m ³	ppb v/v
1,3-Butadiene	2.0	0.9	NI	D	ND
Methyl t-butyl ether (MTBE)	2.0	0.6	NI	D	ND
Benzene	2.0	0.6	NI	D	ND
Toluene	2.0	0.5	NI	D	ND
Ethylbenzene	2.0	0.5	NI	D	ND
m&p-Xylene	2.0	0.5	NI	D	ND
o-Xylene	2.0	0.5	NI	D	ND
Total xylenes	2.0	0.5	NI	D	ND
Naphthalene	0.63	0.1	NI	D	ND
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	NI	D	NA
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	NI	D	NA
C9-C10 Aromatic Hydrocarbons	10.0	NA	NI	D	NA

2: C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

No - Details Attached No - Details Attached Yes No Yes - Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature: Book Position: Laboratory Director

Printed Name: Richard Warila Date: 09/27/21

MADEP-APH-PCD-2008, rev 1

^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab = -	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:	
Sample Container	Canister(s) si	ize: ■ 6L	Other					
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other			
Sampling Flow Meter	RPD of pre &	post-sampling calil	oration chec	k(s):	<u><</u> 20%	>20%		

APH ANALYTICAL RESULTS

			Client ID		Library
Internal Standards:			Lab ID	1120015-07	
Pentafluorobenzene		Dat	te Collected		09/18/21
1,4 Difluorobenzene Chlorobenzene-d5		Da	te Received		09/20/21
Chloroperizerie-do		Da	te Analyzed		09/22/21
MS Tuning Standard:		Pre-sample va	cuum (field)		-30 in. Hg
Bromofluorobenzene		Post-sample va	cuum (field)		-7 in. Hg
		Lab Rece	ipt vacuum		-6.2 in. Hg
		Dilu	ution Factor		1
Target APH Analytes &	Repo	orting Limit			e Results
Hydrocarbon Ranges	ug/m ³	ppb v/v	ug/	m ³	ppb v/v
1,3-Butadiene	2.0	0.9	NI	D	ND
Methyl t-butyl ether (MTBE)	2.0	0.6	NI	D	ND
Benzene	2.0	0.6	NI	D	ND
Toluene	2.0	0.5	NI	D	ND
Ethylbenzene	2.0	0.5	NI	D	ND
m&p-Xylene	2.0	0.5	NI	D	ND
o-Xylene	2.0	0.5	NI	D	ND
Total xylenes	2.0	0.5	NI	D	ND
Naphthalene	0.63	0.1	NI	D	ND
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	NI	D	NA
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	13	0	NA
C9-C10 Aromatic Hydrocarbons	10.0	NA	NI	D	NA

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

No - Details Attached No - Details Attached Yes No Yes - Details Attached

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Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 09/27/21

MADEP-APH-PCD-2008, rev 1

^{2:} C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:
Sample Container	Canister(s) s	size: 6L	Other				
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other		
Sampling Flow Meter	RPD of pre 8	& post-sampling calib	oration checl	κ(s):	<u><</u> 20%	>20%	

APH ANALYTICAL RESULTS

				Client ID		Cafeteria
Internal Standards:				Lab ID	1120015-08	
Pentafluorobenzene			Dat	e Collected		09/18/21
1,4 Difluorobenzene Chlorobenzene-d5			Dat	e Received		09/20/21
Chioropenzene-do			Dat	te Analyzed		09/22/21
MS Tuning Standard:			Pre-sample vac	cuum (field)		-28 in. Hg
Bromofluorobenzene			Post-sample vac	cuum (field)		-7.5 in. Hg
			Lab Rece	ipt vacuum		-9.8 in. Hg
			Dilu	tion Factor		1
Target APH Analytes &			ng Limit			Results
Hydrocarbon Ranges	ug/m³		ppb v/v	ug/	m ³	ppb v/v
1,3-Butadiene	2.0		0.9	NI	D	ND
Methyl t-butyl ether (MTBE)	2.0		0.6	NI	D	ND
Benzene	2.0		0.6	NI	D	ND
Toluene	2.0		0.5	NI	D	ND
Ethylbenzene	2.0		0.5	NI	D	ND
m&p-Xylene	2.0		0.5	NI	D	ND
o-Xylene	2.0		0.5	NI	D	ND
Total xylenes	2.0		0.5	NI	D	ND
Naphthalene	0.63		0.1	NI	D	ND
C5-C8 Aliphatic Hydrocarbons 1,2	12.0		NA	NI	D	NA
C9-C12 Aliphatic Hydrocarbons 1,3	12.0		NA	1	7	NA
C9-C10 Aromatic Hydrocarbons	10.0		NA	N		NA

^{2:} C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed?
Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications made to the APH method, as specified in Sect 11.1.2

Yes No - Details Attached
Yes No - Details Attached
No Yes - Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 09/27/21

MADEP-APH-PCD-2008, rev 1

^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:
Sample Container	Canister(s) s	size: 6L	Other				
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other		
Sampling Flow Meter	RPD of pre 8	& post-sampling calib	oration checl	κ(s):	<u><</u> 20%	>20%	

APH ANALYTICAL RESULTS

			Client ID		104 Hallway
Internal Standards:			Lab ID	1120015-09	
Pentafluorobenzene		Dat	te Collected		09/18/21
1,4 Difluorobenzene Chlorobenzene-d5		Da	te Received		09/20/21
Chlorobenzene-do		Da	te Analyzed		09/23/21
MS Tuning Standard:		Pre-sample va	cuum (field)		-28 in. Hg
Bromofluorobenzene		Post-sample va	cuum (field)		-5 in. Hg
		Lab Rece	eipt vacuum		-6.0 in. Hg
		Dilu	ution Factor		1
Target APH Analytes &	Rep	orting Limit			Results
Hydrocarbon Ranges	ug/m ³	ppb v/v	ug/	m ³	ppb v/v
1,3-Butadiene	2.0	0.9	NI	D	ND
Methyl t-butyl ether (MTBE)	2.0	0.6	NI	D	ND
Benzene	2.0	0.6	NI	D	ND
Toluene	2.0	0.5	2.	2	0.6
Ethylbenzene	2.0	0.5	NI	D	ND
m&p-Xylene	2.0	0.5	NI	D	ND
o-Xylene	2.0	0.5	NI	D	ND
Total xylenes	2.0	0.5	NI	D	ND
Naphthalene	0.63	0.1	NI	D	ND
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	NI	D	NA
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	NI	D	NA
C9-C10 Aromatic Hydrocarbons	10.0	NA	NI	D	NA

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

No - Details Attached No - Details Attached Yes No Yes - Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 09/27/21

MADEP-APH-PCD-2008, rev 1

^{2:} C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Sample Type	Grab	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:
Sample Container	Canister(s) s	size: 6L	Other				
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other		
Sampling Flow Meter	RPD of pre 8	& post-sampling calib	oration checl	κ(s):	<u><</u> 20%	>20%	

APH ANALYTICAL RESULTS

			Client ID		Gym
Internal Standards:			Lab ID	1120015-10	
Pentafluorobenzene		Dat	e Collected		09/18/21
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received		09/20/21
Officioschizene-do		Dat	te Analyzed		09/23/21
MS Tuning Standard:		Pre-sample vac	cuum (field)		-28 in. Hg
Bromofluorobenzene		Post-sample vac	cuum (field)		-5 in. Hg
		Lab Rece	ipt vacuum		-5.5 in. Hg
			tion Factor		1
Target APH Analytes &		ing Limit			Results
Hydrocarbon Ranges	ug/m³	ppb v/v	ug/		ppb v/v
1,3-Butadiene	2.0	0.9	N	D	ND
Methyl t-butyl ether (MTBE)	2.0	0.6	N	D	ND
Benzene	2.0	0.6	N	D	ND
Toluene	2.0	0.5	3.	2	0.8
Ethylbenzene	2.0	0.5	N	D	ND
m&p-Xylene	2.0	0.5	N	D	ND
o-Xylene	2.0	0.5	N	D	ND
Total xylenes	2.0	0.5	N	D	ND
Naphthalene	0.63	0.1	N	D	ND
C5-C8 Aliphatic Hydrocarbons 1,2	12.0	NA	N	D	NA
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	N	D	NA
C9-C10 Aromatic Hydrocarbons	10.0	NA	N	D	NA

2: C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

3: C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

No - Details Attached No - Details Attached Yes No Yes - Details Attached

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Richard Warila Date: 09/27/21

MADEP-APH-PCD-2008, rev 1

Quality Control

Air-Phase Petroleum Hydrocarbons (MADEP-APH)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B1I0981 - MADEP-API	H-Preparation									
Blank (B1I0981-BLK1)					Prepared 8	& Analyzed: 0	9/22/21			
1,3-Butadiene	ND		0.9	ppb (v/v)						
Methyl t-butyl ether (MTBE)	ND		0.6	ppb (v/v)						
Benzene	ND		0.6	ppb (v/v)						
Toluene	ND		0.5	ppb (v/v)						
Ethylbenzene	ND		0.5	ppb (v/v)						
m&p-Xylene	ND		0.5	ppb (v/v)						
o-Xylene	ND		0.5	ppb (v/v)						
Total xylenes	ND		0.5	ppb (v/v)						
Naphthalene	ND		0.1	ppb (v/v)						
C5-C8 Aliphatic Hydrocarbons	ND		12.0	ppb (v/v)						
C9-C12 Aliphatic Hydrocarbons	ND		12.0	ppb (v/v)						
C9-C10 Aromatic Hydrocarbons	ND		10.0	ppb (v/v)						
LCS (B1I0981-BS1)					Prepared 8	& Analyzed: 0	9/22/21			
1,3-Butadiene	13.6			ppb (v/v)	13.2		103	70-130		
Methyl t-butyl ether (MTBE)	13.3			ppb (v/v)	13.2		101	70-130		
Benzene	11.6			ppb (v/v)	13.2		87.6	70-130		
Toluene	11.1			ppb (v/v)	13.2		84.2	70-130		
Ethylbenzene	11.5			ppb (v/v)	13.2		87.0	70-130		
m&p-Xylene	26.7			ppb (v/v)	26.4		101	70-130		
o-Xylene	12.4			ppb (v/v)	13.2		94.2	70-130		
Naphthalene	13.5			ppb (v/v)	13.2		102	50-150		

Notes and Definitions

<u>Item</u>	<u>Definition</u>
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

CHAIN OF CUSTODY RECORD

NEW ENGLAND TESTING LABORATORY, INC. (459 Greenhill Street

West Warwick, RI 02893

REMARKS 0000 the 001346 8721#6 4811 柱6 0548#6 0050 #6 1340 #C 0055 HG 7260 σ α m α m α > < \vdash CONTAINERS • • Š P о⊢тш∉ დ0-⊐ ∢α⊃шо⊃ю したこのいわなのしかんかなしなり 104 HALLONA SAMPLE LD. CAFETERIA LIBRARY とといろとく 00 2005 100 PROJECT NAME/LOCATION 901 101 705 യെ∀യ CLIENT +CT ೧೦≥೯ 16 19 PROJ. NO. PF 1640 1646 9/1861 1630 काव (6% 1634 1291 1191 TIME INVOICE TO: DATE

*	Special Instructions: List Specific Detection Limit Requirements:		Turnaround (Business Days)	TOP.
	ı			7
	Laboratory Remarks: X Femp. received: Cooled □			POST TO Schmody O'llowed Shamped State Columnator O'l ETDI
	9/rg/2 1845 Femp. received:	Pare/Time	Note 1450	Civia Oromido Civia
	S. S) \	100
	pate/Time Received by (Signature) 43	Secured 9/20/11/11/2 100 WW	9.30 M 1460 MMM MMM	Sold of the Associated
	Sampled by (Signature)	Reinquistach (Bignature)	Relinquisped by (Signature)	

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Leicester Elementary Sapt (6) Air Sampling Event August 5-6, 2021

ir Sampling Event A ugust ما مار کارد د	Augusta-o, 2021		SEPT 18	SEPT 19	
		W	Time Onen	Time Close	Final Vacuum
Regulator ID	Location	Initial Vacuum		-	n
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MassDEP Analytical Protocol Certification Form										
Labo										
Project Location: Leicester, MA RTN:										
This Form provides certifications for the following data set: list Laboratory Sample ID Number(s): 1I20015										
Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☒ Air ☐ Other:										
CAM Protocol (check all that apply below):										
8260 VOC CAM II A □		7470/7471 Hg CAM III B □	MassDEP VPH (GC/PID/FID) CAM IV A □	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A □	6860 Perchlorate CAM VIII B				
8270 SVOC CAM II B □		7010 Metals CAM III C □	MassDEP VPH (GC/MS) CAM IV C □	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A ⊠				
	Metals III A □	6020 Metals CAM III D □	MassDEP EPH CAM IV B □	8151 Herbicides CAM V C □	8330 Explosives CAM VIII A □	TO-15 VOC CAM IX B □				
Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status										
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? ☑ Yes ☐ No									
В	Were the CAM pro	d ⊠ Yes □ No								
С	Were all CAM pro	d ⊠ Yes □ No								
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? ☑ Yes ☐ N									
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? □ Yes □									
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? ☑ Yes □ No									
Responses to Questions G, H and I below are required for "Presumptive Certainty" status										
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? ☑ Yes ☐ No¹									
<u>Data User Note</u> : Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.										
Н	Were all QC performance standards specified in the CAM protocol(s) achieved?					☑ Yes ☐ No ¹				
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?									
¹ All negative responses must be addressed in an attached laboratory narrative.										
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.										
Signature: Position: Laboratory Director										
Print	ed Name	Richard Warila		— Date: 9	9/27/2021					

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