

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

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South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-46497-1

TestAmerica Sample Delivery Group: 200-46497

Client Project/Site: Grafton

For:


Green Earth Environmental, Inc

dba The Verterre Group

77 Vermont Ave

Colchester, Vermont 05446

Attn: Martha Roy



Authorized for release by:

12/20/2018 8:19:33 AM

James Madison, Senior Project Manager

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Job ID: 200-46497-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: Green Earth Environmental, Inc

Project: Grafton

Report Number: 200-46497-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/04/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 8.8 C.

PERFLUORINATED HYDROCARBONS

Samples LIBRARY, TOWN HALL and TOWN GARAGE were analyzed for Perfluorinated Hydrocarbons in accordance with TAL SOP WS-LC-0025. The samples were prepared on 12/12/2018 and analyzed on 12/13/2018.

M2-6:2 FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for blank spike LCS 200-138086/2-A and method blank MB 200-138086/1-A. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Client Sample ID: LIBRARY

Lab Sample ID: 200-46497-1

No Detections.

Client Sample ID: TOWN HALL

Lab Sample ID: 200-46497-2

No Detections.

Client Sample ID: TOWN GARAGE

Lab Sample ID: 200-46497-3

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Client Sample ID: LIBRARY

Date Collected: 12/04/18 10:22

Date Received: 12/04/18 14:20

Lab Sample ID: 200-46497-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorooctanoic acid (PFOA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorononanoic acid (PFNA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorodecanoic acid (PFDA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	109		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C4 PFHpA	82		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C4 PFOA	98		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C4 PFOS	114		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C5 PFNA	104		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C2 PFHxA	92		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C2 PFDA	101		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C2 PFUnA	97		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C2 PFDoA	92		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C2 PFTeDA	89		25 - 150				12/12/18 11:30	12/13/18 20:35	1
13C3 PFBS	111		25 - 150				12/12/18 11:30	12/13/18 20:35	1

Client Sample Results

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Client Sample ID: TOWN HALL

Lab Sample ID: 200-46497-2

Date Collected: 12/04/18 10:02

Matrix: Water

Date Received: 12/04/18 14:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorooctanoic acid (PFOA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorononanoic acid (PFNA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorodecanoic acid (PFDA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	1.7	ng/L		12/12/18 11:30	12/13/18 20:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	97		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C4 PFHpA	80		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C4 PFOA	97		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C4 PFOS	102		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C5 PFNA	103		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C2 PFHxA	86		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C2 PFDA	94		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C2 PFUnA	91		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C2 PFDoA	81		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C2 PFTeDA	82		25 - 150				12/12/18 11:30	12/13/18 20:51	1
13C3 PFBS	105		25 - 150				12/12/18 11:30	12/13/18 20:51	1

Client Sample Results

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Client Sample ID: TOWN GARAGE

Lab Sample ID: 200-46497-3

Date Collected: 12/04/18 11:04

Matrix: Water

Date Received: 12/04/18 14:20

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorooctanoic acid (PFOA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorononanoic acid (PFNA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorodecanoic acid (PFDA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	1.8	ng/L		12/12/18 11:30	12/13/18 21:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C4 PFHpA	78		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C4 PFOA	98		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C4 PFOS	107		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C5 PFNA	104		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C2 PFHxA	81		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C2 PFDA	99		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C2 PFUnA	104		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C2 PFDoA	101		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C2 PFTeDA	95		25 - 150				12/12/18 11:30	12/13/18 21:07	1
13C3 PFBS	101		25 - 150				12/12/18 11:30	12/13/18 21:07	1

Isotope Dilution Summary

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFHxS (25-150)	PFHpA (25-150)	PFOA (25-150)	PFOS (25-150)	PFNA (25-150)	PFHxA (25-150)	PFDA (25-150)	PFUnA (25-150)
200-46497-1	LIBRARY	109	82	98	114	104	92	101	97
200-46497-2	TOWN HALL	97	80	97	102	103	86	94	91
200-46497-3	TOWN GARAGE	108	78	98	107	104	81	99	104
LCS 200-138086/2-A	Lab Control Sample	88	75	99	98	93	95	94	95
MB 200-138086/1-A	Method Blank	85	77	97	99	92	93	97	95

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	3C3-PFB: (25-150)
200-46497-1	LIBRARY	92	89	111
200-46497-2	TOWN HALL	81	82	105
200-46497-3	TOWN GARAGE	101	95	101
LCS 200-138086/2-A	Lab Control Sample	92	83	92
MB 200-138086/1-A	Method Blank	88	81	101

Surrogate Legend

PFHxS = 18O2 PFHxS
PFHpA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
13C3-PFBS = 13C3 PFBS

QC Sample Results

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-138086/1-A
Matrix: Water
Analysis Batch: 138111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorooctanoic acid (PFOA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorononanoic acid (PFNA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorodecanoic acid (PFDA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	2.0	ng/L		12/12/18 11:30	12/13/18 20:03	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	85		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C4 PFHpA	77		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C4 PFOA	97		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C4 PFOS	99		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C5 PFNA	92		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C2 PFHxA	93		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C2 PFDA	97		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C2 PFUnA	95		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C2 PFDoA	88		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C2 PFTeDA	81		25 - 150	12/12/18 11:30	12/13/18 20:03	1
13C3 PFBS	101		25 - 150	12/12/18 11:30	12/13/18 20:03	1

Lab Sample ID: LCS 200-138086/2-A
Matrix: Water
Analysis Batch: 138111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanoic acid (PFHpA)	40.0	44.0		ng/L		110	50 - 150
Perfluorooctanoic acid (PFOA)	40.0	40.2		ng/L		100	50 - 150
Perfluorononanoic acid (PFNA)	40.0	34.1		ng/L		85	50 - 150
Perfluorobutanesulfonic acid (PFBS)	35.4	29.3		ng/L		83	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	36.4	26.6		ng/L		73	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	38.4		ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	36.3		ng/L		91	50 - 150
Perfluoroundecanoic acid (PFUnA)	40.0	42.5		ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	38.2		ng/L		96	50 - 150
Perfluorododecanoic acid (PFDoA)	40.0	40.5		ng/L		101	50 - 150
Perfluorotridecanoic acid (PFTriA)	40.0	42.7		ng/L		107	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	36.3		ng/L		91	50 - 150

TestAmerica Burlington

QC Sample Results

Client: Green Earth Environmental, Inc
 Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
 SDG: 200-46497

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>18O2 PFHxS</i>	88		25 - 150
<i>13C4 PFHpA</i>	75		25 - 150
<i>13C4 PFOA</i>	99		25 - 150
<i>13C4 PFOS</i>	98		25 - 150
<i>13C5 PFNA</i>	93		25 - 150
<i>13C2 PFHxA</i>	95		25 - 150
<i>13C2 PFDA</i>	94		25 - 150
<i>13C2 PFUnA</i>	95		25 - 150
<i>13C2 PFDoA</i>	92		25 - 150
<i>13C2 PFTeDA</i>	83		25 - 150
<i>13C3 PFBS</i>	92		25 - 150

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QC Association Summary

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

LCMS

Prep Batch: 138086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-46497-1	LIBRARY	Total/NA	Water	3535	
200-46497-2	TOWN HALL	Total/NA	Water	3535	
200-46497-3	TOWN GARAGE	Total/NA	Water	3535	
MB 200-138086/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-138086/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 138111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-46497-1	LIBRARY	Total/NA	Water	537 (modified)	138086
200-46497-2	TOWN HALL	Total/NA	Water	537 (modified)	138086
200-46497-3	TOWN GARAGE	Total/NA	Water	537 (modified)	138086
MB 200-138086/1-A	Method Blank	Total/NA	Water	537 (modified)	138086
LCS 200-138086/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	138086

Lab Chronicle

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Client Sample ID: LIBRARY

Date Collected: 12/04/18 10:22

Date Received: 12/04/18 14:20

Lab Sample ID: 200-46497-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			138086	12/12/18 11:30	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	138111	12/13/18 20:35	BWC	TAL BUR

Client Sample ID: TOWN HALL

Date Collected: 12/04/18 10:02

Date Received: 12/04/18 14:20

Lab Sample ID: 200-46497-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			138086	12/12/18 11:30	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	138111	12/13/18 20:51	BWC	TAL BUR

Client Sample ID: TOWN GARAGE

Date Collected: 12/04/18 11:04

Date Received: 12/04/18 14:20

Lab Sample ID: 200-46497-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			138086	12/12/18 11:30	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	138111	12/13/18 21:07	BWC	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-19
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18 *
New Hampshire	NELAP	1	2006	12-18-18 *
New Jersey	NELAP	2	VT972	06-30-19
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-19
Rhode Island	State Program	1	LAO00298	12-30-18 *
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18 *
Virginia	NELAP	3	460209	12-14-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Burlington

Method Summary

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Sample Summary

Client: Green Earth Environmental, Inc
Project/Site: Grafton

TestAmerica Job ID: 200-46497-1
SDG: 200-46497

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-46497-1	LIBRARY	Water	12/04/18 10:22	12/04/18 14:20
200-46497-2	TOWN HALL	Water	12/04/18 10:02	12/04/18 14:20
200-46497-3	TOWN GARAGE	Water	12/04/18 11:04	12/04/18 14:20

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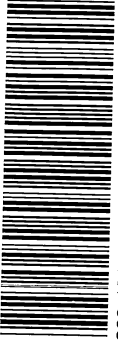
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TestAmerica Burlington
 30 Community Drive
 Suite 11

South Burlington, VT 05403-6809
 phone 802.660.1990 fax 802.660.1919

Chain of Custody Record



200-48497 Chain of Custody



Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact Your Company Name here: <u>The Verence Garage</u> Address: <u>77 Vermont Ave</u> City/State/Zip: <u>Colchester VT</u> (xxx) xxx-xxxx Phone: <u>802.654.8063</u> (xxx) xxx-xxxx FAX: Project Name: <u>Gratton</u> Site: <u>1802a</u> P O #		Project Manager: <u>Maura Kelly</u> Lab Contact:		Date: _____ of _____ COCs Carrier:	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____		Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Sample Identification <u>Library/Hall</u> <u>Town/Hall</u> <u>Town Garage</u>		Sample Date <u>12/18/18</u> <u>1002</u> <u>1104</u>	Sample Type (C=Comp, G=Grab) <u>C</u> <u>C</u> <u>C</u>	Matrix <u>W</u> <u>W</u> <u>W</u>	# of Cont. <u>2</u> <u>2</u> <u>2</u>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other					
Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					
Special Instructions/QC Requirements & Comments:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by: <u>Maura Kelly</u>		Relinquished by: <u>Verence</u>		Therm ID No.: _____ Date/Time: _____	
Relinquished by: <u>Maura Kelly</u>		Relinquished by: _____		Date/Time: _____ Date/Time: _____	
Relinquished by: _____		Relinquished by: _____		Date/Time: <u>12/18/18</u> Date/Time: <u>1920</u>	



Login Sample Receipt Checklist

Client: Green Earth Environmental, Inc

Job Number: 200-46497-1

SDG Number: 200-46497

Login Number: 46497

List Number: 1

Creator: McNabb, Robert W

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	8.8°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.