nobis

November 7, 2018
File No. 76400.04

Mr. Kenneth Richardson
9 Bunny Lane
Allenstown, NH 03275

Re: Water Quality Sampling Results – September 2018
Allenstown Landfill
Allenstown, New Hampshire
NHDES No. 199012032

Dear Mr. Richardson:

On September 26, 2018, a Nobis Group® representative collected water samples from the drinking water supply that serves the residence identified as town of Allenstown Tax Map 106, Lot 6. The sample was taken from the kitchen sink faucet of the house. Water samples were used to evaluate the water quality in the vicinity of the Allenstown Landfill. The New Hampshire Department of Environmental Services (NHDES) has required assessment of possible impacts to groundwater associated with per- and polyfluoroalkyl substances (PFAS).

The water samples were delivered to Eastern Analytical, Inc. (EAI) of Concord, New Hampshire under proper chain-of-custody procedures. EAI subcontracted Vista Analytical Laboratory of El Dorado Hills, California who analyzed the sample on October 13, 2018, for the presence of nine PFAS compounds in accordance with U.S. Environmental Protection Agency Method 537 Modified. The analysis indicated PFAS compounds were **not** present in the sample at a concentration above laboratory method detection limits or the applicable NHDES Ambient Groundwater Quality Standard (AGQS).

The results of these analyses have been forwarded to the NHDES project manager, who can be reached at 603-271-2909. We note that this test is for PFAS only, and therefore, it is just one measure used to evaluate the quality of your water supply.

Nobis Group®
18 Chenell Drive
Concord, NH 03301
T (603) 224-4182

Thank you for your cooperation. If you have questions regarding the results, or require additional information, please contact the undersigned.

Sincerely,
NOBIS GROUP®

Mark R. Henderson, P.G.
Senior Project Manager

cc: Mr. James W. O'Rourke, NHDES
✓ Mr. Derik Goodine, Town of Allenstown

Eastern Analytical, Inc.
professional laboratory and drilling services

Mark Henderson
Nobis Group
18 Chenell Drive
Concord , NH 03301

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	187093
Client Identification:	Allenstown Landfill | 76400.00
Date Received:	9/26/2018

Dear Mr. Henderson :

Enclosed please find the report of analysis for the above identified project.
As discussed, analyses were subcontracted and are listed as follows:

Analysis:	Subcontract - Perfluorinated Compounds EPA 537 (9 Compounds) Vista
Subcontractor Lab:	Vista Analytical Laboratory

A complete copy of the report is attached. This report may not be reproduced except in full, without the written approval of the laboratory.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw — 10.18.18 — 19

Lorraine Olashaw, Lab Director | Date | # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **187093**

Client: **Nobis Group**

Client Designation: **Allenstown Landfill | 76400.00**

Temperature upon receipt (°C): 6.5 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
187093.01	MAP 106 LOT 6	9/26/18	9/26/18	aqueous		Adheres to Sample Acceptance Policy
187093.02	TRIP BLANK	9/26/18	9/26/18	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983

2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.

3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB

4) Hach Water Analysis Handbook, 4th edition, 1992

October 16, 2018

Vista Work Order No. 1803205

Ms. Jennifer Laramie
Eastern Analytical, Inc.
25 Chennell Drive
Concord, NH 03301

Dear Ms. Laramie,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 02, 2018 under your Project Name '187093 NH 30'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1803205
Case Narrative

Sample Condition on Receipt:

Two aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The client was notified of the COC discrepancy.

Analytical Notes:

PFAS Isotope Dilution Method

The samples were extracted and analyzed for a selected list of PFAS using the PFAS Isotope Dilution Method (Modified EPA Method 537). The results for PFHxS, PFOA, and PFOS include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

Table of Contents

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1803205-01	MAP 106 LOT 6	26-Sep-18 10:15	02-Oct-18 09:35	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL
1803205-02	TRIP BLANK	26-Sep-18 09:00	02-Oct-18 09:35	HDPE Bottle, 125 mL
				HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Vista Analytical Laboratory

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: Eastern Analytical, Inc.
Project: 187093 NH 30
Matrix: Aqueous

Laboratory Data

Lab Sample: B8J0040-BLK1
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFPeA	2706-90-3	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFBS	375-73-5	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFHxA	307-24-4	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFHpA	375-85-9	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFHxS	355-46-4	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFOA	335-67-1	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFNA	375-95-1	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
PFOS	1763-23-1	ND	4.00		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.1	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
13C3-PFPeA	IS	96.5	60 - 150		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
13C3-PFBS	IS	101	60 - 150		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
13C2-PFHxA	IS	95.8	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
13C4-PFHpA	IS	96.8	60 - 150		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
18O2-PFHxS	IS	101	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
13C2-PFOA	IS	103	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
13C5-PFNA	IS	95.7	50 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1
13C8-PFOS	IS	98.8	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:04	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data

Name: Eastern Analytical, Inc.
Project: 187093 NH 30
Matrix: Aqueous

Laboratory Data

Lab Sample: B8J0040-BS1
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	40.0	40.0	99.9	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFPeA	2706-90-3	40.5	40.0	101	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFBS	375-73-5	38.8	40.0	97.1	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFHxA	307-24-4	42.9	40.0	107	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFHpA	375-85-9	39.9	40.0	99.7	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFHxS	355-46-4	42.0	40.0	105	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFOA	335-67-1	40.9	40.0	102	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFNA	375-95-1	40.8	40.0	102	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
PFOS	1763-23-1	41.2	40.0	103	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.0	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
13C3-PFPeA	IS	90.5	60 - 150		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
13C3-PFBS	IS	103	60 - 150		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
13C2-PFHxA	IS	91.5	70 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
13C4-PFHpA	IS	95.9	60 - 150		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
18O2-PFHxS	IS	99.2	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
13C2-PFOA	IS	100	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
13C5-PFNA	IS	94.1	50 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1
13C8-PFOS	IS	95.7	60 - 130		B8J0040	08-Oct-18	0.250 L	13-Oct-18 03:14	1

Sample ID: MAP 106 LOT 6

PFAS Isotope Dilution Method

Client Data

Name: Eastern Analytical, Inc.
Project: 187093 NH 30
Matrix: Aqueous
Date Collected: 26-Sep-18 10:15

Laboratory Data

Lab Sample: 1803205-01
Date Received: 02-Oct-18 09:35
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFPeA	2706-90-3	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFBS	375-73-5	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFHxA	307-24-4	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFHpA	375-85-9	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFHxS	355-46-4	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFOA	335-67-1	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFNA	375-95-1	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
PFOS	1763-23-1	ND	4.05		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.0	60 - 130		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
13C3-PFPeA	IS	97.4	60 - 150		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
13C3-PFBS	IS	109	60 - 150		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
13C2-PFHxA	IS	95.0	70 - 130		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
13C4-PFHpA	IS	88.7	60 - 150		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
18O2-PFHxS	IS	102	60 - 130		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
13C2-PFOA	IS	95.6	60 - 130		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
13C5-PFNA	IS	95.8	50 - 130		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1
13C8-PFOS	IS	93.7	60 - 130		B8J0040	08-Oct-18	0.123 L	13-Oct-18 05:22	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: TRIP BLANK

PFAS Isotope Dilution Method

Client Data

Name: Eastern Analytical, Inc.
Project: 187093 NH 30
Matrix: Aqueous
Date Collected: 26-Sep-18 09:00

Laboratory Data

Lab Sample: 1803205-02
Date Received: 02-Oct-18 09:35
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFPeA	2706-90-3	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFBS	375-73-5	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFHxA	307-24-4	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFHpA	375-85-9	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFHxS	355-46-4	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFOA	335-67-1	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFNA	375-95-1	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
PFOS	1763-23-1	ND	4.00		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	99.5	60 - 130		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
13C3-PFPeA	IS	102	60 - 150		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
13C3-PFBS	IS	102	60 - 150		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
13C2-PFHxA	IS	97.8	70 - 130		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
13C4-PFHpA	IS	89.4	60 - 150		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
18O2-PFHxS	IS	112	60 - 130		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
13C2-PFOA	IS	97.2	60 - 130		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
13C5-PFNA	IS	87.7	50 - 130		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1
13C8-PFOS	IS	103	60 - 130		B8J0040	08-Oct-18	0.127 L	13-Oct-18 05:32	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limits of Detection
LOQ	Limits of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
Q	Ion ratio outside of 70-130% of Standard Ratio. (DOD PFAS projects only)
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	18-008-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-009
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-18-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	**Method**
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23

MATRIX: Biological Tissue	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	**Method**
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

MATRIX: Non-Potable Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

CHAIN-OF-CUSTODY RECORD

Eastern Analytical, Inc.
professional laboratory and drilling services

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EAI ID# 187093 1803205 Page 1

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MAP 106 LOT 6	9/26/2018 10:15	aqueous	Subcontract- Perfluorinated Compounds EPA Method 537 (9 Compounds)	0.2°C
TRIP BLANK	9/26/2018 9:00	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537 (9 Compounds)	

EAI ID# 187093 Project State: NH
Project ID: 30

Company Vista Analytical Laboratory
Address 1104 Windfield Way
Address El Dorado Hills, CA 95762
Account #
Phone # (916) 673-1520

Results Needed: Preferred Date: Standard
RUSH Due Date: _____

QC Deliverables
☒ A ☐ A+ ☐ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:
Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PO #: 48855 EAI ID# 187093

Data Deliverable (circle)
Excel NH EMD EQuIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: _____

Relinquished by	Date/Time	Received by
	10/1/18 1500	
UPS	10/2/18 1004	

customerservice@easternanalytical.com.

acts or omissions of you as a subcontract lab, your officers, agents or employees

Vista Analytical Laboratory

Sample Log In Checklist

PAGE # 1 of 2
WO# 1803205
SDG# —
TAT Std

Section 1: Container Receipt

Delivered By: ☐ FedEx ☑ UPS ☐ On Trac ☐ GSO ☐ DHL ☐ Hand Delivered ☐ Other:

Number of Containers	Arrival Date	Arrival time	Cooler Received LR-SLC Initiated By/Date
1 of 2	10/2/18	0935	BB 10/2/18

Section 2: Sample Receipt Condition and Initial Storage

Container Condition	Chain of Custody	Preservation Type	Temperature	Storage Location	Initials/ Date
☑ Shipping container intact ☑ Shipping seals intact ☐ Custody Seals present ☐ Custody seals intact	☑ COC present ☑ Multiple COC's: ☑ "Relinquished By" Section complete	☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ Other	Thermometer ID: IR-4 ☐ Probe used Temp (uncorrected): 1.4 °C Temp (corrected): 1.3 °C	☑ WR2 ☐ WF2 ☐ NA	BB 10/2/18

Section 3: Sample Log In

Airbill/Trk.# 1Z X46 599 01 9546 1613

	By/date
Shipping container ☐ Vista ☒ Client ☐ Retain ☒ Return ☐ Dispose	
Log In Time: 0825	KE 10/3/18
COC clearly identifies: • Sample name • Sample matrix • Test method • Sample collection date or time • Collector's name * • Preservation type * not on COC	☑ Acceptable ☑ Not acceptable – anomaly form required WLS 10/03/18 KE 10/3/18
All samples present and accounted for on COC	KE 10/3/18
Sample IDs are legible	KE 10/3/18
Samples conform to the description on the COC	KE 10/3/18
Samples are intact and suitable for testing	KE 10/3/18
Preservation documented as required: ☐NA ☐ $Na_2S_2O_3$ ☐ Trizma ☑Other None noted	KE 10/3/18
Samples stored ☑WR2 Shelf:_____ ☐WF2 Shelf:_____ ☐R1 Shelf:_____	KE 10/3/18

Comments:

ONLY SAMPLES COC'S WERE IN THIS COOLER.

ID.: LR – SLC Rev No.: 2 Rev Date: 08/29/18 Page: 1 of 1

Vista Analytical Laboratory

Sample Log In Checklist

PAGE # 2 of 2
WO# 1803205
SDG# —
TAT std

Section 1: Container Receipt

Delivered By: ☐ FedEx ☒ UPS ☐ On Trac ☐ GSO ☐ DHL ☐ Hand Delivered ☐ Other:

Number of Containers	Arrival Date	Arrival time	Cooler Received LR-SLC Initiated By/Date
2 of 2	10/2/18	0935	BLB 10/2/18

Section 2: Sample Receipt Condition and Initial Storage

Container Condition	Chain of Custody	Preservation Type	Temperature	Storage Location	Initials/ Date
☒ Shipping container intact ☒ Shipping seals intact ☐ Custody Seals present ☐ Custody seals intact	☐ COC present ☐ Multiple COC's: NO ☐ "Relinquished By" Section complete	☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ Other	Thermometer ID: IR-4 ☐ Probe used Temp (uncorrected): 0.3 °C Temp (corrected): 0.2 °C	☒ WR2 ☐ WF2 ☐ NA	BLB 10/2/18

Section 3: Sample Log In

Airbill/Trk # 1Z X46 599 01 9584 2005

	By/date
Shipping container ☐ Vista ☒ Client ☐ Retain ☒ Return ☐ Dispose	
Log In Time: 0825	KE 10/3/18
COC clearly identifies: • Sample name • Sample matrix • Test method • Sample collection date or time • Collector's name * • Preservation type * * not on COC	☒ Acceptable ☐ Not acceptable – anomaly form required KE 10/3/18
All samples present and accounted for on COC	KE 10/3/18
Sample IDs are legible	KE 10/3/18
Samples conform to the description on the COC	KE 10/3/18
Samples are intact and suitable for testing	KE 10/3/18
Preservation documented as required: ☐ NA ☐ $Na_2S_2O_3$ ☐ Trizma ☒ Other NONE NOTED	KE 10/3/18
Samples stored ☒ WR2 Shelf: A3/B6 ☐ WF2 Shelf: ☐ R1 Shelf:	KE 10/3/18

Comments: ALL SAMPLES WERE IN THIS COOLER

ID.: LR – SLC Rev No.: 2 Rev Date: 08/29/18 Page: 1 of 1

Chain of Custody Anomaly/Sample Acceptance Form

Vista Analytical Laboratory

Client:	Eastern Analytical, Inc.	Workorder Number:	1803205
Contact:	Jennifer Laramie	Date Received:	02-Oct-18 09:35
Email:	JenniferL@eailabs.com	Documented by/date:	K. Elric 10/03/18
Phone:	(603) 410-3881		

Please review the following information and complete the Client Authorization section. To comply with NELAC regulations, we must receive authorization before proceeding with sample analysis.

Thank you,

Martha Maier
mmaier@vista-analytical.com
916-673-1520

The following information or item is needed to proceed with analysis:

- [ ] Complete Chain-of-Custody
- [ ] Test Method Requested
- [ ] Analyte List Requested
- [ ] Other:
- [X] **Preservative**
- [ ] Sample Identification
- [ ] Sample Collection Date and/or Time
- [X] **Collector's Name**
- [ ] Sample Type
- [ ] Sample Location

The following anomalies were noted. Authorization is needed to proceed with analysis.

- [ ] Temperature outside < 6°C Range — Samples Affected: _____

  Temperature _____°C Ice Present? Yes No Melted

- [ ] Sample ID Discrepancy
- [ ] Sample Holding Time Missed
- [ ] Custody Seals Broken
- [ ] Insufficient Sample Size
- [ ] Sample Container(s) Broken
- [ ] Incorrect Container Type

Comments:

Client Authorization

Proceed with Analysis: (YES) NO Signature and Date [signature] 10/3/18

Client Comments/Instructions Client notified via email on 10/3/18.

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

187093

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2; 524.2 BTEX; 524.2 MTBE ONLY; 8260; 624; VTICS; 1,4 DIOXANE; 8021; BTEX; HALOS; 8015 GRO; MAPPH	SVOC: 8270; 625; SVHCS; EDB; DBCP; ABN; A; BN; PAH; TPH8100; LI; L2; 8015 DRO; MAEPH; PEST 608; PEST 8081; PCB 608; PCB 8082; OIL & GREASE 1664; TPH 1664	TCLP: TCLP 1311; VOC; ABN; METALS; PEST; HERB	METALS: DISSOLVED METALS (LIST BELOW); TOTAL METALS (LIST BELOW)	INORGANICS: TS; TSS; TDS; SPEC. CON.; Br; Cl; F; SO_4; NO_2; NO_3; NO_2NO_3; BOD; CBOD; T. ALK.; TKN; NH_3; T. PHOS.; O. PHOS.; pH; T. RES. CHLORINE; COD; PHENOLS; TOC; DOC; TOTAL CYANIDE; TOTAL SULFIDE; REACTIVE CYANIDE; REACTIVE SULFIDE; FLASHPOINT; IGNITABILITY	MICRO: TOTAL COLIFORM; E. COLI; FECAL COLIFORM; ENTEROCOCCI; HETEROTROPHIC PLATE COUNT	OTHER: PFAS-9 COMPOUNDS; # OF CONTAINERS	NOTES MEOH VIAL #
MAP 106 LOT 6	9/26/10 / 1015	DW	G							X	2	
TRIP BLANK	9/26/10 / 0900	AQ	G							X	2	

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER

PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER: MARK HENDERSON

COMPANY: NOBIS

ADDRESS: 18 CHENNEL DRIVE

CITY: CONCORD STATE: NH ZIP: 03301

PHONE: 603-224-4182 EXT.:

FAX:

E-MAIL: ALLENSTOWN LANDFILL

SITE NAME: MHENDERSON@NOBISENG.COM

PROJECT #: 76400.00

STATE: (NH) MA ME VT OTHER:

REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: PO #:

DATE NEEDED: STANDARD TAT

QA/QC REPORTING LEVEL

A B C

OR

MA MCP

REPORTING OPTIONS

PRELIMS: (YES) OR NO

ELECTRONIC OPTIONS

(E-MAIL) PDF EQUIS (EXCEL)

TEMP. 6.5 °C

ICE? (YES) NO

SAMPLER(S): DHB

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
	9-26-10	1655	
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:

METALS: 8 RCRA 13 PP FE, MN PB, CU

OTHER METALS:

SAMPLES FIELD FILTERED? ☐ YES ☒ NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SITE HISTORY: LANDFILL

SUSPECTED CONTAMINATION:

FIELD READINGS:

Eastern Analytical, Inc.
professional laboratory and drilling services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | E-MAIL: CUSTOMERSERVICE@EASTERNANALYTICAL.COM | WWW.EASTERNANALYTICAL.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

nobis

Letter of Transmittal

To: Town of Allenstown
16 School Street
Allenstown, NH 03275

Date: November 7, 2018

File No.: 76400.04

Attention: Mr. Derik Goodine

Re: Water Quality Sampling Results – September 2018

We are sending you the following via:

- ☐ Next Day Service
- ☐ Second Day Service
- ☐ Certified Mail
- ☒ U.S. Mail
- ☐ Hand Delivery
- ☐ Other:

No.	Copies	Date	Description
1	1	11/7/18	Enclosed Water Quality Sampling Results – September 2018

These are transmitted:

- ☒ For your use
- ☐ For review and comment
- ☐ As requested
- ☐ Other:

Remarks:

Copy To:

Signed:

Mark R. Henderson, P.G.
Senior Project Manager

www.nobis-group.com

Nobis Group®
18 Chenell Drive
Concord, NH 03301
T (603) 224-4182