Nyack Water Department

Report of Progress through 2021 Quarter 2

The Nyack Village Water Supply's primary source of water, the Nyack Water Treatment Plant, has been impacted by PFOA and PFOS contamination. Unfortunately, the treatment systems that the Water Department has in-place are ineffective in removing these contaminants.

Actions Undertaken by the Department

The process for implementing treatment for per- and polyfluorinated compounds is not simple. We have been working closely with our health regulators to ensure that the treatment system selected will perform reliably and produce consistent results. Reflected below are the actions that have been taken since our last quarterly report:

- May 2021 (2021 Q2): Testing indicates that the concentrations are below the Maximum Contaminant Level (MCL) for PFOA and PFOS.
- June 2021: Engineer had the proposed site location surveyed, the wetlands delineated, and soil borings performed in the proposed building location.
- June 2021: Engineer continues with preliminary design including the development of construction documents, coordination with the Water Department on preferred building location, architectural finishes, and operational efficiency of the selected treatment.

Testing Results

Quarter 2 2021 testing indicated that the concentrations are below the MCL for PFOA and PFOS.

Nyack Village Water Treatment Plant Maximum Detections											
Contaminant 03/02/2020 09/14/2020 10/13/2020 10/30/2020 2/17/2021 5/10/2021											
PFOA (ng/L)	9.98	9.95	13.00 ⁽¹⁾	9.4	7.2	6.8					
PFOS (ng/L) 5.38 6.49 8.10 7.8 5.1 5.1											

⁽¹⁾ Testing conducted on October 13, 2020, indicated that the Nyack Village Water Supply may have an MCL exceedance.

Next Steps

The Engineer will continue to work with the New York State and Rockland County Health Departments on finalizing approval of the Engineering Report. Upon this approval, the Engineer will proceed with detailed design in accordance with the project schedule. Delays to the schedule are anticipated due to an extended health department review period, and are discussed further in the project schedule.

Nyack Water Department

2020 QUARTER 2 SAMPLING REPORT



ANALYTICAL REPORT

Lab Number:

L2009619

Client:

Envirotest Laboratories Inc.

315 Fullerton Avenue

Newburgh, NY 12550

ATTN:

Debra Bayer

Phone:

(845) 562-0890

Project Name:

Not Specified

Project Number:

42001382

Report Date:

03/16/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name:

Not Specified

Project Number:

42001382

Lab Number:

L2009619

Report Date:

03/16/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2009619-01	INTAKE (420-168400-1)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20
L2009619-02	INTAKE FIELD BLANK (420- 168400-2)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20
L2009619-03	TREATMENT PLANT (420- 168400-3)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20
L2009619-04	TREATMENT PLANT FIELD BLANK (420-168400-4)	DW	VILLAGE OF NYACK WATER DEPT.	03/02/20 10:00	03/04/20



Project Name:

Not Specified

Project Number:

42001382

Lab Number:

L2009619

Report Date:

03/16/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Alycia Mogayzel

Authorized Signature:

Title: Technical Director/Representative

Date: 03/16/20



ORGANICS



SEMIVOLATILES



Project Name:

Not Specified

Lab Number:

L2009619

Project Number:

42001382

Report Date:

Date Collected:

03/16/20

SAMPLE RESULTS

Lab ID:

L2009619-01

Client ID:

INTAKE (420-168400-1)

Sample Location:

Date Received:

03/02/20 10:00 03/04/20

VILLAGE OF NYACK WATER DEPT.

Field Prep:

Not Specified

Sample Depth:

Matrix:

Dw

Analytical Method:

122,537

Analytical Date:

03/11/20 23:37

Analyst:

RS

Extraction Method: EPA 537

Extraction Date:

03/06/20 07:15

Parameter	Result G	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537	7 - Mansfield Lab					
Perfluorooctanoic Acid (PFOA)	9.98		ng/l	1.74		1
Perfluorooctanesulfonic Acid (PFOS)	5.38		ng/l	1.74		1
PFOA/PFOS, Total	15.4		ng/l	1.74		1
Surrogate			% Recovery	Qualifier		eptance riteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)			99		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C	-PFDA)		125			70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)		SAA)	93	70-130		

Project Name: Not Specified

/---

Lab Number:

L2009619

Project Number:

42001382

Report Date:

03/16/20

SAMPLE RESULTS

Lab ID: Client ID: L2009619-02

INTAKE FIELD BLANK (420-168400-2)

Date Collected:
Date Received:

03/02/20 10:00

03/04/20

70-130

Sample Location:

VILLAGE OF NYACK WATER DEPT.

Date Received Field Prep:

Extraction Date:

Extraction Method: EPA 537

Not Specified

03/06/20 07:15

Sample Depth:

Matrix:

Dw

Analytical Method:

122,537

Analytical Date:

03/12/20 00:11

N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)

Analyst:

RS

			4.50			
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 53	7 - Mansfield Lab					
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.80		1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80		1
PFOA/PFOS, Total	ND		ng/l	1.80		1
Surrogate			% Recovery	Qualifier		ptance iteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C	C-PFHxA)		104		7	0-130
Perfluoro-n-[1,2-13C2]decanoic Acid (130	C-PFDA)		102		7	0-130

74

Project Name: Not Specified

Project Number: 42001382 Report Date:

L2009619 03/16/20

SAMPLE RESULTS

Lab ID:

L2009619-03

Client ID:

TREATMENT PLANT (420-168400-3)

Date Collected:

Lab Number:

03/02/20 10:00

Sample Location:

VILLAGE OF NYACK WATER DEPT.

Date Received: Field Prep:

03/04/20 Not Specified

Sample Depth:

Matrix:

Dw

122,537

Analytical Method: Analytical Date:

03/12/20 00:28

Analyst:

RS

Extraction Method: EPA 537

Extraction Date:

03/06/20 07:15

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - N	Mansfield Lab				
Perfluorooctanoic Acid (PFOA)	9.57	ng/l	1.78		1
Perfluorooctanesulfonic Acid (PFOS)	5.39	ng/l	1.78		1
PFOA/PFOS, Total	15.0	ng/l	1.78		1
Surrogate		% Reco	overy Qualifie		eptance criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PF)	HxA)	91			70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PF	DA)	10	7		70-130
N-Deuterioethylperfluoro-1-octanesulfonamido	acetic Acid (d5-NEtFOSA	A) 76			70-130

Project Name: Not Specified Lab Number: Report Date:

L2009619

Project Number:

42001382

SAMPLE RESULTS

03/16/20

Lab ID:

L2009619-04

Date Collected:

Extraction Date:

Extraction Method: EPA 537

03/02/20 10:00

Client ID: Sample Location: TREATMENT PLANT FIELD BLANK (420-168400-4) VILLAGE OF NYACK WATER DEPT.

Date Received: Field Prep:

03/04/20 Not Specified

03/06/20 07:15

Sample Depth:

Matrix:

Dw

122,537

Analytical Method: Analytical Date:

03/12/20 01:02

Analyst:

RS

Parameter	Result Q	ualifier Uni	ts	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537	- Mansfield Lab					
Perfluorooctanoic Acid (PFOA)	ND	ng/	1	1.85		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/	1	1.85		1
PFOA/PFOS, Total	ND	ng/	¥	1.85		1
Surrogate		% Re	ecovery	Qualifier		eptance riteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-	-PFHxA)		100			70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-	-PFDA)		103			70-130
N-Deuterioethylperfluoro-1-octanesulfonan	nidoacetic Acid (d5-NEtFOS	AA)	79			70-130

Project Name:

Not Specified

Lab Number:

L2009619

Project Number:

42001382

Report Date:

03/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date:

122,537

03/11/20 22:46

Analyst:

RS

Extraction Method: EPA 537

Extraction Date:

03/06/20 07:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA	537 - Mansf	ield Lab for	sample(s):	01-04	Batch: WG1347915-1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	M-A
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	
PFOA/PFOS, Total	ND		ng/l	2.00	

		Acceptance			
Surrogate	%Recovery	Qualifier C	riteria		
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	99	7	0-130		
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	101	7	0-130		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85	7	0-130		



Lab Control Sample Analysis Batch Quality Control

Lab Number:

L2009619

Project Name: Project Number:

Not Specified 42001382

Report Date:

03/16/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Perfluorinated Alkyl Acids by EPA 537	7 - Mansfield Lab Assoc	iated sampl	e(s): 01-04 Batc	h: WG134	47915-2 WG1347	915-3			
Perfluorooctanoic Acid (PFOA)	94		100		70-130	6		30	
Perfluorooctanesulfonic Acid (PFOS)	75		76		70-130	1		30	

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	100		103		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	103		106		70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		84		70-130	



Matrix Spike Analysis Batch Quality Control

Project Name:

Not Specified

Project Number:

42001382

Lab Number:

L2009619

Report Date:

03/16/20

Parameter	Native Sample	MS Added	MS Found	MS %Recove	ery Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by E (420-168400-1)					,		91347915-4		nple: L2009			ID: INTAKE
Perfluorooctanoic Acid (PFOA)	9.98	1.74	12.0	116		-	-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	5.38	1.74	7.12	100		-	-		70-130	*		30
				MS			MSD		Accept	tance		
Surrogate			%	Recovery	Qualifier	% Red	covery Qua	lifier	Crite	ria		
N-Deuterioethylperfluoro-1-octanesul	fonamidoacetic	Acid (d5-NEtFO	SAA)	91					70-	-130		
Perfluoro-n-[1,2-13C2]decanoic Acid	(13C-PFDA)			118					70-	130		
Perfluoro-n-[1,2-13C2]hexanoic Acid	(13C-PFHxA)			96					70-	-130		



Lab Duplicate Analysis Batch Quality Control

Lab Number:

L2009619

Report Date:

03/16/20

Project Name: Not Specified Project Number: 42001382

Parameter	Native Sample	Dupli	cate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537 - TREATMENT PLANT (420-168400-3)	Mansfield Lab Associated sample(s):	01-04	QC Batch ID:	WG1347915-5	QC Sam	ple: L2009	619-03 Client ID:
Perfluorooctanoic Acid (PFOA)	9.57		9.26	ng/l	3		30
Perfluorooctanesulfonic Acid (PFOS)	5.39		5.04	ng/l	7		30
PFOA/PFOS, Total	15.0		14.3	ng/l	5		30

			Acceptance	
Surrogate	%Recovery	Qualifier %Recovery	Qualifier Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	91	93	70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	107	109	70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76	87	70-130	



Lab Number: L2009619

Report Date: 03/16/20

Project Name: Not Specified Project Number: 42001382

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler

Custody Seal

Α

Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pΗ	pН		Pres	Seal	Date/Time	Analysis(*)
L2009619-01A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	. A	NA		4.0	Υ	Absent		A2-537-PFOA/PFOS(14)
L2009619-01B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		4.0	Υ	Absent		A2-537-PFOA/PFOS(14)
L2009619-02A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		4.0	Υ	Absent		A2-537-PFOA/PFOS(14)
L2009619-03A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		4.0	Υ	Absent		A2-537-PFOA/PFOS(14)
L2009619-03B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		4.0	Υ	Absent		A2-537-PFOA/PFOS(14)
L2009619-04A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		4.0	Υ	Absent		A2-537-PFOA/PFOS(14)

Serial_No:03162011:25 **Lab Number:** L2009

L2009619

Report Date:

03/16/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	
	I I BA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES	THIRD OOM	3 1300-32-6
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE.	1001 00 0
N-Methyl Perfluorooctanesulfonamido Ethanol		1691-99-2
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSE	24448-09-7
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NETFOSAA	2991-50-6
	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1

Project Name:

Project Number:

Not Specified

42001382

Project Name: Not Specified Lab Number: L2009619 Report Date: **Project Number:** 42001382 03/16/20

GLOSSARY

Acronyms

EDL

EPA

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration. Environmental Protection Agency.

- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of LCS

analytes or a material containing known and verified amounts of analytes. LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a LOD specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

> Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

> - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL. - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP. - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF TEO and then summing the resulting values

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name:

Not Specified

Lab Number:

L2009619

Project Number:

42001382

Report Date:

03/16/20

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH; As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benzo(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument,
- G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I - The lower value for the two columns has been reported due to obvious interference.
- J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- Not detected at the reporting limit (RL) for the sample. ND
- NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report



Project Name:

Not Specified

Project Number:

42001382

Lab Number: Report Date:

L2009619

03/16/20

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name:

Not Specified

Project Number:

42001382

Lab Number:

L2009619

Report Date:

03/16/20

REFERENCES

Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 16

Published Date: 2/17/2020 10:46:05 AM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene.

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics.

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colllert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

EnviroTest Laboratories

Phone (845) 562-0890 Fax (845) 562-0841

315 Fullerion Avenue

Newburgh, NY 12550

315/20

Chain of Custody Record

2009619 Serial_No:03162011:25

EnviroTest Laboratories Inc.

Client Information (Sub Contract Lab)	Sampler			Lab Bay	er, Det	פונ		Camer Tracking Notal		COC No 420-11699.1
Client Contact	Frare			E.M.		nviratestial	poratories com			Page Page 1 of 1
Shipping/Receiving Company				Juda	70 (6)0	- VII OLESISAI				STL Job #
Alpha Analytical	0 0 0						Analysis	Requested		420-158400-1
Address 8 Walkup Drive,	Due Date Requests 3/12/2020	ea:			The state of					Preservation Codes; A - HCL M - Herane
City	TAT Requested (di	ays):								B NeOH N - None C - Zn Acetale O - AsNaO2
Westborough State, Za	Stol	TAT								D - Natric Acid P - Na2045
MA, 01581 Phone	- Std		3/2/31	0						€ - NaHSO4 Q - NaZSO3 F - MeOH R - NaZSZSO3
ringne	-0*			03	9	80				G - Arrichlor S - HZSO4 H - Ascorbic Acid T - TSP Dodecatiyara
Emari	MO a				or No)	2				I - Ice U - Acetone J - Dt Water V - MCAA
Project Name	Project #				Field Filtered Sample (Yes	SUBCONTRACT/ PFOA and PFOS			a Line	K-EDTA W-ph 4-5 L-EDA Z-omer (spechy)
Village of Nyack Water Department	42001382 SSOV#				휼	F.			contain	Other:
					- Sa.	ACT/			7	
			Sample	Matrix	PE	NTR			Total Number	ANSolos
		Sample	Type (C=comp,	Wirester, Brooks, Oranginist.	P P	20			ž	AU Sples 3/3/7002 Special Instructions/Note:
Sample Identification Client ID (Lab ID)	Sample Date	Time	G=grab)	HT-Trans. A-Air.) E	S.			10	Special Instructions/Note:
	> <	><	Preserva	ation Code:	XX				LX	
Intake (420-168400-1)	3/2/20	10:00	il	Water	Ш	х			2	unpres
Intake Field Blank (420-168400-2)	3/2/20	10:00		Water		X			1	Unpres
Treatment Plant (420-168400-3)	3/2/20	10:00		Water		x			2	Trizma
Treatment Plant Field Blank (420-168400-4)	3/2/20	10:00	4	Water		x			1	Trizma
										3/2/20 23
-			3/21-	2003						
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Possible Hazard Identification					Sa	mple Dist	osal (A fee may	be assessed if samples a	re retain	ed longer than 1 month)
Non-Hazard Flammable Skin Irritant	Porson B Unki	nown	Radiologica	31			To Client	Disposal By Lab	Arch	rive For Months
Deliverable Requested: I, II, III, IV, Other (specify)					Sp	ecial Instri	uctions/QC Require	ments		
Empty Kit Relinquished by		Date:			Time	/	10//	Method of Shipment		
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Nyack Water Department

2020 QUARTER 3 SAMPLING REPORT



ANALYTICAL REPORT

Lab Number: L2038494

Client: Envirotest Laboratories Inc.

315 Fullerton Avenue Newburgh, NY 12550

ATTN: Debra Bayer
Phone: (845) 562-0890

Project Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382

Report Date: 09/29/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382

Lab Number:

L2038494

Report Date:

09/29/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2038494-01	RAW INTAKE (420-180665-1)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20
L2038494-02	RAW INTAKE TRIP BLANK (420-180665-2)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20
L2038494-03	LAB SINK (420-180665-3)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20
L2038494-04	LAB SINK TRIP BLANK (420- 180665-4)	DW	VILLAGE OF NYACK WATER DEPT.	09/14/20 08:30	09/15/20



Project Name: VILLAGE OF NYACK WATER DEPT. Lab Number: L2038494

Project Number: 42001382 Report Date: 09/29/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.	



Project Name: VILLAGE OF NYACK WATER DEPT. Lab Number: L2038494
Project Number: 42001382 Report Date: 09/29/20

Case Narrative (continued)

Sample Receipt

L2038494-02 and -04: The sample was received in an inappropriate container for the PFOA/PFOS via EPA 537 analysis. The sample is considered a trip blank rather than a field blank. Per client request the sample is reported as a trip blank.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Juan & Mel Susan O' Neil

Title: Technical Director/Representative Date: 09/29/20

ORGANICS



SEMIVOLATILES



Project Name: Lab Number: VILLAGE OF NYACK WATER DEPT. L2038494

Project Number: Report Date: 42001382 09/29/20

SAMPLE RESULTS

Lab ID: L2038494-01 Date Collected: 09/14/20 08:30

RAW INTAKE (420-180665-1) Date Received: Client ID: 09/15/20 VILLAGE OF NYACK WATER DEPT. Sample Location: Field Prep: Not Specified

Sample Depth:

Extraction Method: EPA 537 Matrix: Dw

Extraction Date: 09/22/20 07:00 Analytical Method: 122,537 Analytical Date: 09/24/20 19:35

Analyst: SH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Perfluorinated Alkyl Acids by EPA 53	7 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	9.95		ng/l	1.76		1	
Perfluorooctanesulfonic Acid (PFOS)	6.49		ng/l	1.76		1	
					Acc	entance	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	70		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	71		70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		70-130	



Project Name: VILLAGE OF NYACK WATER DEPT. Lab Number: L2038494

Project Number: 42001382 **Report Date:** 09/29/20

SAMPLE RESULTS

RESULTS

Lab ID: L2038494-02 Date Collected: 09/14/20 08:30

Client ID: RAW INTAKE TRIP BLANK (420-180665-2) Date Received: 09/15/20 Sample Location: VILLAGE OF NYACK WATER DEPT. Field Prep: Not Specified

Sample Depth:

Matrix: Dw Extraction Method: EPA 537

Analytical Method: 122,537 Extraction Date: 09/22/20 07:00
Analytical Date: 09/24/20 19:44

Analyst: SH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mans	field Lab					
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.84		1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.84		1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	79		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	73		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		70-130



09/29/20

Report Date:

Project Name: VILLAGE OF NYACK WATER DEPT. Lab Number: L2038494

Project Number: 42001382

SAMPLE RESULTS

Lab ID: L2038494-03 Date Collected: 09/14/20 08:30

Client ID: LAB SINK (420-180665-3) Date Received: 09/15/20 Sample Location: VILLAGE OF NYACK WATER DEPT. Field Prep: Not Specified

Sample Depth:

Matrix: Dw Extraction Method: EPA 537

Analytical Method: 122,537 Extraction Date: 09/22/20 07:00
Analytical Date: 09/24/20 19:53

Analyst: SH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Perfluorinated Alkyl Acids by EPA 537	7 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	8.20		ng/l	1.79		1	
Perfluorooctanesulfonic Acid (PFOS)	5.08		ng/l	1.79		1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	70		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	71		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		70-130



09/29/20

Project Name: Lab Number: VILLAGE OF NYACK WATER DEPT. L2038494

Report Date: **Project Number:** 42001382

SAMPLE RESULTS

Lab ID: L2038494-04 R Date Collected: 09/14/20 08:30

LAB SINK TRIP BLANK (420-180665-4) Date Received: Client ID: 09/15/20 VILLAGE OF NYACK WATER DEPT. Sample Location: Field Prep: Not Specified

Sample Depth:

Extraction Method: EPA 537 Matrix: Dw

Extraction Date: 09/22/20 07:00 Analytical Method: 122,537 Analytical Date: 09/25/20 08:33

Analyst: SH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Perfluorinated Alkyl Acids by EPA 537	7 - Mansfield Lab						
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.80		1	
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80		1	
Surrogate			% Recovery	Qualifier		ptance iteria	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	84		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	77		70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		70-130	



Project Name: VILLAGE OF NYACK WATER DEPT. Lab Number: L2038494

Project Number: 42001382 **Report Date:** 09/29/20

Method Blank Analysis Batch Quality Control

Analytical Method: 122,537 Extraction Method: EPA 537

Analytical Date: 09/24/20 18:17 Extraction Date: 09/22/20 07:00

Analyst: SH

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 5	37 - Mansfi	eld Lab for	sample(s):	01-04	Batch: WG1412759-1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	

		Acceptance		
Surrogate	%Recovery	Qualifier Criteria		
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	76	70-130		
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	76	70-130		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	95	70-130		



Lab Control Sample Analysis Batch Quality Control

Project Name: VILLAGE OF NYACK WATER DEPT.

Lab Number: L2038494

Project Number: 42001382

Report Date: 09/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD		RPD imits
Perfluorinated Alkyl Acids by EPA 537 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1412759-2 WG1412759-3								
Perfluorooctanoic Acid (PFOA)	104		114		70-130	9		30
Perfluorooctanesulfonic Acid (PFOS)	100		85		70-130	16		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	90 90		102 98		70-130 70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		88		70-130	



Serial_No:09292010:25

Project Name: VILLAGE OF NYACK WATER DEPT. L2038494

Project Number: 42001382 **Report Date:** 09/29/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Information				Initial	Final	Temp			Frozen	
	Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
	L2038494-01A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		5.1	Υ	Absent		A2-537-PFOA/PFOS(14)
	L2038494-01B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		5.1	Υ	Absent		A2-537-PFOA/PFOS(14)
	L2038494-02A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		5.1	Υ	Absent		A2-537-PFOA/PFOS(14)
	L2038494-03A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		5.1	Υ	Absent		A2-537-PFOA/PFOS(14)
	L2038494-03B	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		5.1	Υ	Absent		A2-537-PFOA/PFOS(14)
	L2038494-04A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	NA		5.1	Υ	Absent		A2-537-PFOA/PFOS(14)



Project Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382

Serial_No:09292010:25 **Lab Number:** L2038 L2038494 Report Date: 09/29/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6
•		



Project Name: VILLAGE OF NYACK WATER DEPT. Lab Number: L2038494

Project Number: 42001382 Report Date: 09/29/20

GLOSSARY

Acronyms

EDL

EMPC

LOQ

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

 Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

 Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

 Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name:VILLAGE OF NYACK WATER DEPT.Lab Number:L2038494Project Number:42001382Report Date:09/29/20

 The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

1

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a "Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- ${f I}$ The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- **ND** Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: Data Usability Report



Project Name:VILLAGE OF NYACK WATER DEPT.Lab Number:L2038494Project Number:42001382Report Date:09/29/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Serial_No:09292010:25

Project Name: VILLAGE OF NYACK WATER DEPT. Lab Number: L2038494

Project Number: 42001382 Report Date: 09/29/20

REFERENCES

Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Serial_No:09292010:25

Alpha Analytical, Inc. Facility: Company-wide

Published Date: 4/28/2020 9:42:21 AM Department: Quality Assurance Title: Certificate/Approval Program Summary

Page 1 of 1

ID No.:17873

Revision 17

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. **EPA 624.1**: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Aq, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Aq, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

EnviroTest Laboratories

315 Fullerton Avenue

54

0/16/20

Milluma Z girlas Dyn

Chain of Custody Record

L2038494

Serial_No:09292010:25

EnviroTest Laboratories Inc.

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Nyack Water Department

2020 QUARTER 4 SAMPLING REPORT (1 OF 2)



November 12, 2020

Gilbert Francois
Village of Nyack WTP
Re: PFNA/PFOS/PFOA

Dear Mr. Francois,

Per your request, this letter is being written as a follow up to the samples EQC collected at the Village of Nyack Water Treatment Plant on 13-Oct-2020 and again on 30-Oct-2020, both for the analysis of PFNA, PFOS, and PFOA.

For each sample collected, there was an associated Field Blank submitted as well. Based on the results of the samples collected on 13-Oct-2020, EQC requested that the lab review the labels on the bottles. It appears that the sample labels were reversed between the sample and the blank bottles.

Based on this apparent label issue, a resample was requested. Additional samples were collected on 30-Oct-2020 by EQC.

The results of the resamples appear to confirm the bottle labeling issue that occurred on 13-Oct-2020.

Please let me know if you have any further questions or issues.

Thank you,

Erin Dougherty
Project Manager
Eurofins QC, LLC
215-355-3900, extension 3357
Erin.Dougherty@Eurofinset.com



Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-8485-1

Client Project/Site: Village of Nyack - PFC

Revision: 2

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert François

Authorized for release by: 3/1/2021 10:50:59 AM

Erin Dougherty, Project Administrator

(215)355-3900 Erin.Dougherty@eurofinset.com

..... LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Project/Site: Village of Nyack - PFC

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

• Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty

Project Administrator

3/1/2021 10:50:59 AM

Case Narrative

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-8485-1

Job ID: 630-8485-1

Laboratory: Eurofins QC, LLC - Horsham, PA

Narrative

Job Narrative 630-8485-1

REVISION

The report being provided is a revision of the original report sent on 10/22/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Report revision history

The report being provided is a revision of the original report sent on 10/22/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Revision 1 - 3/1/2021 - Reason - Certification updated to New York...

Receipt

The samples were received on 10/13/2020 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7°C

LCMS

Method 537.1 DW: The following sample(s) were found to contain residual chlorine: POE (630-8485-1).

Method 537.1_DW: The recovery for the internal(s) and surrogate(s) in the following sample: BLANK (630-8485-2) is outside QC acceptance limits. Sufficient sample is not available to re-extract this sample.

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

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Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Job ID: 630-8485-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
630-8485-1	POE	Drinking Water	10/13/20 11:37	10/13/20 14:45	
630-8485-2	BLANK	Drinking Water	10/13/20 11:37	10/13/20 14:45	

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Client Sample ID: POE

Date Collected: 10/13/20 11:37 Date Received: 10/13/20 14:45 Lab Sample ID: 630-8485-1 Matrix: Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorononanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorooctanesulfonic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorohexanesulfonic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorodecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluoroheptanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorohexanoic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Perfluorobutanesulfonic acid	ND		1.8	0.44	ng/L		10/22/20 08:37	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	101		70 - 130				10/22/20 08:37	1	DCS9
13C2 PFHxA	93		70 - 130				10/22/20 08:37	1	DCS9
13C3 HFPO-DA	91		70 - 130				10/22/20 08:37	1	DCS9
d5-NEtFOSAA	94		70 - 130				10/22/20 08:37	1	DCS9

Client Sample ID: BLANK
Date Collected: 10/13/20 11:37
Date Received: 10/13/20 14:45

Lab Sample ID: 630-8485-2
Matrix: Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	13		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorononanoic acid	2.1		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorooctanesulfonic acid	8.1		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorohexanesulfonic acid	4.6		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorodecanoic acid	0.48	J	1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluoroheptanoic acid	4.4		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorohexanoic acid	5.1		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Perfluorobutanesulfonic acid	3.2		1.8	0.45	ng/L		10/16/20 13:38	1	VK3G
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analys
13C2 PFDA	92		70 - 130				10/16/20 13:38	1	VK3G
13C2 PFHxA	73		70 - 130				10/16/20 13:38	1	VK3G
13C3 HFPO-DA	67	S1-	70 - 130				10/16/20 13:38	1	VK3G
d5-NEtFOSAA	85	*3	70 - 130				10/16/20 13:38	1	VK3G

Client: Village of Nyack Water Treatment Plant

Job ID: 630-8485-1

Project/Site: Village of Nyack - PFC

Client Sample ID: POE Lab Sample ID: 630-8485-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	ND	ng/L	10	1.8	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	ND	ng/L	10	1.8	EPA 537.1	Total/NA

Client Sample ID: BLANK Lab Sample ID: 630-8485-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	13	ng/L	<u> </u>	1.8	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	8.1	ng/L	10	1.8	EPA 537.1	Total/NA

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Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-8485-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-21
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	12-26-20
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	10-31-20
Delaware (DW)	State	N/A	01-25-21
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-21
Illinois	NELAP	004559	01-14-21
	State	361	03-02-22
lowa			
Kansas	NELAP	E-10151	10-31-20
Kentucky (DW)	State	KY90088	12-31-20
Kentucky (UST)	State	1.01	11-30-20
Kentucky (WW)	State	KY90088	12-23-20
Louisiana	NELAP	02055	06-30-21
Maine	State	2019012	03-12-21
Maryland	State	100	06-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-21
Minnesota	NELAP	042-999-487	11-02-20
Missouri	State	450	01-31-22
Montana (DW)	State	0098	11-08-20
Montana (UST)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	11-17-20
New Jersey	NELAP	PA011	01-03-21
New York	NELAP	10670	11-05-20
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	10-27-20
North Dakota	State	R-205	01-31-21
Oklahoma	NELAP	R-205	02-01-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	11-02-20
Rhode Island	State	LAO00338	02-28-21
South Carolina	State	89002002	01-31-21
Tennessee	State	02838	01-31-21
		T104704194-20-38	
Texas	NELAP NELAD		08-31-21 02-28-21
Utah Verment	NELAP State	PA000092019-16	
Vermont	State	VT - 36037	10-28-20
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-20
West Virginia DEP	State	055	10-25-20
Wyoming	State	8TMS-L	01-07-21
Wyoming (UST)	A2LA	1.01	11-29-20

Page 7 of 11

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

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-8485-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation

71001011011	These commonly accurations may or may not be precent in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

These commonly used abbreviations may or may not be present in this report.

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

Method Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-8485-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Eurofins QC, LLC - Horsham, PA

702 Electronic Drive

Horsham, PA 19044-0962

Chain of Custody Record



eurofins Environment Testing America

lient Information (Sub Contract Lab)	Sampler				gherty,	Erin				C	arrier Trac	king No(2):		COC No: 630-2677.1	
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illage of Nyack - PFC	63003671 SSOW#:	_			Ze (Yes	P. P.								onte	Other:	
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Nyack Water Department

2020 QUARTER 4 SAMPLING REPORT (2 OF 2)



Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-9481-1

Client Project/Site: Village of Nyack - PFC

Revision: 2

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert François

Authorized for release by: 3/1/2021 12:55:18 PM

Erin Dougherty, Project Administrator

(215)355-3900

Erin.Dougherty@eurofinset.com

LINKS

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Total Access

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Project/Site: Village of Nyack - PFC

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Coliform MCLs

• Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

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ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

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- Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty

Project Administrator

3/1/2021 12:55:18 PM

Case Narrative

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-9481-1

Job ID: 630-9481-1

Laboratory: Eurofins QC, LLC - Horsham, PA

Narrative

Job Narrative 630-9481-1

REVISION

The report being provided is a revision of the original report sent on 11/10/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Report revision history

The report being provided is a revision of the original report sent on 11/10/2020. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Revision 1 - 3/1/2021 - Reason - Certification updated to include New York..

Receipt

The samples were received on 11/2/2020 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

LCMS

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

Eurofins QC, LLC – Horsham, PA 3/1/2021 (Rev. 2)

Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Job ID: 630-9481-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
630-9481-1	LAB SINK	Drinking Water	10/30/20 12:32	11/02/20 15:30	
630-9481-2	FIELD BLANK	Drinking Water	10/30/20 12:29	11/02/20 15:30	

Client Sample ID: LAB SINK

Lab Sample ID: 630-9481-1

Matrix: Drinking Water

Date Collected: 10/30/20 12:32 Date Received: 11/02/20 15:30

Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	9.4	1.9	0.49	ng/L		11/06/20 21:51	1	Y6ZN
Perfluorononanoic acid	2.2	1.9	0.49	ng/L		11/06/20 21:51	1	Y6ZN
Perfluorooctanesulfonic acid	7.8	1.9	0.49	ng/L		11/06/20 21:51	1	Y6ZN
Surrogate	%Recovery Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PEDA	103	70 130				11/06/20 21:51		V67N

Surrogate	%Recovery Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	103	70 - 130	11/06/20 21:51	1	Y6ZN
13C2 PFHxA	79	70 - 130	11/06/20 21:51	1	Y6ZN
13C3 HFPO-DA	72	70 - 130	11/06/20 21:51	1	Y6ZN
d5-NEtFOSAA	90	70 - 130	11/06/20 21:51	1	Y6ZN

Client Sample ID: FIELD BLANK

Date Collected: 10/30/20 12:29 Date Received: 11/02/20 15:30 Lab Sample ID: 630-9481-2

Matrix: Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	ND		1.7	0.44	ng/L		11/06/20 22:03	1	Y6ZN
Perfluorononanoic acid	ND		1.7	0.44	ng/L		11/06/20 22:03	1	Y6ZN
Perfluorooctanesulfonic acid	ND		1.7	0.44	ng/L		11/06/20 22:03	1	Y6ZN
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	89		70 - 130				11/06/20 22:03	1	Y6ZN
13C2 PFHxA	91		70 - 130				11/06/20 22:03	1	Y6ZN
13C3 HFPO-DA	84		70 - 130				11/06/20 22:03	1	Y6ZN
							11/06/20 22:03		Y6ZN

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Client Sample ID: LAB SINK

Lab Sample ID: 630-9481-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	9.4	ng/L	10	1.9	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	7.8	ng/L	10	1.9	EPA 537.1	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-9481-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualifier	Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	ND	ng/L	10	1.7	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	ND	ng/L	10	1.7	EPA 537.1	Total/NA

Eurofins QC, LLC - Horsham, PA

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-9481-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date		
A2LA	Dept. of Defense ELAP	1.01	11-29-20		
Alaska	State	PA00009	06-30-21		
Alaska (UST)	State	17-027	01-31-21		
Arizona	State	AZ0780	03-12-21		
Arkansas DEQ	State	19-053-0	08-09-21		
California	State	2792	01-31-21		
Colorado	State	PA00009	06-30-21		
Connecticut	State	PH-0746	12-26-20		
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22		
Delaware (DW)	State	N/A	01-25-21		
Florida	NELAP	E87997	07-01-21		
Hawaii	State	N/A	01-31-21		
Illinois	NELAP	004559	01-14-21		
lowa	State	361	03-02-22		
Kansas	NELAP	E-10151	10-31-21		
	State	KY90088	12-31-20		
Kentucky (DW) Kentucky (UST)	State	1.01	12-31-20		
, ,	State	KY90088	12-23-20		
Kentucky (WW)	NELAP				
Louisiana		02055	06-30-21		
Maine	State	2019012	03-12-21		
Maryland	State	100	06-30-21		
Massachusetts	State	M-PA009	06-30-21		
Michigan	State	9930	01-31-21		
Minnesota	NELAP	042-999-487	12-31-21		
Missouri	State	450	01-31-22		
Montana (DW)	State	0098	11-08-20		
Montana (UST)	State	0098	01-01-22		
Nebraska	State	NE-OS-32-17	01-31-20 *		
Nevada	State	PA000092019-3	07-31-21		
New Hampshire	NELAP	273019	11-17-20		
New Jersey	NELAP	PA011	01-03-21		
New York	NELAP	10670	04-01-21		
North Carolina (DW)	State	42705	07-31-21		
North Carolina (WW/SW)	State	521	12-20-20		
North Dakota	State	R-205	01-31-21		
Oklahoma	NELAP	R-205	02-01-21		
Oregon	NELAP	PA200001-018	09-12-21		
PALA	Canada	1978	05-08-21		
Pennsylvania	NELAP	36-00037	12-03-20		
Rhode Island	State	LAO00338	02-28-21		
South Carolina	State	89002002	01-31-21		
Tennessee	State	02838	01-28-21		
Texas	NELAP	T104704194-20-38	08-31-21		
Utah	NELAP	PA000092019-16	02-28-21		
Vermont	State	VT - 36037	10-29-21		
Virginia	NELAP	10561	06-14-21		
Washington	State	C457	04-11-21		
-	State	9906 C			
West Virginia (DW)			12-31-20		
West Virginia DEP	State	055	12-28-20		
Wyoming	State	8TMS-L	01-07-21		
Wyoming (UST)	A2LA	1.01	11-29-20		

Page 7 of 11

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

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-9481-1

Glossary

DL, RA, RE, IN

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.								
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis								
%R	Percent Recovery								
1C	Result is from the primary column on a dual-column method.								
2C	Result is from the confirmation column on a dual-column method.								
CFL	Contains Free Liquid								
CFU	Colony Forming Unit								
CNF	Contains No Free Liquid								
DER	Duplicate Error Ratio (normalized absolute difference)								
Dil Fac	Dilution Factor								
DL	Detection Limit (DoD/DOE)								

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Control of Con

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
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)

TNTC Too Numerous To Count

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

Method Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-9481-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Expected: WEDNESDAY 09/28/33 - 09/28/33

Stop Date:

Project Name: -

Start Date: 01/01/95

Comments/Schedule Details:

Blank pick sheet for use in-house

PWSID:

Eurofins QC, LLC Cust: TEST1> W0 9890
Schd: 11183

Route: 1. KERVIN (c) 845.597.5426

7216471-1 SAMPLE - LAB SINK.

ALL BOTTLES HAVE TRIZMA

VILLAGE OF NYACK W.T.P.

2:30 ROUTE 59

HORSHAM, PA .

FIELD WORK CODE:

7216471-2

(215)555-5555 HOME

(215)333-3333 HOME #2 (215)355-3535 PHONE #

(.). - ..

1 NYACK, NY, 10960

LAB USE ONLY

HNO3 H2SO4

NaOH

HCL

Collection

NH4CL

Eurofins QC, LLC - Horsham, PA

702 Electronic Drive

Curc

Chain of Custody Record



a eurofins

Environment Testing America

	Sampler;			Lab							Car	rier Track	ing No(s	r):		COC No:	
Client Information (Sub Contract Lab)				Dou E-Ma	gherty,	Erin					Sha	te of Orig	in.	_		630-2926.1 Page:	
Rent Contact	Phone:					erty@	eurofi	nsus.co	m			w York	4.5-			Page 1 of 1	
hipping/Receiving ompany:								ed (See	note):							Job #	
urofins Lancaster Laboratories Env LLC	In Date Brown	4.			NELA	P-N	ew Je	rsey	_		_	_	_	_		530-9481-1 Preservation Co	ies:
ddress 425 New Holland Pike.	11/11/2020	id:						A	naly	sis R	eque	sted				A - HCL	M - Hexans
425 New Holland Pike, , ity: ancaster	TAT Requested (da	iya);					Hold)									B - NaOH C - Zn Acetate	N - None O - AsNaO2
ate, Zp: A, 17601						PFOS	PF08 (D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3	
none: 17-656-2300(Tel)	PO#:				(0)	1 8 8								G - Amohlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahy			
mall:	Obelied &: Obelie								15	J - DI Water V - MCAA K - EDTA W - pH 4-5							
roject Name: /illage of Nyack - PFC	Project #: 63003671				ared Sample (Yes or MS/MSD (Yes or No)	Prep P	Prep P								containers	L - EDA Other:	Z - other (specify)
He:	SSOW#:				DO CO	M	MO								jo	Other.	
sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwwster, Sweete, Dweastafel, BY=Tissue, AnAlr	ald Filt	637.1_DW/537.1_DW_Prep	537.1_DW/537.1_DW_Prep PFNA,								Total Number		structions/Note:
		><	Preserva	ation Code:	XX		煙	Of IS				1				A company of the comp	
AB SINK (630-9481-1)	10/30/20	12:32 Eastern		rinking Wat		X									2	5 day tumaround	approved by the lab
ELD BLANK (630-9481-2)	10/30/20	12:29 Eastern		rinking Wat	1		х								1	5 day turnaround	approved by the lab
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					1			+			+	++	+	++			
															100		
ota: Since laboratory accreditations are subject to change, Eurofins QC, LLC- urrently maintain accreditation in the State of Origin listed above for analysis/li- Eurofins QC, LLC – Horsham, PA attention immediately. If all requested acc					ttesting t	o said	omplic	ance to I	Eurolina	QC, LL	G – Hor	sham, PA	L	o provide		and type to account	
ossible Hazard Identification					Sa					nay b	7			les are		n <mark>ed longer than 1</mark> hive For	month) Months
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										-	Remark			the second named in		- Daniel Contract	

Nyack Water Department

2021 QUARTER 1 SAMPLING REPORT

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-13652-1

Client Project/Site: Village of Nyack - PFC

Revision: 2

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert François

Authorized for release by: 3/1/2021 12:59:05 PM

Erin Dougherty, Project Administrator (215)355-3900

Erin.Dougherty@eurofinset.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Project/Site: Village of Nyack - PFC

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

• Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty

Project Administrator

3/1/2021 12:59:05 PM

Case Narrative

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-13652-1

Job ID: 630-13652-1

Laboratory: Eurofins QC, LLC - Horsham, PA

Narrative

Job Narrative 630-13652-1

REVISION

The report being provided is a revision of the original report sent on 2/25/2021. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Report revision history

The report being provided is a revision of the original report sent on 2/25/2021. The report (revision 2) is being revised due to Action Limits changed from NJ to NY..

Revision 1 - 3/1/2021 - Reason - Certifications updated to include New York..

Receipt

The samples were received on 2/17/2021 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C

LCMS

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

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Sample Summary

Client: Village of Nyack Water Treatment Plant Project/Site: Village of Nyack - PFC

Job ID: 630-13652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
630-13652-1	POE	Drinking Water	02/17/21 11:39	02/17/21 15:35	
630-13652-2	BLANK	Drinking Water	02/17/21 11:39	02/17/21 15:35	

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Client Sample ID: POE Lab Sample ID: 630-13652-1

Date Collected: 02/17/21 11:39 Matrix: Drinking Water Date Received: 02/17/21 15:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	7.2		1.8	0.44	ng/L		02/23/21 20:18	1	Y6ZN
Perfluorononanoic acid	1.2	J	1.8	0.44	ng/L		02/23/21 20:18	1	Y6ZN
Perfluorooctanesulfonic acid	5.1		1.8	0.44	ng/L		02/23/21 20:18	1	Y6ZN
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	106		70 - 130				02/23/21 20:18	1	Y6ZN
13C2 PFHxA	96		70 - 130				02/23/21 20:18	1	Y6ZN
13C3 HFPO-DA	84		70 - 130				02/23/21 20:18	1	Y6ZN
d5-NEtFOSAA	99		70 - 130				02/23/21 20:18	1	Y6ZN

Client Sample ID: BLANK

Date Collected: 02/17/21 11:39

Lab Sample ID: 630-13652-2

Matrix: Drinking Water

Date Received: 02/17/21 15:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	ND		1.8	0.45	ng/L		02/23/21 20:29	1	Y6ZN
Perfluorononanoic acid	ND		1.8	0.45	ng/L		02/23/21 20:29	1	Y6ZN
Perfluorooctanesulfonic acid	ND		1.8	0.45	ng/L		02/23/21 20:29	1	Y6ZN
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	98		70 - 130				02/23/21 20:29	1	Y6ZN
13C2 PFHxA	103		70 - 130				02/23/21 20:29	1	Y6ZN
13C3 HFPO-DA	99		70 - 130				02/23/21 20:29	1	Y6ZN
d5-NEtFOSAA	98		70 - 130				02/23/21 20:29	1	Y6ZN

Client Sample ID: POE Lab Sample ID: 630-13652-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Qualif	ier Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	7.2	ng/L	10	1.8	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	5.1	ng/L	10	1.8	EPA 537.1	Total/NA

Lab Sample ID: 630-13652-2 **Client Sample ID: BLANK**

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

			NYS-MCL			
Analyte	Result Quali	fier Unit	Limit	RL	Method	Prep Type
Perfluorooctanoic acid	ND	ng/L	10	1.8	EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	ND	ng/L	10	1.8	EPA 537.1	Total/NA

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-13652-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

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A2LA	Dept. of Defense ELAP	1.01	11-30-22
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21 *
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-22
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	06-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22
Delaware (DW)	State	N/A	02-01-22
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-22
Illinois	NELAP	004559	01-31-22
	State	361	03-02-22
lowa			
Kansas	NELAP	E-10151	10-31-21
Kentucky (DW)	State	KY90088	01-01-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	12-31-21
Louisiana	NELAP	02055	06-30-21
Maine	State	2019012	03-12-21
Maryland	State	100	06-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-22
Minnesota	NELAP	042-999-487	12-31-21
Missouri	State	450	01-31-22
Montana (DW)	State	0098	01-01-22
Montana (UST)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	01-10-22
New Jersey	NELAP	PA011	06-30-21
New York	NELAP	10670	04-01-21
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-31-21
North Dakota	State	R-205	01-31-22
Oklahoma	NELAP	R-205	08-31-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	01-31-22
Rhode Island	State	LAO00338	02-28-21
South Carolina	State	89002002	01-31-22
Tennessee	State	02838	01-31-22
		T104704194-20-38	
Texas	NELAP NELAD		08-31-21 02-28-21
Utah Verment	NELAP State	PA000092019-16	
Vermont	State	VT - 36037	10-29-21
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-21
West Virginia DEP	State	055	06-30-21
Wyoming	State	8TMS-L	01-31-22
Wyoming (UST)	A2LA	1.01	11-30-22

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

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-13652-1

Qualifiers

LCMS

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid

CFU Colony Forming Unit
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)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive 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)

TNTC Too Numerous To Count

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

Method Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: Village of Nyack - PFC

Job ID: 630-13652-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Eurofins QC, LLC - Horsham, PA

702 Electronic Drive Horsham, PA 19044-0962

Chain of Custody Record

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🔅 eurofins	Environment	Testin
	Research Co. C.	

Phone: 215-355-3900 Fax: 888-785-8567																				
Client Information (Sub Contract Lab)	Sampler:	-		Do	PM: ughe	rty,	Erin						rier Trac		o(s):			COC No: 630-3875.1		×
Client Contact: Shipping/Receiving	Phone:			E-M Erii		ughe	erty@	eurofi)	inset.c	om			e of Orig					Page: Page 1 of 1		
Company: Eurofins Lancaster Laboratories Env LLC					Acc	credit	ations		ed (See								7	lob #: 630-13652-1		
Address:	Due Date Request	ed.			INC		- 146	W JEI	зеу								_	Preservation Code	e·	
2425 New Holland Pike, ,	3/2/2021				\perp				A	naly	sis R	eque	sted				- 1		s: M - Hexane	
City: Lancaster	TAT Requested (da	ays):																B - NaOH C - Zn Acetate	N - None O - AsNaO2	
State, Zip: PA, 17601							PFOS	PFOS										E - NaHSO4	P - Na2O4S Q - Na2SO3 R - Na2S2O3	
Phone: 717-656-2300(Tel)	PO #:				٦ (٥		PFOA,	PFOA,										G - Amchlor	S - H2SO4 T - TSP Dode	cahydrate
Email:	WO#:				s or N	No.	FNA,	HNA,				-					2	J - DI Water	U - Acetone V - MCAA	
Project Name: Village of Nyack - PFC	Project #: 63003671				le (Ye	es or	Prep F	Prep											W - pH 4-5 Z - other (spec	cify)
Site:	SSOW#:				Samp	MS/MSD (Yes	Ma_	Ma						l		1	5	Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Al	Field Filtered	Perform MS/N	537.1_DW/537.1_DW_Prep PFNA, PFOA, PFOS	637.1_DW/637.1_DW_Prep PFNA, PFOA, PFOS (Hold)									Total Number	Special Ins	tructions/N	lote:
	\sim	><	Preservat	ion Code:	X	X						70					X			
POE (630-13652-1)	2/17/21	11:39 Eastern	þ	inking Wa	ate		Х										2	5 day turnaround ap	proved by the	e lab
BLANK (630-13652-2)	2/17/21	11:39 Eastern	þ	inking Wa	ate			х									1	5 day turnaround ap	proved by the	e lab
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Note: Since laboratory accreditations are subject to change, Eurofins QC, LLC - not currently maintain accreditation in the State of Origin listed above for analysi brought to Eurofins QC, LLC – Horsham, PA attention immediately. If all reques	s/tests/matrix being a	analyzed, the s	samples must b	e shipped ba	ack to	the E	urofin	s QC, L	LC - Ho	orsham,	PA lab	oratory	or other	instruc	tions will	is forwa be provi	rded ded	d under chain-of-custo Any changes to acc	ody. If the laboreditation statu	oratory does us should be
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Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1			Spe	ecial	Instruc	ctions/	QC Re	equire	ments:								
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Custody Seals Intact: Custody Seal No.: PFAS			Р	age 11	of	11	Cool	er Temp	erature	(6) °C/a	nd Oth	er Rema	rks:	4,1	0 (FUE-	3)1/20	21 (Re

Nyack Water Department

2021 QUARTER 2 SAMPLING REPORT



Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC - Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-17130-1

Client Project/Site: PFC

Sampling Event: Quarterly PFC

For:

Village of Nyack Water Treatment Plant 9 North Broadway Nyack, New York 10960

Attn: Gilbert Francois

Authorized for release by: 5/20/2021 12:10:29 PM

Erin Dougherty, Project Administrator

(215)355-3900

Erin.Dougherty@eurofinset.com

·····LINKS ······

Review your project results through Total Access

Have a Question?



Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Project/Site: PFC

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

• Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Zachary Smith (Water Microbiology).

Erin Dougherty

Project Administrator

5/20/2021 12:10:29 PM

Page 2 of 9 5/20/2021

Case Narrative

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC

Job ID: 630-17130-1

Job ID: 630-17130-1

Laboratory: Eurofins QC, LLC - Horsham, PA

Narrative

Job Narrative 630-17130-1

Receipt

The samples were received on 5/10/2021 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7° C

LCMS

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

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Sample Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC

Job ID: 630-17130-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
630-17130-1	POE, Lab Sink	Drinking Water	05/10/21 13:25	05/10/21 15:10	
630-17130-2	Field Blank	Drinking Water	05/10/21 13:26	05/10/21 15:10	

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Lab Sample ID: 630-17130-2

Matrix: Drinking Water

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC

Client Sample ID: POE, Lab Sink

Lab Sample ID: 630-17130-1 Date Collected: 05/10/21 13:25 **Matrix: Drinking Water**

Date Received: 05/10/21 15:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	6.8		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorononanoic acid	1.3	J	1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Perfluorooctanesulfonic acid	5.1		1.8	0.45	ng/L		05/20/21 05:00	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	90		70 - 130				05/20/21 05:00	1	DCS9
13C2 PFHxA	79		70 - 130				05/20/21 05:00	1	DCS9
13C3 HFPO-DA	76		70 - 130				05/20/21 05:00	1	DCS9
d5-NEtFOSAA	87		70 - 130				05/20/21 05:00	1	DCS9

Client Sample ID: Field Blank

Date Collected: 05/10/21 13:26

Date Received: 05/10/21 15:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorooctanoic acid	ND		1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorononanoic acid	ND		1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorooctanesulfonic acid	ND		1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	84		70 - 130				05/20/21 05:11	1	DCS9
13C2 PFHxA	88		70 - 130				05/20/21 05:11	1	DCS9
13C3 HFPO-DA	97		70 - 130				05/20/21 05:11	1	DCS9
d5-NEtFOSAA	88		70 - 130				05/20/21 05:11	1	DCS9

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC

Job ID: 630-17130-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority **Identification Number Expiration Date** Program New York **NELAP** 10670 04-01-22 The following analytes are included in this report, but accreditation/certification is not offered by the governing authority: Analysis Method Prep Method Matrix Analyte EPA 537.1 EPA 537.1 **Drinking Water** Perfluorononanoic acid

Qualifiers

LCMS

 Qualifier
 Qualifier Description

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 Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery 1C Result is from the primary column on a dual-column method. Result is from the confirmation column on a dual-column method. 2C CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) **Dilution Factor** Dil Fac Detection Limit (DoD/DOE) DL 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) 100 Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated Not Detected at the reporting limit (or MDL or EDL if shown) ND NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit** Presumptive **PRES** QC **Quality Control RER** Relative Error Ratio (Radiochemistry) Reporting Limit or Requested Limit (Radiochemistry) RL Relative Percent Difference, a measure of the relative difference between two points **RPD** TFF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ TNTC Too Numerous To Count

Method Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC

Job ID: 630-17130-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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EUROFINS OC, LLC Cust: W09890 Schd: 55659 GILBERT FRANCOIS VILLAGE OF NYACK WATER TREATMENT PLANT 230 ROUTE 59 NYACK, NY 10960 (845)358-0641 (845)358-3734 GILERT FRANCOIS-PLANT (845)597-5424 GILERT FRANCOIS-CELL	Expected: MONDAY 04/05/21 - 00 Project Name: VILLAGE OF NYACK WATER T Start Date: 02/19/21 Stop Date: Comments/Schedule Details: CALL GILBERT TO SCHEDULE PRIOF SAMPLING: PLANT 845-358-3734, OR 845-597-5424 GILBERT SAI D SAMPLING: PLANT 845-358-3734, OR 845-597-5424 GILBERT SAI D SAMPLING: PLANT 845-358-3734, OR 845-597-5424 GILBERT SAI D SAMPLING: PWSID: CALL HIM DEFORE	REATMENT PLANT	# Ascorbic/HCL # NA2S2O3 # NAOH/Zn ace # HNO3 pH # H2SO4 pH # NAOH pH Unpreserved # HCL # NH4CL # MEOH # Na2SO3/HCL	. Vials #						
Route: 4 SARA CAMACHO	Call how here	s e C C	# DI Water			Field	Tests By:		/Time:	
	ovii in 5000°C,	u H o o d P i I o C i i	Collection Date	Collection Time To (Military) #		Free CI2 mg/L	pH/TempC _	BR2 YES/NO	Total CL2 mg/L	
7247974-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, PFC			Sholan	13:25	2					
7247974-2 FIELD BLANK										
PFC 			5/10/21	12:21	1					
FIELD WORK CODE:			3110/21	10.25	,					
				111111111111111111111111111111111111111						
			630-17130 C	Chain of Custod	//////////////////////////////////////					
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Sample Collected By Circle One Client (EQC	Initials	Required TAT: Standa	ard/Rush# Days							
Relinquished By Time	Date Received By	Time Date 16:10 5)10		ced Y/N Site		Initials	Comments	(re <mark>porting, met</mark>	hods, etc)	
M: 07:00-17:00 T: 07:00-17:00 W: 07:00-17:00 Th: 07:00-17:0 M: - T: - W: - Th: - F: - St:		3/21/21 GPS X:	Y:				Hazardous	Y/N		

Eurofins QC, LLC - Horsham, PA

702 Electronic Drive

Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567

Chain of Custody Record



🕸 eurofins

Environment Testing America

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Client Information (Sub Contract Lab)	Sampler			Lab Pl Doug	м: herty,	. Erir	1					Camei	Trackir	ng No(s	в):			OC No: 30-4643.1		
Client Contact: Shipping/Receiving	Phone:			E-Mail Erin.l	it: State of 0 Dougherty@eurofinset.com New Yo												age: Page 1 of 1			
Company:				•	Accred	litation		ired (S	(See note):								J	ob #:		
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City: Lancaster	TAT Requested (d	nys):														1		3 - NaOH C - Zn Acetate	N - None O - AsNa	
State, Zip:	1				養養	SO	SOS								1 1	9		O - Nitric Acid E - NaHSO4	P - Na2O- Q - Na2Si	
Phone:	PO#:			-		A, P	А, Р										F	- MeOH 3 - Amchlor	R - Na2S2 S - H2SO	203
717-656-2300(Tel)	WO#:				Qo.	537.1_DW/537.1_DW_Prep PFNA, PFOA, PFOS	537.1_DWi537.1_DW_Prep PFNA, PFOA, PFOS (Hold)								1 1	8	E F	H - Ascorbic Acid		Oodecahydrate
Email:	VVO #:				Yes or or No)	FNA	FINA										10	J - DI Water	V - MCAA	4
Project Name: Village of Nyack	Project #: 63003671				S or	g	de											C - EDTA L - EDA	W - pH 4- Z - other (
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Note: Since laboratory accreditations are subject to change, Eurofins QC, LLC not currently maintain accreditation in the State of Origin listed above for analys																				
brought to Eurofins QC, LLC - Horsham, PA attention immediately. If all reque	sted accreditations ar	e current to da	ite, return the signed	Chain of	Custod	ly atte	sting to	said co	omplica	nce to	Eurofins	ác, i	LC – H	orshan	n, PA.					
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