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

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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 03/16/20

Report Date:

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: Project Number: Not Specified

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: SAMPLE RESULTS

03/16/20

Lab ID:

D:

L2009619-01

Client ID:

INTAKE (420-168400-1)

Sample Location:

VILLAGE OF NYACK WATER DEPT.

Date Collected:
Date Received:

03/02/20 10:00

111 AKL (420-1004)

Field Prep:

03/04/20 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 Q	ualifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 53	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	C-PFHxA)	99			70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C	C-PFDA)	125			70-130
N-Deuterioethylperfluoro-1-octanesulfona	midoacetic Acid (d5-NEtFOS	AA) 93			70-130

L2009619

Lab Number: Project Name: Not Specified

Report Date: 03/16/20

42001382 Project Number:

SAMPLE RESULTS

Date Collected: 03/02/20 10:00 Lab ID: L2009619-02 Date Received: INTAKE FIELD BLANK (420-168400-2) 03/04/20 Client ID: VILLAGE OF NYACK WATER DEPT. Field Prep: Not Specified

Sample Location:

03/12/20 00:11

Sample Depth:

Extraction Method: EPA 537 Matrix: Dw Extraction Date: 03/06/20 07:15 122,537 Analytical Method:

Analyst: RS

Analytical Date:

Parameter	Result Q	ualifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - I	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		eptance riteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PF	HxA)	104			70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PF	DA)	102			70-130
N-Deuterioethylperfluoro-1-octanesulfonamido	pacetic Acid (d5-NEtFOS	AA) 74			70-130



Project Name: Not

Not Specified

Lab Number: Report Date: L2009619 03/16/20

Project Number:

42001382

SAMPLE RESULTS

Date Collected:

03/02/20 10:00

Lab ID:

L2009619-03

Client ID:

TREATMENT PLANT (420-168400-3)
VILLAGE OF NYACK WATER DEPT.

Date Received: Field Prep:

03/04/20 Not Specified

Sample Location:
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	ualifier Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537	- 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		% Recovery	Qualifier		eptance iteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-F	PFHxA)	91		7	70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-F	PFDA)	107		7	70-130
N-Deuterioethylperfluoro-1-octanesulfonami	doacetic Acid (d5-NEtFOSA	VA) 76		7	70-130

Project Name:

Not Specified

Lab Number:

L2009619

Project Number:

42001382

Report Date: SAMPLE RESULTS

03/16/20

Lab ID:

L2009619-04

Date Collected:

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

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

Date Received: Field Prep:

Not Specified

03/06/20 07:15

Sample Depth:

Matrix:

Dw

122,537

Extraction Method: EPA 537 **Extraction Date:**

Analytical Method: Analytical Date:

03/12/20 01:02

Analyst:

RS

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537 - Mans	field Lab				
Perfluorooctanoic Acid (PFOA)	ND	ng/l	1.85		1
Perfluorooctanesulfonic Acid (PFOS)	ND	ng/l	1.85		1
PFOA/PFOS, Total	ND	ng/l	1.85		1
Surrogate		% Recovery	Qualifier		ptance iteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)		100		7	70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)		103		7	'0-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic	Acid (d5-NEtFOSAA)	79		7	'0-130

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

03/06/20 07:15

Extraction Date:

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

		Acceptance
Surrogate	%Recovery	Qualifier Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	99	70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	101	70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85	70-130



Lab Control Sample Analysis Batch Quality Control

Lab Number:

L2009619

Project Number:

Project Name:

Not Specified 42001382

Report Date:

03/16/20

Parameter	LCS %Recovery		.CSD ecovery Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537	- Mansfield Lab Associ	ated sample(s): 0	1-04 Batch: WG13	347915-2 WG1347	7915-3		
Perfluorooctanoic Acid (PFOA)	94		100	70-130	6		30
Perfluorooctanesulfonic Acid (PFOS)	75		76	70-130	1		30

Surrogate	LCS %Recovery	LCSD Qual %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)	EPA 537 - Ma	nsfield Lab	Associated :	sample(s): 0°	1-04 QC Ba	atch ID: WO	31347915-4	QC Sa	mple: L2009	619-01	Client I	D: 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	ance		
Surrogate			%	Recovery	Qualifier	% Red	overy 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-I1.2-13C2lhexanoic Acid	(13C-PFHxA)			96					70-	130		



Lab Duplicate Analysis Batch Quality Control

Not Specified Batch Quality Conf

Lab Number:

L2009619

Report Date:

03/16/20

Parameter	Native Sample	Duplicate Sample	Units	RPD (RPD Qual 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 Sample:	L2009619-03 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 Qua	lifier %Recovery Qualif	ier 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	

Project Name:

Project Number: 42001382

Lab Number: L2009619

Report Date: 03/16/20

Project Name: Not SpecifiedProject Number: 42001382

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рΗ	рН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2009619-01A	2 Plastic Trizma/1 Plastic/1 H20+Trizma	Α	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	Y	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	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)	. , 5, ,	070 22 4
Perfluorododecanesulfonic Acid	PFDoDS	70790 20 5
Perfluorodecanesulfonic Acid	PFDS	79780-39-5
Perfluorononanesulfonic Acid	PFNS	335-77-3
Perfluorooctanesulfonic Acid	PFOS	68259-12-1
Perfluoroheptanesulfonic Acid	PFHpS	1763-23-1
Perfluorohexanesulfonic Acid	PFHxS	375-92-8
Perfluoropentanesulfonic Acid	PFPeS	355-46-4
Perfluorobutanesulfonic Acid	PFBS	2706-91-4
	FFBS	375-73-5
FLUOROTELOMERS	40.0000	
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		0.0000
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	4401 05201140	700054 00 0
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
3-CHIOLOHEYane (91100.0-2-OX9HOHE-1-20HOHIC ACIO	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

LOD

MS

MSD

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.

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.

- 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.)

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.

- 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

10001000

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 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, Benza(b)fluoranthene, Benza(j)+(k)fluoranthene, Benza(e)pyrene, Benza(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenza(h)+(ac)anthracene, Benza(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.
- 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.
- 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 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: L2009619

Report Date: 03/16/20

Data Qualifiers

than 5x the RL. (Metals only.)

 $R \hspace{1cm} \hbox{- Analytical results are from sample re-analysis.} \\ RE \hspace{1cm} \hbox{- Analytical results are from sample re-extraction.} \\$

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name:

Not Specified

42001382

Lab Number:

L2009619

Project Number:

Report Date:

03/16/20

REFERENCES

Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase 122 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.

EPÁ 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-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, 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

315 Fullerion Avenue

Newburgh, NY 12550

315/20

Chain of Custody Record

2009619 Serial_No:03162011:25

Envirolest Laboratories Inc.

Client Information (Sub Contract Lab)	Sampler				th PM ayer, Debra Mas bayer@envirotestiaboratories.com			Camer Irrading Noise		COC.No 420-11699 1	
Derti Contact Shipping/Receiving	Frare							Page Page 1 of 1			
Alpha Analytical				1000	70.00	TO DESTRUCTO		Requested		S1L Job # 420-168400-1	
daress	Due Date Request	ed:								Preservation Codes:	
Walkup Drive,	3/12/2020									A - HCL M - Hexane	
ily	TAT Requested (d	ays):								B NaOH N None	
Westborough	Stal	70.7								C - Zn Acetale	
MA, 01581	3,0	1 1-4.1	3/7/31	5	100					E-NaHS04 Q-Na2S03	
Thorse	PO#			23	148					F - MeOH R - Na2S2S03 G - Artichlor S - H2SO4	
				0.0	ĝ	<u> </u>				H - Ascorbic Acid T - TSP Dodecative	
mar	WO a				or No	and PFOS				I - Ice U - Acetone J - Di Water V - MCAA	
Project Name	Project #				- 8	# E				K-EDTA W-ph 4-5	
/illage of Nyack Water Department	42001382				٥	ŏ O			重	L-EDA Z-other (specify)	
ile	SSOV#			_	ашы	7			of con	Other:	
			Sample	Matrix	paie	SUBCONTRACT! PFOA			Total Number of containers	AMSoles	
		Carrel	Туре	(Winseler, Broats)	D F	8			ž	M Sples 3/3/200 Special Instructions/Note:	
Comple Identification (Client ID (Lab ID)	Sample Date	Sample Time	(C=comp,	O-maradal.	Ě	5			클	Special Instructions Moles	
Sample Identification Client ID (Lab ID)	Sample Date	1111111		tion Code:	N/V				V	Special tristi detions reote	
Intake (420-168400-1)	3/2/20	10:00	De	Water		x			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	1	Water		x			1	Trizma	
										31212- 23	
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Possible Hazard Identification					San	ple Dispo	sal (A fee may	be assessed if sample	are retain	ed longer than 1 month)	
Non-Hazard Flammable Skin Irritant	Parson B Unite	nown	Radiologica	eí		Return 1	o Client	Disposal By Lab	Arci	nive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)					Spe	cial Instruc	tions/QC Require	ments			
K-F		Data			Tager		-1 -7	Method of Shipme	nt		
Empty Kit Relinquished by		Date:			Time		1//	A			
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ordinationally 12-4	DateItime	141	5	Сопралу	1	TVD BY	Jem 6h	vella 3%		11:46 Correct	
Sung Med by last	The Turned	21	111	Coorlany	1	Received by	011	Natrati	14/20	200 PAIL	
Custody Seals Intact: Custody Seal No:	7 1/36	7/1	t	176		Cooler Tempe	erature(s) *C and Om	ar Flamarks	11/00	200 MAL	

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 - Mansfield 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 - 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 imits
Perfluorinated Alkyl Acids by EPA 537 - I	Mansfield Lab Assoc	iated sample(s): 01-04 Batc	h: WG141	2759-2 WG1412	759-3		
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	



Project Name: VILLAGE OF NYACK WATER DEPT.

Project Number: 42001382 Report Da

Lab Number: L2038494 **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	рН	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

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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.

Analyte Perfluorooctanoic acid			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 proceed in the 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

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330-8485-1)	10/13/20	Eastern		rinking Water		X									2	o day turnaround a	pproved by in	e lab
(630-8485-2)	10/13/20	11:37 Eastern		rinking Wate			x								1	5 day turnaround a	pproved by th	ie lab
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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

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.
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- · 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 12:55:18 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

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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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5

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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	Carrier Tracking No(s):				COC No: 630-2926.1		
Client Information (Sub Contract Lab)				Dou E-Ma		nerty, Erin					State of Origin:				Page:			
Rent Contact	Phone:											New York				Page 1 of 1		
hipping/Receiving ompany:					Accreditations Required (See note): NELAP - New Jersey										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							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 P - Na2O4S	
ate, Zp: A, 17601					PFOS	PF08 (D - Nitric Acid E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3		
none: 17-656-2300(Tel)	PO#:				(0)	PFOA,	PFOA, PFOS (Hold)									G - Amohlar H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydra U - Acetone	
mali:	WD#:				s or No)	PFNA, F	FNA, F								15	J - DI Water	V - MCAA 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, 8*solid, Ownastaloli, 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	
		100000000000000000000000000000000000000																
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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		andinger to accommo		
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liverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:					ii isti U	CUCION	ao ne	quile		-						
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elinquished by:	Date/Time:			Company		Rece	ived by	4	-				Dal	te/Time:			Company	
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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.

2

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.

Authority	Program	Identification Number	Expiration Date
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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		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
Possible Hazard Identification						Sai					may b	_			nples a			d longer than 1		
Unconfirmed						۲			To Clie				osal B	/ Lab		Arc	chiv	ve For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1			Spe	ecial	Instruc	ctions/	QC Re	equire	ments:								
Empty Kit Relinquished by://		Date:			Ti	me:							Metho		hipment:					
Relinquished by:	Date/Time:	121 1	535	Company			Rece	ived by:	:	1					Date/Time				Company	
Relinquished by:	Date/Time:			Company			Rece	eived by:		,					Date/Time				Company	
Relinquished by:	Date/Time:			Company				eived by	lon	#	1				Date/Time	101	2	2245	Company	
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

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-17130-1

Client Project/Site: PFC

Sampling Event: Quarterly PFC, Dioxane

Revision: 1

For:

eurofins 🔆

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

Attn: Gilbert Francois

Authorized for release by: 7/9/2021 12:08:38 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.

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.</p>

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

7/9/2021 12:08:38 PM

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

REVISION

The report being provided is a revision of the original report sent on 5/20/2021. The report (revision 0) is being revised due to .

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

Method 537.1_DW: The recovery for a target analyte(s) in the laboratory control spike(s) associated with the following sample(s): POE, Lab Sink (630-17130-1) and Field Blank (630-17130-2) is outside the QC acceptance limits.

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 ID
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	

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC

Client Sample ID: POE, Lab Sink

Date Collected: 05/10/21 13:25 Date Received: 05/10/21 15:10

Lab Sample ID: 630-17130-1

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 Result Qualifier RL **MDL** Unit **Analyte** Analyzed Dil Fac Analyst DCS9 Perfluorohexanoic acid 1.8 0.45 ng/L 05/20/21 05:00 3.4 1 DCS9 Perfluoroheptanoic acid 2.4 1.8 0.45 ng/L 05/20/21 05:00 Perfluorooctanoic acid 6.8 1.8 0.45 ng/L 05/20/21 05:00 1 DCS9 0.45 ng/L Perfluorononanoic acid 1.8 05/20/21 05:00 1 DCS9 1.3 Perfluorodecanoic acid ND 1.8 0.45 ng/L 05/20/21 05:00 DCS9 Perfluorotridecanoic acid ND 18 0.45 ng/L 05/20/21 05:00 1 DCS9 Perfluorotetradecanoic acid ND 1.8 0.45 ng/L 05/20/21 05:00 DCS9 05/20/21 05:00 1 DCS9 Perfluorobutanesulfonic acid 2.1 18 0.45 ng/L Perfluorohexanesulfonic acid 3.0 1.8 0.45 ng/L 05/20/21 05:00 DCS9 Perfluorooctanesulfonic acid 1.8 0.45 ng/L 05/20/21 05:00 1 DCS9 5.1 **NEtFOSAA** ND 1.8 0.45 ng/L 05/20/21 05:00 1 DCS9 **NMeFOSAA** ND 1.8 0.45 ng/L 05/20/21 05:00 1 DCS9 Perfluoroundecanoic acid ND 1.8 0.45 ng/L 05/20/21 05:00 DCS9 Perfluorododecanoic acid ND 1.8 0.45 ng/L 05/20/21 05:00 DCS9 **HFPODA** DCS9 ND 1.8 0.45 ng/L 05/20/21 05:00 9CI-PF3ONS 0.45 ng/L DCS9 ND 1.8 05/20/21 05:00 11CI-PF3OUdS ND 1.8 0.45 ng/L 05/20/21 05:00 DCS9 **DONA** ND 1.8 0.45 ng/L 05/20/21 05:00 DCS9 Surrogate Qualifier Limits Dil Fac Analyst %Recovery Analyzed 13C2 PFDA 90 70 - 130 05/20/21 05:00 DCS9 79 70 - 130 13C2 PFHxA 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

Lab Sample ID: 630-17130-2

Matrix: Drinking Water

Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluoroheptanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
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
Perfluorodecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorotridecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorotetradecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorobutanesulfonic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorohexanesulfonic 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
NEtFOSAA	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
NMeFOSAA	ND *-	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluoroundecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
Perfluorododecanoic acid	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
HFPODA	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
9CI-PF3ONS	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
11CI-PF3OUdS	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9
DONA	ND	1.7	0.43	ng/L		05/20/21 05:11	1	DCS9

Eurofins QC, LLC - Horsham, PA

Client Sample Results

Client: Village of Nyack Water Treatment Plant Job ID: 630-17130-1

Project/Site: PFC

Client Sample ID: Field Blank Lab Sample ID: 630-17130-2

Date Collected: 05/10/21 13:26 Matrix: Drinking Water
Date Received: 05/10/21 15:10

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.

uthority	Pro	gram	Identification Number	Expiration Date
lew York	NEL	.AP	10670	04-01-22
The following analyte	s are included in this repor	t, but accreditation/certificat	ion is not offered by the governing	authority:
Analysis Method	Prep Method	Matrix	Analyte	
EPA 537.1	537.1 DW Prep	Drinking Water	11CI-PF3OUdS	
EPA 537.1	537.1 DW Prep	Drinking Water	9CI-PF3ONS	
EPA 537.1	537.1 DW Prep	Drinking Water	DONA	
EPA 537.1	537.1 DW Prep	Drinking Water	HFPODA	
EPA 537.1	537.1 DW Prep	Drinking Water	NEtFOSAA	
EPA 537.1	537.1 DW Prep	Drinking Water	NMeFOSAA	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorobutanesulfonic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorodecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorododecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluoroheptanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanesulfonic acid	1
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorononanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorotetradecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorotridecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluoroundecanoic acid	

Qualifiers

LCMS

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
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

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Job ID: 6

Project/Site: PFC

RER

RL

Job ID: 630-17130-1

Glossary (Continued)

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

RPD Relative Percent Difference, a measure of the relative difference between two points
TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	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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Picksheet: P7247974 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 Route: 4 SARA CAMACHO	Expected: MONDAY 04/05/21 - 06 Project Name: VILLAGE OF NYACK WATER TO 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 Said Samping to be Carry in May Pwsid: Pwsid: Call him before	REATMENT PLANT	# HNO3 pF	L Vials #etate pH						
	call him botore.	s e C C u H o o	# DI Water Collection	Collection Time To	otal [Tests By:	P.D.o.	/Time:	
7247974-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, PFC		d P I I	Shold	(Military)#		Free CI2 mg/L	pH/TempC	BR2 _YES/NO	Total CL2 mg/L	
7247974-2 FIELD BLANK PFC 			5/10/21	13:26	١					
			630-17130	Chain of Custod						
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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 F Dou	om: ghert	y, E	rin					Car	mer Tra	cking	No(s)				OC No: 30-4643.1				
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Village of Nyack Qtly PFC					120	MS/MSD (Yes or No)	불발										r of						_
			1 Sample	Matrix		MS	537.1_DW/537.1_DW_Prep PFNA, PFOA, PFOS	1									Total Number						
			, ype	W-water, S-solid,		E		_									2						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, o	waste/oil,	Field	Perform	537.1	운									Tota	3	Speci	al ins	truction	s/Note:	
Sample Identification - Glieste 15 (Edb 15)		><	Preservation		X	X				900		18 88	100		E 17.4		×	1					
POE, Lab Sink (630-17130-1)	5/10/21	13:25 Eastern	rini	ing Wat	1		х										2	5 0	day turnaro	und at	proved b	y the lab	
Field Blank (630-17130-2)	5/10/21	13:26)rin)	ing Wat			;	<								\neg	1	5 0	day tumaro	und ar	proved b	y the lab	_
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Nyack Water Department

2021 QUARTER 2 SAMPLING REPORT

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-21256-1 Client Project/Site: PFC, Dioxane

Sampling Event: Quarterly PFC, Dioxane

For:

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

Attn: Gilbert François

Authorized for release by: 10/6/2021 3:10:06 PM

Erin Dougherty, Project Administrator (215)355-3900

Erin.Dougherty@eurofinset.com

.....LINKS

Review your project results through

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.

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

10/6/2021 3:10:06 PM

Case Narrative

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Job ID: 630-21256-1

Job ID: 630-21256-1

Laboratory: Eurofins QC, LLC - Horsham, PA

Narrative

Job Narrative 630-21256-1

Receipt

The samples were received on 8/26/2021 3:26 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 1.5°C

PFAS

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

Eurofins QC, LLC – Horsham, PA 10/6/2021

Sample Summary

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

Job ID: 630-21256-1

	Client Sample ID	Matrix	Collected	Received		
630-21256-1	POE, Lab Sink	Drinking Water	08/26/21 09:50	08/26/21 15:26		
630-21256-2	Field Blank	Drinking Water	08/26/21 09:47	08/26/21 15:26		

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Client Sample ID: POE, Lab Sink

Date Collected: 08/26/21 09:50 Date Received: 08/26/21 15:26 Lab Sample ID: 630-21256-1

Matrix: Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	4.6		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluoroheptanoic acid	3.7		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorooctanoic acid	7.7		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorononanoic acid	1.4	J	1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorodecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorobutanesulfonic acid	2.6		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorohexanesulfonic acid	2.0		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorooctanesulfonic acid	4.9		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
NEtFOSAA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
NMeFOSAA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
HFPODA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
9CI-PF3ONS	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
11CI-PF3OUdS	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
DONA	ND		1.8	0.44	ng/L		09/02/21 11:37	1	Y6ZN
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analysi
13C2 PFDA	115		70 - 130				09/02/21 11:37	1	Y6ZN
13C2 PFHxA	103		70 - 130				09/02/21 11:37	1	Y6ZN
13C3 HFPO-DA	99		70 - 130				09/02/21 11:37	1	Y6ZN
d5-NEtFOSAA	106		70 - 130				09/02/21 11:37	1	Y6ZN

Client Sample ID: Field Blank

Date Collected: 08/26/21 09:47 Date Received: 08/26/21 15:26 Lab Sample ID: 630-21256-2

. Matrix: Drinking Water

Analyte	Result Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	ND -	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluoroheptanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorooctanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorononanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorodecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorotridecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorotetradecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorobutanesulfonic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorohexanesulfonic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorooctanesulfonic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
NEtFOSAA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
NMeFOSAA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluoroundecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
Perfluorododecanoic acid	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
HFPODA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
9CI-PF3ONS	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
11CI-PF3OUdS	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN
DONA	ND	1.8	0.46	ng/L		09/02/21 11:49	1	Y6ZN

Eurofins QC, LLC - Horsham, PA

Client Sample Results

Client: Village of Nyack Water Treatment Plant Job ID: 630-21256-1

Project/Site: PFC, Dioxane

Client Sample ID: Field Blank Lab Sample ID: 630-21256-2

Date Collected: 08/26/21 09:47
Date Received: 08/26/21 15:26

Matrix: Drinking Water

Surrogate	%Recovery Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	107	70 - 130	09/02/21 11:49	1	Y6ZN
13C2 PFHxA	108	70 - 130	09/02/21 11:49	1	Y6ZN
13C3 HFPO-DA	102	70 - 130	09/02/21 11:49	1	Y6ZN
d5-NEtFOSAA	113	70 - 130	09/02/21 11:49	1	Y6ZN

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Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Job ID: 630-21256-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
EPA 537.1	537.1 DW Prep	Drinking Water	11CI-PF3OUdS	_
EPA 537.1	537.1 DW Prep	Drinking Water	9CI-PF3ONS	
EPA 537.1	537.1 DW Prep	Drinking Water	DONA	
EPA 537.1	537.1 DW Prep	Drinking Water	HFPODA	
EPA 537.1	537.1 DW Prep	Drinking Water	NEtFOSAA	
EPA 537.1	537.1 DW Prep	Drinking Water	NMeFOSAA	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorobutanesulfonic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorodecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorododecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluoroheptanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanesulfonic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorononanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorotetradecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorotridecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluoroundecanoic acid	

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

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Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Job ID: 630-21256-1

Glossary (Continued)

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

PRES Presumptive
QC Quality Control

PQL

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Practical Quantitation Limit

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

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10/6/2021

Method Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Job ID: 630-21256-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	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

Furnting (JC, 11C)	Expected: MONDAY 08/02/21 - 0 Project Name: VILLAGE OF NYACK WATER 1 Start Date: 02/19/21 Stop Date: Comments/Schedule Details: CALL GILBERT TO SCHEDULE PRIO SAMPLING: PLANT 845-358-3734, OI 845-597-5424	REATMENT PLANT ## R TO ##	LAB USE ONLY Ascorbic/HCL V NA2S2O3 NaOH/Zn acete HNO3 pH H2SO4 pH NaOH pH Unpreserved HCL NH4CL MEOH		pe HCL Vials	630-21256 Chain of C	Custody	
Route: 4	PWSID:	P # # # # # # # # # # # # # # # # # # #	Na2SO3/HCL DI Water		Fiel	Tests By: CGP/ER	/Time:	
		u H o o d P I I o C i i		Collection Time Total (Military) # Bott	Free Cl2	pH/TempC PES/NO	Total CL2	7
7263525-1 PFC) POE, LAB SINK 29-PFAS SAMP NON MUN, DIOXANE, PFC				9:50	3			
7263525-2 FIELD BLANK PFC								
FIELD WORK CODE:			8126/21	9:47	1			
						Cooler ID:		
Sample Collected By Circle One Client Client Time		Required TAT: Standar Time Date		ced Y/N Site	Initials CGP	Comments (reporting, r	methods, etc) Runds need to be	

Sample Collected By	Circl	e One	Initials				D. vivati	TAT: Standard	/Db # D			
CritinPadden	Client	EQC	CGP		,							
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M: 07:00-17:00 T: 07:00-17:00 W: 0 M: - T: - W: - Th:	7:00-17:00 Th - F:		F: 07:00-17:00 - Sn: -	St: -	Sn:	- Printed	08/13/21 GF	PS X:	Y	:		
PM:												

Hazardous Y/N

Eurofins QC, LLC - Horsham, PA

213 Witmer Road

Horsham, PA 19044-0962

Chain of Custody Record



💸 eurofins

Environment Testing America

Phone: 215-355-3900 Fax: 888-785-8567																							
Client Information (Sub Contract Lab)	Sampler:						PM: gherty, Erin						Carrier Tracking No(s):					COC No: 630-5646.1					
Client Contact: Shipping/Receiving	Phone:													State of Origin: New York				Page: Page 1 of 1	1				
Company: Eurofins Lancaster Laboratories Environm								Accreditations Required (See note): NELAP - New York												Job #: 630-21256-1			
Address:	Due Date Requeste	ed:								A1.	!_ F	3	4 -					Preservatio	n Cod	es :			
2425 New Holland Pike, City:	9/9/2021				-		_	-		Analy	/SIS F	Requ	ieste	a	1 1		1	A - HCL		M - Hexane			
Lancaster State, Zip:	TAT Requested (da	iys):				of 18											4	B - NaOH C - Zn Acetal D - Nitric Acid		N - None O - AsNaO2 P - Na2O4S			
PA, 17601						00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E List	5									5	E - NaHSO4		Q - Na2SO:	3	
Phone: 717-656-2300(Tel)	PO #:		-		6		637.1	637.1										F - MeOH G - Amchlor H - Ascorbic	Acid	R - Na2S20 S - H2SO4 T - TSP Doo			
Email:	WO #:				SorN	or No)	WEPA	WEPA									2	I - Ice J - DI Water		U - Acetone V - MCAA			
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Site: Village of Nyack Qtly PFC	SSOW#:				Samp	Y) dSi ya a a a a a a a a a a a a a a a a a a									of co	Other:							
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Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air	Ě		637	(F 63)		\perp					\perp		٩	Spec	ial In:	structions	/Note:		
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POE, Lab Sink (630-21256-1)	8/26/21	09:50 Eastern		rinking Wat			х										2						
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Note: Since laboratory accreditations are subject to change, Eurofins QC currently maintain accreditation in the State of Origin listed above for ana brought to Eurofins QC, LLC – Horsham, PA attention immediately. If all	alysis/tests/matrix being analy	zed, the same	ples must be sh	ipped back to I	he Eur	rofins	s QC	LLC -	Horsha	am, PA	laborato	ory or o	other in:	struction	ns will be	e provide	varded ed. An	y changes to a	-custod ccredita	ly. If the labo	ratory does not rould be		
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Nyack Water Department

2021 QUARTER 4 SAMPLING REPORT



Environment Testing America

ANALYTICAL REPORT

Eurofins QC, LLC – Horsham, PA 213 Witmer Road Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-24208-1 Client Project/Site: PFC, Dioxane

Sampling Event: Quarterly PFC, Dioxane

For:

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

Attn: Gilbert Francois

nicki Smith

Authorized for release by: 12/1/2021 10:16:50 AM Nicki Smith, Environmental Administration Manager (215)355-3900 Nicolette.Smith@eurofinset.com

Designee for

Erin Dougherty, Project Administrator (215)355-3900

Erin.Dougherty@eurofinset.com



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Total Access

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www.eurofinsus.com/Env

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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.

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 Jacqueline Gartner (Water Microbiology).

Micki Smith

Nicki Smith **Environmental Administration Manager** 12/1/2021 10:16:50 AM

Page 2 of 21

12/1/2021

Case Narrative

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Job ID: 630-24208-1

Job ID: 630-24208-1

Laboratory: Eurofins QC, LLC - Horsham, PA

Narrative

Job Narrative 630-24208-1

Comments

No additional comments.

Receipt

The samples were received on 11/11/2021 4:45 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 was 2.8° C.

LCMS

Method 537.1 DW: The recovery recovery for the internal standard peak area(s) and surrogate(s) in the following sample: Field Blank (630-24208-2) is outside the QC acceptance limits. Sufficient sample was 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.

Organic Prep

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

Subcontract Work

Method 522 - EPA - EPA 522 - 1,4-Dioxane: This method was subcontracted to Eurofins Eaton Analytical - Monrovia. The subcontract laboratory certification is different from that of the facility issuing the final report.

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Eurofins QC, LLC – Horsham, PA 12/1/2021

Sample Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Lab Sample ID Client Sample ID Matrix Collected Received 11/11/21 09:30 11/11/21 16:45 630-24208-1 POE, Lab Sink Drinking Water 630-24208-2 Field Blank Drinking Water 11/11/21 09:27 11/11/21 16:45 Job ID: 630-24208-1

Lab Sample ID: 630-24208-1 Client Sample ID: POE, Lab Sink

Date Collected: 11/11/21 09:30 **Matrix: Drinking Water** Date Received: 11/11/21 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Perfluorohexanoic acid	5.1		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluoroheptanoic acid	3.5		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorooctanoic acid	7.9		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorononanoic acid	1.5	J	1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorodecanoic acid	0.46	J	1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorotridecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorotetradecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorobutanesulfonic acid	2.6		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorohexanesulfonic acid	2.4		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorooctanesulfonic acid	5.4		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
NEtFOSAA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
NMeFOSAA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluoroundecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Perfluorododecanoic acid	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
HFPODA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
9CI-PF3ONS	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
11CI-PF3OUdS	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
DONA	ND		1.8	0.45	ng/L		11/15/21 21:38	1	VK3G
Surrogate	%Recovery	Qualifier	Limits				Analyzed	Dil Fac	Analyst
13C2 PFDA	109		70 - 130				11/15/21 21:38	1	VK3G
13C2 PFHxA	92		70 - 130				11/15/21 21:38	1	VK3G
13C3 HFPO-DA	88		70 - 130				11/15/21 21:38	1	VK3G
d5-NEtFOSAA	92		70 - 130				11/15/21 21:38	1	VK3G

Client Sample ID: Field Blank Lab Sample ID: 630-24208-2 Date Collected: 11/11/21 09:27 **Matrix: Drinking Water**

Date Received: 11/11/21 16:45 Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 Result Qualifier Analyte RL **MDL** Unit Analyzed Dil Fac Analyst Perfluorohexanoic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G Perfluoroheptanoic acid ND 1.9 11/15/21 21:50 1 VK3G 0.47 ng/L Perfluorooctanoic acid ND 1.9 0.47 ng/L 11/15/21 21:50 VK3G Perfluorononanoic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G Perfluorodecanoic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G Perfluorotridecanoic acid ND 1 VK3G 1.9 0.47 ng/L 11/15/21 21:50 Perfluorotetradecanoic acid ND 1.9 0.47 ng/L 11/15/21 21:50 VK3G Perfluorobutanesulfonic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G Perfluorohexanesulfonic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G Perfluorooctanesulfonic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G **NEtFOSAA** ND 1.9 0.47 ng/L 11/15/21 21:50 VK3G **NMeFOSAA** VK3G ND *3 1.9 0.47 ng/L 11/15/21 21:50 Perfluoroundecanoic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G Perfluorododecanoic acid ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G **HFPODA** ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G 9CI-PF3ONS ND 1.9 0.47 ng/L 11/15/21 21:50 VK3G 11CI-PF3OUdS ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G **DONA** ND 1.9 0.47 ng/L 11/15/21 21:50 1 VK3G

Eurofins QC, LLC - Horsham, PA

Client Sample Results

Client: Village of Nyack Water Treatment Plant Job ID: 630-24208-1

Project/Site: PFC, Dioxane

Client Sample ID: Field Blank Lab Sample ID: 630-24208-2

Date Collected: 11/11/21 09:27 Matrix: Drinking Water
Date Received: 11/11/21 16:45

Surrogate	%Recovery Qualifier	Limits	Analyzed	Dil Fac	Analyst
13C2 PFDA	107	70 - 130	11/15/21 21:50	1	VK3G
13C2 PFHxA	72	70 - 130	11/15/21 21:50	1	VK3G
13C3 HFPO-DA	68 S1-	70 - 130	11/15/21 21:50	1	VK3G
d5-NEtFOSAA	97 *3	70 - 130	11/15/21 21:50	1	VK3G

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Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Job ID: 630-24208-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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Analysis Method	Prep Method	Matrix	Analyte	
EPA 537.1	537.1 DW Prep	Drinking Water	11CI-PF3OUdS	
EPA 537.1	537.1 DW Prep	Drinking Water	9CI-PF3ONS	
EPA 537.1	537.1 DW Prep	Drinking Water	DONA	
EPA 537.1	537.1 DW Prep	Drinking Water	HFPODA	
EPA 537.1	537.1 DW Prep	Drinking Water	NEtFOSAA	
EPA 537.1	537.1 DW Prep	Drinking Water	NMeFOSAA	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorobutanesulfonic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorodecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorododecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluoroheptanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanesulfonic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorohexanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorononanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorotetradecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluorotridecanoic acid	
EPA 537.1	537.1 DW Prep	Drinking Water	Perfluoroundecanoic acid	
•				

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	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)

12/1/2021

Accreditation/Certification and Definitions Summary

Client: Village of Nyack Water Treatment Plant

Job ID:

Project/Site: PFC, Dioxane

Job ID: 630-24208-1

Glossary (Continued)

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

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

Method Summary

Client: Village of Nyack Water Treatment Plant

Project/Site: PFC, Dioxane

Job ID: 630-24208-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
522	EPA 522 - 1,4-Dioxane	EPA	Eaton-Mon
537.1 DW Prep	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

Eaton-Mon = Eurofins Eaton Analytical - Monrovia, 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016, TEL (626)386-1100 ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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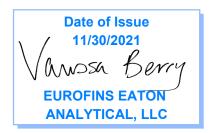
ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.

750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Eurofins QC, LLC 213 Witmer Road Horsham, PA 19044 Attention: Nicki Smith Fax: 215-392-0626



ZIA8: Vanessa Berry

Project Manager



Report: 970748

Project: SUBCONTRACT Group: 1,4-Dioxane

- * Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
- * Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.
- * As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
- * Test results relate only to the sample(s) tested.
- * Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
- * This report shall not be reproduced except in full, without the written approval of the laboratory.
- * This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

Eaton Analytical

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA000062018
California	2813	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-18-15
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264
Mississippi	Certified		

* NELAP/TNI Recognized Accreditation Bodies

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The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/A2LA.
Refer to Certificate and scope of accreditation (5890) found at: https://www.eurofinsus.com/Eaton

	Refer to Certificate			
SPECIFIC TESTS	METHOD OR TECHNIQUE USED	mental (Drinking Water)	mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	х		х
1,4-Dioxane	EPA 522	х		х
2,3,7,8-TCDD	Modified EPA 1613B	х		х
Acrylamide	In House Method (2440)	х		х
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	х	Х	х
Ammonia	EPA 350.1		Х	х
Ammonia	SM 4500-NH3 H		Х	х
Anions and DBPs by IC	EPA 300.0	х	Х	х
Anions and DBPs by IC	EPA 300.1	х		Х
Asbestos	EPA 100.2	х	x	
BOD / CBOD	SM 5210B		Х	Х
Bromate	In House Method (2447)	х		х
Carbamates	EPA 531.2	Х		х
Carbonate as CO3 Carbonyls	SM 2330B EPA 556	X X	х	X X
Ť		^		^
COD	EPA 410.4 / SM 5220D	ļ	Х	
Chloramines	SM 4500-CL G	X	Х	X
Chlorinated Acids	EPA 515.4	X		X
Chlorinated Acids	EPA 555 SM 4500-CLO2 D	х		х
Chlorine Dioxide	Palin Test	х		х
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	х	x	х
Conductivity	EPA 120.1		х	
Conductivity	SM 2510B	х	х	Х
Corrosivity (Langelier Index)	SM 2330B	х		х
Cyanide, Amenable	SM 4500-CN G	х	Х	
Cyanide, Free	SM 4500CN F	х	Х	х
Cyanide, Total	EPA 335.4	х	Х	х
Cyanogen Chloride (screen)	In House Method (2470)	х		х
Diquat and Paraquat	EPA 549.2	х		х
DBP/HAA	SM 6251B	х		х
Dissolved Oxygen	SM 4500-O G		Х	х
DOC	SM 5310C	х		x
E. Coli	(MTF/EC+MUG)	х		x
E. Coli	CFR 141.21(f)(6)(i)	х		х
E. Coli	SM 9223		х	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	х		х
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	х		х
EDTA and NTA	In House Method (2454)	х		х
Endothall	EPA 548.1	х		х
				_
Endothall Enterococci	In-house Method (2445) SM 9230B	X X	х	X
			Α	
Fecal Coliform Fecal Coliform	SM 9221 E (MTF/EC) SM 9221C, E (MTF/EC)	х	x	
Fecal Coliform	SM 9221E (MTF/EC)	x		х
(Enumeration) Fecal Coliform with				
Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	х	х	1
Fluoride	SM 4500-F C	x	x	х
Glyphosate	EPA 547	х		х
Glyphosate + AMPA	In House Method (3618)	х		х
Gross Alpha/Beta	EPA 900.0	х	х	х
Gross Alpha Coprecipitation	SM 7110 C	х	х	х
Hardness	SM 2340B	х	х	х
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	х	•	х
ricterotropine Bacteria				

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	environ- mental (Drinking Water)	mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	х		х
Hexavalent Chromium	SM 3500-Cr B		х	
Hormones	EPA 539	х		х
Hydroxide as OH Calc.	SM 2330B	х		х
Kjeldahl Nitrogen	EPA 351.2		Х	
Legionella Mercury	Legiolert EPA 200.8	X X		x x
Metals	EPA 200.7 / 200.8	X	х	×
Microcystin LR	ELISA (2360)	х		х
Microcystin, Total	EPA 546	Х		х
NDMA	EEA/Agilent 521.1 In house method (2425)	х		х
Nitrate/Nitrite Nitrogen	EPA 353.2	X	Х	X
OCL, Pesticides/PCB Ortho Phosphate	EPA 505 EPA 365.1	x x	х	x x
Ortho Phosphorous	SM 4500P E	X		x
Oxyhalides Disinfection Byproducts	EPA 317.0	х		х
Perchlorate	EPA 331.0	Х		х
Perchlorate (low and high)	EPA 314.0	X		X
Perfluorinated Alkyl Acids Perfluorinated Polutant	EPA 537 In house Method (2434)	x x		x x
pH	EPA 150.1	X		^
pH	SM 4500-H+B	х	х	х
Phenylurea Pesticides/	In House Method, based on EPA	х		х
Herbicides Pseudomonas	532 (2448) IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228 Radon-222	GA Institute of Tech SM 7500RN	x x		x x
Residue, Filterable	SM 2540C	X	х	x
Residue, Non-filterable	SM 2540D		х	
Residue, Total	SM 2540B		Х	х
Residue, Volatile	EPA 160.4		х	
Semi-VOC	EPA 525.2	X		х
Silica Silica	SM 4500-Si D SM 4500-SiO2 C	X	Х	
		Х	Х	
Sulfide	SM 4500-S ⁼ D		х	
Sulfite	SM 4500-SO ³ B	х	Х	х
Surfactants	SM 5540C	Х	Х	х
Taste and Odor Analytes Total Coliform (P/A)	SM 6040E SM 9221 A, B	x x		x x
Total Coliform	SM 9221 A, B, C	X		x
(Enumeration) Total Coliform / E. coli	Colisure SM 9223	х		x
Total Coliform	SM 9221B	Α	х	^
Total Coliform with Chlorine Present			х	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	х		х
TOC	SM 5310C	х	х	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		х	
Total Phenols	EPA 420.4	х	х	х
Total Phosphorous	SM 4500 P E		х	
Triazine Pesticides &	In House (3617)	x		x
Degradates Typhidity	i i			
Turbidity Turbidity	EPA 180.1 SM 2130B	X X	x x	х
Uranium by ICP/MS	EPA 200.8	X	^	x
UV 254	SM 5910B	x		-
VOC VOC	EPA 524.2	X		X X
Yeast and Mold	In House Method (2411) SM 9610	x x		
Field Sampling	N/A	^		Х

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 https://www.eurofinsus.com/Eaton Version 006 Issued: 05/04/20



Acknowledgement of Samples Received

Addr: Eurofins QC, LLC 213 Witmer Road Horsham, PA 19044

Client ID: EUROFINS-QCLLC Folder #: 970748 Project: SUBCONTRACT Sample Group: 1,4-Dioxane

Attn: Nicki Smith Phone: 215.355.3900x3360 Project Manager: Vanessa Berry Phone: 503-310-3905

PO #: 630-24208-1

The following samples were received from you on November 18, 2021 at 15:47. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample # Sample ID Sample Date

202111190051 POE Lab Sink 11/11/2021 0930

Variable ID: 630-24208-1

@Dioxane_70ppt

Test Description

@Dioxane_70ppt -- @DIOXANE_0.07PPB

Reported: 11/30/2021 Page 1 of 1

Eurofins Environment Testing Philadelphia 213 Witmer Road Horsham, PA 19044-0962 Phone: 215-355-3900 Fax: 888-785-8567	とう	hain o	f Cus	Chain of Custody Record	scord						*	Seurofins Environ	Environment Testing
Client Information (Sub Contract Lab)	Sampler:			Lab PM: Dough	Lab PM: Dougherty, Erin			Carr	Carrier Tracking No(s):	No(s):	COC No: 630-63(COC No: 630-6303.1	
Client Contact: Shipping/Receiving	Phone:			E-Mail: Erin.D	E-Mail: Erin.Dougherty@eurofinset.com	eurofinset.c	mox	Stat	State of Origin: New York		Page: Page	Page: Page 1 of 1	
Company: Eurofins Eaton Analytical				42	Accreditations Required (See note): NELAP - New York	Required (See	a note):				Job #: 630-2	Job #: 630-24208-1	
Address: 750 Roval Oaks Drive. Suite 100.	Due Date Requested: 11/29/2021	:pc				`	Analysis Requested	Reque	sted		Prese	Preservation Codes:	des:
	TAT Requested (days):	ays):										A - noc. B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4	M - Nexalle N - None O - AsNaO2 P - Na2O4S Q - Na2SO3
Phone: 626-386-1100(Tel)	PO#:										G - A	F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Email:	WO #:				(oN						Lambour 1	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: PFC, Dioxane	Project #: 63003671				10 S9						K - EDTA	OTA DA	W - pH 4-5 Z - other (specify)
Site: Village of Nyack Otly PFC	SSOW#:				Y) ası						of col		
Sample Identification . Client ID (I ah ID)	Sample Date	Sample	Sample Type (C=comp, G=crab)	(W=water, S=solid, O=waste/oil, HT=Thema A=Ak)	Field Filtered Perform MS/M A93 - E98						nedmuM IstoT	Special In	Special Instructions/Note:
	X	X			X						.×		
POE, Lab Sink (630-24208-1)	11/11/21	09:30 Eastern		Drinking Wate	×						-		
				-									
				-									
	ut pr												
Note: Since laboratory accreditations are subject to change, Eurofins QC, LLC – Horsham, PA places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does no currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins QC, LLC – Horsham, PA laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins QC, LLC – Horsham, PA attention immediately. If all requested accreditations are current to date, return the signed Chain of Ouslody attesting to said complicance to Eurofins QC, LLC – Horsham, PA.	2 – Horsham, PA places tests/matrix being analy ested accreditations are	the ownership zed, the sample current to date	of method, and se must be shi , return the sig	alyte & accredita pped back to the gned Chain of Cu	ion compliance Eurofins QC, I stody attesting	e upon out su LLC – Horsha to said comp	bcontract lal am, PA labor dicance to E	oratories. T atory or othe rrofins QC, I	his sample s r instructions LC – Horsha	hipment is fo will be provi am, PA.	rwarded under cl	chain-of-custodes to accredite	 If the laboratory does n ation status should be
Possible Hazard Identification				=	Sample I	Disposal (A fee may	be asse	assessed if san	nples are	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	ger than 1	month)
Oncomment Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	able Rank: 1			Special Ir	Special Instructions/QC Requirements	QC Requi	rements:	sai Dy Lak		D. PAILOR		Signal Si
Empty Kit Relinquished by:		Date:		13	Time:		1		Method of Shipment:	Shipment:			
Relinquished by	Date/Time: 11/17/21	1300		Company	Received by:	ed by:	3	_		Date/Time:			Company
Relinquished by:	Date/Time:			Company	Received by	Sed By:	\	(Date/Time:	1 /2	647	Company
Relinquished by:	Date/Time:			Company	Received by:	edeby:				Date/Time:			Company
Custody Seals Intact: Custody Seal No.:					Cooler	Cooler Yemperature(s) °C and Other Remarks:	(s) °C and C	ther Remark	ij				
				S									Ver: 06/08/2021

US	
Fir	
ro	
C L	
500	2 4

EEA Folder Number:

INTERNAL CHAIN OF CUSTODY RECORD Eaton Analytical

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know, ASMs will determine whether to proceed with analysis or not. SAMPLES REC'D DAY OF COLLECTION? Yes No.

CONDITION OF ICE: Frozen _ Partially Frozen °C) (Final = (Observation= 1.5 °C) (Corr.Factor 6 No Ice Synthetic IR Gun 10 = 61 6 TYPE OF ICE: Real

Thawed

METHOD OF SHIPMENT: Pick-Up / Walk-in /(FedEx)/ UPS / DHL / Area Fast / Top Line / Other:

Compliance Acceptance Criteria:

- 1) Chemistry: >0, s6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection) samples and lamperature does not confirm, then measure the lamperature of each duadrant and record each lamperature of the quadrants If out of temperature range for both Chemistry and Micrablology

'C) (CorrFesior 'C) (Final n 'C)	(Corr.Factor (Corr
2 - (Observatione	4 = (Observetlane
·C) (Final = .C)	*C) (Final = *C)
·C) (Corr.Faulor	Corr.Factor
1 × (Observetlon*	3 = (Observation=

Dloxin (1613 or 2,3,7,8 TCDD); must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

Đ	
Expiration Date	
or	11111
: 0 - 14	
pH strip type	
Lot Number:	
c. Manufacturer:	
H Check	
5) p	

Results:

Samp ID Bottle # None/<6

Results Expiration Date: 6) Chlorine check, Manufacturer: Sansafe, Lot No.:

. Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Mathods 616.4, HAA(6261,662), 505, 5PME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi Vials, International cilents:

| International Commission of the Commissi Samples with Headspace (see below): No Samples with Headspace: 7) YOA and Radon Headspace:

Samp ID Bottle #

8451

1.18.7 DATE

Eurofins Eaton Analytical

Eurofins Eaton Analytical

TIME

Note Sample IDs winch have dissimilar headspace (I.e. potential sampling errors);

SCEIVED BY:

QA FO-FIIM5504 (9.28.21) Ver 9

BAMPLES CHECK

Page 15 of 21





Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 970748

Project: SUBCONTRACT **Group:** 1,4-Dioxane

Laboratory Comments

1

Eurofins QC, LLC Nicki Smith 213 Witmer Road Horsham, PA 19044



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) **Laboratory Data**

Report: 970748

Project: SUBCONTRACT

Group: 1,4-Dioxane

Samples Received on: 11/18/2021 15:47

Eurofins QC, LLC Nicki Smith 213 Witmer Road Horsham, PA 19044

Prepared	Analyzed	Prep Batch	Analyze Batch	Method	Analyte	Result	Units	MDL	MRL	Dilution
POE La	b Sink (20211	<u>1190051)</u>					Sampled	on 11/11/20	021 093	0
	Variab.	le ID: 630	0-24208-1							
	E	PA 522 - @	DIOXANE	_0.07PPB						
11/23/21	11/24/21 14:41	1369484	1369779	(EPA 522)	1,4-Dioxane	ND	ug/L	0.018	0.070	1
11/23/21	11/24/21 14:41	1369484	1369779	(EPA 522)	Dioxane-d8	97	%			1
11/23/21	11/24/21 14:41	1369484	1369779	(EPA 522)	THF-d8	129	%			1

ND - Analyte was not detected at the calculated MDL.

J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.

(c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

Laboratory QC Summary

Report: 970748

Project: SUBCONTRACT

Group: 1,4-Dioxane

Eurofins QC, LLC

@DIOXANE_0.07PPB

Prep Batch: 1369484 Analytical Batch: 1369779 Analysis Date: 11/24/2021

Analyzed by: X8AA 202111190051 POE Lab Sink





Report: 970748

Project: SUBCONTRACT

Group: 1,4-Dioxane

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

Eurofins QC, LLC

	, -							RPD	
QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	Limit(%)	RPD%
@DIOXANE_0.07	PPB by EPA 522								
Prep Batch:	1369484 Analytical Batch: 1369779					Analysis D	ate: 11/24	/2021	
LCS1	1,4-Dioxane		20	18.2	ug/L	91	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)		
MS2_202111190968	1,4-Dioxane	ND	10	9.27	ug/L	93	(70-130)		
MSD2_202111190968	1,4-Dioxane	ND	10	9.47	ug/L	95	(70-130)	20	2.1
LCS1	Dioxane-d8 (S)			94.8	%	95	(70-130)		
MBLK	Dioxane-d8 (S)			94.7	%	95	(70-130)		
MRL_CHK	Dioxane-d8 (S)			93.4	%	93	(70-130)		
MS2_202111190968	Dioxane-d8 (S)			92.0	%	92	(70-130)		
MSD2_202111190968	Dioxane-d8 (S)			95.4	%	95	(70-130)		
LCS1	THF-d8 (I)			112	%	112	(50-150)		
MBLK	THF-d8 (I)			109	%	109	(50-150)		
MRL_CHK	THF-d8 (I)			108	%	108	(50-150)		
MS2_202111190968	THF-d8 (I)			122	%	123	(50-150)		
MSD2_202111190968	THF-d8 (I)			115	%	115	(50-150)		

Spike recovery is already corrected for native results.

Spikes recovery is aiready corrected for native results. Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method. RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

Laboratory QC

Picksheet: P7273817 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 11/01/21- Project Name: VILLAGE OF NYACK WATER Start Date: 02/19/21 Stop Date: Comments/Schedule Details: CALL GILBERT TO SCHEDULE PRI SAMPLING: PLANT 845-358-3734, 845-597-5424	R TREATMENT PLANT	# Ascorbic/HCL # NA2S2O3 # NAOH/Zn ace # HNO3 pH # H2SO4 pH # NAOH pH # Unpreserved # HCL # MEOH	. Vials #	Type HCL Vials		
Route: 4 SARA CAMACHO	PWSID:	P s e	# Na2SO3/HCL # DI Water			ield Tests By: CGPIE	D
		s e e C C u H o o d P I I o C i i	Collection Date	Collection Time To (Military) # E			
7273817-1 PFC) POE, LAB SINK 9-PFAS SAMP NON MUN, DIOXANE, PFC 			11/11/21	9:30	3	j w w w w w w w w w w w w w w w w w w w	ing.E
7273817-2 FIELD BLANK PFC 			11/11/21	9:27	1		
IELD WORK CODE:							
				1181181	 	1 8 1 1 8 1 8 1 8 1 8 1 8 1 8 1	10
				630-2	4208 Chain of Cu	stody	^{Loc: 630} 24208

Sample Collected By Ci	rcle One	Initials		Required	TAT: Standard	_/Rush# Day	/s			
Relinquished By Paddy	Time - 16:45	Date	Received By ER 9.0/ER 229	Time 16:45	Date (1/1)/2)	Temp Z. 6°C	Iced Y/N	Site	Initials	Comments (reporting, methods, etc)
: 07:00-17:00 T: 07:00-17:00 W: 07:00-17:00 - T: - W: - Th: - F:		F: 07:00-17:00 - Sn: -	St: - Sn: - Printed: 10)/17/21 GF	PS X:	Y: _				Hazardous Y/N

Eurofins Environment Testing Philadelphia-

213 Witmer Road

Horsham, PA 19044-0962

Chain of Custody Record

🔅 eurofins

Environment Testing America

hone: 215-355-3900 Fax: 888-785-8567																						
lient Information (Sub Contract Lab)	Sampler:				PM: ough	erty,	Erin						Can	arrier Tracking No(s):					COC No: 630-6263.1			
ient Contact: hipping/Receiving	Phone:				Aail: in.Do	ough	erty@	geuro	ofinset	t.com				e of Ori w Yorl					Page: Page 1 of 1			
ompany: urofins Lancaster Laboratories Environm								Requiew Y	ired (Se ork	ee not	B):								Job # 630-24208-1			
ddress: 425 New Holland Pike,	Due Date Requests 11/25/2021	ed:			1					Ana	alysis	s Re	que	sted					Preservation Cod			
ity ancaster tate, Zip. A, 17601	TAT Requested (da	nys):					Prep DW EPA 537.1 List of 18	List of 18											A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3		
hone: 17-656-2300(Tel)	PO #:]。		1 537.1	1 537.1											G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecal	ahydrate	
mail:	WO #:				N os	No.	W EP	W EP										52	I - Ice J - DI Water K - EDTA	U - Acetone V - MCAA W - pH 4-5		
roject Name: FC, Dioxane	Project #: 63003671				96 (Ya	Yes or		Prep C										ontaine	L - EDA	Z - other (specify	y)	
iilage of Nyack Qtly PFC	SSOW#:				Sam	ASD (1 DW	1_DW										o Jo	Other:			
ample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W-water, 8=solid, 0=wasts/oil, BT-Tissue, A-A	Field Filtered	Perform MS/I	537.1_DW/537.1	537.1_DW/537.1_DW (Hold)				-						Total Number	Special In	structions/No	ote:	
	><	><	Preserva	tion Code:	X	\propto												X		-		
OE, Lab Sink (630-24208-1)	11/11/21	09:30 Eastern		rinking Wa	ate	\perp	Х			_			\perp					2				
ield Blank (630-24208-2)	11/11/21	09:27 Eastern		rinking Wa	ate			Х					\perp				_	1				
					+	\perp		Н		+	_	+	-			_	+					
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lote: Since laboratory accreditations are subject to change, Eurofins QC, LLC – urrently maintain accreditation in the State of Origin listed above for analysis/lee o Eurofins QC, LLC – Horsham, PA attention immediately. If all requested accre	ts/matrix being analyz	ed, the sample	es must be ship	ped back to	the Eu	urofin: ting to	s QC, said	LLC – compli	Horsha icance t	im, PA to Euro	laborat ofins QC	tory or C, LLC	other - Hon	nstructi sham, F	ons wi	il be pro	wided.	Any ch	hanges to accreditation	on status should be		
Possible Hazard Identification Unconfirmed						Sa [mple	Disp Petur	oosal 1 To C	(Af	ee ma			ssed osal B					e d longer than 1 nive For	month) Months		
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	1								Requ			Jour D	y Lui			711011		Worth		
Empty Kit Relinquished by:		Date:			Ti	ime:								Metho	od of S	hipmen	t					
telinquished by Carth Jadden	Date/Time:	1/21/	16:45	Company	Q	\overline{C}	Rece	eived b	JY.			/	1			Date/Tin	ne:		/	Company	/	
Relinquished by	Date/Time:	/		Company	/	,	Race	ived b	y.		1					Date/Tin	ne:		/	Company		
telinquished by:	Date/Time:			Company			Rece	eived b	Y . [[2	m				-	Date/Tin	ne:	21	2130	EUU E	ET	
Custody Seals Intact: Custody Seal No.:		9.0					Cool	er Terr	nperatu	re(s) °	C and C	Other I	Remark	s: 2	8	20		5		27		

Ver: 06/08/2021

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