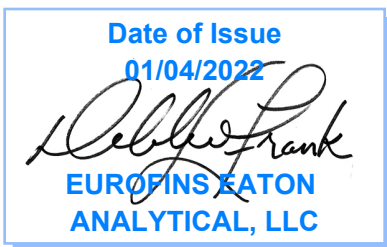


750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
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1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

State of Hawaii DOH  
Hazard Evaluation and Emergency Response  
Office (HEER)  
2385 Waimano Home Road  
Pearl City, HI 96782  
Attention: Diana Felton, MD



Utah ELCP CA00006

DEB: Debbie L Frank  
Project Manager

Report: 975687  
Project: NAVY  
Group: RUSH Red Hill 2021 - PFAS 40 TA-SAC 5bd

\* 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.

## STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

\* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

<https://www.eurofinsus.com/Eaton>

Test(s)	Method(s)	Potable Water *	Waste Water	Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x	Gross Alpha coprecipitation	SM 7110 C	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x		Hardness	SM 2340 B	x	x
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x	Hexavalent Chromium	EPA 218.6,	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x	Hexavalent Chromium	EPA 218.7,	x	
Heterotrophic Bacteria	SM 9215 B	x		Hexavalent Chromium	SM 3500-Cr B		x
Legionella	Legiolert®	x		Inorganic Anions and DBPs	EPA 300.0	x	x
Pseudomonas aeruginosa	Idexx Pseudalart	x		Norganic Anions and DBPs	EPA 300.1	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x	Kjeldahl Nitrogen	EPA 351.2		x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x	Metals	EPA 200.7, EPA200.8	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x		Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Total Microcystins and Nodularins	EPA 546	X		Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Yeast and Mold	SM 9610	x		Odor	SM2150B	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x		Organohalide Pesticides and PCB	EPA 505	x	
1,4-Dioxane	EPA 522	x		Ortho Phosphate	SM 4500P E	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x		Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Acrylamide	+ LCMS 2440)	x		Perchlorate	EPA 331.0	x	
Algal Toxins/Microcystin	+ LCMS 3570	x		Perchlorate (Low and High Levels)	EPA 314.0	x	
Alkalinity	SM 2320B	x	x	Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
Ammonia	EPA 350.1, SM 4500-NH3 H		x	PPCP and EDC	+ LCMS-2443	x	
Asbestos	EPA 100.2	x	x	pH	EPA 150.1 SM 4500-H+ B	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x	Phenolics – Low Level	+ WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
BOD/CBOD	SM 5210 B		x	Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Bromate	+ LCMS- 2447	x		Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Carbonate as CO3	SM 2330 B	x	x	Radon-222	SM 7500RN	x	
Carbonyls	EPA 556	x	x	Residue (Filterable)	SM 2540C	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x	Residue (Non-Filterable)	SM 2540D		x
Chlorinated Acids	EPA 515.4	x		Residue (Total)	SM 2540B		x
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x		Residue (Volatile)	EPA 160.4		x
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x		Semi-Volatile Compounds	EPA 525.2	x	
Color	SM2120B	x		Silica	SM 4500-SiO2 C	x	x
Conductivity	EPA 120.1, SM 2510B	x	x	Sulfide	SM 4500-S D		x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x		Sulfite	SM 4500-SO3 B	x	x
Cyanide (Amenable)	SM 4500-CN G	x	x	Surfactants	SM 5540C	x	x
Cyanide (Free)	SM 4500CN F	x	x	Taste and Odor	SM 6040 E	x	
Cyanide (Total)	EPA 335.4	x	x	Total Organic Carbon	SM 5310 C	x	x
Cyanogen Chloride (Screen)	+ 335 Mod (WC-24467)	x		Total Phenols	EPA 420.1		x
Diquat and Paraquat	EPA 549.2	x		Total Phenols	EPA 420.4	x	x
DBP and HAA	SM 6251 B	x		Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Dissolved Organic Carbon	SM 5310 C	x		Turbidity	EPA 180.1	x	x
Dissolved Oxygen	SM 4500-O G		x	Uranium by ICP/MS	EPA 200.8	x	
EDB/DCBP/TCP	EPA 504.1	x		UV 254 Organic Constituents	SM 5910B	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x		VOCs	EPA 524.2	x	
EDTA and NTA	+ WC-2454	x		VOCs	+ (GCMS 2412) by EPA 524.2 modified	x	
Endothall	EPA 548.1, +(LCMS-2445)	x					
Fluoride	SM 4500F C	x	x				
Glyphosate	EPA 547	x					
Glyphosate and AMPA	+ LCMS-3618	x					
Gross Alpha and Gross Beta	EPA 900.0	x	x				

(\* ) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+ ) In-House Method

### Acknowledgement of Samples Received

Addr: **State of Hawaii DOH**  
 Hazard Evaluation and Emergency Response Office  
 (HEER)  
 2385 Waimano Home Road  
 Pearl City, HI 96782  
 Attn: Diana Felton, MD  
 Phone: 808-586-0963

Client ID: HAWAII-DOH  
 Folder #: 975687  
 Project: NAVY  
 Sample Group: RUSH Red Hill 2021 - PFAS 40  
 TA-SAC 5bd  
 Project Manager: Debbie L Frank  
 Phone: (626) 386-1149

The following samples were received from you on **December 16, 2021 at 22:08**. 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
<u>202112161068</u>	ERH2168 - No Test (Volume used for Spike at EFGS) Sub Matrix Code: Liquid Static ID: CUI - DIVERS - PFAS_40_537mod(1633) No Test	12/07/2021 1600
<u>202112161069</u>	ERH2169 - Solid Matrix HOLD - 40ml vial containing ~15ml weight depends on matrix Variable ID: 40ml vial containing ~15ml Sub Matrix Code: Solid Static ID: CUI - DIVERS - PFAS_40_537mod(1633) No Test	12/07/2021 1600
<u>202112161070</u>	ERH2170 - unpreserved <40ml HOLD Sub Matrix Code: Liquid Static ID: CUI - DIVERS - PFAS_40_537mod(1633) Prep Charge Subcontract Test-See Attached	12/11/2021 1600
<u>202112161071</u>	ERH2171 - HCL preserved = 40ml HOLD Sub Matrix Code: Liquid Static ID: CUI - DIVERS - PFAS_40_537mod(1633) Prep Charge Subcontract Test-See Attached	12/10/2021 1504
<u>202201041133</u>	RUSH RUSH	12/10/2021 15:04

### Test Description

Tel: (626) 386-1100  
 Fax: (626) 988-3757  
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**Report:** 975687  
**Project:** NAVY  
**Group:** RUSH Red Hill 2021 - PFAS 40  
 TA-SAC 5bd

**State of Hawaii DOH**  
 Diana Felton, MD  
 Hazard Evaluation and Emergency Response Office (HEER)  
 2385 Waimano Home Road  
 Pearl City, HI 96782

Samples Received on:  
 12/16/2021 22:08

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	<b>202112161070</b>	<b><u>ERH2170 - unpreserved &lt;40ml HOLD</u></b>				
12/27/2021 14:55	Subcontract Test-See Attached		See Attached		None	
	<b>202112161071</b>	<b><u>ERH2171 - HCL preserved = 40ml HOLD</u></b>				
12/27/2021 15:25	Subcontract Test-See Attached		See Attached		None	

Tel: (626) 386-1100  
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Report: 975687  
 Project: NAVY  
 Group: RUSH Red Hill 2021 - PFAS 40  
 TA-SAC 5bd

**State of Hawaii DOH**  
 Diana Felton, MD  
 Hazard Evaluation and Emergency Response Office (HEER)  
 2385 Waimano Home Road  
 Pearl City, HI 96782

Samples Received on:  
 12/16/2021 22:08

Prepared	Analyzed	Prep Batch	Analyze Batch	Method	Analyte	Result	Units	MDL	MRL	Dilution	
<b><u>ERH2168 - No Test (Volume used for Spike at EFGS) (202112161068)</u></b>							<b>Sampled on 12/07/2021 1600</b>				
Static ID: CUI - DIVERS - PFAS_40_537mod(1633) <b>Default - No Test</b>											
	12/16/21 00:00		1377363	(Default)	No Test	NA				1	
<b><u>ERH2169 - Solid Matrix HOLD - 40ml vial containing ~15ml weight depends on matrix (202112161069)</u></b>							<b>Sampled on 12/07/2021 1600</b>				
Variable ID: 40ml vial containing ~15ml Static ID: CUI - DIVERS - PFAS_40_537mod(1633) <b>Default - No Test</b>											
	12/16/21 00:00		1377363	(Default)	No Test	NA				1	
<b><u>ERH2170 - unpreserved &lt;40ml HOLD (202112161070)</u></b>							<b>Sampled on 12/11/2021 1600</b>				
Static ID: CUI - DIVERS - PFAS_40_537mod(1633) <b>Misc subcontracted work - SEE ABOVE COMMENTS For Testing</b>											
	12/27/21 14:55			(Misc subcontracted work)	Subcontract Test-See Attached	See Attached	None			1	
<b><u>ERH2171 - HCL preserved = 40ml HOLD (202112161071)</u></b>							<b>Sampled on 12/10/2021 1504</b>				
Static ID: CUI - DIVERS - PFAS_40_537mod(1633) <b>Misc subcontracted work - SEE ABOVE COMMENTS For Testing</b>											
	12/27/21 15:25			(Misc subcontracted work)	Subcontract Test-See Attached	See Attached	None			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.

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**Report:** 975687  
**Project:** NAVY  
**Group:** RUSH Red Hill 2021 - PFAS 40  
TA-SAC 5bd

State of Hawaii DOH  
Diana Felton, MD  
Hazard Evaluation and Emergency Response Office (HEER)  
2385 Waimano Home Road  
Pearl City, HI 96782

---

**Folder Comments**

Analytical results for PFAS by 537 modified are submitted by Eurofins TestAmerica, Sacramento, CA.

**COC deviation**

COC testing request does not match testing requested via Email.

COC date/time sampled does not match container Date and Time for some samples.

Container date and time is as follows

ERH2168 - No Test (Volume unavailable - used for Spike at EFGS)

ERH 2169 with the date 12/7/21 at 16:00 (Soil vial) maybe 15ml, HOLD - testing pending NTP.

Weight of material submitted is unknown at receipt, determination will be upon request of testing.

ERH 2170 with the date 12/11/21 at 16:00 (Water sample) Unpreserved not completely full, there is headspace.

ERH 2171 with the date 12/10/21 at 15:04 (Water Sample) HCL preserved, this one is full.

-Acid preservative degrades PFAS, possible low bias.

-All in Glass containers. PFAS adheres to the Glass, possible low bias.

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**Report:** 975687  
**Project:** NAVY  
**Group:** RUSH Red Hill 2021 - PFAS 40  
TA-SAC 5bd

State of Hawaii DOH

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**No Test****Analytical Batch: 1377363****Analysis Date: 12/16/2021**

202112161068

ERH2168 - No Test (Volume used for Spike at EFGS)

Analyzed by: LXG

202112161069

ERH2169 - Solid Matrix HOLD - 40ml vial containing ~1!

Analyzed by: LXG



## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-83085-1

Client Project/Site: Folder # 975687, Job# 1000014

**For:**

Eurofins Eaton Analytical  
750 Royal Oaks Drive  
Suite 100  
Monrovia, California 91016

Attn: Debbie Frank



---

*Authorized for release by:  
12/28/2021 9:29:31 AM*

Linda C. Laver, Senior Project Manager  
(916)374-4362  
[Linda.Laver@Eurofinset.com](mailto:Linda.Laver@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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[www.eurofinsus.com/Env](http://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.*



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# Definitions/Glossary

Client: Eurofins Eaton Analytical  
Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

# Case Narrative

Client: Eurofins Eaton Analytical  
Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

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## Job ID: 320-83085-1

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### Laboratory: Eurofins TestAmerica, Sacramento

#### Narrative

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#### Job Narrative 320-83085-1

#### Receipt

The samples were received on 12/16/2021 10:50 AM. 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 1.1° C.

#### Receipt Exceptions

Samples were received on 12/16/21 without a Chain-of-Custody (COC). A copy of the original COC was later received via email. Samples were initially logged in with client sample IDs. The Eaton COC was received via email on December 17, 2021 and sample IDs were changed to match Eaton's IDs: 202112161069 (320-83085-1), 202112161070 (320-83085-2) and 202112161071 (320-83085-3).

The following sample was received in a 40 mL vial, preserved with HCl: 202112161071 (320-83085-3). Client was aware that this was an improper container and the addition of HCl is likely to have altered the state of PFAS analytes. Client approved the analysis.

The following soil sample was requested to be placed on HOLD and not analyzed: 202112161069 (320-83085-1).

#### LCMS

Method 537 (modified): The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-553522 and analytical batch 320-554029 recovered below the default control limits (70-130%) for the following analyte: 7:3 FTCA. This is a relatively new analyte and data is still being collected to establish actual control limits. At this time, control charting of recent LCS recoveries for this analyte indicate limits may be 63-113%. The recoveries are within this range, and there is no adverse impact to the data.

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: (LCSD 320-553522/3-A). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

#### Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-553522.

Method 3535: The SOP is based on a 250 mL volume of sample, but the following samples were received in 40 mL glass vials. The sample provided was and brought to a 250 mL volume which results in elevated reporting limits. Client was aware of this SOP deviation and approved the analyses. 202112161070 (320-83085-2) and 202112161071 (320-83085-3). preparation batch 320-553522.

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

# Detection Summary

Client: Eurofins Eaton Analytical  
Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

---

**Client Sample ID: 202112161070**

**Lab Sample ID: 320-83085-2**

No Detections.

---

**Client Sample ID: 202112161071**

**Lab Sample ID: 320-83085-3**

No Detections.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

**Client Sample ID: 202112161070**

**Lab Sample ID: 320-83085-2**

**Date Collected: 12/11/21 16:00**

**Matrix: Water**

**Date Received: 12/16/21 10:50**

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		31	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluoropentanoic acid (PFPeA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorohexanoic acid (PFHxA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluoroheptanoic acid (PFHpA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorooctanoic acid (PFOA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorononanoic acid (PFNA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorodecanoic acid (PFDA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluoroundecanoic acid (PFUnA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorododecanoic acid (PFDoA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorotridecanoic acid (PFTrDA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluoropentanesulfonic acid (PFPeS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorooctanesulfonic acid (PFOS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorononanesulfonic acid (PFNS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Perfluorooctanesulfonamide (FOSA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
NMeFOSAA	ND		31	ng/L		12/23/21 13:24	12/27/21 14:55	1
NEtFOSAA	ND		31	ng/L		12/23/21 13:24	12/27/21 14:55	1
4:2 FTS	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
6:2 FTS	ND		31	ng/L		12/23/21 13:24	12/27/21 14:55	1
8:2 FTS	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
NEtFOSA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
NMeFOSA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
NMeFOSE	ND		25	ng/L		12/23/21 13:24	12/27/21 14:55	1
NEtFOSE	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
9Cl-PF3ONS	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
HFPO-DA (GenX)	ND		25	ng/L		12/23/21 13:24	12/27/21 14:55	1
11Cl-PF3OUdS	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
3:3 FTCA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
5:3 FTCA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
7:3 FTCA	ND	*	13	ng/L		12/23/21 13:24	12/27/21 14:55	1
NFDHA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
PFMBA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
PFMPA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
PFEESA	ND		13	ng/L		12/23/21 13:24	12/27/21 14:55	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C8 FOSA	79		25 - 150			12/23/21 13:24	12/27/21 14:55	1
13C4 PFBA	100		25 - 150			12/23/21 13:24	12/27/21 14:55	1
13C5 PFPeA	116		25 - 150			12/23/21 13:24	12/27/21 14:55	1
13C2 PFHxA	100		25 - 150			12/23/21 13:24	12/27/21 14:55	1
13C4 PFHpA	108		25 - 150			12/23/21 13:24	12/27/21 14:55	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

**Client Sample ID: 202112161070**

**Lab Sample ID: 320-83085-2**

**Date Collected: 12/11/21 16:00**

**Matrix: Water**

**Date Received: 12/16/21 10:50**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C4 PFOA	106		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C5 PFNA	107		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C2 PFDA	102		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C2 PFUnA	107		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C2 PFDoA	105		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C2 PFTeDA	103		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C3 PFBS	115		25 - 150	12/23/21 13:24	12/27/21 14:55	1
18O2 PFHxS	93		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C4 PFOS	98		25 - 150	12/23/21 13:24	12/27/21 14:55	1
d3-NMeFOSAA	113		25 - 150	12/23/21 13:24	12/27/21 14:55	1
d5-NEtFOSAA	124		25 - 150	12/23/21 13:24	12/27/21 14:55	1
M2-4:2 FTS	113		25 - 150	12/23/21 13:24	12/27/21 14:55	1
M2-6:2 FTS	117		25 - 150	12/23/21 13:24	12/27/21 14:55	1
M2-8:2 FTS	121		25 - 150	12/23/21 13:24	12/27/21 14:55	1
d-N-MeFOSA-M	81		20 - 150	12/23/21 13:24	12/27/21 14:55	1
d-N-EtFOSA-M	83		20 - 150	12/23/21 13:24	12/27/21 14:55	1
d7-N-MeFOSE-M	102		10 - 120	12/23/21 13:24	12/27/21 14:55	1
d9-N-EtFOSE-M	101		10 - 120	12/23/21 13:24	12/27/21 14:55	1
13C3 HFPO-DA	108		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C-6:2 FTCA	121		25 - 150	12/23/21 13:24	12/27/21 14:55	1
13C-8:2 FTCA	131		25 - 150	12/23/21 13:24	12/27/21 14:55	1

# Client Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

**Client Sample ID: 202112161071**

**Lab Sample ID: 320-83085-3**

**Date Collected: 12/10/21 15:04**

**Matrix: Water**

**Date Received: 12/16/21 10:50**

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		30	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluoropentanoic acid (PFPeA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorohexanoic acid (PFHxA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluoroheptanoic acid (PFHpA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorooctanoic acid (PFOA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorononanoic acid (PFNA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorodecanoic acid (PFDA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluoroundecanoic acid (PFUnA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorododecanoic acid (PFDoA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorotridecanoic acid (PFTrDA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluoropentanesulfonic acid (PFPeS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorononanesulfonic acid (PFNS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Perfluorooctanesulfonamide (FOSA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
NMeFOSAA	ND		30	ng/L		12/23/21 13:24	12/27/21 15:25	1
NEtFOSAA	ND		30	ng/L		12/23/21 13:24	12/27/21 15:25	1
4:2 FTS	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
6:2 FTS	ND		30	ng/L		12/23/21 13:24	12/27/21 15:25	1
8:2 FTS	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
NEtFOSA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
NMeFOSA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
NMeFOSE	ND		24	ng/L		12/23/21 13:24	12/27/21 15:25	1
NEtFOSE	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
9Cl-PF3ONS	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
HFPO-DA (GenX)	ND		24	ng/L		12/23/21 13:24	12/27/21 15:25	1
11Cl-PF3OUdS	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
3:3 FTCA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
5:3 FTCA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
7:3 FTCA	ND	*	12	ng/L		12/23/21 13:24	12/27/21 15:25	1
NFDHA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
PFMBA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
PFMPA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
PFEESA	ND		12	ng/L		12/23/21 13:24	12/27/21 15:25	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C8 FOSA	83		25 - 150			12/23/21 13:24	12/27/21 15:25	1
13C4 PFBA	95		25 - 150			12/23/21 13:24	12/27/21 15:25	1
13C5 PFPeA	113		25 - 150			12/23/21 13:24	12/27/21 15:25	1
13C2 PFHxA	106		25 - 150			12/23/21 13:24	12/27/21 15:25	1
13C4 PFHpA	112		25 - 150			12/23/21 13:24	12/27/21 15:25	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

**Client Sample ID: 202112161071**

**Lab Sample ID: 320-83085-3**

**Date Collected: 12/10/21 15:04**

**Matrix: Water**

**Date Received: 12/16/21 10:50**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	109		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C5 PFNA	104		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C2 PFDA	104		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C2 PFUnA	114		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C2 PFDoA	110		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C2 PFTeDA	109		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C3 PFBS	103		25 - 150	12/23/21 13:24	12/27/21 15:25	1
18O2 PFHxS	96		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C4 PFOS	105		25 - 150	12/23/21 13:24	12/27/21 15:25	1
d3-NMeFOSAA	102		25 - 150	12/23/21 13:24	12/27/21 15:25	1
d5-NEtFOSAA	117		25 - 150	12/23/21 13:24	12/27/21 15:25	1
M2-4:2 FTS	113		25 - 150	12/23/21 13:24	12/27/21 15:25	1
M2-6:2 FTS	132		25 - 150	12/23/21 13:24	12/27/21 15:25	1
M2-8:2 FTS	150		25 - 150	12/23/21 13:24	12/27/21 15:25	1
d-N-MeFOSA-M	64		20 - 150	12/23/21 13:24	12/27/21 15:25	1
d-N-EtFOSA-M	69		20 - 150	12/23/21 13:24	12/27/21 15:25	1
d7-N-MeFOSE-M	109		10 - 120	12/23/21 13:24	12/27/21 15:25	1
d9-N-EtFOSE-M	108		10 - 120	12/23/21 13:24	12/27/21 15:25	1
13C3 HFPO-DA	118		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C-6:2 FTCA	90		25 - 150	12/23/21 13:24	12/27/21 15:25	1
13C-8:2 FTCA	83		25 - 150	12/23/21 13:24	12/27/21 15:25	1

# Isotope Dilution Summary

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)
320-83085-2	202112161070	79	100	116	100	108	106	107	102
320-83085-3	202112161071	83	95	113	106	112	109	104	104
LCS 320-553522/2-A	Lab Control Sample	90	112	125	115	118	122	117	117
LCSD 320-553522/3-A	Lab Control Sample Dup	89	110	123	116	122	116	120	123
MB 320-553522/1-A - RA	Method Blank								
MB 320-553522/1-A	Method Blank	87	103	114	109	113	114	114	115

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (25-150)	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-83085-2	202112161070	107	105	103	115	93	98	113	124
320-83085-3	202112161071	114	110	109	103	96	105	102	117
LCS 320-553522/2-A	Lab Control Sample	124	124	124	123	104	112	130	140
LCSD 320-553522/3-A	Lab Control Sample Dup	127	118	124	130	107	114	142	141
MB 320-553522/1-A - RA	Method Blank								
MB 320-553522/1-A	Method Blank	120	123	118	119	99	106	126	142

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	dMeFOSA (20-150)	dEtFOSA (20-150)	NMFM (10-120)	NEFM (10-120)	HFPODA (25-150)
320-83085-2	202112161070	113	117	121	81	83	102	101	108
320-83085-3	202112161071	113	132	150	64	69	109	108	118
LCS 320-553522/2-A	Lab Control Sample	139	132	140	89	94	120	116	122
LCSD 320-553522/3-A	Lab Control Sample Dup	143	131	140	99	100	117	124 *5+	124
MB 320-553522/1-A - RA	Method Blank								
MB 320-553522/1-A	Method Blank	135	136	138	88	95	112	114	113

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	MFHEA (25-150)	MFOEA (25-150)
320-83085-2	202112161070	121	131
320-83085-3	202112161071	90	83
LCS 320-553522/2-A	Lab Control Sample	137	150
LCSD 320-553522/3-A	Lab Control Sample Dup	133	159 *5+
MB 320-553522/1-A - RA	Method Blank		147
MB 320-553522/1-A	Method Blank	123	

### Surrogate Legend

- PFOSA = 13C8 FOSA
- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS

Eurofins TestAmerica, Sacramento

# Isotope Dilution Summary

Client: Eurofins Eaton Analytical

Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

M242FTS = M2-4:2 FTS

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

dMeFOSA = d-N-MeFOSA-M

dEtFOSA = d-N-EtFOSA-M

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

HFPODA = 13C3 HFPO-DA

MFHEA = 13C-6:2 FTCA

MFOEA = 13C-8:2 FTCA

1

2

3

4

5

6

7

8

9

10

11

12

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15

# QC Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 320-553522/1-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorooctanoic acid (PFOA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorodecanoic acid (PFDA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
NMeFOSAA	ND		5.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
NEtFOSAA	ND		5.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
4:2 FTS	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
6:2 FTS	ND		5.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
8:2 FTS	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
NEtFOSA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
NMeFOSA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
NMeFOSE	ND		4.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
NEtFOSE	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
9CI-PF3ONS	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
HFPO-DA (GenX)	ND		4.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
11CI-PF3OUdS	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
3:3 FTCA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
5:3 FTCA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
NFDHA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
PFMBA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
PFMPA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1
PFEESA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 11:10	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	87		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C4 PFBA	103		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C5 PFPeA	114		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C2 PFHxA	109		25 - 150	12/23/21 13:24	12/27/21 11:10	1

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: MB 320-553522/1-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFHpA	113		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C4 PFOA	114		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C5 PFNA	114		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C2 PFDA	115		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C2 PFUnA	120		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C2 PFDaA	123		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C2 PFTeDA	118		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C3 PFBS	119		25 - 150	12/23/21 13:24	12/27/21 11:10	1
18O2 PFHxS	99		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C4 PFOS	106		25 - 150	12/23/21 13:24	12/27/21 11:10	1
d3-NMeFOSAA	126		25 - 150	12/23/21 13:24	12/27/21 11:10	1
d5-NEtFOSAA	142		25 - 150	12/23/21 13:24	12/27/21 11:10	1
M2-4:2 FTS	135		25 - 150	12/23/21 13:24	12/27/21 11:10	1
M2-6:2 FTS	136		25 - 150	12/23/21 13:24	12/27/21 11:10	1
M2-8:2 FTS	138		25 - 150	12/23/21 13:24	12/27/21 11:10	1
d-N-MeFOSA-M	88		20 - 150	12/23/21 13:24	12/27/21 11:10	1
d-N-EtFOSA-M	95		20 - 150	12/23/21 13:24	12/27/21 11:10	1
d7-N-MeFOSE-M	112		10 - 120	12/23/21 13:24	12/27/21 11:10	1
d9-N-EtFOSE-M	114		10 - 120	12/23/21 13:24	12/27/21 11:10	1
13C3 HFPO-DA	113		25 - 150	12/23/21 13:24	12/27/21 11:10	1
13C-6:2 FTCA	123		25 - 150	12/23/21 13:24	12/27/21 11:10	1

**Lab Sample ID: LCS 320-553522/2-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	36.6		ng/L		92	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	33.6		ng/L		84	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	37.8		ng/L		95	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	37.3		ng/L		93	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	33.1		ng/L		83	70 - 130
Perfluorononanoic acid (PFNA)	40.0	36.4		ng/L		91	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	35.7		ng/L		89	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	35.0		ng/L		88	68 - 128
Perfluorododecanoic acid (PFDaA)	40.0	38.2		ng/L		95	71 - 131
Perfluorotridecanoic acid (PFTTrDA)	40.0	37.1		ng/L		93	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	33.8		ng/L		85	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	29.6		ng/L		84	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.5	30.4		ng/L		81	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.5		ng/L		92	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.7		ng/L		91	76 - 136

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 320-553522/2-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	37.1	33.4		ng/L		90	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	36.1		ng/L		94	75 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	36.2		ng/L		94	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	38.7	31.0		ng/L		80	67 - 127
Perfluorooctanesulfonamide (FOSA)	40.0	45.8		ng/L		115	73 - 133
NMeFOSAA	40.0	37.4		ng/L		93	76 - 136
NEtFOSAA	40.0	36.1		ng/L		90	76 - 136
4:2 FTS	37.4	33.9		ng/L		91	79 - 139
6:2 FTS	37.9	37.6		ng/L		99	59 - 175
8:2 FTS	38.3	33.3		ng/L		87	75 - 135
NEtFOSA	40.0	37.9		ng/L		95	78 - 138
NMeFOSA	40.0	38.2		ng/L		96	67 - 154
NMeFOSE	40.0	38.1		ng/L		95	70 - 130
NEtFOSE	40.0	34.9		ng/L		87	71 - 131
9CI-PF3ONS	37.3	36.2		ng/L		97	75 - 135
HFPO-DA (GenX)	40.0	38.5		ng/L		96	51 - 173
11CI-PF3OUdS	37.7	34.1		ng/L		91	54 - 114
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.3		ng/L		99	79 - 139
3:3 FTCA	40.0	36.0		ng/L		90	70 - 130
5:3 FTCA	40.0	31.9		ng/L		80	70 - 130
7:3 FTCA	40.0	26.8	*	ng/L		67	70 - 130
NFDHA	40.0	38.5		ng/L		96	70 - 130
PFMBA	40.0	35.5		ng/L		89	70 - 130
PFMPA	40.0	34.5		ng/L		86	70 - 130
PFEESA	35.6	28.5		ng/L		80	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C8 FOSA	90		25 - 150
13C4 PFBA	112		25 - 150
13C5 PFPeA	125		25 - 150
13C2 PFHxA	115		25 - 150
13C4 PFHpA	118		25 - 150
13C4 PFOA	122		25 - 150
13C5 PFNA	117		25 - 150
13C2 PFDA	117		25 - 150
13C2 PFUnA	124		25 - 150
13C2 PFDoA	124		25 - 150
13C2 PFTeDA	124		25 - 150
13C3 PFBS	123		25 - 150
18O2 PFHxS	104		25 - 150
13C4 PFOS	112		25 - 150
d3-NMeFOSAA	130		25 - 150
d5-NEtFOSAA	140		25 - 150
M2-4:2 FTS	139		25 - 150

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 320-553522/2-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-6:2 FTS	132		25 - 150
M2-8:2 FTS	140		25 - 150
d-N-MeFOSA-M	89		20 - 150
d-N-EtFOSA-M	94		20 - 150
d7-N-MeFOSE-M	120		10 - 120
d9-N-EtFOSE-M	116		10 - 120
13C3 HFPO-DA	122		25 - 150
13C-6:2 FTCA	137		25 - 150
13C-8:2 FTCA	150		25 - 150

**Lab Sample ID: LCSD 320-553522/3-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>RPD Limit</i>
							<i>Limits</i>		
Perfluorobutanoic acid (PFBA)	40.0	37.3		ng/L		93	76 - 136	2	30
Perfluoropentanoic acid (PFPeA)	40.0	32.6		ng/L		81	71 - 131	3	30
Perfluorohexanoic acid (PFHxA)	40.0	38.3		ng/L		96	73 - 133	1	30
Perfluoroheptanoic acid (PFHpA)	40.0	35.0		ng/L		87	72 - 132	6	30
Perfluorooctanoic acid (PFOA)	40.0	35.8		ng/L		89	70 - 130	8	30
Perfluorononanoic acid (PFNA)	40.0	35.3		ng/L		88	75 - 135	3	30
Perfluorodecanoic acid (PFDA)	40.0	34.8		ng/L		87	76 - 136	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	35.2		ng/L		88	68 - 128	0	30
Perfluorododecanoic acid (PFDoA)	40.0	39.9		ng/L		100	71 - 131	4	30
Perfluorotridecanoic acid (PFTrDA)	40.0	38.1		ng/L		95	71 - 131	3	30
Perfluorotetradecanoic acid (PFTeA)	40.0	33.7		ng/L		84	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	35.4	27.8		ng/L		79	67 - 127	6	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	30.2		ng/L		81	66 - 126	1	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.8		ng/L		90	59 - 119	2	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	33.7		ng/L		88	76 - 136	3	30
Perfluorooctanesulfonic acid (PFOS)	37.1	33.1		ng/L		89	70 - 130	1	30
Perfluorononanesulfonic acid (PFNS)	38.4	33.8		ng/L		88	75 - 135	7	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.4		ng/L		92	71 - 131	2	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	30.7		ng/L		79	67 - 127	1	30
Perfluorooctanesulfonamide (FOSA)	40.0	46.9		ng/L		117	73 - 133	2	30
NMeFOSAA	40.0	33.9		ng/L		85	76 - 136	10	30
NEtFOSAA	40.0	36.1		ng/L		90	76 - 136	0	30
4:2 FTS	37.4	33.5		ng/L		90	79 - 139	1	30
6:2 FTS	37.9	36.8		ng/L		97	59 - 175	2	30

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCSD 320-553522/3-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
8:2 FTS	38.3	33.0		ng/L		86	75 - 135	1	30
NEtFOSA	40.0	37.0		ng/L		93	78 - 138	2	30
NMeFOSA	40.0	35.3		ng/L		88	67 - 154	8	30
NMeFOSE	40.0	39.5		ng/L		99	70 - 130	4	30
NEtFOSE	40.0	34.0		ng/L		85	71 - 131	2	30
9CI-PF3ONS	37.3	34.9		ng/L		94	75 - 135	4	30
HFPO-DA (GenX)	40.0	37.9		ng/L		95	51 - 173	2	30
11CI-PF3OUdS	37.7	33.5		ng/L		89	54 - 114	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.9		ng/L		101	79 - 139	2	30
3:3 FTCA	40.0	32.9		ng/L		82	70 - 130	9	30
5:3 FTCA	40.0	33.9		ng/L		85	70 - 130	6	30
7:3 FTCA	40.0	25.9	*	ng/L		65	70 - 130	3	30
NFDHA	40.0	38.2		ng/L		96	70 - 130	1	30
PFMBA	40.0	36.4		ng/L		91	70 - 130	2	30
PFMPA	40.0	33.6		ng/L		84	70 - 130	3	30
PFEESA	35.6	27.6		ng/L		77	70 - 130	3	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C8 FOSA	89		25 - 150
13C4 PFBA	110		25 - 150
13C5 PFPeA	123		25 - 150
13C2 PFHxA	116		25 - 150
13C4 PFHpA	122		25 - 150
13C4 PFOA	116		25 - 150
13C5 PFNA	120		25 - 150
13C2 PFDA	123		25 - 150
13C2 PFUnA	127		25 - 150
13C2 PFDoA	118		25 - 150
13C2 PFTeDA	124		25 - 150
13C3 PFBS	130		25 - 150
18O2 PFHxS	107		25 - 150
13C4 PFOS	114		25 - 150
d3-NMeFOSAA	142		25 - 150
d5-NEtFOSAA	141		25 - 150
M2-4:2 FTS	143		25 - 150
M2-6:2 FTS	131		25 - 150
M2-8:2 FTS	140		25 - 150
d-N-MeFOSA-M	99		20 - 150
d-N-EtFOSA-M	100		20 - 150
d7-N-MeFOSE-M	117		10 - 120
d9-N-EtFOSE-M	124	*5+	10 - 120
13C3 HFPO-DA	124		25 - 150
13C-6:2 FTCA	133		25 - 150
13C-8:2 FTCA	159	*5+	25 - 150



# QC Sample Results

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Method: 537 (modified) - Fluorinated Alkyl Substances - RA

**Lab Sample ID: MB 320-553522/1-A**  
**Matrix: Water**  
**Analysis Batch: 554029**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 553522**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
7:3 FTCA - RA	ND		2.0	ng/L		12/23/21 13:24	12/27/21 14:24	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C-8:2 FTCA - RA	147		25 - 150			12/23/21 13:24	12/27/21 14:24	1

- 1
- 2
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# QC Association Summary

Client: Eurofins Eaton Analytical  
Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## LCMS

### Prep Batch: 553522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83085-2	202112161070	Total/NA	Water	3535	
320-83085-3	202112161071	Total/NA	Water	3535	
MB 320-553522/1-A - RA	Method Blank	Total/NA	Water	3535	
MB 320-553522/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-553522/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-553522/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 554029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83085-2	202112161070	Total/NA	Water	537 (modified)	553522
320-83085-3	202112161071	Total/NA	Water	537 (modified)	553522
MB 320-553522/1-A	Method Blank	Total/NA	Water	537 (modified)	553522
MB 320-553522/1-A - RA	Method Blank	Total/NA	Water	537 (modified)	553522
LCS 320-553522/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	553522
LCSD 320-553522/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	553522

# Lab Chronicle

Client: Eurofins Eaton Analytical  
Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

**Client Sample ID: 202112161070**

**Lab Sample ID: 320-83085-2**

**Date Collected: 12/11/21 16:00**

**Matrix: Water**

**Date Received: 12/16/21 10:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			39.7 mL	10.0 mL	553522	12/23/21 13:24	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			554029	12/27/21 14:55	AEC	TAL SAC

**Client Sample ID: 202112161071**

**Lab Sample ID: 320-83085-3**

**Date Collected: 12/10/21 15:04**

**Matrix: Water**

**Date Received: 12/16/21 10:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			41.8 mL	10.0 mL	553522	12/23/21 13:24	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			554029	12/27/21 15:25	AEC	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Eurofins Eaton Analytical  
 Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

## Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	<cert No.>	01-29-22

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
537 (modified)	3535	Water	11CI-PF3OUdS
537 (modified)	3535	Water	3:3 FTCA
537 (modified)	3535	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 (modified)	3535	Water	4:2 FTS
537 (modified)	3535	Water	5:3 FTCA
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	7:3 FTCA
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	9CI-PF3ONS
537 (modified)	3535	Water	HFPO-DA (GenX)
537 (modified)	3535	Water	NEtFOSA
537 (modified)	3535	Water	NEtFOSAA
537 (modified)	3535	Water	NEtFOSE
537 (modified)	3535	Water	NFDHA
537 (modified)	3535	Water	NMeFOSA
537 (modified)	3535	Water	NMeFOSAA
537 (modified)	3535	Water	NMeFOSE
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanesulfonic acid (PFDoS)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanesulfonic acid (PFNS)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanesulfonic acid (PFPeS)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTTrDA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)
537 (modified)	3535	Water	PFEESA
537 (modified)	3535	Water	PFMBA
537 (modified)	3535	Water	PFMPA

# Method Summary

Client: Eurofins Eaton Analytical  
Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

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

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: Eurofins Eaton Analytical  
Project/Site: Folder # 975687, Job# 1000014

Job ID: 320-83085-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83085-2	202112161070	Water	12/11/21 16:00	12/16/21 10:50
320-83085-3	202112161071	Water	12/10/21 15:04	12/16/21 10:50

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# Chain of Custody Record

<b>Client Information</b>		Samp. ID: <b>AECOM</b>		LAB PM: <b>Elaine Walker</b>		Carrier Tracking No's: <b>FSSS-20211210</b>	
Client Contact: <b>Althea Ramos (alternate Margie Pascua)</b>		Phone: <b>808-521-3051</b>		E-Mail: <b>M.Elaine.Walker@EurofinsE.I.com</b>		State of Origin: <b>Hawaii</b>	
Company: <b>AECOM</b>		Address: <b>1001 Bishop St. Suite 1600</b>		City: <b>Honolulu</b>		Page: <b>Page 1 of 1</b>	
City: <b>Honolulu</b>		State: <b>HI</b>		Zip: <b>96813</b>		Job #:	
Phone: <b>808-521-3051 (direct: 808-529-7263) (alternate: 808-356-5373)</b>		Compliance Project: <b>Δ Yes Δ No</b>		PO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Anchor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email: <b>althea.ramos@aecom.com; alternate: margie.pascua@aecom.com</b>		Project #:		WO #:		Preservation Codes: M - Hexane N - None O - AsH2O2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - MCAA W - pH 4-5 X - other (specify)	
Project Name: <b>CV18F0126</b>		Site: <b>RH</b>		Due Date Requested: See subcontract		Analysis Requested	
Site: <b>RH</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
ERH2168		12/7/21		16:00		G W	
ERH2169		12/7/21		16:00		G W	
ERH2170		12/7/21		16:00		G W	
ERH2171		12/7/21		13:04		G W	
Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)	
EPA 8260 VOC (Full list+THCs)		EPA 8260 TPH-O		EPA 8260 TPH-O		EPA 8260 TPH-O	
Total Number of Containers		Total Number of Containers		Total Number of Containers		Total Number of Containers	
1		1		1		1	
Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	
only 1 vial!		only 1 vial!		only 1 vial!		only 1 vial!	
only 1 vial!		only 1 vial!		only 1 vial!		only 1 vial!	
only 1 vial!		only 1 vial!		only 1 vial!		only 1 vial!	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Return To Client		Return To Client		Return To Client		Return To Client	
Disposal By Lab		Disposal By Lab		Disposal By Lab		Disposal By Lab	
Archive For: _____ Months		Archive For: _____ Months		Archive For: _____ Months		Archive For: _____ Months	
Prelim data (Level 1or2)=see TAT above, DoD Stage 4 report standard TAT, AECOM EQW/S EDD.		Prelim data (Level 1or2)=see TAT above, DoD Stage 4 report standard TAT, AECOM EQW/S EDD.		Prelim data (Level 1or2)=see TAT above, DoD Stage 4 report standard TAT, AECOM EQW/S EDD.		Prelim data (Level 1or2)=see TAT above, DoD Stage 4 report standard TAT, AECOM EQW/S EDD.	
Date: _____		Date: _____		Date: _____		Date: _____	
Relinquished by: <b>Mathew Ym</b>		Relinquished by: <b>Mathew Ym</b>		Relinquished by: <b>Mathew Ym</b>		Relinquished by: <b>Mathew Ym</b>	
Therm ID: <b>189</b>		Therm ID: <b>189</b>		Therm ID: <b>189</b>		Therm ID: <b>189</b>	
Contrl Dsc: <b>2.4</b>		Contrl Dsc: <b>2.4</b>		Contrl Dsc: <b>2.4</b>		Contrl Dsc: <b>2.4</b>	
Packaging: <b>Sub</b>		Packaging: <b>Sub</b>		Packaging: <b>Sub</b>		Packaging: <b>Sub</b>	
Cust. Seal: <b>Yes</b>		Cust. Seal: <b>Yes</b>		Cust. Seal: <b>Yes</b>		Cust. Seal: <b>Yes</b>	
Blue Ice (Net Dr., Nonr)		Blue Ice (Net Dr., Nonr)		Blue Ice (Net Dr., Nonr)		Blue Ice (Net Dr., Nonr)	
Signature: <b>Deedee Dill</b>		Signature: <b>Deedee Dill</b>		Signature: <b>Deedee Dill</b>		Signature: <b>Deedee Dill</b>	
Date: <b>12/28/21</b>		Date: <b>12/28/21</b>		Date: <b>12/28/21</b>		Date: <b>12/28/21</b>	
Company: <b>FGS</b>		Company: <b>FGS</b>		Company: <b>FGS</b>		Company: <b>FGS</b>	
Chain of Custody		Chain of Custody		Chain of Custody		Chain of Custody	
320-83085		320-83085		320-83085		320-83085	
1416K2		1416K2		1416K2		1416K2	
10:50		10:50		10:50		10:50	



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Eaton Analytical

**Ship To:**

Test America, Inc - Sacramento  
880 Riverside Parkway

West Sacramento, CA 95605-1501

Phone: 916-373-5600 Fax: 916-372-7768

**Folder #:** 975687  
**Report Due:** 12/27/2021

**Submittal Form**

**Date:** 12/17/2021

**\*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!**  
Report & Invoice must have the Folder # 975687 Job # 1000014

Report all quality control data according to Method. Include dates analyzed, Date extracted (if extracted), and Method reference on the report.  
Results must have Complete data & QC with Approval Signature.

**Reports:** Jackie Contreras Sub-Contracting Administrator  
**EMAIL TO:** Eaton-MonroviaSubContract@eurofins.com  
**Eurofins Eaton Analytical, LLC** 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016  
Phone (626) 386-1165 Fax (626) 386-1122  
**Invoices to:** Eurofins Eaton Analytical, LLC  
**Accounts Payable** 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # and Exp Date for requested tests + matrix.  
Samples from: HAWAII

follow deb's instruction on email

<b>Sample ID</b> 202112161069	<b>Client Sample ID for reference onl</b> ERH2169 - Solid Matrix HOLD - 40ml vial containing ~15ml weight depends on	<b>Sample Date &amp; Time</b> 12/07/21 1600	<b>Matrix</b> Solid	<b>Clip Code</b>	<b>PWSID</b> JLS
<b>Sample type:</b>	<b>Sample Event:</b>	<b>Sample Point ID:</b>	<b>Facility ID:</b>	<b>Static ID:</b> CUI - DIVERS -	

<b>Method</b> Misc subcontracted work	<b>Prep Method</b>	<b>Analysis Requested</b> SEE ABOVE COMMENTS For Testing
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<b>Sample ID</b> 202112161070	<b>Client Sample ID for reference onl</b> ERH2170 - unpreserved <40ml HOLD	<b>Sample Date &amp; Time</b> 12/11/21 1600	<b>Matrix</b> Liquid	<b>Clip Code</b>	<b>PWSID</b> JLS
<b>Sample type:</b>	<b>Sample Event:</b>	<b>Sample Point ID:</b>	<b>Facility ID:</b>	<b>Static ID:</b> CUI - DIVERS -	

<b>Method</b> Misc subcontracted work	<b>Prep Method</b>	<b>Analysis Requested</b> SEE ABOVE COMMENTS For Testing
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<b>Sample ID</b> 202112161071	<b>Client Sample ID for reference onl</b> ERH2171 - HCL preserved = 40ml HOLD	<b>Sample Date &amp; Time</b> 12/10/21 1504	<b>Matrix</b> Liquid	<b>Clip Code</b>	<b>PWSID</b> JLS
<b>Sample type:</b>	<b>Sample Event:</b>	<b>Sample Point ID:</b>	<b>Facility ID:</b>	<b>Static ID:</b> CUI - DIVERS -	

<b>Method</b> Misc subcontracted work	<b>Prep Method</b>	<b>Analysis Requested</b> SEE ABOVE COMMENTS For Testing
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Relinquished by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Sample Control  
Sample Control

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS  
 An Acknowledgement of Receipt is requested to attn: Jackie Contreras





# Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 320-83085-1

**Login Number: 83085**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Her, David A**

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1723116
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	Rcvd by email
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Client was notified
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is < 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	