

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Roger Brewer
Hawaii Department of Health
919 Ala Moana Blvd
Room 206
Honolulu, Hawaii 96814

Generated 11/27/2023 2:05:12 PM

JOB DESCRIPTION

Kahalui Fire Training Pit Study

JOB NUMBER

320-104757-2

Eurofins Sacramento

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



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Authorized for release by
Karen Dahl, Senior Project Manager
Karen.Dahl@et.eurofinsus.com
(916)374-4384

November 20, 2023

Hawaii Department of Health
919 Ala Moana Blvd
Room 206
Honolulu, HI 96814

Attn: Roger Brewer

RE: PFAS by NTA Results for Eurofins Job 320-104757

Dear Mr. Brewer,

Enclosed are the Non-Target Analysis (NTA) results for potential PFAS parameters in the one solid sample and associated SPLP leachate submitted to Eurofins in Job 320-104757-1. Client and laboratory sample IDs are as follows: KFTA-DU5A (320-104757-1) and KFTA- SPLP LEACHATE (320-104757-6). Analysis was requested via LC-QTOF MS (liquid chromatography quadrupole time-of-flight mass spectrometry) for identification of potential PFAS analytes not determined in the routine targeted analyses that are typically applied to aqueous samples. The NTA determination inherently incurs an increased level of uncertainty and certified reference standards are not used to confirm reported results.

There were several non-target analytes that were identified as potential PFAS parameters in these samples; **Perfluorobutanesulfonamide (FBSA)**, **Perfluorohexanesulfonamide (FHxSA)** and **Perfluoropropanesulfonic acid (PFPrS)** were present in greatest apparent abundance. **Perfluoropropanoic acid (PFPrA)** was potentially present in sample KFTA-DU5A (320-104757-1) but has relatively poor response under the conditions of the NTA acquisition and its identification is less reliable.

Note that no additional analytes were observed in the positive SWATH analysis of either sample, as described below. Thus, all reported results reflect the negative SWATH acquisition.

Sample Preparation

For sample KFTA- SPLP LEACHATE (320-104757-6), a 10 ml aliquot of leachate previously prepared was subsampled and the pH of the aliquot was measured. The sample aliquot was neutralized, 2.5 ml of the neutralized sample was diluted to 5 ml at final composition of 50:50 MeOH/Water, and a 300 ul aliquot of the 1:1 diluted sample was filtered into an LC/MS injection vial for analysis by LC-QTOF MS. For sample KFTA-DU5A (320-104757-1), a 10 g aliquot of the solid sample was extracted using the laboratory work instruction for solid samples from Hawaii DOH. A 5 ml subsample of the resulting extract (1g sample equivalent) was neutralized, diluted to 10 ml at final composition of 50:50 MeOH/Water, and a 300 ul aliquot of the diluted sample (1 g -> 10 ml) was filtered into an LC/MS injection vial for analysis by LC-QTOF MS.

Sample Analysis

The sample extracts were introduced into the LC system utilizing an optimized gradient to enhance the identification of early eluting compounds. The gradient ramps slowly over a period of 20 minutes where the compounds are separated on a 3x50mm Phenomenex Gemini C18 analytical column using 20mM ammonium acetate in water and methanol as mobile phases. The SCIEX X500r quadrupole time-of-flight mass spectrometer (QTOF MS) was set to run in sequential Electrospray Ionization (ESI) techniques in both positive and negative polarities utilizing the same gradient and mobile phases.

Results

Data were processed with SCIEX MarkerView deconvolution software. This software extracts the raw chromatograms across a defined mass range from 0-1500 amu and examines peaks of interest utilizing exact mass and MS/MS fragmentation. The peaks are compared to comprehensive fluorinated compound libraries where the software algorithm assigns possible matches to each peak, or feature. The observed features were then evaluated by a Eurofins analyst to confirm ample signal-to-noise as well as confirming the compound fit to the library match. The reported results include only peaks with a signal-to-noise greater than 10:1 and an absolute intensity greater than 1000 counts.

One limitation the software cannot account for are multiple isomers of the same compound. While the skeletal backbone and molecular formula will be the same, the match might represent a structural isomer of the identified compound.

Please find the results for the negative SWATH analyses in the attached Tables.

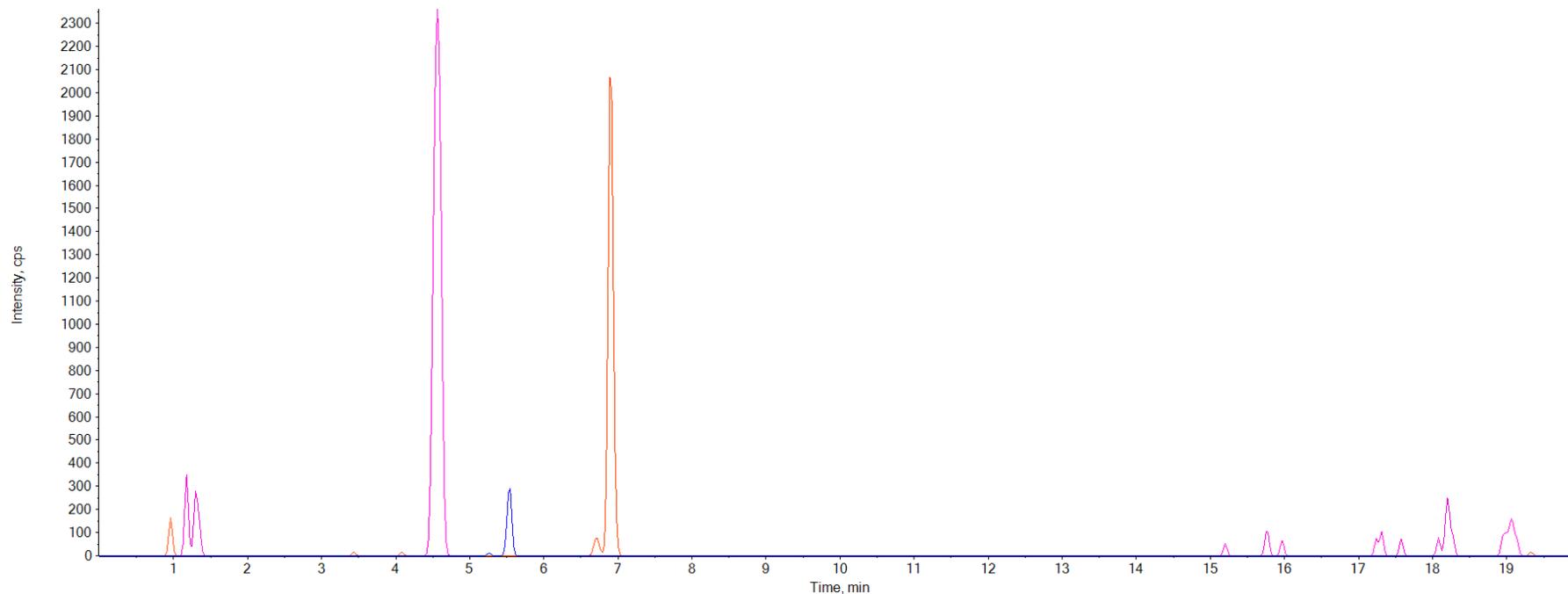
Please do not hesitate to let us know if there are any questions.

2023.11.8_NTA_SNEG_013.wiff2 - 320-104757-A-6-D

Data File	2023.11.8_NTA_SNEG_013.wiff2	Result Table	2023.11.10_NEG_SWATH
Acquisition Date	11/8/2023 11:54:09 AM	Algorithm Used	MQ4
Acquisition Method	N/A	Instrument Name	X500 QTOF
Project	PFAS_A11	Processing Method	SWATH_PFAS_Neg_1659_List.qmethod

Extracted Ion Chromatogram

- perfluorobutane sulfonamide (297.9490 - 297.9690) from 320-104757-A-6-D (2023.11.8_NTA_SNEG_013.wiff2 (sample 1))
- PFPrS (248.9362 - 248.9562) from 320-104757-A-6-D (2023.11.8_NTA_SNEG_013.wiff2 (sample 1))
- FHxSA (397.9426 - 397.9626) from 320-104757-A-6-D (2023.11.8_NTA_SNEG_013.wiff2 (sample 1))



Summary

#	Analyte Peak Name	Mass Error Confidence	Fragment Mass Error Confidence	RT Confidence	Isotope Confidence	Library Confidence	Formula Confidence	Ion Ratio Confidence	Sample Name
354	perfluorobutane sulfonamide	✓	●	●	▲	✓	●	●	320-104757-A-6-D
1670	PFPPrS	✓	●	●	▲	✓	●	●	320-104757-A-6-D
1701	FHxSA	✓	●	●	▲	✓	●	●	320-104757-A-6-D

#	Analyte Peak Name	Sample Type	Component Name	Area	Calculated Concentration	Formula	Precursor Mass	Found At Mass	Mass Error (ppm)	Library Hit
354	perfluorobutane sulfonamide	Unknown	perfluorobutane sulfonamide	1.375e+03	<2 points	C4H2O2SNF9	297.959	297.9603	4.3	FBSA (perfluorobutane sulfonamide) (neg) Smart Confirmation
1670	PFPPrS	Unknown	PFPPrS	1.777e+04	<2 points	C3HF7O3S	248.946	248.9470	3.3	PFPPrS (perfluoropropane sulfonate) (neg)
1701	FHxSA	Unknown	FHxSA	1.045e+04	<2 points	C6H2F13NO2S	397.953	397.9528	0.5	FHxSA (perfluorohexane sulfonamide) (neg)

#	Analyte Peak Name	Library Score	Isotope Ratio Difference
354	perfluorobutane sulfonamide	99.5	5.6
1670	PFPPrS	100.0	5.2
1701	FHxSA	100.0	6.0

End of Table

perfluorobutane sulfonamide (Mass/FragMass/RT/Isotope/Library/Formula/Ion Ratio) ✓ ● ● ▲ ✓ ● ●

Retention Time: 5.54 minutes Precursor m/z : 297.9590 Fit (%) 99.5% RFit (%) 100.0%		Exp RT: 6.08 minutes Analyte Name: perfluorobutane sulfonamide	
		Collision Energy = 35 ± 15 eV	
	Acquired / Library MSMS		
	Acquired / Theoretical MS		

PFPrS (Mass/FragMass/RT/Isotope/Library/Formula/Ion Ratio) ✓ ● ● ▲ ✓ ● ●

Retention Time: 4.56 minutes Exp RT: 5.28 minutes Precursor m/z : 248.9462 Analyte Name: Fit (%) 100.0% RFit (%) 86.8% PFPrS	
Collision Energy = 35 ± 15 eV	
<p>Intensity, cps</p> <p>Time, min</p>	Acquired / Library MSMS
	<p>● Spectrum from 2023.11.8_NTA_SNEG_013.wiff2 (... - 290) (50 - 5000) from 4.744 to 5.115 min</p> <p>● Library Spectrum: PFPrS (perfluoropropane sulfonate) (neg) , CE=35±30</p> <p>Intensity, cps</p> <p>Mass/Charge, Da</p>
<p>● Spectrum from 2023.11.8_NTA_SNEG_013.wiff2...TOF MS (50 - 5000) from 4.539 to 4.587 min</p> <p>● [C3HF7O3S-H]⁻</p> <p>Intensity, cps</p> <p>Mass/Charge, Da</p>	Acquired / Theoretical MS
	<p>● Spectrum from 2023.11.8_NTA_SNEG_013.wiff2...TOF MS (50 - 5000) from 4.539 to 4.587 min</p> <p>● [C3HF7O3S-H]⁻</p> <p>Intensity, cps</p> <p>Mass/Charge, Da</p>



FHxSA (Mass/FragMass/RT/Isotope/Library/Formula/Ion Ratio)

<p>Retention Time: 6.90 minutes Exp RT: 7.00 minutes Precursor m/z : 397.9526 Analyte Name: Fit (%) 100.0% RFit (%) 100.0% FHxSA</p>	
Collision Energy = 35 ± 15 eV	
	Acquired / Library MSMS
	Acquired / Theoretical MS



2023.10.18_NTA_SNEG_008.wiff2 - 104757-1

Data File	2023.10.18_NTA_SNEG_008.wiff2	Result Table	2023.10.18_NEG_SWATH.B
Acquisition Date	10/18/2023 1:07:56 PM	Algorithm Used	MQ4
Acquisition Method	N/A	Instrument Name	X500 QTOF
Project	PFAS_A11	Processing Method	SWATH_PFAS_Neg_1659_List.11.10.2023.qmethod

Summary

#	Analyte Peak Name	Mass Error Confidence	Fragment Mass Error Confidence	RT Confidence	Isotope Confidence	Library Confidence	Formula Confidence	Ion Ratio Confidence	Sample Name
354	perfluorobutane sulfonamide	✓	●	●	▲	✓	●	●	104757-1
1663	PFPPrA	✓	●	●	✓	●	●	●	104757-1
1670	PFPPrS	✓	●	●	✓	✓	●	●	104757-1
1701	FHxSA	✓	●	●	▲	✓	●	●	104757-1

#	Analyte Peak Name	Sample Type	Component Name	Area	Calculated Concentration	Formula	Precursor Mass	Found At Mass	Mass Error (ppm)	Library Hit
354	perfluorobutane sulfonamide	Unknown	perfluorobutane sulfonamide	1.605e+03	<2 points	C4H2O2SNF9	297.959	297.9591	0.5	FBSA (perfluorobutane sulfonamide) (neg) Smart Confirmation
1663	PFPPrA	Unknown	PFPPrA	1.601e+03	<2 points	C3HF5O2	162.982	162.9830	3.8	No Match
1670	PFPPrS	Unknown	PFPPrS	2.189e+04	<2 points	C3HF7O3S	248.946	248.9459	-1.0	PFPPrS (perfluoropropane sulfonate) (neg)
1701	FHxSA	Unknown	FHxSA	1.935e+04	<2 points	C6H2F13NO2S	397.953	397.9533	1.9	FHxSA (perfluorohexane sulfonamide) (neg)

#	Analyte Peak Name	Library Score	Isotope Ratio Difference
354	perfluorobutane sulfonamide	99.7	5.6
1663	PFPPrA	0.0	3.3
1670	PFPPrS	99.9	4.0
1701	FHxSA	100.0	5.2

End of Table

perfluorobutane sulfonamide (Mass/FragMass/RT/Isotope/Library/Formula/Ion Ratio) ✓ ● ● ▲ ✓ ● ●

Retention Time: 5.39 minutes Exp RT: 6.08 minutes Precursor m/z : 297.9590 Analyte Name: Fit (%) 99.7% RFit (%) 100.0% perfluorobutane sulfonamide	
Collision Energy = 35 ± 15 eV	
	Acquired / Library MSMS
	Acquired / Theoretical MS

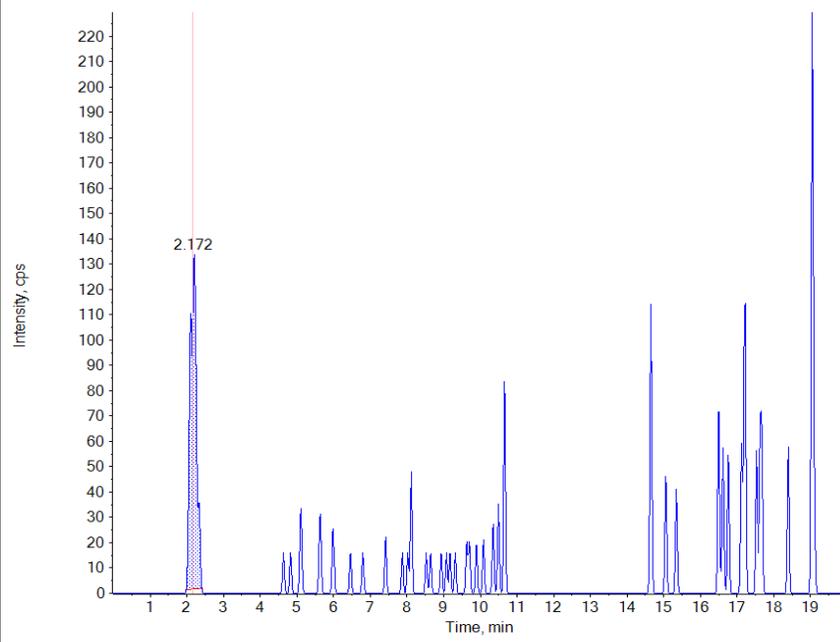


PFPPrA (Mass/FragMass/RT/Isotope/Library/Formula/Ion Ratio)

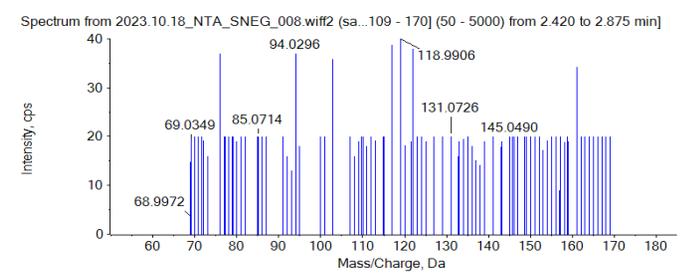
Retention Time: 2.17 minutes
Precursor m/z : 162.9824
Fit (%) N/A **RFit (%)** N/A

Exp RT: 3.06 minutes
Analyte Name:
PFPPrA

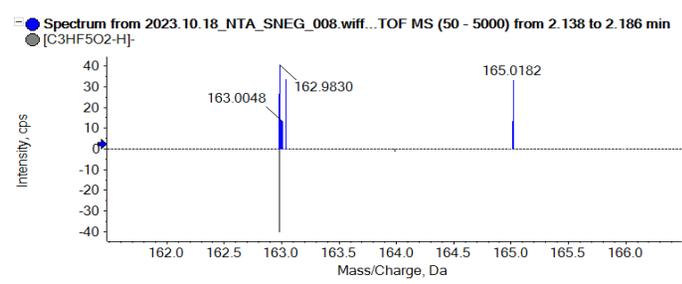
Collision Energy = 35 ± 15 eV



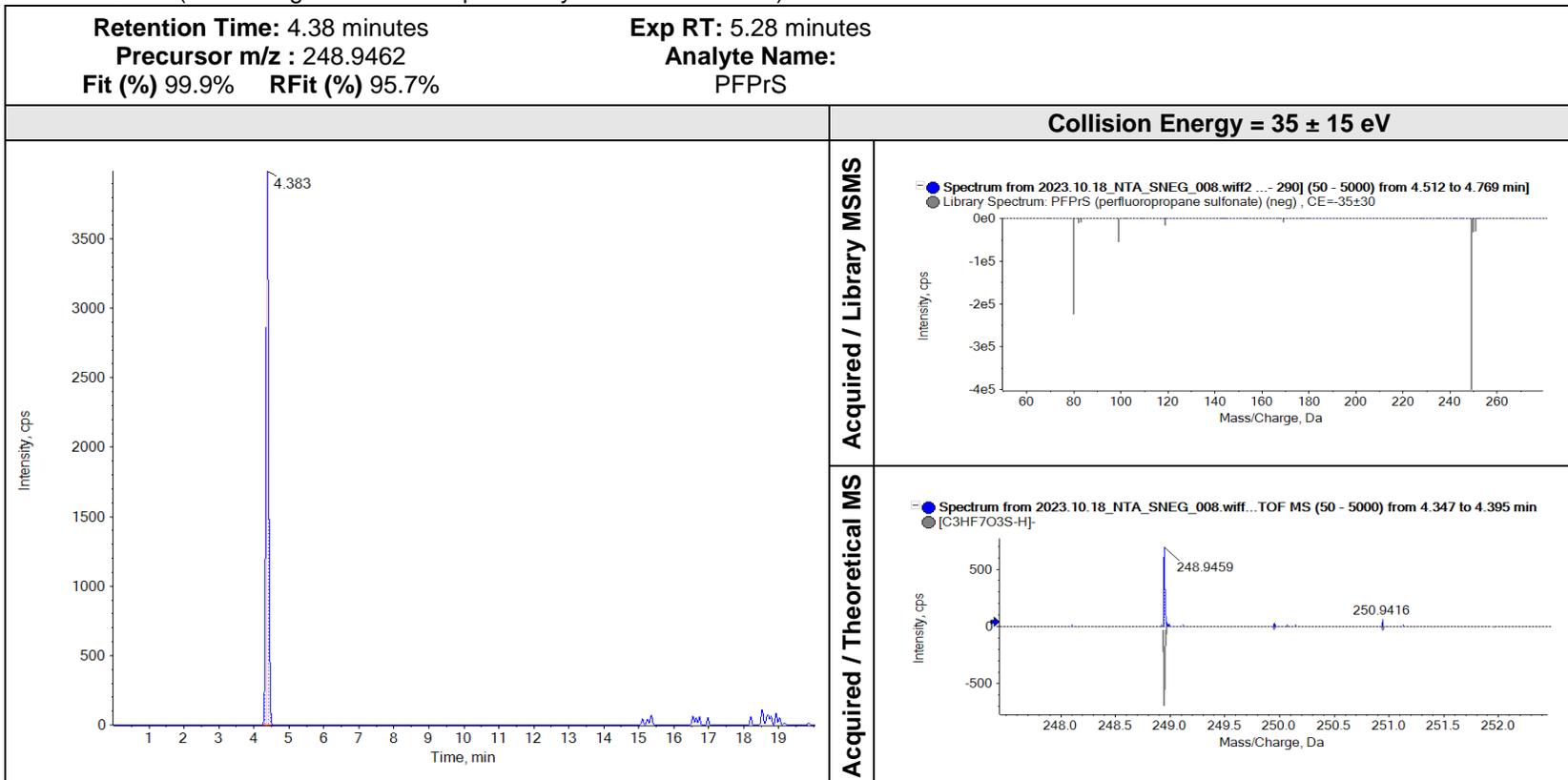
Acquired / Library MSMS



Acquired / Theoretical MS



PFPPrS (Mass/FragMass/RT/Isotope/Library/Formula/Ion Ratio) ✓ ● ● ✓ ✓ ● ●





FHxSA (Mass/FragMass/RT/Isotope/Library/Formula/Ion Ratio)

<p>Retention Time: 6.73 minutes Exp RT: 7.00 minutes Precursor m/z : 397.9526 Analyte Name: Fit (%) 100.0% RFit (%) 98.9% FHxSA</p>	
Collision Energy = 35 ± 15 eV	
	Acquired / Library MSMS
	Acquired / Theoretical MS

Report to: roger.brewer@doh.hawaii.gov
 Invoice To: Tetra Tech
 Address: 737 Bishop St, Suite 2340 Honolulu HI 96813

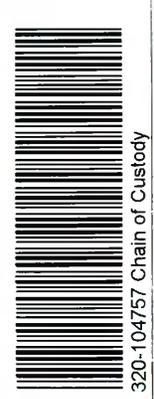
Contact: Eric Jensen
 808-225-7084
 eric.jensen@tetratech.com

703589 eurofins

Environment Testing America

TAL-8210

Client Contact Company Name: Hawaii Dept of Health Address: 2385 Waimanalo Home Rd #104 City/State/Zip: Pearl City, HI 96872 Phone: 808-586-4249 Fax: Project Name: Kahului Fire Training Area Site: P O #		Project Manager: Roger Brewer Tell/Email: See Above Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Regulatory Program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other:		Site Contact: Lab Contact: Karen Dahl Date: _____ Carrier: _____		COC No: _____ of _____ COCs Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes:			
Sample Identification KFTA-DU5A KFTA-DU5B KFTA-DU5C		Sample Date 9/6/23 11 11		Sample Time 11:30 am 11 11		Sample Type (C=Comp, G=Grab) G G G		Matrix Soil C C		# of Cont. 1 1 1	
Preservation: 1= Ice 2= HCl; 3= H2SO4; 4=HNO3; 5= Formalin 6= Neutral Possible Hazard Identification: _____ Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months Special Instructions/QC Requirements & Comments: -MI (ISA) process: air dry, sieve < 2mm, minimum 10 gram subsamples for testing * sampler from AFFF impacted site possible high PFAS concentration -Tetra Tech Laboratory subsample triplicate on KFTA-DU5A Custody Seal No.: 7106599 Cooler Temp. (°C): Obs'd: 5.7 Corr'd: 5.7 Therm ID No.: _____ Relinquished by: <i>Priscilla B</i> Date/Time: 9/12/23 9:00 AM Relinquished by: <i>GET SNA</i> Date/Time: 9/12/23 09:30 Relinquished by: _____ Date/Time: _____											





Environment Testing

Sacramento Sample Receiving Notes

1
2
3
4

Tracking # 9836 2131 5160

Loc 320
104757

Job _____

SO / PO / FO / SAT (2-Day) / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal Cooler Custody Seal Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm ID <u>602</u> Corr Factor: (+ / -) _____ °C	Notes _____ _____ _____ _____ _____ _____ _____ _____ _____ _____																																																															
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*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Login Sample Receipt Checklist

Client: Hawaii Department of Health

Job Number: 320-104757-2

Login Number: 104757

List Source: Eurofins Sacramento

List Number: 1

Creator: Medeiros, Ryan M

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