

Certificate of Analysis

FINAL REPORT

Work Orders:	0D06015	Report Date:	4/20/2020
		Received Date:	4/6/2020
Project:	EPA 537	Turnaround Time:	Normal
i loject.		Phones:	(562) 220-2112
		Fax:	(562) 220-2144
Attn:	Norm Mamea	P.O. #:	
Client:	City of Paramount 15300 Downey Ave. Paramount, CA 90723	Billing Code:	

Dear Norm Mamea,

Enclosed are the results of analyses for samples received 4/06/20 with the Chain-of-Custody document. The samples were received in good condition, at 1.1 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

ample: Well 14				Sampled: 04,	/06/20 1	0:25 by Allan Goldber	rg (wecklabs)
0D06015-01 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifie
Method: EPA 537.1	Batch ID: W0D0357	Instr: LCMS05	Prepared: 0	04/10/20 09:46		Analyst: jan	
11CI-PF3OUdS		ND	1.7	ng/l	1	04/14/20	
9CI-PF3ONS		ND	1.7	ng/l	1	04/14/20	
ADONA		ND	1.7	ng/l	1	04/14/20	
EtFOSAA		ND	1.7	ng/l	1	04/14/20	
HFPO-DA		ND	1.7	ng/l	1	04/14/20	
MeFOSAA		ND	1.7	ng/l	1	04/14/20	
PFBS			1.7	ng/l	1	04/14/20	
PFDA		ND	1.7	ng/l	1	04/14/20	
PFDoA		ND	1.7	ng/l	1	04/14/20	
PFHpA		ND	1.7	ng/l	1	04/14/20	
PFHxA			1.7	ng/l	1	04/14/20	
PFHxS		2.0	1.7	ng/l	1	04/14/20	
PFNA		ND	1.7	ng/l	1	04/14/20	
PFOA		ND	1.7	ng/l	1	04/14/20	
PFOS		9.4	1.7	ng/l	1	04/14/20	
PFTeDA		ND	1.7	ng/l	1	04/14/20	
PFTrDA		ND	1.7	ng/l	1	04/14/20	
		ND	1.7	ng/l	1	04/14/20	
irrogate(s) 13C2-PFDA			70-130	Conc: 36	64	04/14/20	
13C2-PFHxA		105%	70-130	Conc: 36		04/14/20	



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Sample Results						((Continued)
Sample: Well 14 0D06015-01 (Water)				Sampled: 04	/06/20 1	0:25 by Allan Goldber ((rg (wecklabs) Continued)
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 537.1 (Continued)	Batch ID: W0D0357	Instr: LCMS05	Prepared: 0	4/10/20 09:46		Analyst: jan	
d5-EtFOSAA		103%	70-130	Conc: 36	5.0	04/14/20	
HFPO-DA-13C3		104%	70-130	Conc: 36	6.3	04/14/20	
Sample: Well 14 FB 0D06015-02 (Water)				Sampled: 04	4/06/20	0:00 by Allan Goldber	g (wecklabs)
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 537.1	Batch ID: W0D0357	Instr: LCMS05	Prepared: 0	4/10/20 09:46		Analyst: jan	
11CI-PF3OUdS		ND	1.7	ng/l	1	04/14/20	
9CI-PF3ONS		ND	1.7	ng/l	1	04/14/20	
ADONA		ND	1.7	ng/l	1	04/14/20	
EtFOSAA		ND	1.7	ng/l	1	04/14/20	
HFPO-DA		ND	1.7	ng/l	1	04/14/20	
MeFOSAA		ND	1.7	ng/l	1	04/14/20	
PFBS		ND	1.7	ng/l	1	04/14/20	
PFDA		ND	1.7	ng/l	1	04/14/20	
PFDoA		ND	1.7	ng/l	1	04/14/20	
PFHpA		ND	1.7	ng/l	1	04/14/20	
PFHxA		ND	1.7	ng/l	1	04/14/20	
PFHxS		ND	1.7	ng/l	1	04/14/20	
PFNA		ND	1.7	ng/l	1	04/14/20	
PFOA		ND	1.7	ng/l	1	04/14/20	
PFOS		ND	1.7	ng/l	1	04/14/20	
PFTeDA		ND	1.7	ng/l	1	04/14/20	
PFTrDA		ND	1.7	ng/l	1	04/14/20	
PFUnA		ND	1.7	ng/l	1	04/14/20	
Surrogate(s)							
13C2-PFDA		103%	70-130	Conc: 3	5.9	04/14/20	
13C2-PFHxA		109%	70-130	Conc: 37	7.9	04/14/20	
d5-EtFOSAA		103%	70-130	Conc: 3	5.8	04/14/20	

HFPO-DA-13C3

103%

70-130

Conc: 35.9

04/14/20



Analyte

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Quality Control Results

Per- and Polyflourinated Alkyl Substances (PFAS) by SPE/LCMSMS

Result

							li Mi	, 0.0
		FINAL REPOR						
		Spike	Source		%REC		RPD	
MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

rinaryte	Nesun	WINE	Units	Level N	count /once		Quan
tch: W0D0357 - EPA 537/SPE							
Blank (W0D0357-BLK1)				Prepared: 04/10/20 Ana	alyzed: 04/14/20		
11CI-PF3OUdS	ND	2.0	ng/l				
9CI-PF3ONS	ND	2.0	ng/l				
ADONA	ND	2.0	ng/l				
EtFOSAA	ND	2.0	ng/l				
HFPO-DA	ND	2.0	ng/l				
MeFOSAA	ND	2.0	ng/l				
PFBS	ND	2.0	ng/l				
PFDA	ND	2.0	ng/l				
PFDoA	ND	2.0	ng/l				
PFHpA		2.0	ng/l				
PFHxA		2.0	ng/l				
			-				
	ne -	2.0	ng/l				
	ne -	2.0	ng/l				
PFOA		2.0	ng/l				
PFOS		2.0	ng/l				
PFTeDA		2.0	ng/l				
PFTrDA		2.0	ng/l				
PFUnA	• • • • • • • • • • • • • • • • • • •	2.0	ng/l				
urrogate(s) 13C2-PFDA			na/l	40.0	93	70-130	
	••••		ng/l				
			ng/l	40.0	55	70-130	S
	00.0		ng/l	40.0	89	70-130	
HFPO-DA-13C3	21.8		ng/l	40.0	54	70-130	S
CS (W0D0357-BS1)				Prepared: 04/10/20 Ana	-		
11CI-PF3OUdS		2.0	ng/l	2.00	89	50-150	
9CI-PF3ONS		2.0	ng/l	2.00	107	50-150	
ADONA		2.0	ng/l	2.00	103	50-150	
EtFOSAA	2.04	2.0	ng/l	2.00	102	50-150	
HFPO-DA	2.09	2.0	ng/l	2.00	104	50-150	
MeFOSAA	1.67	2.0	ng/l	2.00	83	50-150	
PFBS	2.18	2.0	ng/l	2.00	109	50-150	
PFDA	2.30	2.0	ng/l	2.00	115	50-150	
PFDoA	2.15	2.0	ng/l	2.00	107	50-150	
PFHpA	2.57	2.0	ng/l	2.00	128	50-150	
PFHxA	2.35	2.0	ng/l	2.00	118	50-150	
PFHxS	1.92	2.0	ng/l	2.00	96	50-150	
PFNA	2.21	2.0	ng/l	2.00	110	50-150	
PFOA	2.42	2.0	ng/l	2.00	121	50-150	
PFOS		2.0	ng/l	2.00	118	50-150	
PFTeDA	2.00	2.0	ng/l	2.00	100	50-150	
	2.00		ng/l	2.00	100	50-150	
PFTrDA	2 11						
PFTrDA		2.0 2.0	ng/l	2.00	96	50-150	



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(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by SPE/LCMSMS (Continued)

Quality Control Results

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W0D0357 - EPA 537/SPE (Continued)										
LCS (W0D0357-BS1)			Р	repared: 04/10/2	20 Analyzed: 0	4/14/20				
Surrogate(s) 13C2-PFDA	42.4		ng/l	40.0		106	70-130			
13C2-PFHxA			ng/l	40.0		106	70-130			
d5-EtFOSAA	41.3		ng/l	40.0		103	70-130			
HFPO-DA-13C3	41.5		ng/l	40.0		104	70-130			
			-							
LCS Dup (W0D0357-BSD1) 11CI-PF3OUdS	1.69	2.0	ng/l	repared: 04/10/2 2.00	20 Analyzed: (84	50-150	6	30	
9CI-PF3ONS		2.0	ng/l	2.00		81	50-150	28	30	
ADONA	1.52	2.0	ng/l	2.00		76	50-150	30	30	
EtFOSAA	2.02	2.0	ng/l	2.00		101	50-150	1	30	
HFPO-DA	1.52	2.0	ng/l	2.00		76	50-150	31	30	Q-12
MeFOSAA	1.78	2.0	ng/l	2.00		89	50-150	6	30	
PFBS	1.65	2.0	ng/l	2.00		82	50-150	28	30	
PFDA	1.79	2.0	ng/l	2.00		89	50-150	25	30	
PFDoA	1.55	2.0	ng/l	2.00		77	50-150	33	30	Q-12
PFHpA		2.0	ng/l	2.00		98	50-150	27	30	
PFHxA	1.72	2.0	ng/l	2.00		86	50-150	31	30	Q-12
PFHxS	1.58	2.0	ng/l	2.00		79	50-150	19	30	
PFNA	1.81	2.0	ng/l	2.00		90	50-150	20	30	
PFOA	1.92	2.0	ng/l	2.00		96	50-150	23	30	
PFOS	1.76	2.0	ng/l	2.00		88	50-150	29	30	
PFTeDA	1.75	2.0	ng/l	2.00		87	50-150	13	30	
PFTrDA	1.88	2.0	ng/l	2.00		94	50-150	11	30	
PFUnA	1.71	2.0	ng/l	2.00		86	50-150	11	30	
Surrogate(s)										
13C2-PFDA	00		ng/l	40.0		87	70-130			
13C2-PFHxA			ng/l	40.0		76	70-130			
d5-EtFOSAA	00.2		ng/l	40.0		83	70-130			
HFPO-DA-13C3	28.9		ng/l	40.0		72	70-130			



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Notes and Definitions

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N/IN/	
em	Definition
-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
Rec	Percent Recovery
I	Dilution
y	Sample results reported on a dry weight basis
DA	Minimum Detectable Activity
DL	Method Detection Limit
RL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
)	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
२	Not Reportable
D	Relative Percent Difference
ource	Sample that was matrix spiked or duplicated.
С	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.
ıy rema	ining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
Absen	ce of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
EPA 537.1 in Water			
HFPO-DA	13252-13-6	✓	
EtFOSAA	2991-50-6		
MeFOSAA	2355-31-9		
PFDA	335-76-2		
PFDoA	307-55-1		
PFHxA	307-24-4		
PFTeDA	376-06-7		
PFTrDA	72629-94-8		
PFUnA	2058-94-8		
11CI-PF3OUdS	763051-92-9		
9CI-PF3ONS	756426-58-1		
ADONA	958445-44-8		

Reviewed by:

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Valerie I. Rejuso Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006



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This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.