WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	3J02001	**Report Date:**	11/08/2023
		Received Date:	10/2/2023
Project:	City of Paramount	**Turnaround Time:**	Normal
		Phones:	(562) 275-4252
		Fax:	(562) 921-6101
Attn:	Charlene King	**P.O. #:**	
Client:	Water Replenishment District 4040 Paramount Blvd. Lakewood, CA 90712	**Billing Code:**	

ELAP-CA #1132 • EPA-UCMR #CA00211 • LACSD #10143

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.

Dear Charlene King,

Enclosed are the results of analyses for samples received 10/02/23 with the Chain-of-Custody document. The samples were received in good condition, at 3.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Valerie I. Ayo
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Well 14, RegID: CA1910105_016_016	Allan Goldberg	3J02001-01	Water	10/02/23 10:20	
Well 14 Field Blank, RegID: CA1910105_016_016	Allan Goldberg	3J02001-02	Water	10/02/23 00:00	
Well 15 Pre, RegID: CA1910105_025_025	Allan Goldberg	3J02001-03	Water	10/02/23 10:45	
Well 15 Pre Field Blank, RegID: CA1910105_025_025	Allan Goldberg	3J02001-04	Water	10/02/23 00:00	
Well 15 Effluent, RegID: CA1910105_027_027	Allan Goldberg	3J02001-05	Water	10/02/23 10:58	
Well 15 Effluent Field Blank, RegID: CA1910105_027_027	Allan Goldberg	3J02001-06	Water	10/02/23 00:00	
Travel Blank	Allan Goldberg	3J02001-07	Water	10/02/23 00:00	

Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
EPA 533 in Water			
PFBA	375-22-4	✓	
PFMPA	377-73-1	✓	
PFPeA	2706-90-3	✓	
PFBS	375-73-5	✓	
PFMBA	863090-89-5	✓	
PFEESA	113507-82-7	✓	
NFDHA	151772-58-6	✓	
4:2 FTS	757124-72-4	✓	
PFHxA	307-24-4	✓	
PFPeS	2706-91-4	✓	
HFPO-DA	13252-13-6	✓	
PFHpA	375-85-9	✓	
PFHxS	355-46-4	✓	
ADONA	919005-14-4	✓	
6:2 FTS	27619-97-2	✓	
PFOA	335-67-1	✓	
PFHpS	375-92-8	✓	
PFNA	375-95-1	✓	
PFOS	1763-23-1	✓	
9Cl-PF3ONS	756426-58-1	✓	
8:2 FTS	39108-34-4	✓	
PFDA	335-76-2	✓	
PFUnA	2058-94-8	✓	
11Cl-PF3OUdS	763051-92-9	✓	
PFDoA	307-55-1	✓	
13C4-PFBA		✓	
13C5-PFPeA		✓	
13C3-PFBS		✓	
13C2-4:2 FTS		✓	
13C5-PFHxA		✓	
HFPO-DA-13C3		✓	
13C4-PFHpA		✓	
13C3-PFHxS		✓	

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11/08/2023 15:11

Analyses Accreditation Summary

(Continued)

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
EPA 533 in Water (Continued)			
13C2-6:2 FTS		✓	
13C8-PFOA		✓	
13C9-PFNA		✓	
13C8-PFOS		✓	
13C2-8:2 FTS		✓	
13C6-PFDA		✓	
13C7-PFUnA		✓	
13C2-PFDoA		✓	
SRL 524M-TCP in Water			
1,2,3-Trichloropropane	96-18-4	✓	

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Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

Sample: Well 14, RegID: CA1910105_016_016
3J02001-01 (Water)

Sampled: 10/02/23 10:20 by Allan Goldberg

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
1,4-Dioxane by SPE/GCMS SIM, EPA Method 522							
Method: EPA 522			**Instr:** GCMS20				
Batch ID: W3J0114 **Preparation:** EPA 522/SPE			**Prepared:** 10/03/23 08:13				**Analyst:** mld
1,4-Dioxane	**2.0**		0.070	ug/l	1	10/05/23	
Surrogate(s)							
1,4-Dioxane-d8	*101%*	*Conc: 10.1*	*70-130*			*10/05/23*	
Metals by EPA 200 Series Methods							
Method: EPA 200.8			**Instr:** ICPMS04				
Batch ID: W3J0334 **Preparation:** EPA 200.2			**Prepared:** 10/04/23 16:45				**Analyst:** tyc
Manganese, Total	**14**		1.0	ug/l	1	10/09/23	
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS							
Method: EPA 533			**Instr:** LCMS06				
Batch ID: W3J1106 **Preparation:** EPA 533/SPE			**Prepared:** 10/12/23 09:23				**Analyst:** rjr
11Cl-PF3OUdS	ND		1.7	ng/l	1	10/13/23	
4:2 FTS	ND		1.7	ng/l	1	10/13/23	
6:2 FTS	ND		1.7	ng/l	1	10/13/23	
8:2 FTS	ND		1.7	ng/l	1	10/13/23	
9Cl-PF3ONS	ND		1.7	ng/l	1	10/13/23	
ADONA	ND		1.7	ng/l	1	10/13/23	
HFPO-DA	ND		1.7	ng/l	1	10/13/23	
NFDHA	ND		1.7	ng/l	1	10/13/23	
PFBA	**1.9**		1.7	ng/l	1	10/13/23	
PFBS	ND		1.7	ng/l	1	10/13/23	
PFDA	ND		1.7	ng/l	1	10/13/23	
PFDoA	ND		1.7	ng/l	1	10/13/23	
PFEESA	ND		1.7	ng/l	1	10/13/23	
PFHpA	ND		1.7	ng/l	1	10/13/23	
PFHpS	ND		1.7	ng/l	1	10/13/23	
PFHxA	ND		1.7	ng/l	1	10/13/23	
PFHxS	**2.1**		1.7	ng/l	1	10/13/23	
PFMBA	ND		1.7	ng/l	1	10/13/23	
PFMPA	ND		1.7	ng/l	1	10/13/23	
PFNA	ND		1.7	ng/l	1	10/13/23	
PFOA	ND		1.7	ng/l	1	10/13/23	
PFOS	**9.9**		1.7	ng/l	1	10/13/23	
PFPeA	ND		1.7	ng/l	1	10/13/23	
PFPeS	ND		1.7	ng/l	1	10/13/23	
PFUnA	ND		1.7	ng/l	1	10/13/23	
Surrogate(s)							

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11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 14, RegID: CA1910105_016_016
3J02001-01 (Water)

Sampled: 10/02/23 10:20 by Allan Goldberg

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)							
Method: EPA 533			**Instr:** LCMS06				
Batch ID: W3J1106 **Preparation:** EPA 533/SPE			**Prepared:** 10/12/23 09:23				**Analyst:** rjr
13C2-4:2 FTS	*99%*	*Conc: 33.7*	*50-200*			*10/13/23*	
13C2-6:2 FTS	*105%*	*Conc: 35.6*	*50-200*			*10/13/23*	
13C2-8:2 FTS	*106%*	*Conc: 36.0*	*50-200*			*10/13/23*	
13C2-PFDoA	*100%*	*Conc: 8.53*	*50-200*			*10/13/23*	
13C3-PFBS	*120%*	*Conc: 10.2*	*50-200*			*10/13/23*	
13C3-PFHxS	*113%*	*Conc: 9.59*	*50-200*			*10/13/23*	
13C4-PFBA	*107%*	*Conc: 9.11*	*50-200*			*10/13/23*	
13C4-PFHpA	*102%*	*Conc: 8.65*	*50-200*			*10/13/23*	
13C5-PFHxA	*105%*	*Conc: 8.93*	*50-200*			*10/13/23*	
13C5-PFPeA	*109%*	*Conc: 9.24*	*50-200*			*10/13/23*	
13C6-PFDA	*106%*	*Conc: 9.00*	*50-200*			*10/13/23*	
13C7-PFUnA	*105%*	*Conc: 8.90*	*50-200*			*10/13/23*	
13C8-PFOA	*98%*	*Conc: 8.33*	*50-200*			*10/13/23*	
13C8-PFOS	*110%*	*Conc: 9.35*	*50-200*			*10/13/23*	
13C9-PFNA	*103%*	*Conc: 8.76*	*50-200*			*10/13/23*	
HFPO-DA-13C3	*94%*	*Conc: 7.95*	*50-200*			*10/13/23*	
Volatile Organic Compounds by P&T and GC/MS							
Method: EPA 524.2			**Instr:** GCMS18				
Batch ID: W3J0731 **Preparation:** EPA 5030B			**Prepared:** 10/09/23 15:49				**Analyst:** cam
Methylene chloride	ND		0.50	ug/l	1	10/09/23	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*85%*	*Conc: 42.4*	*70-130*			*10/09/23*	
4-Bromofluorobenzene	*85%*	*Conc: 42.5*	*70-130*			*10/09/23*	

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Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 14 Field Blank, RegID: CA1910105_016_016
3J02001-02 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS						
Method: EPA 533		**Instr:** LCMS06				
Batch ID: W3J1106 **Preparation:** EPA 533/SPE		**Prepared:** 10/12/23 09:23				**Analyst:** rjr
11Cl-PF3OUdS	ND	1.7	ng/l	1	10/13/23	
4:2 FTS	ND	1.7	ng/l	1	10/13/23	
6:2 FTS	ND	1.7	ng/l	1	10/13/23	
8:2 FTS	ND	1.7	ng/l	1	10/13/23	
9Cl-PF3ONS	ND	1.7	ng/l	1	10/13/23	
ADONA	ND	1.7	ng/l	1	10/13/23	
HFPO-DA	ND	1.7	ng/l	1	10/13/23	
NFDHA	ND	1.7	ng/l	1	10/13/23	
PFBA	ND	1.7	ng/l	1	10/13/23	
PFBS	ND	1.7	ng/l	1	10/13/23	
PFDA	ND	1.7	ng/l	1	10/13/23	
PFDoA	ND	1.7	ng/l	1	10/13/23	
PFEESA	ND	1.7	ng/l	1	10/13/23	
PFHpA	ND	1.7	ng/l	1	10/13/23	
PFHpS	ND	1.7	ng/l	1	10/13/23	
PFHxA	ND	1.7	ng/l	1	10/13/23	
PFHxS	ND	1.7	ng/l	1	10/13/23	
PFMBA	ND	1.7	ng/l	1	10/13/23	
PFMPA	ND	1.7	ng/l	1	10/13/23	
PFNA	ND	1.7	ng/l	1	10/13/23	
PFOA	ND	1.7	ng/l	1	10/13/23	
PFOS	ND	1.7	ng/l	1	10/13/23	
PFPeA	ND	1.7	ng/l	1	10/13/23	
PFPeS	ND	1.7	ng/l	1	10/13/23	
PFUnA	ND	1.7	ng/l	1	10/13/23	
Surrogate(s)						
13C2-4:2 FTS	*95%*	*Conc: 33.1*	*50-200*		*10/13/23*	
13C2-6:2 FTS	*97%*	*Conc: 34.1*	*50-200*		*10/13/23*	
13C2-8:2 FTS	*98%*	*Conc: 34.4*	*50-200*		*10/13/23*	
13C2-PFDoA	*63%*	*Conc: 5.49*	*50-200*		*10/13/23*	
13C3-PFBS	*104%*	*Conc: 9.11*	*50-200*		*10/13/23*	
13C3-PFHxS	*98%*	*Conc: 8.60*	*50-200*		*10/13/23*	
13C4-PFBA	*71%*	*Conc: 6.22*	*50-200*		*10/13/23*	
13C4-PFHpA	*67%*	*Conc: 5.87*	*50-200*		*10/13/23*	
13C5-PFHxA	*69%*	*Conc: 6.06*	*50-200*		*10/13/23*	

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11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 14 Field Blank, RegID: CA1910105_016_016
3J02001-02 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)							
Method: EPA 533			**Instr:** LCMS06				
Batch ID: W3J1106 **Preparation:** EPA 533/SPE			**Prepared:** 10/12/23 09:23				**Analyst:** rjr
13C5-PFPeA	*74%*	*Conc: 6.50*	*50-200*			*10/13/23*	
13C6-PFDA	*58%*	*Conc: 5.09*	*50-200*			*10/13/23*	
13C7-PFUnA	*59%*	*Conc: 5.18*	*50-200*			*10/13/23*	
13C8-PFOA	*64%*	*Conc: 5.59*	*50-200*			*10/13/23*	
13C8-PFOS	*99%*	*Conc: 8.61*	*50-200*			*10/13/23*	
13C9-PFNA	*61%*	*Conc: 5.36*	*50-200*			*10/13/23*	
HFPO-DA-13C3	*68%*	*Conc: 5.92*	*50-200*			*10/13/23*	

Sample Results

(Continued)

Sample: Well 15 Pre, RegID: CA1910105_025_025
3J02001-03 (Water)

Sampled: 10/02/23 10:45 by Allan Goldberg

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM						
Method: SRL 524M-TCP		**Instr:** GCMS12				
Batch ID: W3J0356 **Preparation:** EPA 5030B		**Prepared:** 10/04/23 11:39				**Analyst:** ADM
1,2,3-Trichloropropane	ND	0.0050	ug/l	1	10/05/23	
Metals by EPA 200 Series Methods						
Method: EPA 200.8		**Instr:** ICPMS04				
Batch ID: W3J0334 **Preparation:** EPA 200.2		**Prepared:** 10/04/23 16:45				**Analyst:** tyc
Arsenic, Total	**6.9**	0.50	ug/l	1	10/09/23	
Manganese, Total	**41**	1.0	ug/l	1	10/09/23	

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11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Pre, RegID: CA1910105_025_025
3J02001-03RE1 (Water)

Sampled: 10/02/23 10:45 by Allan Goldberg

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS						
Method: EPA 533		**Instr:** LCMS06				
Batch ID: W3J2005 **Preparation:** EPA 533/SPE		**Prepared:** 10/24/23 10:29				**Analyst:** rjr
11Cl-PF3OUdS	ND	1.8	ng/l	1	10/27/23	
4:2 FTS	ND	1.8	ng/l	1	10/27/23	
6:2 FTS	ND	1.8	ng/l	1	10/27/23	
8:2 FTS	ND	1.8	ng/l	1	10/27/23	
9Cl-PF3ONS	ND	1.8	ng/l	1	10/27/23	
ADONA	ND	1.8	ng/l	1	10/27/23	
HFPO-DA	ND	1.8	ng/l	1	10/27/23	
NFDHA	ND	1.8	ng/l	1	10/27/23	
PFBA	ND	1.8	ng/l	1	10/27/23	
PFBS	ND	1.8	ng/l	1	10/27/23	
PFDA	ND	1.8	ng/l	1	10/27/23	
PFDoA	ND	1.8	ng/l	1	10/27/23	
PFEESA	ND	1.8	ng/l	1	10/27/23	
PFHpA	ND	1.8	ng/l	1	10/27/23	
PFHpS	ND	1.8	ng/l	1	10/27/23	
PFHxA	ND	1.8	ng/l	1	10/27/23	
PFHxS	ND	1.8	ng/l	1	10/27/23	
PFMBA	ND	1.8	ng/l	1	10/27/23	
PFMPA	ND	1.8	ng/l	1	10/27/23	
PFNA	ND	1.8	ng/l	1	10/27/23	
PFOA	ND	1.8	ng/l	1	10/27/23	
PFOS	ND	1.8	ng/l	1	10/27/23	
PFPeA	ND	1.8	ng/l	1	10/27/23	
PFPeS	ND	1.8	ng/l	1	10/27/23	
PFUnA	ND	1.8	ng/l	1	10/27/23	
Surrogate(s)						
13C2-4:2 FTS	*89%*	*Conc: 31.9*	*50-200*		*10/27/23*	
13C2-6:2 FTS	*93%*	*Conc: 33.3*	*50-200*		*10/27/23*	
13C2-8:2 FTS	*94%*	*Conc: 33.6*	*50-200*		*10/27/23*	
13C2-PFDoA	*98%*	*Conc: 8.82*	*50-200*		*10/27/23*	
13C3-PFBS	*104%*	*Conc: 9.35*	*50-200*		*10/27/23*	
13C3-PFHxS	*103%*	*Conc: 9.23*	*50-200*		*10/27/23*	
13C4-PFBA	*103%*	*Conc: 9.22*	*50-200*		*10/27/23*	
13C4-PFHpA	*101%*	*Conc: 9.04*	*50-200*		*10/27/23*	
13C5-PFHxA	*105%*	*Conc: 9.43*	*50-200*		*10/27/23*	

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Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Pre, RegID: CA1910105_025_025
3J02001-03RE1 (Water)

Sampled: 10/02/23 10:45 by Allan Goldberg

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)							
Method: EPA 533			**Instr:** LCMS06				
Batch ID: W3J2005 **Preparation:** EPA 533/SPE			**Prepared:** 10/24/23 10:29				**Analyst:** rjr
13C5-PFPeA	*109%*	*Conc: 9.76*	*50-200*			*10/27/23*	
13C6-PFDA	*101%*	*Conc: 9.04*	*50-200*			*10/27/23*	
13C7-PFUnA	*102%*	*Conc: 9.13*	*50-200*			*10/27/23*	
13C8-PFOA	*106%*	*Conc: 9.50*	*50-200*			*10/27/23*	
13C8-PFOS	*103%*	*Conc: 9.23*	*50-200*			*10/27/23*	
13C9-PFNA	*103%*	*Conc: 9.23*	*50-200*			*10/27/23*	
HFPO-DA-13C3	*93%*	*Conc: 8.30*	*50-200*			*10/27/23*	

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Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Pre Field Blank, RegID: CA1910105_025_025
3J02001-04 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS						
Method: EPA 533		**Instr:** LCMS06				
Batch ID: W3J1469 **Preparation:** EPA 533/SPE		**Prepared:** 10/17/23 14:19				**Analyst:** jna
11Cl-PF3OUdS	ND	1.7	ng/l	1	10/20/23	
4:2 FTS	ND	1.7	ng/l	1	10/20/23	
6:2 FTS	ND	1.7	ng/l	1	10/20/23	
8:2 FTS	ND	1.7	ng/l	1	10/20/23	
9Cl-PF3ONS	ND	1.7	ng/l	1	10/20/23	
ADONA	ND	1.7	ng/l	1	10/20/23	
HFPO-DA	ND	1.7	ng/l	1	10/20/23	
NFDHA	ND	1.7	ng/l	1	10/20/23	
PFBA	ND	1.7	ng/l	1	10/20/23	
PFBS	ND	1.7	ng/l	1	10/20/23	
PFDA	ND	1.7	ng/l	1	10/20/23	
PFDoA	ND	1.7	ng/l	1	10/20/23	
PFEESA	ND	1.7	ng/l	1	10/20/23	
PFHpA	ND	1.7	ng/l	1	10/20/23	
PFHpS	ND	1.7	ng/l	1	10/20/23	
PFHxA	ND	1.7	ng/l	1	10/20/23	
PFHxS	ND	1.7	ng/l	1	10/20/23	
PFMBA	ND	1.7	ng/l	1	10/20/23	
PFMPA	ND	1.7	ng/l	1	10/20/23	
PFNA	ND	1.7	ng/l	1	10/20/23	
PFOA	ND	1.7	ng/l	1	10/20/23	
PFOS	ND	1.7	ng/l	1	10/20/23	
PFPeA	ND	1.7	ng/l	1	10/20/23	
PFPeS	ND	1.7	ng/l	1	10/20/23	
PFUnA	ND	1.7	ng/l	1	10/20/23	
Surrogate(s)						
13C2-4:2 FTS	*102%*	*Conc: 34.8*	*50-200*		*10/20/23*	
13C2-6:2 FTS	*98%*	*Conc: 33.4*	*50-200*		*10/20/23*	
13C2-8:2 FTS	*104%*	*Conc: 35.5*	*50-200*		*10/20/23*	
13C2-PFDoA	*60%*	*Conc: 5.09*	*50-200*		*10/20/23*	
13C3-PFBS	*112%*	*Conc: 9.52*	*50-200*		*10/20/23*	
13C3-PFHxS	*118%*	*Conc: 10.0*	*50-200*		*10/20/23*	
13C4-PFBA	*75%*	*Conc: 6.40*	*50-200*		*10/20/23*	
13C4-PFHpA	*68%*	*Conc: 5.84*	*50-200*		*10/20/23*	
13C5-PFHxA	*72%*	*Conc: 6.15*	*50-200*		*10/20/23*	

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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Pre Field Blank, RegID: CA1910105_025_025
3J02001-04 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)							
Method: EPA 533			**Instr:** LCMS06				
Batch ID: W3J1469 **Preparation:** EPA 533/SPE			**Prepared:** 10/17/23 14:19				**Analyst:** jna
13C5-PFPeA	*73%*	*Conc: 6.26*	*50-200*			*10/20/23*	
13C6-PFDA	*48%*	*Conc: 4.06*	*50-200*			*10/20/23*	*S-11*
13C7-PFUnA	*51%*	*Conc: 4.38*	*50-200*			*10/20/23*	
13C8-PFOA	*63%*	*Conc: 5.34*	*50-200*			*10/20/23*	
13C8-PFOS	*105%*	*Conc: 8.96*	*50-200*			*10/20/23*	
13C9-PFNA	*52%*	*Conc: 4.46*	*50-200*			*10/20/23*	
HFPO-DA-13C3	*56%*	*Conc: 4.74*	*50-200*			*10/20/23*	

Sample Results

(Continued)

Sample: Well 15 Effluent, RegID: CA1910105_027_027
3J02001-05 (Water)

Sampled: 10/02/23 10:58 by Allan Goldberg

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM						
Method: SRL 524M-TCP		**Instr:** GCMS12				
Batch ID: W3J0356 **Preparation:** EPA 5030B		**Prepared:** 10/04/23 11:39				**Analyst:** ADM
1,2,3-Trichloropropane	ND	0.0050	ug/l	1	10/05/23	
Metals by EPA 200 Series Methods						
Method: EPA 200.8		**Instr:** ICPMS04				
Batch ID: W3J0334 **Preparation:** EPA 200.2		**Prepared:** 10/04/23 16:45				**Analyst:** tyc
Arsenic, Total	**6.6**	0.50	ug/l	1	10/09/23	
Manganese, Total	ND	1.0	ug/l	1	10/09/23	

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Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Effluent, RegID: CA1910105_027_027
3J02001-05RE1 (Water)

Sampled: 10/02/23 10:58 by Allan Goldberg

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS						
Method: EPA 533		**Instr:** LCMS06				
Batch ID: W3J2005 **Preparation:** EPA 533/SPE		**Prepared:** 10/24/23 10:29				**Analyst:** rjr
11Cl-PF3OUdS	ND	1.7	ng/l	1	10/27/23	
4:2 FTS	ND	1.7	ng/l	1	10/27/23	
6:2 FTS	ND	1.7	ng/l	1	10/27/23	
8:2 FTS	ND	1.7	ng/l	1	10/27/23	
9Cl-PF3ONS	ND	1.7	ng/l	1	10/27/23	
ADONA	ND	1.7	ng/l	1	10/27/23	
HFPO-DA	ND	1.7	ng/l	1	10/27/23	
NFDHA	ND	1.7	ng/l	1	10/27/23	
PFBA	ND	1.7	ng/l	1	10/27/23	
PFBS	ND	1.7	ng/l	1	10/27/23	
PFDA	ND	1.7	ng/l	1	10/27/23	
PFDoA	ND	1.7	ng/l	1	10/27/23	
PFEESA	ND	1.7	ng/l	1	10/27/23	
PFHpA	ND	1.7	ng/l	1	10/27/23	
PFHpS	ND	1.7	ng/l	1	10/27/23	
PFHxA	ND	1.7	ng/l	1	10/27/23	
PFHxS	ND	1.7	ng/l	1	10/27/23	
PFMBA	ND	1.7	ng/l	1	10/27/23	
PFMPA	ND	1.7	ng/l	1	10/27/23	
PFNA	ND	1.7	ng/l	1	10/27/23	
PFOA	ND	1.7	ng/l	1	10/27/23	
PFOS	ND	1.7	ng/l	1	10/27/23	
PFPeA	ND	1.7	ng/l	1	10/27/23	
PFPeS	ND	1.7	ng/l	1	10/27/23	
PFUnA	ND	1.7	ng/l	1	10/27/23	
Surrogate(s)						
13C2-4:2 FTS	*91%*	*Conc: 31.8*	*50-200*		*10/27/23*	
13C2-6:2 FTS	*96%*	*Conc: 33.7*	*50-200*		*10/27/23*	
13C2-8:2 FTS	*98%*	*Conc: 34.1*	*50-200*		*10/27/23*	
13C2-PFDoA	*98%*	*Conc: 8.53*	*50-200*		*10/27/23*	
13C3-PFBS	*108%*	*Conc: 9.47*	*50-200*		*10/27/23*	
13C3-PFHxS	*104%*	*Conc: 9.06*	*50-200*		*10/27/23*	
13C4-PFBA	*104%*	*Conc: 9.11*	*50-200*		*10/27/23*	
13C4-PFHpA	*104%*	*Conc: 9.06*	*50-200*		*10/27/23*	
13C5-PFHxA	*105%*	*Conc: 9.16*	*50-200*		*10/27/23*	

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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Effluent, RegID: CA1910105_027_027
3J02001-05RE1 (Water)

Sampled: 10/02/23 10:58 by Allan Goldberg

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)							
Method: EPA 533			**Instr:** LCMS06				
Batch ID: W3J2005 **Preparation:** EPA 533/SPE			**Prepared:** 10/24/23 10:29				**Analyst:** rjr
13C5-PFPeA	*106%*	*Conc: 9.25*	*50-200*			*10/27/23*	
13C6-PFDA	*107%*	*Conc: 9.34*	*50-200*			*10/27/23*	
13C7-PFUnA	*102%*	*Conc: 8.87*	*50-200*			*10/27/23*	
13C8-PFOA	*105%*	*Conc: 9.17*	*50-200*			*10/27/23*	
13C8-PFOS	*95%*	*Conc: 8.27*	*50-200*			*10/27/23*	
13C9-PFNA	*104%*	*Conc: 9.12*	*50-200*			*10/27/23*	
HFPO-DA-13C3	*85%*	*Conc: 7.47*	*50-200*			*10/27/23*	

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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Effluent Field Blank, RegID: CA1910105_027_027
3J02001-06 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS						
Method: EPA 533		**Instr:** LCMS06				
Batch ID: W3J1469 **Preparation:** EPA 533/SPE		**Prepared:** 10/17/23 14:19				**Analyst:** jna
11Cl-PF3OUdS	ND	1.7	ng/l	1	10/20/23	
4:2 FTS	ND	1.7	ng/l	1	10/20/23	
6:2 FTS	ND	1.7	ng/l	1	10/20/23	
8:2 FTS	ND	1.7	ng/l	1	10/20/23	
9Cl-PF3ONS	ND	1.7	ng/l	1	10/20/23	
ADONA	ND	1.7	ng/l	1	10/20/23	
HFPO-DA	ND	1.7	ng/l	1	10/20/23	
NFDHA	ND	1.7	ng/l	1	10/20/23	
PFBA	ND	1.7	ng/l	1	10/20/23	
PFBS	ND	1.7	ng/l	1	10/20/23	
PFDA	ND	1.7	ng/l	1	10/20/23	
PFDoA	ND	1.7	ng/l	1	10/20/23	
PFEESA	ND	1.7	ng/l	1	10/20/23	
PFHpA	ND	1.7	ng/l	1	10/20/23	
PFHpS	ND	1.7	ng/l	1	10/20/23	
PFHxA	ND	1.7	ng/l	1	10/20/23	
PFHxS	ND	1.7	ng/l	1	10/20/23	
PFMBA	ND	1.7	ng/l	1	10/20/23	
PFMPA	ND	1.7	ng/l	1	10/20/23	
PFNA	ND	1.7	ng/l	1	10/20/23	
PFOA	ND	1.7	ng/l	1	10/20/23	
PFOS	ND	1.7	ng/l	1	10/20/23	
PFPeA	ND	1.7	ng/l	1	10/20/23	
PFPeS	ND	1.7	ng/l	1	10/20/23	
PFUnA	ND	1.7	ng/l	1	10/20/23	
Surrogate(s)						
13C2-4:2 FTS	*104%*	*Conc: 35.4*	*50-200*		*10/20/23*	
13C2-6:2 FTS	*105%*	*Conc: 35.7*	*50-200*		*10/20/23*	
13C2-8:2 FTS	*103%*	*Conc: 35.0*	*50-200*		*10/20/23*	
13C2-PFDoA	*16%*	*Conc: 1.40*	*50-200*		*10/20/23*	*S-11*
13C3-PFBS	*110%*	*Conc: 9.38*	*50-200*		*10/20/23*	
13C3-PFHxS	*113%*	*Conc: 9.63*	*50-200*		*10/20/23*	
13C4-PFBA	*49%*	*Conc: 4.17*	*50-200*		*10/20/23*	*S-11*
13C4-PFHpA	*50%*	*Conc: 4.23*	*50-200*		*10/20/23*	
13C5-PFHxA	*50%*	*Conc: 4.27*	*50-200*		*10/20/23*	

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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Well 15 Effluent Field Blank, RegID: CA1910105_027_027
3J02001-06 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)							
Method: EPA 533			**Instr:** LCMS06				
Batch ID: W3J1469 **Preparation:** EPA 533/SPE			**Prepared:** 10/17/23 14:19				**Analyst:** jna
13C5-PFPeA	*51%*	*Conc: 4.37*	*50-200*			*10/20/23*	
13C6-PFDA	*26%*	*Conc: 2.24*	*50-200*			*10/20/23*	*S-11*
13C7-PFUnA	*18%*	*Conc: 1.51*	*50-200*			*10/20/23*	*S-11*
13C8-PFOA	*44%*	*Conc: 3.78*	*50-200*			*10/20/23*	*S-11*
13C8-PFOS	*107%*	*Conc: 9.12*	*50-200*			*10/20/23*	
13C9-PFNA	*36%*	*Conc: 3.09*	*50-200*			*10/20/23*	*S-11*
HFPO-DA-13C3	*43%*	*Conc: 3.65*	*50-200*			*10/20/23*	*S-11*

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Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Travel Blank
3J02001-07 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

Volatile Organic Compounds by P&T and GC/MS

Method: EPA 524.2 **Instr:** GCMS08

Batch ID: W3J0533 **Preparation:** EPA 5030B **Prepared:** 10/06/23 07:06 **Analyst:** ADM

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	10/07/23	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	10/07/23	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	10/07/23	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	10/07/23	
1,1-Dichloroethane	ND	0.50	ug/l	1	10/07/23	
1,1-Dichloroethene	ND	0.50	ug/l	1	10/07/23	
1,1-Dichloropropene	ND	0.50	ug/l	1	10/07/23	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	10/07/23	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	10/07/23	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	10/07/23	
1,2-Dichloroethane	ND	0.50	ug/l	1	10/07/23	
1,2-Dichloropropane	ND	0.50	ug/l	1	10/07/23	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	10/07/23	
1,3-Dichloropropane	ND	0.50	ug/l	1	10/07/23	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	10/07/23	
2,2-Dichloropropane	ND	0.50	ug/l	1	10/07/23	
2-Butanone	ND	5.0	ug/l	1	10/07/23	
2-Chlorotoluene	ND	0.50	ug/l	1	10/07/23	
2-Hexanone	ND	5.0	ug/l	1	10/07/23	
4-Chlorotoluene	ND	0.50	ug/l	1	10/07/23	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	10/07/23	
Benzene	ND	0.50	ug/l	1	10/07/23	
Bromobenzene	ND	0.50	ug/l	1	10/07/23	
Bromochloromethane	ND	0.50	ug/l	1	10/07/23	
Bromodichloromethane	ND	0.50	ug/l	1	10/07/23	
Bromoform	ND	0.50	ug/l	1	10/07/23	
Bromomethane	ND	0.50	ug/l	1	10/07/23	
Carbon tetrachloride	ND	0.50	ug/l	1	10/07/23	
Chlorobenzene	ND	0.50	ug/l	1	10/07/23	
Chloroethane	ND	0.50	ug/l	1	10/07/23	
Chloroform	ND	0.50	ug/l	1	10/07/23	
Chloromethane	ND	0.50	ug/l	1	10/07/23	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	10/07/23	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	10/07/23	
Dibromochloromethane	ND	0.50	ug/l	1	10/07/23	

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Water Replenishment District
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Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Travel Blank
3J02001-07 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Method: EPA 524.2 **Instr:** GCMS08

Batch ID: W3J0533 **Preparation:** EPA 5030B **Prepared:** 10/06/23 07:06 **Analyst:** ADM

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Dibromomethane	ND	0.50	ug/l	1	10/07/23	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	10/07/23	
Di-isopropyl ether	ND	2.0	ug/l	1	10/07/23	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	10/07/23	
Ethylbenzene	ND	0.50	ug/l	1	10/07/23	
Freon 113	ND	5.0	ug/l	1	10/07/23	
Hexachlorobutadiene	ND	0.50	ug/l	1	10/07/23	
Isopropylbenzene	ND	0.50	ug/l	1	10/07/23	
m,p-Xylene	ND	0.50	ug/l	1	10/07/23	
m-Dichlorobenzene	ND	0.50	ug/l	1	10/07/23	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	10/07/23	
Methylene chloride	ND	0.50	ug/l	1	10/07/23	
Naphthalene	ND	0.50	ug/l	1	10/07/23	
n-Butylbenzene	ND	0.50	ug/l	1	10/07/23	
n-Propylbenzene	ND	0.50	ug/l	1	10/07/23	
o-Dichlorobenzene	ND	0.50	ug/l	1	10/07/23	
o-Xylene	ND	0.50	ug/l	1	10/07/23	
p-Dichlorobenzene	ND	0.50	ug/l	1	10/07/23	
p-Isopropyltoluene	ND	0.50	ug/l	1	10/07/23	
sec-Butylbenzene	ND	0.50	ug/l	1	10/07/23	
Styrene	ND	0.50	ug/l	1	10/07/23	
Tert-amyl methyl ether	ND	2.0	ug/l	1	10/07/23	
tert-Butylbenzene	ND	0.50	ug/l	1	10/07/23	
Tetrachloroethene	ND	0.50	ug/l	1	10/07/23	
THMs, Total	ND	2.0	ug/l	1	10/07/23	
Toluene	ND	0.50	ug/l	1	10/07/23	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	10/07/23	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	10/07/23	
Trichloroethene	ND	0.50	ug/l	1	10/07/23	
Trichlorofluoromethane	ND	0.50	ug/l	1	10/07/23	
Vinyl chloride	ND	0.50	ug/l	1	10/07/23	
Xylenes, Total	ND	0.50	ug/l	1	10/07/23	
Surrogate(s)						
1,2-Dichlorobenzene-d4	*92%*	*Conc: 46.0*	*70-130*		*10/07/23*	
4-Bromofluorobenzene	*91%*	*Conc: 45.7*	*70-130*		*10/07/23*	

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Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Sample Results

(Continued)

Sample: Travel Blank
3J02001-07 (Water)

Sampled: 10/02/23 0:00 by Allan Goldberg

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Method: EPA 524.2			**Instr:** GCMS08			
Batch ID: W3J0533	**Preparation:** EPA 5030B		**Prepared:** 10/06/23 07:06			**Analyst:** ADM

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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Quality Control Results

1,4-Dioxane by SPE/GCMS SIM, EPA Method 522

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0114 - EPA 522										
Blank (W3J0114-BLK1)				**Prepared: 10/03/23**	**Analyzed: 10/05/23**					
1,4-Dioxane	ND	0.070	ug/l							
Surrogate(s)										
1,4-Dioxane-d8	*9.95*		*ug/l*	*10.0*		*99*	*70-130*			
LCS (W3J0114-BS1)				**Prepared: 10/03/23**	**Analyzed: 10/05/23**					
1,4-Dioxane	1.78	0.070	ug/l	2.00		89	70-130			
Surrogate(s)										
1,4-Dioxane-d8	*9.22*		*ug/l*	*10.0*		*92*	*70-130*			
LCS Dup (W3J0114-BSD1)				**Prepared: 10/03/23**	**Analyzed: 10/05/23**					
1,4-Dioxane	1.95	0.070	ug/l	2.00		97	70-130	9	30	
Surrogate(s)										
1,4-Dioxane-d8	*10.2*		*ug/l*	*10.0*		*102*	*70-130*			

Quality Control Results

Low Level 1,2,3-TCP by SRL Method, P&T, GC/MS SIM

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0356 - SRL 524M-TCP										
Blank (W3J0356-BLK1)				**Prepared: 10/04/23**	**Analyzed: 10/05/23**					
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W3J0356-BS1)				**Prepared: 10/04/23**	**Analyzed: 10/05/23**					
1,2,3-Trichloropropane	0.0187	0.0050	ug/l	0.0200		93	80-120			
LCS Dup (W3J0356-BSD1)				**Prepared: 10/04/23**	**Analyzed: 10/05/23**					
1,2,3-Trichloropropane	0.0194	0.0050	ug/l	0.0200		97	80-120	4	20	
Duplicate (W3J0356-DUP1)	**Source: 3I15003-01**			**Prepared: 10/04/23**	**Analyzed: 10/05/23**					
1,2,3-Trichloropropane	ND	0.0050	ug/l		ND				20	

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11/08/2023 15:11

Quality Control Results

(Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0334 - EPA 200.8										
Blank (W3J0334-BLK1)				**Prepared: 10/04/23**	**Analyzed: 10/09/23**					
Arsenic, Total	ND	0.50	ug/l							
Manganese, Total	ND	1.0	ug/l							
LCS (W3J0334-BS1)				**Prepared: 10/04/23**	**Analyzed: 10/09/23**					
Arsenic, Total	49.6	0.50	ug/l	50.0		99	85-115			
Manganese, Total	49.0	1.0	ug/l	50.0		98	85-115			
Matrix Spike (W3J0334-MS1)	**Source: 3J02022-41**			**Prepared: 10/04/23**	**Analyzed: 10/09/23**					
Arsenic, Total	51.2	0.50	ug/l	50.0	1.52	99	70-130			
Manganese, Total	51.8	1.0	ug/l	50.0	4.35	95	70-130			
Matrix Spike (W3J0334-MS2)	**Source: 3J02022-44**			**Prepared: 10/04/23**	**Analyzed: 10/09/23**					
Arsenic, Total	52.9	0.50	ug/l	50.0	1.49	103	70-130			
Manganese, Total	48.5	1.0	ug/l	50.0	0.380	96	70-130			
Matrix Spike Dup (W3J0334-MSD1)	**Source: 3J02022-41**			**Prepared: 10/04/23**	**Analyzed: 10/09/23**					
Arsenic, Total	51.3	0.50	ug/l	50.0	1.52	100	70-130	0.2	30	
Manganese, Total	51.8	1.0	ug/l	50.0	4.35	95	70-130	0.1	30	
Matrix Spike Dup (W3J0334-MSD2)	**Source: 3J02022-44**			**Prepared: 10/04/23**	**Analyzed: 10/09/23**					
Arsenic, Total	53.4	0.50	ug/l	50.0	1.49	104	70-130	0.8	30	
Manganese, Total	48.9	1.0	ug/l	50.0	0.380	97	70-130	0.8	30	

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Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J1106 - EPA 533										
Blank (W3J1106-BLK1)				**Prepared: 10/12/23 Analyzed: 10/13/23**						
11Cl-PF3OUdS	ND	2.0	ng/l							
4:2 FTS	ND	2.0	ng/l							
6:2 FTS	ND	2.0	ng/l							
8:2 FTS	ND	2.0	ng/l							
9Cl-PF3ONS	ND	2.0	ng/l							
ADONA	ND	2.0	ng/l							
HFPO-DA	ND	2.0	ng/l							
NFDHA	ND	2.0	ng/l							
PFBA	ND	2.0	ng/l							
PFBS	ND	2.0	ng/l							
PFDA	ND	2.0	ng/l							
PFDoA	ND	2.0	ng/l							
PFEESA	ND	2.0	ng/l							
PFHpA	ND	2.0	ng/l							
PFHpS	ND	2.0	ng/l							
PFHxA	ND	2.0	ng/l							
PFHxS	ND	2.0	ng/l							
PFMBA	ND	2.0	ng/l							
PFMPA	ND	2.0	ng/l							
PFNA	ND	2.0	ng/l							
PFOA	ND	2.0	ng/l							
PFOS	ND	2.0	ng/l							
PFPeA	ND	2.0	ng/l							
PFPeS	ND	2.0	ng/l							
PFUnA	ND	2.0	ng/l							
Surrogate(s)										
13C2-4:2 FTS	*42.9*		*ng/l*	*40.0*		*107*	*50-200*			
13C2-6:2 FTS	*41.4*		*ng/l*	*40.0*		*103*	*50-200*			
13C2-8:2 FTS	*42.9*		*ng/l*	*40.0*		*107*	*50-200*			
13C2-PFDoA	*9.13*		*ng/l*	*10.0*		*91*	*50-200*			
13C3-PFBS	*10.9*		*ng/l*	*10.0*		*109*	*50-200*			
13C3-PFHxS	*11.0*		*ng/l*	*10.0*		*110*	*50-200*			
13C4-PFBA	*9.26*		*ng/l*	*10.0*		*93*	*50-200*			
13C4-PFHpA	*8.94*		*ng/l*	*10.0*		*89*	*50-200*			
13C5-PFHxA	*8.71*		*ng/l*	*10.0*		*87*	*50-200*			
13C5-PFPeA	*9.22*		*ng/l*	*10.0*		*92*	*50-200*			
13C6-PFDA	*9.67*		*ng/l*	*10.0*		*97*	*50-200*			
13C7-PFUnA	*9.41*		*ng/l*	*10.0*		*94*	*50-200*			
13C8-PFOA	*8.90*		*ng/l*	*10.0*		*89*	*50-200*			

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Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J1106 - EPA 533 (Continued)										
Blank (W3J1106-BLK1)				**Prepared: 10/12/23 Analyzed: 10/13/23**						
Surrogate(s)										
13C8-PFOS	*10.9*		*ng/l*	*10.0*		*109*	*50-200*			
13C9-PFNA	*8.94*		*ng/l*	*10.0*		*89*	*50-200*			
HFPO-DA-13C3	*7.15*		*ng/l*	*10.0*		*71*	*50-200*			
LCS (W3J1106-BS1)				**Prepared: 10/12/23 Analyzed: 10/13/23**						
11Cl-PF3OUdS	74.8	2.0	ng/l	80.0		93	70-130			
4:2 FTS	66.7	2.0	ng/l	80.0		83	70-130			
6:2 FTS	77.7	2.0	ng/l	80.0		97	70-130			
8:2 FTS	81.7	2.0	ng/l	80.0		102	70-130			
9Cl-PF3ONS	113	2.0	ng/l	80.0		141	70-130			Q-08
ADONA	73.3	2.0	ng/l	80.0		92	70-130			
HFPO-DA	73.0	2.0	ng/l	80.0		91	70-130			
NFDHA	78.8	2.0	ng/l	80.0		98	70-130			
PFBA	78.3	2.0	ng/l	80.0		98	70-130			
PFBS	81.6	2.0	ng/l	80.0		102	70-130			
PFDA	78.7	2.0	ng/l	80.0		98	70-130			
PFDoA	78.3	2.0	ng/l	80.0		98	70-130			
PFEESA	78.5	2.0	ng/l	80.0		98	70-130			
PFHpA	78.9	2.0	ng/l	80.0		99	70-130			
PFHpS	79.9	2.0	ng/l	80.0		100	70-130			
PFHxA	78.2	2.0	ng/l	80.0		98	70-130			
PFHxS	78.4	2.0	ng/l	80.0		98	70-130			
PFMBA	73.9	2.0	ng/l	80.0		92	70-130			
PFMPA	72.3	2.0	ng/l	80.0		90	70-130			
PFNA	76.9	2.0	ng/l	80.0		96	70-130			
PFOA	77.8	2.0	ng/l	80.0		97	70-130			
PFOS	77.5	2.0	ng/l	80.0		97	70-130			
PFPeA	76.4	2.0	ng/l	80.0		96	70-130			
PFPeS	77.3	2.0	ng/l	80.0		97	70-130			
PFUnA	78.9	2.0	ng/l	80.0		99	70-130			
Surrogate(s)										
13C2-4:2 FTS	*44.5*		*ng/l*	*40.0*		*111*	*50-200*			
13C2-6:2 FTS	*44.7*		*ng/l*	*40.0*		*112*	*50-200*			
13C2-8:2 FTS	*43.0*		*ng/l*	*40.0*		*108*	*50-200*			
13C2-PFDoA	*8.38*		*ng/l*	*10.0*		*84*	*50-200*			
13C3-PFBS	*10.6*		*ng/l*	*10.0*		*106*	*50-200*			
13C3-PFHxS	*11.0*		*ng/l*	*10.0*		*110*	*50-200*			
13C4-PFBA	*8.57*		*ng/l*	*10.0*		*86*	*50-200*			
13C4-PFHpA	*7.36*		*ng/l*	*10.0*		*74*	*50-200*			

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Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J1106 - EPA 533 (Continued)										
LCS (W3J1106-BS1)				**Prepared: 10/12/23 Analyzed: 10/13/23**						
Surrogate(s)										
13C5-PFHxA	*7.57*		*ng/l*	*10.0*		*76*	*50-200*			
13C5-PFPeA	*8.48*		*ng/l*	*10.0*		*85*	*50-200*			
13C6-PFDA	*7.61*		*ng/l*	*10.0*		*76*	*50-200*			
13C7-PFUnA	*7.98*		*ng/l*	*10.0*		*80*	*50-200*			
13C8-PFOA	*7.43*		*ng/l*	*10.0*		*74*	*50-200*			
13C8-PFOS	*10.8*		*ng/l*	*10.0*		*108*	*50-200*			
13C9-PFNA	*7.35*		*ng/l*	*10.0*		*73*	*50-200*			
HFPO-DA-13C3	*6.75*		*ng/l*	*10.0*		*67*	*50-200*			
LCS Dup (W3J1106-BSD1)				**Prepared: 10/12/23 Analyzed: 10/13/23**						
11Cl-PF3OUdS	77.6	2.0	ng/l	80.0		97	70-130	4	30	
4:2 FTS	70.3	2.0	ng/l	80.0		88	70-130	5	30	
6:2 FTS	78.1	2.0	ng/l	80.0		98	70-130	0.5	30	
8:2 FTS	78.6	2.0	ng/l	80.0		98	70-130	4	30	
9Cl-PF3ONS	141	2.0	ng/l	80.0		176	70-130	22	30	Q-08
ADONA	72.0	2.0	ng/l	80.0		90	70-130	2	30	
HFPO-DA	78.2	2.0	ng/l	80.0		98	70-130	7	30	
NFDHA	76.0	2.0	ng/l	80.0		95	70-130	4	30	
PFBA	78.4	2.0	ng/l	80.0		98	70-130	0.08	30	
PFBS	80.0	2.0	ng/l	80.0		100	70-130	2	30	
PFDA	77.6	2.0	ng/l	80.0		97	70-130	1	30	
PFDoA	77.9	2.0	ng/l	80.0		97	70-130	0.5	30	
PFEESA	78.5	2.0	ng/l	80.0		98	70-130	0.1	30	
PFHpA	79.2	2.0	ng/l	80.0		99	70-130	0.5	30	
PFHpS	80.9	2.0	ng/l	80.0		101	70-130	1	30	
PFHxA	75.9	2.0	ng/l	80.0		95	70-130	3	30	
PFHxS	81.2	2.0	ng/l	80.0		101	70-130	3	30	
PFMBA	75.6	2.0	ng/l	80.0		95	70-130	2	30	
PFMPA	73.6	2.0	ng/l	80.0		92	70-130	2	30	
PFNA	79.6	2.0	ng/l	80.0		100	70-130	3	30	
PFOA	76.8	2.0	ng/l	80.0		96	70-130	1	30	
PFOS	80.5	2.0	ng/l	80.0		101	70-130	4	30	
PFPeA	78.3	2.0	ng/l	80.0		98	70-130	2	30	
PFPeS	79.6	2.0	ng/l	80.0		100	70-130	3	30	
PFUnA	78.9	2.0	ng/l	80.0		99	70-130	0.05	30	
Surrogate(s)										
13C2-4:2 FTS	*44.2*		*ng/l*	*40.0*		*110*	*50-200*			
13C2-6:2 FTS	*45.2*		*ng/l*	*40.0*		*113*	*50-200*			
13C2-8:2 FTS	*45.9*		*ng/l*	*40.0*		*115*	*50-200*			

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Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J1106 - EPA 533 (Continued)										
LCS Dup (W3J1106-BSD1)				**Prepared: 10/12/23 Analyzed: 10/13/23**						
Surrogate(s)										
13C2-PFDoA	*6.39*		*ng/l*	*10.0*		*64*	*50-200*			
13C3-PFBS	*10.9*		*ng/l*	*10.0*		*109*	*50-200*			
13C3-PFHxS	*11.1*		*ng/l*	*10.0*		*111*	*50-200*			
13C4-PFBA	*6.83*		*ng/l*	*10.0*		*68*	*50-200*			
13C4-PFHpA	*6.09*		*ng/l*	*10.0*		*61*	*50-200*			
13C5-PFHxA	*6.31*		*ng/l*	*10.0*		*63*	*50-200*			
13C5-PFPeA	*6.65*		*ng/l*	*10.0*		*66*	*50-200*			
13C6-PFDA	*5.70*		*ng/l*	*10.0*		*57*	*50-200*			
13C7-PFUnA	*5.84*		*ng/l*	*10.0*		*58*	*50-200*			
13C8-PFOA	*5.82*		*ng/l*	*10.0*		*58*	*50-200*			
13C8-PFOS	*10.8*		*ng/l*	*10.0*		*108*	*50-200*			
13C9-PFNA	*5.51*		*ng/l*	*10.0*		*55*	*50-200*			
HFPO-DA-13C3	*5.32*		*ng/l*	*10.0*		*53*	*50-200*			
Batch: W3J1469 - EPA 533										
Blank (W3J1469-BLK1)				**Prepared: 10/17/23 Analyzed: 10/20/23**						
11Cl-PF3OUdS	ND	2.0	ng/l							
4:2 FTS	ND	2.0	ng/l							
6:2 FTS	ND	2.0	ng/l							
8:2 FTS	ND	2.0	ng/l							
9Cl-PF3ONS	ND	2.0	ng/l							
ADONA	ND	2.0	ng/l							
HFPO-DA	ND	2.0	ng/l							
NFDHA	ND	2.0	ng/l							
PFBA	ND	2.0	ng/l							
PFBS	ND	2.0	ng/l							
PFDA	ND	2.0	ng/l							
PFDoA	ND	2.0	ng/l							
PFEESA	ND	2.0	ng/l							
PFHpA	ND	2.0	ng/l							
PFHpS	ND	2.0	ng/l							
PFHxA	ND	2.0	ng/l							
PFHxS	ND	2.0	ng/l							
PFMBA	ND	2.0	ng/l							
PFMPA	ND	2.0	ng/l							
PFNA	ND	2.0	ng/l							
PFOA	ND	2.0	ng/l							
PFOS	ND	2.0	ng/l							
PFPeA	ND	2.0	ng/l							

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11/08/2023 15:11

Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J1469 - EPA 533 (Continued)										
Blank (W3J1469-BLK1)				**Prepared: 10/17/23 Analyzed: 10/20/23**						
PFPeS	ND	2.0	ng/l							
PFUnA	ND	2.0	ng/l							
Surrogate(s)										
13C2-4:2 FTS	*38.4*		*ng/l*	*40.0*		*96*	*50-200*			
13C2-6:2 FTS	*39.7*		*ng/l*	*40.0*		*99*	*50-200*			
13C2-8:2 FTS	*40.0*		*ng/l*	*40.0*		*100*	*50-200*			
13C2-PFDoA	*2.75*		*ng/l*	*10.0*		*28*	*50-200*			*S-BLK*
13C3-PFBS	*10.0*		*ng/l*	*10.0*		*100*	*50-200*			
13C3-PFHxS	*10.5*		*ng/l*	*10.0*		*105*	*50-200*			
13C4-PFBA	*3.97*		*ng/l*	*10.0*		*40*	*50-200*			*S-BLK*
13C4-PFHpA	*4.06*		*ng/l*	*10.0*		*41*	*50-200*			*S-BLK*
13C5-PFHxA	*4.34*		*ng/l*	*10.0*		*43*	*50-200*			*S-BLK*
13C5-PFPeA	*4.36*		*ng/l*	*10.0*		*44*	*50-200*			*S-BLK*
13C6-PFDA	*3.21*		*ng/l*	*10.0*		*32*	*50-200*			*S-BLK*
13C7-PFUnA	*2.93*		*ng/l*	*10.0*		*29*	*50-200*			*S-BLK*
13C8-PFOA	*3.97*		*ng/l*	*10.0*		*40*	*50-200*			*S-BLK*
13C8-PFOS	*9.96*		*ng/l*	*10.0*		*100*	*50-200*			
13C9-PFNA	*3.60*		*ng/l*	*10.0*		*36*	*50-200*			*S-BLK*
HFPO-DA-13C3	*4.27*		*ng/l*	*10.0*		*43*	*50-200*			*S-BLK*
LCS (W3J1469-BS1)				**Prepared: 10/17/23 Analyzed: 10/20/23**						
11Cl-PF3OUdS	2.31	2.0	ng/l	2.00		115	50-150			
4:2 FTS	2.69	2.0	ng/l	2.00		135	50-150			
6:2 FTS	2.31	2.0	ng/l	2.00		115	50-150			
8:2 FTS	2.53	2.0	ng/l	2.00		127	50-150			
9Cl-PF3ONS	3.64	2.0	ng/l	2.00		182	50-150			Q-08
ADONA	2.08	2.0	ng/l	2.00		104	50-150			
HFPO-DA	2.01	2.0	ng/l	2.00		101	50-150			
NFDHA	2.17	2.0	ng/l	2.00		108	50-150			
PFBA	2.34	2.0	ng/l	2.00		117	50-150			
PFBS	2.34	2.0	ng/l	2.00		117	50-150			
PFDA	2.33	2.0	ng/l	2.00		117	50-150			
PFDoA	2.59	2.0	ng/l	2.00		129	50-150			
PFEESA	2.06	2.0	ng/l	2.00		103	50-150			
PFHpA	2.32	2.0	ng/l	2.00		116	50-150			
PFHpS	2.69	2.0	ng/l	2.00		135	50-150			
PFHxA	2.35	2.0	ng/l	2.00		118	50-150			
PFHxS	2.62	2.0	ng/l	2.00		131	50-150			
PFMBA	1.90	2.0	ng/l	2.00		95	50-150			
PFMPA	2.08	2.0	ng/l	2.00		104	50-150			

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Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J1469 - EPA 533 (Continued)										
LCS (W3J1469-BS1)				**Prepared: 10/17/23 Analyzed: 10/20/23**						
PFNA	2.15	2.0	ng/l	2.00		108	50-150			
PFOA	2.76	2.0	ng/l	2.00		138	50-150			
PFOS	2.75	2.0	ng/l	2.00		138	50-150			
PFPeA	2.39	2.0	ng/l	2.00		119	50-150			
PFPeS	2.26	2.0	ng/l	2.00		113	50-150			
PFUnA	2.29	2.0	ng/l	2.00		114	50-150			
Surrogate(s)										
13C2-4:2 FTS	*39.7*		*ng/l*	*40.0*		*99*	*50-200*			
13C2-6:2 FTS	*38.8*		*ng/l*	*40.0*		*97*	*50-200*			
13C2-8:2 FTS	*40.4*		*ng/l*	*40.0*		*101*	*50-200*			
13C2-PFDoA	*5.99*		*ng/l*	*10.0*		*60*	*50-200*			
13C3-PFBS	*10.7*		*ng/l*	*10.0*		*107*	*50-200*			
13C3-PFHxS	*9.99*		*ng/l*	*10.0*		*100*	*50-200*			
13C4-PFBA	*7.86*		*ng/l*	*10.0*		*79*	*50-200*			
13C4-PFHpA	*5.91*		*ng/l*	*10.0*		*59*	*50-200*			
13C5-PFHxA	*6.36*		*ng/l*	*10.0*		*64*	*50-200*			
13C5-PFPeA	*7.16*		*ng/l*	*10.0*		*72*	*50-200*			
13C6-PFDA	*5.31*		*ng/l*	*10.0*		*53*	*50-200*			
13C7-PFUnA	*5.19*		*ng/l*	*10.0*		*52*	*50-200*			
13C8-PFOA	*5.68*		*ng/l*	*10.0*		*57*	*50-200*			
13C8-PFOS	*9.39*		*ng/l*	*10.0*		*94*	*50-200*			
13C9-PFNA	*5.35*		*ng/l*	*10.0*		*53*	*50-200*			
HFPO-DA-13C3	*5.42*		*ng/l*	*10.0*		*54*	*50-200*			
LCS Dup (W3J1469-BSD1)				**Prepared: 10/17/23 Analyzed: 10/20/23**						
11Cl-PF3OUdS	2.30	2.0	ng/l	2.00		115	50-150	0.2	30	
4:2 FTS	2.50	2.0	ng/l	2.00		125	50-150	7	30	
6:2 FTS	2.15	2.0	ng/l	2.00		107	50-150	7	30	
8:2 FTS	2.56	2.0	ng/l	2.00		128	50-150	1	30	
9Cl-PF3ONS	3.46	2.0	ng/l	2.00		173	50-150	5	30	Q-08
ADONA	2.22	2.0	ng/l	2.00		111	50-150	6	30	
HFPO-DA	2.54	2.0	ng/l	2.00		127	50-150	23	30	
NFDHA	1.95	2.0	ng/l	2.00		97	50-150	11	30	
PFBA	2.56	2.0	ng/l	2.00		128	50-150	9	30	
PFBS	2.39	2.0	ng/l	2.00		120	50-150	2	30	
PFDA	2.35	2.0	ng/l	2.00		118	50-150	0.7	30	
PFDoA	2.20	2.0	ng/l	2.00		110	50-150	16	30	
PFEESA	2.08	2.0	ng/l	2.00		104	50-150	0.9	30	
PFHpA	2.57	2.0	ng/l	2.00		128	50-150	10	30	
PFHpS	2.73	2.0	ng/l	2.00		136	50-150	1	30	

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Project Number: City of Paramount

Project Manager: Charlene King

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11/08/2023 15:11

Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J1469 - EPA 533 (Continued)										
LCS Dup (W3J1469-BSD1)				**Prepared: 10/17/23 Analyzed: 10/20/23**						
PFHxA	2.24	2.0	ng/l	2.00		112	50-150	5	30	
PFHxS	2.38	2.0	ng/l	2.00		119	50-150	10	30	
PFMBA	2.00	2.0	ng/l	2.00		100	50-150	5	30	
PFMPA	1.96	2.0	ng/l	2.00		98	50-150	6	30	
PFNA	2.68	2.0	ng/l	2.00		134	50-150	22	30	
PFOA	2.54	2.0	ng/l	2.00		127	50-150	9	30	
PFOS	2.76	2.0	ng/l	2.00		138	50-150	0.4	30	
PFPeA	2.44	2.0	ng/l	2.00		122	50-150	2	30	
PFPeS	2.19	2.0	ng/l	2.00		109	50-150	3	30	
PFUnA	2.24	2.0	ng/l	2.00		112	50-150	2	30	
Surrogate(s)										
13C2-4:2 FTS	*41.4*		*ng/l*	*40.0*		*104*	*50-200*			
13C2-6:2 FTS	*42.2*		*ng/l*	*40.0*		*106*	*50-200*			
13C2-8:2 FTS	*41.7*		*ng/l*	*40.0*		*104*	*50-200*			
13C2-PFDoA	*7.25*		*ng/l*	*10.0*		*73*	*50-200*			
13C3-PFBS	*11.7*		*ng/l*	*10.0*		*117*	*50-200*			
13C3-PFHxS	*11.5*		*ng/l*	*10.0*		*115*	*50-200*			
13C4-PFBA	*7.28*		*ng/l*	*10.0*		*73*	*50-200*			
13C4-PFHpA	*6.41*		*ng/l*	*10.0*		*64*	*50-200*			
13C5-PFHxA	*7.01*		*ng/l*	*10.0*		*70*	*50-200*			
13C5-PFPeA	*7.22*		*ng/l*	*10.0*		*72*	*50-200*			
13C6-PFDA	*5.72*		*ng/l*	*10.0*		*57*	*50-200*			
13C7-PFUnA	*6.25*		*ng/l*	*10.0*		*62*	*50-200*			
13C8-PFOA	*6.15*		*ng/l*	*10.0*		*61*	*50-200*			
13C8-PFOS	*10.1*		*ng/l*	*10.0*		*101*	*50-200*			
13C9-PFNA	*5.85*		*ng/l*	*10.0*		*58*	*50-200*			
HFPO-DA-13C3	*5.31*		*ng/l*	*10.0*		*53*	*50-200*			
Batch: W3J2005 - EPA 533										
Blank (W3J2005-BLK1)				**Prepared: 10/24/23 Analyzed: 10/27/23**						
11Cl-PF3OUdS	ND	2.0	ng/l							
4:2 FTS	ND	2.0	ng/l							
6:2 FTS	ND	2.0	ng/l							
8:2 FTS	ND	2.0	ng/l							
9Cl-PF3ONS	ND	2.0	ng/l							
ADONA	ND	2.0	ng/l							
HFPO-DA	ND	2.0	ng/l							
NFDHA	ND	2.0	ng/l							
PFBA	ND	2.0	ng/l							
PFBS	ND	2.0	ng/l							

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Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J2005 - EPA 533 (Continued)										
Blank (W3J2005-BLK1)				**Prepared: 10/24/23 Analyzed: 10/27/23**						
PFDA	ND	2.0	ng/l							
PFDoA	ND	2.0	ng/l							
PFEESA	ND	2.0	ng/l							
PFHpA	ND	2.0	ng/l							
PFHpS	ND	2.0	ng/l							
PFHxA	ND	2.0	ng/l							
PFHxS	ND	2.0	ng/l							
PFMBA	ND	2.0	ng/l							
PFMPA	ND	2.0	ng/l							
PFNA	ND	2.0	ng/l							
PFOA	ND	2.0	ng/l							
PFOS	ND	2.0	ng/l							
PFPeA	ND	2.0	ng/l							
PFPeS	ND	2.0	ng/l							
PFUnA	ND	2.0	ng/l							
Surrogate(s)										
13C2-4:2 FTS	*39.1*		*ng/l*	*40.0*		*98*	*50-200*			
13C2-6:2 FTS	*37.0*		*ng/l*	*40.0*		*92*	*50-200*			
13C2-8:2 FTS	*39.8*		*ng/l*	*40.0*		*100*	*50-200*			
13C2-PFDoA	*7.51*		*ng/l*	*10.0*		*75*	*50-200*			
13C3-PFBS	*10.2*		*ng/l*	*10.0*		*102*	*50-200*			
13C3-PFHxS	*11.2*		*ng/l*	*10.0*		*112*	*50-200*			
13C4-PFBA	*5.81*		*ng/l*	*10.0*		*58*	*50-200*			
13C4-PFHpA	*6.31*		*ng/l*	*10.0*		*63*	*50-200*			
13C5-PFHxA	*6.44*		*ng/l*	*10.0*		*64*	*50-200*			
13C5-PFPeA	*6.26*		*ng/l*	*10.0*		*63*	*50-200*			
13C6-PFDA	*6.95*		*ng/l*	*10.0*		*70*	*50-200*			
13C7-PFUnA	*7.07*		*ng/l*	*10.0*		*71*	*50-200*			
13C8-PFOA	*6.39*		*ng/l*	*10.0*		*64*	*50-200*			
13C8-PFOS	*9.97*		*ng/l*	*10.0*		*100*	*50-200*			
13C9-PFNA	*6.51*		*ng/l*	*10.0*		*65*	*50-200*			
HFPO-DA-13C3	*5.53*		*ng/l*	*10.0*		*55*	*50-200*			
LCS (W3J2005-BS1)				**Prepared: 10/24/23 Analyzed: 10/27/23**						
11Cl-PF3OUdS	2.39	2.0	ng/l	2.00		119	50-150			
4:2 FTS	2.80	2.0	ng/l	2.00		140	50-150			
6:2 FTS	2.60	2.0	ng/l	2.00		130	50-150			
8:2 FTS	2.46	2.0	ng/l	2.00		123	50-150			
9Cl-PF3ONS	2.94	2.0	ng/l	2.00		147	50-150			
ADONA	2.47	2.0	ng/l	2.00		124	50-150			

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Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J2005 - EPA 533 (Continued)										
LCS (W3J2005-BS1)				**Prepared: 10/24/23 Analyzed: 10/27/23**						
HFPO-DA	3.04	2.0	ng/l	2.00		152	50-150			Q-08
NFDHA	2.31	2.0	ng/l	2.00		116	50-150			
PFBA	2.49	2.0	ng/l	2.00		125	50-150			
PFBS	2.63	2.0	ng/l	2.00		131	50-150			
PFDA	2.49	2.0	ng/l	2.00		125	50-150			
PFDoA	2.59	2.0	ng/l	2.00		129	50-150			
PFEESA	2.32	2.0	ng/l	2.00		116	50-150			
PFHpA	2.57	2.0	ng/l	2.00		129	50-150			
PFHpS	2.71	2.0	ng/l	2.00		135	50-150			
PFHxA	2.43	2.0	ng/l	2.00		122	50-150			
PFHxS	2.44	2.0	ng/l	2.00		122	50-150			
PFMBA	2.68	2.0	ng/l	2.00		134	50-150			
PFMPA	2.26	2.0	ng/l	2.00		113	50-150			
PFNA	2.74	2.0	ng/l	2.00		137	50-150			
PFOA	2.81	2.0	ng/l	2.00		140	50-150			
PFOS	2.39	2.0	ng/l	2.00		119	50-150			
PFPeA	2.46	2.0	ng/l	2.00		123	50-150			
PFPeS	2.52	2.0	ng/l	2.00		126	50-150			
PFUnA	2.41	2.0	ng/l	2.00		120	50-150			
Surrogate(s)										
13C2-4:2 FTS	*32.3*		*ng/l*	*40.0*		*81*	*50-200*			
13C2-6:2 FTS	*34.8*		*ng/l*	*40.0*		*87*	*50-200*			
13C2-8:2 FTS	*35.4*		*ng/l*	*40.0*		*89*	*50-200*			
13C2-PFDoA	*7.83*		*ng/l*	*10.0*		*78*	*50-200*			
13C3-PFBS	*8.46*		*ng/l*	*10.0*		*85*	*50-200*			
13C3-PFHxS	*9.06*		*ng/l*	*10.0*		*91*	*50-200*			
13C4-PFBA	*7.36*		*ng/l*	*10.0*		*74*	*50-200*			
13C4-PFHpA	*7.82*		*ng/l*	*10.0*		*78*	*50-200*			
13C5-PFHxA	*7.74*		*ng/l*	*10.0*		*77*	*50-200*			
13C5-PFPeA	*7.60*		*ng/l*	*10.0*		*76*	*50-200*			
13C6-PFDA	*8.14*		*ng/l*	*10.0*		*81*	*50-200*			
13C7-PFUnA	*8.00*		*ng/l*	*10.0*		*80*	*50-200*			
13C8-PFOA	*7.78*		*ng/l*	*10.0*		*78*	*50-200*			
13C8-PFOS	*8.65*		*ng/l*	*10.0*		*87*	*50-200*			
13C9-PFNA	*7.99*		*ng/l*	*10.0*		*80*	*50-200*			
HFPO-DA-13C3	*6.45*		*ng/l*	*10.0*		*64*	*50-200*			
LCS Dup (W3J2005-BSD1)				**Prepared: 10/24/23 Analyzed: 10/27/23**						
11Cl-PF3OUdS	2.75	2.0	ng/l	2.00		138	50-150	14	30	
4:2 FTS	2.30	2.0	ng/l	2.00		115	50-150	19	30	

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Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J2005 - EPA 533 (Continued)										
LCS Dup (W3J2005-BSD1)				**Prepared: 10/24/23**	**Analyzed: 10/27/23**					
6:2 FTS	2.35	2.0	ng/l	2.00		118	50-150	10	30	
8:2 FTS	2.75	2.0	ng/l	2.00		138	50-150	11	30	
9Cl-PF3ONS	3.33	2.0	ng/l	2.00		166	50-150	12	30	Q-08
ADONA	2.48	2.0	ng/l	2.00		124	50-150	0.3	30	
HFPO-DA	2.25	2.0	ng/l	2.00		113	50-150	30	30	
NFDHA	2.87	2.0	ng/l	2.00		143	50-150	21	30	
PFBA	2.75	2.0	ng/l	2.00		137	50-150	10	30	
PFBS	2.58	2.0	ng/l	2.00		129	50-150	2	30	
PFDA	2.62	2.0	ng/l	2.00		131	50-150	5	30	
PFDoA	2.94	2.0	ng/l	2.00		147	50-150	13	30	
PFEESA	2.27	2.0	ng/l	2.00		113	50-150	2	30	
PFHpA	2.48	2.0	ng/l	2.00		124	50-150	4	30	
PFHpS	2.88	2.0	ng/l	2.00		144	50-150	6	30	
PFHxA	2.47	2.0	ng/l	2.00		123	50-150	1	30	
PFHxS	2.59	2.0	ng/l	2.00		130	50-150	6	30	
PFMBA	2.63	2.0	ng/l	2.00		132	50-150	2	30	
PFMPA	2.25	2.0	ng/l	2.00		113	50-150	0.4	30	
PFNA	2.79	2.0	ng/l	2.00		139	50-150	2	30	
PFOA	2.55	2.0	ng/l	2.00		128	50-150	9	30	
PFOS	2.87	2.0	ng/l	2.00		144	50-150	18	30	
PFPeA	2.75	2.0	ng/l	2.00		137	50-150	11	30	
PFPeS	2.32	2.0	ng/l	2.00		116	50-150	8	30	
PFUnA	2.54	2.0	ng/l	2.00		127	50-150	6	30	
Surrogate(s)										
13C2-4:2 FTS	*39.2*		*ng/l*	*40.0*		*98*	*50-200*			
13C2-6:2 FTS	*38.4*		*ng/l*	*40.0*		*96*	*50-200*			
13C2-8:2 FTS	*39.8*		*ng/l*	*40.0*		*99*	*50-200*			
13C2-PFDoA	*8.27*		*ng/l*	*10.0*		*83*	*50-200*			
13C3-PFBS	*10.3*		*ng/l*	*10.0*		*103*	*50-200*			
13C3-PFHxS	*10.2*		*ng/l*	*10.0*		*102*	*50-200*			
13C4-PFBA	*8.12*		*ng/l*	*10.0*		*81*	*50-200*			
13C4-PFHpA	*8.25*		*ng/l*	*10.0*		*82*	*50-200*			
13C5-PFHxA	*8.13*		*ng/l*	*10.0*		*81*	*50-200*			
13C5-PFPeA	*8.25*		*ng/l*	*10.0*		*83*	*50-200*			
13C6-PFDA	*8.33*		*ng/l*	*10.0*		*83*	*50-200*			
13C7-PFUnA	*8.65*		*ng/l*	*10.0*		*87*	*50-200*			
13C8-PFOA	*8.15*		*ng/l*	*10.0*		*82*	*50-200*			
13C8-PFOS	*9.46*		*ng/l*	*10.0*		*95*	*50-200*			
13C9-PFNA	*8.21*		*ng/l*	*10.0*		*82*	*50-200*			

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Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J2005 - EPA 533 (Continued)										
LCS Dup (W3J2005-BSD1)				**Prepared: 10/24/23**	**Analyzed: 10/27/23**					
Surrogate(s)										
HFPO-DA-13C3	*7.25*		*ng/l*	*10.0*		*72*	*50-200*			

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11/08/2023 15:11

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0533 - EPA 524.2										
Blank (W3J0533-BLK1)				**Prepared: 10/06/23 Analyzed: 10/07/23**						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
1,1-Dichloropropene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	0.50	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropene, Total	ND	0.50	ug/l							
2,2-Dichloropropane	ND	0.50	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	0.50	ug/l							
Bromomethane	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	0.50	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l							
Di-isopropyl ether	ND	2.0	ug/l							
Ethyl tert-butyl ether	ND	2.0	ug/l							

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11/08/2023 15:11

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0533 - EPA 524.2 (Continued)										
Blank (W3J0533-BLK1)				**Prepared: 10/06/23 Analyzed: 10/07/23**						
Ethylbenzene	ND	0.50	ug/l							
Freon 113	ND	5.0	ug/l							
Hexachlorobutadiene	ND	0.50	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
m,p-Xylene	ND	0.50	ug/l							
m-Dichlorobenzene	ND	0.50	ug/l							
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l							
Methylene chloride	ND	0.50	ug/l							
Naphthalene	ND	0.50	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
o-Dichlorobenzene	ND	0.50	ug/l							
o-Xylene	ND	0.50	ug/l							
p-Dichlorobenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
Tert-amyl methyl ether	ND	2.0	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
THMs, Total	ND	2.0	ug/l							
Toluene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	0.50	ug/l							
Surrogate(s)										
1,2-Dichlorobenzene-d4	*45.2*		*ug/l*	*50.0*		*90*	*70-130*			
4-Bromofluorobenzene	*43.5*		*ug/l*	*50.0*		*87*	*70-130*			
LCS (W3J0533-BS1)				**Prepared: 10/06/23 Analyzed: 10/07/23**						
1,1,1,2-Tetrachloroethane	4.76	0.50	ug/l	5.00		95	70-130			
1,1,1-Trichloroethane	4.90	0.50	ug/l	5.00		98	70-130			
1,1,2,2-Tetrachloroethane	4.68	0.50	ug/l	5.00		94	70-130			
1,1,2-Trichloroethane	4.58	0.50	ug/l	5.00		92	70-130			
1,1-Dichloroethane	5.35	0.50	ug/l	5.00		107	70-130			
1,1-Dichloroethene	4.66	0.50	ug/l	5.00		93	70-130			
1,1-Dichloropropene	4.32	0.50	ug/l	5.00		86	70-130			

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0533 - EPA 524.2 (Continued)										
LCS (W3J0533-BS1)				**Prepared: 10/06/23**	**Analyzed: 10/07/23**					
1,2,3-Trichlorobenzene	4.67	0.50	ug/l	5.00		93	70-130			
1,2,4-Trichlorobenzene	4.47	0.50	ug/l	5.00		89	70-130			
1,2,4-Trimethylbenzene	4.74	0.50	ug/l	5.00		95	70-130			
1,2-Dichloroethane	4.77	0.50	ug/l	5.00		95	70-130			
1,2-Dichloropropane	4.64	0.50	ug/l	5.00		93	70-130			
1,3,5-Trimethylbenzene	4.67	0.50	ug/l	5.00		93	70-130			
1,3-Dichloropropane	4.71	0.50	ug/l	5.00		94	70-130			
2,2-Dichloropropane	4.12	0.50	ug/l	5.00		82	70-130			
2-Butanone	4.70	5.0	ug/l	5.00		94	70-130			
2-Chlorotoluene	4.96	0.50	ug/l	5.00		99	70-130			
2-Hexanone	4.94	5.0	ug/l	5.00		99	70-130			
4-Chlorotoluene	4.95	0.50	ug/l	5.00		99	70-130			
4-Methyl-2-pentanone	4.65	5.0	ug/l	5.00		93	70-130			
Benzene	4.66	0.50	ug/l	5.00		93	70-130			
Bromobenzene	4.65	0.50	ug/l	5.00		93	70-130			
Bromochloromethane	4.92	0.50	ug/l	5.00		98	70-130			
Bromodichloromethane	4.74	0.50	ug/l	5.00		95	70-130			
Bromoform	4.59	0.50	ug/l	5.00		92	70-130			
Bromomethane	4.82	0.50	ug/l	5.00		96	70-130			
Carbon tetrachloride	4.58	0.50	ug/l	5.00		92	70-130			
Chlorobenzene	4.78	0.50	ug/l	5.00		96	70-130			
Chloroethane	4.88	0.50	ug/l	5.00		98	70-130			
Chloroform	5.19	0.50	ug/l	5.00		104	70-130			
Chloromethane	6.44	0.50	ug/l	5.00		129	70-130			
cis-1,2-Dichloroethene	4.92	0.50	ug/l	5.00		98	70-130			
cis-1,3-Dichloropropene	4.06	0.50	ug/l	5.00		81	70-130			
Dibromochloromethane	4.69	0.50	ug/l	5.00		94	70-130			
Dibromomethane	4.92	0.50	ug/l	5.00		98	70-130			
Dichlorodifluoromethane (Freon 12)	4.60	0.50	ug/l	5.00		92	70-130			
Di-isopropyl ether	20.5	2.0	ug/l	20.0		102	70-130			
Ethyl tert-butyl ether	20.6	2.0	ug/l	20.0		103	70-130			
Ethylbenzene	4.26	0.50	ug/l	5.00		85	70-130			
Freon 113	4.83	5.0	ug/l	5.00		97	70-130			
Hexachlorobutadiene	4.22	0.50	ug/l	5.00		84	70-130			
Isopropylbenzene	4.40	0.50	ug/l	5.00		88	70-130			
m,p-Xylene	4.60	0.50	ug/l	5.00		92	70-130			
m-Dichlorobenzene	4.95	0.50	ug/l	5.00		99	70-130			
Methyl tert-butyl ether (MTBE)	20.5	2.0	ug/l	20.0		103	70-130			
Methylene chloride	5.36	0.50	ug/l	5.00		107	70-130			

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Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0533 - EPA 524.2 (Continued)										
LCS (W3J0533-BS1)				**Prepared: 10/06/23 Analyzed: 10/07/23**						
Naphthalene	4.47	0.50	ug/l	5.00		89	70-130			
n-Butylbenzene	4.51	0.50	ug/l	5.00		90	70-130			
n-Propylbenzene	4.93	0.50	ug/l	5.00		99	70-130			
o-Dichlorobenzene	4.99	0.50	ug/l	5.00		100	70-130			
o-Xylene	4.91	0.50	ug/l	5.00		98	70-130			
p-Dichlorobenzene	4.95	0.50	ug/l	5.00		99	70-130			
p-Isopropyltoluene	4.65	0.50	ug/l	5.00		93	70-130			
sec-Butylbenzene	4.62	0.50	ug/l	5.00		92	70-130			
Styrene	4.71	0.50	ug/l	5.00		94	70-130			
Tert-amyl methyl ether	20.7	2.0	ug/l	20.0		103	70-130			
tert-Butylbenzene	4.44	0.50	ug/l	5.00		89	70-130			
Tetrachloroethene	4.51	0.50	ug/l	5.00		90	70-130			
Toluene	4.87	0.50	ug/l	5.00		97	70-130			
trans-1,2-Dichloroethene	5.18	0.50	ug/l	5.00		104	70-130			
trans-1,3-Dichloropropene	4.54	0.50	ug/l	5.00		91	70-130			
Trichloroethene	4.37	0.50	ug/l	5.00		87	70-130			
Trichlorofluoromethane	4.74	0.50	ug/l	5.00		95	70-130			
Vinyl chloride	6.21	0.50	ug/l	5.00		124	70-130			
Surrogate(s)										
1,2-Dichlorobenzene-d4	*52.9*		*ug/l*	*50.0*		*106*	*70-130*			
4-Bromofluorobenzene	*50.7*		*ug/l*	*50.0*		*101*	*70-130*			
LCS Dup (W3J0533-BSD1)				**Prepared: 10/06/23 Analyzed: 10/07/23**						
1,1,1,2-Tetrachloroethane	4.37	0.50	ug/l	5.00		87	70-130	8	30	
1,1,1-Trichloroethane	4.68	0.50	ug/l	5.00		94	70-130	5	30	
1,1,2,2-Tetrachloroethane	4.72	0.50	ug/l	5.00		94	70-130	0.7	30	
1,1,2-Trichloroethane	4.42	0.50	ug/l	5.00		88	70-130	3	30	
1,1-Dichloroethane	5.98	0.50	ug/l	5.00		120	70-130	11	30	
1,1-Dichloroethene	4.60	0.50	ug/l	5.00		92	70-130	1	30	
1,1-Dichloropropene	3.78	0.50	ug/l	5.00		76	70-130	13	30	
1,2,3-Trichlorobenzene	4.23	0.50	ug/l	5.00		85	70-130	10	30	
1,2,4-Trichlorobenzene	4.07	0.50	ug/l	5.00		81	70-130	9	30	
1,2,4-Trimethylbenzene	4.47	0.50	ug/l	5.00		89	70-130	6	30	
1,2-Dichloroethane	4.51	0.50	ug/l	5.00		90	70-130	5	30	
1,2-Dichloropropane	4.32	0.50	ug/l	5.00		86	70-130	7	30	
1,3,5-Trimethylbenzene	4.39	0.50	ug/l	5.00		88	70-130	6	30	
1,3-Dichloropropane	4.55	0.50	ug/l	5.00		91	70-130	3	30	
2,2-Dichloropropane	4.29	0.50	ug/l	5.00		86	70-130	4	30	
2-Butanone	5.55	5.0	ug/l	5.00		111	70-130	17	30	
2-Chlorotoluene	4.64	0.50	ug/l	5.00		93	70-130	7	30	

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Project Manager: Charlene King

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11/08/2023 15:11

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0533 - EPA 524.2 (Continued)										
LCS Dup (W3J0533-BSD1)				**Prepared: 10/06/23**	**Analyzed: 10/07/23**					
2-Hexanone	4.51	5.0	ug/l	5.00		90	70-130	9	30	
4-Chlorotoluene	4.69	0.50	ug/l	5.00		94	70-130	5	30	
4-Methyl-2-pentanone	4.46	5.0	ug/l	5.00		89	70-130	4	30	
Benzene	4.27	0.50	ug/l	5.00		85	70-130	9	30	
Bromobenzene	4.41	0.50	ug/l	5.00		88	70-130	5	30	
Bromochloromethane	5.29	0.50	ug/l	5.00		106	70-130	7	30	
Bromodichloromethane	4.47	0.50	ug/l	5.00		89	70-130	6	30	
Bromoform	4.25	0.50	ug/l	5.00		85	70-130	8	30	
Bromomethane	5.03	0.50	ug/l	5.00		101	70-130	4	30	
Carbon tetrachloride	4.00	0.50	ug/l	5.00		80	70-130	14	30	
Chlorobenzene	4.51	0.50	ug/l	5.00		90	70-130	6	30	
Chloroethane	5.22	0.50	ug/l	5.00		104	70-130	7	30	
Chloroform	5.53	0.50	ug/l	5.00		111	70-130	6	30	
Chloromethane	6.05	0.50	ug/l	5.00		121	70-130	6	30	
cis-1,2-Dichloroethene	5.33	0.50	ug/l	5.00		107	70-130	8	30	
cis-1,3-Dichloropropene	3.84	0.50	ug/l	5.00		77	70-130	6	30	
Dibromochloromethane	4.41	0.50	ug/l	5.00		88	70-130	6	30	
Dibromomethane	4.58	0.50	ug/l	5.00		92	70-130	7	30	
Dichlorodifluoromethane (Freon 12)	4.32	0.50	ug/l	5.00		86	70-130	6	30	
Di-isopropyl ether	22.9	2.0	ug/l	20.0		114	70-130	11	30	
Ethyl tert-butyl ether	22.2	2.0	ug/l	20.0		111	70-130	7	30	
Ethylbenzene	3.89	0.50	ug/l	5.00		78	70-130	9	30	
Freon 113	4.56	5.0	ug/l	5.00		91	70-130	6	30	
Hexachlorobutadiene	3.44	0.50	ug/l	5.00		69	70-130	20	30	Q-ME
Isopropylbenzene	4.02	0.50	ug/l	5.00		80	70-130	9	30	
m,p-Xylene	4.19	0.50	ug/l	5.00		84	70-130	9	30	
m-Dichlorobenzene	4.65	0.50	ug/l	5.00		93	70-130	6	30	
Methyl tert-butyl ether (MTBE)	24.0	2.0	ug/l	20.0		120	70-130	15	30	
Methylene chloride	6.42	0.50	ug/l	5.00		128	70-130	18	30	
Naphthalene	4.19	0.50	ug/l	5.00		84	70-130	6	30	
n-Butylbenzene	4.20	0.50	ug/l	5.00		84	70-130	7	30	
n-Propylbenzene	4.67	0.50	ug/l	5.00		93	70-130	6	30	
o-Dichlorobenzene	4.87	0.50	ug/l	5.00		97	70-130	2	30	
o-Xylene	4.44	0.50	ug/l	5.00		89	70-130	10	30	
p-Dichlorobenzene	4.63	0.50	ug/l	5.00		93	70-130	7	30	
p-Isopropyltoluene	4.35	0.50	ug/l	5.00		87	70-130	7	30	
sec-Butylbenzene	4.35	0.50	ug/l	5.00		87	70-130	6	30	
Styrene	4.40	0.50	ug/l	5.00		88	70-130	7	30	
Tert-amyl methyl ether	19.8	2.0	ug/l	20.0		99	70-130	4	30	

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11/08/2023 15:11

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3J0533 - EPA 524.2 (Continued)										
LCS Dup (W3J0533-BSD1)				**Prepared: 10/06/23 Analyzed: 10/07/23**						
tert-Butylbenzene	4.13	0.50	ug/l	5.00		83	70-130	7	30	
Tetrachloroethene	3.90	0.50	ug/l	5.00		78	70-130	15	30	
Toluene	4.57	0.50	ug/l	5.00		91	70-130	6	30	
trans-1,2-Dichloroethene	5.61	0.50	ug/l	5.00		112	70-130	8	30	
trans-1,3-Dichloropropene	4.40	0.50	ug/l	5.00		88	70-130	3	30	
Trichloroethene	4.01	0.50	ug/l	5.00		80	70-130	9	30	
Trichlorofluoromethane	4.43	0.50	ug/l	5.00		89	70-130	7	30	
Vinyl chloride	5.94	0.50	ug/l	5.00		119	70-130	4	30	
Surrogate(s)										
1,2-Dichlorobenzene-d4	*53.1*		*ug/l*	*50.0*		*106*	*70-130*			
4-Bromofluorobenzene	*48.9*		*ug/l*	*50.0*		*98*	*70-130*			
Batch: W3J0731 - EPA 524.2										
Blank (W3J0731-BLK1)				**Prepared & Analyzed: 10/09/23**						
Methylene chloride	ND	0.50	ug/l							
Surrogate(s)										
1,2-Dichlorobenzene-d4	*40.0*		*ug/l*	*50.0*		*80*	*70-130*			
4-Bromofluorobenzene	*40.8*		*ug/l*	*50.0*		*82*	*70-130*			
LCS (W3J0731-BS1)				**Prepared & Analyzed: 10/09/23**						
Methylene chloride	4.50	0.50	ug/l	5.00		90	70-130			
Surrogate(s)										
1,2-Dichlorobenzene-d4	*46.7*		*ug/l*	*50.0*		*93*	*70-130*			
4-Bromofluorobenzene	*47.1*		*ug/l*	*50.0*		*94*	*70-130*			
LCS Dup (W3J0731-BSD1)				**Prepared: 10/09/23 Analyzed: 10/10/23**						
Methylene chloride	4.74	0.50	ug/l	5.00		95	70-130	5	30	
Surrogate(s)										
1,2-Dichlorobenzene-d4	*47.8*		*ug/l*	*50.0*		*96*	*70-130*			
4-Bromofluorobenzene	*47.1*		*ug/l*	*50.0*		*94*	*70-130*			

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Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
11/08/2023 15:11

Notes and Definitions

Item	Definition
S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
%REC	Percent Recovery
Dil	Dilution
MRL	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)
ND	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.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

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.

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CHAIN OF CUSTODY RECORD

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Work Order # 3J02001

Page 1 Of 1

CLIENT NAME:	PROJECT:
Water Replenishment District	City of Paramount
ADDRESS: 4040 Paramount Blvd, Lakewood, Ca 90712	PHONE: 562-921-5521 FAX: EMAIL: cking@wrd.org
PROJECT MANAGER: Charlene King	SAMPLER: Weck - ALLAN

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☐ 10 - 15 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

WTX IDs	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	524.2 Methylene Chloride	EPA 522- 1,4 Dioxane	EPA 533	EPA 200.8 Mn	EPA 200.8 As	EPA 524M SRL 1,2,3-TCP				COMMENTS
3DEB1	10/2/23	1020	GW	Well 14 CA1910105_016_016	8	x	x	x	x						Fld Temp 18.9°C
			FB	Well 14 - FRB	1			x							
3DEB2		1045	GW	Well 15 (Pre) CA1910105_025_025	5			x	x	x	x				Fld Temp 20.8°C
			FB	Well 15 (Pre) - FRB	1			x							
3DEB3		1058	GW	Well 15 (Effluent) CA1910105_027_027	5			x	x	x	x				Fld Temp 21.2°C
			FB	Well 15 (Effluent) - FRB	1			x							
			TB	Travel Blank	1	x									

RELINQUISHED BY	DATE / TIME	RECEIVED BY
ALLAN	10/2/23 1515	Jamalynn 10/02/23 1515
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION 3.8°C

Actual Temperature:

Received On Ice	(Y)	N
Preserved	Y	N
Evidence Seals Present	Y	N
Container Attacked	Y	N
Preserved at Lab	Y	N

TO181

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION
WTX: 20352
Watertrax Uploaded Needed

COC version 042707

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: **3J02001**
WKO Logged by: Jaime Gomez
Samples Checked by: Jaime Gomez

Date/Time Received: 10/02/23 15:15
# of Samples: 07
Delivered by: Allan Goldberg

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified about COC discrepancy?	☐	☐	☒	
Receipt Information	Sample Temperature	3.8 °C			
	Samples received on ice?	☒	☐		
	Ice Type (Blue/Wet)				
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Samples intact?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified about receipt info?	☐	☒	☐	
Sample Preservation Verification?	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☒	☐	☐<6mm/Pea Size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	☒	☐	☐	pH paper Lot# 3082367
	Free Chlorine Tested <0.1 (Organics Analyses)	☒	☐	☐	Cl Test Strip Lot# 11032201
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot#
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	☐	☐	☐	

PM Comments

Sample Receipt Checklist Completed by:

Signature: Jaime Gomez Date: 10/02/23