

Work Orders: 3A08002

Report Date: 1/27/2023

Project: City of Paramount

Received Date: 01/09/2023

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:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047

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 1/09/23 with the Chain-of-Custody document. The samples were received in good condition, at 5.8 °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:



Kim G. Tu
Project Manager



Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:

01/27/2023 16:07

Project Manager: Charlene King

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Well 14 CA1910105_016_016, RegID: CA1910105_016_016	Allan Goldberg (wecklabs)	3A08002-01	Water	01/09/23 10:30	
Well 14 - Field Blank, RegID: CA1910105_016_016	Allan Goldberg (wecklabs)	3A08002-02	Water	01/09/23 00:00	
Well 15 Pre CA1910105_025_025, RegID: CA1910105_025_025	Allan Goldberg (wecklabs)	3A08002-03	Water	01/09/23 10:45	
Well 15 Effluent CA1910105_027_027, RegID: CA1910105_027_027	Allan Goldberg (wecklabs)	3A08002-04	Water	01/09/23 10:50	
Travel Blank	Allan Goldberg (wecklabs)	3A08002-05	Water	01/09/23 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	✓	
9CI-PF3ONS	756426-58-1	✓	
8:2 FTS	39108-34-4	✓	
PFDA	335-76-2	✓	
PFUnA	2058-94-8	✓	
11CI-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		✓	
13C2-6:2 FTS		✓	

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Analyses Accreditation Summary

(Continued)

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
EPA 533 in Water (Continued)			
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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Sample Results

Sample: Well 14 CA1910105_016_016, RegID: CA1910105_016_016
3A08002-01 (Water) Sampled: 01/09/23 10:30 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Metals by EPA 200 Series Methods

Method: EPA 200.8		Instr: ICPMS04				
Batch ID: W3A1347	Preparation: EPA 200.2	Prepared: 01/17/23 17:20				Analyst: TYC
Manganese, Total	18	1.0	ug/l	1	01/19/23	

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

Method: EPA 533		Instr: LCMS06				
Batch ID: W3A0648	Preparation: EPA 533/SPE	Prepared: 01/10/23 06:43				Analyst: jna
11CI-PF3OUdS	ND	2.0	ng/l	1	01/16/23	
4:2 FTS	ND	2.0	ng/l	1	01/16/23	
6:2 FTS	ND	2.0	ng/l	1	01/16/23	
8:2 FTS	ND	2.0	ng/l	1	01/16/23	
9CI-PF3ONS	ND	2.0	ng/l	1	01/16/23	
ADONA	ND	2.0	ng/l	1	01/16/23	
HFPO-DA	ND	2.0	ng/l	1	01/16/23	
NFDHA	ND	2.0	ng/l	1	01/16/23	
PFBA	ND	2.0	ng/l	1	01/16/23	
PFBS	ND	2.0	ng/l	1	01/16/23	
PFDA	ND	2.0	ng/l	1	01/16/23	
PFDoA	ND	2.0	ng/l	1	01/16/23	
PFEESA	ND	2.0	ng/l	1	01/16/23	
PFHpA	ND	2.0	ng/l	1	01/16/23	
PFHpS	ND	2.0	ng/l	1	01/16/23	
PFHxA	ND	2.0	ng/l	1	01/16/23	
PFHxS	ND	2.0	ng/l	1	01/16/23	
PFMBA	ND	2.0	ng/l	1	01/16/23	
PFMPA	ND	2.0	ng/l	1	01/16/23	
PFNA	ND	2.0	ng/l	1	01/16/23	
PFOA	ND	2.0	ng/l	1	01/16/23	
PFOS	8.2	2.0	ng/l	1	01/16/23	
PFPeA	ND	2.0	ng/l	1	01/16/23	
PFPeS	ND	2.0	ng/l	1	01/16/23	
PFUnA	ND	2.0	ng/l	1	01/16/23	

Surrogate(s)	Conc	MRL	Units	Analyzed
13C2-4:2 FTS	73%	26.7	50-200	01/16/23
13C2-6:2 FTS	95%	35.0	50-200	01/16/23
13C2-8:2 FTS	98%	36.1	50-200	01/16/23
13C2-PFDoA	86%	7.93	50-200	01/16/23
13C3-PFBS	89%	8.18	50-200	01/16/23
13C3-PFHxS	92%	8.44	50-200	01/16/23

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Sample Results

(Continued)

Sample: Well 14 CA1910105_016_016, RegID: CA1910105_016_016
3A08002-01 (Water) Sampled: 01/09/23 10:30 by Allan Goldberg (wecklabs)
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Method: EPA 533		Instr: LCMS06				
Batch ID: W3A0648	Preparation: EPA 533/SPE	Prepared: 01/10/23 06:43	Analyst: jna			
13C4-PFBA	92% Conc: 8.46	50-200			01/16/23	
13C4-PFHpA	88% Conc: 8.07	50-200			01/16/23	
13C5-PFHxA	87% Conc: 7.97	50-200			01/16/23	
13C5-PFPeA	92% Conc: 8.42	50-200			01/16/23	
13C6-PFDA	86% Conc: 7.88	50-200			01/16/23	
13C7-PFUnA	87% Conc: 7.99	50-200			01/16/23	
13C8-PFOA	84% Conc: 7.70	50-200			01/16/23	
13C8-PFOS	92% Conc: 8.46	50-200			01/16/23	
13C9-PFNA	84% Conc: 7.75	50-200			01/16/23	
HFPO-DA-13C3	90% Conc: 8.32	50-200			01/16/23	

Volatile Organic Compounds by P&T and GC/MS

Method: EPA 524.2		Instr: GCMS08				
Batch ID: W3A0584	Preparation: EPA 5030B	Prepared: 01/10/23 06:00	Analyst: cam			
Methylene chloride	ND	0.50	ug/l	1	01/10/23	
<i>Surrogate(s)</i>						
1,2-Dichlorobenzene-d4	90% Conc: 8.99	70-130			01/10/23	
4-Bromofluorobenzene	88% Conc: 8.76	70-130			01/10/23	

Sample Results

(Continued)

Sample: Well 14 CA1910105_016_016, RegID: CA1910105_016_016
3A08002-01RE1 (Water) Sampled: 01/09/23 10:30 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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1,4-Dioxane by SPE/GCMS SIM, EPA Method 522

Method: EPA 522		Instr: GCMS20				
Batch ID: W3A0790	Preparation: EPA 522/SPE	Prepared: 01/11/23 08:06	Analyst: mld			
1,4-Dioxane	1.9	0.070	ug/l	1	01/12/23	
<i>Surrogate(s)</i>						
1,4-Dioxane-d8	107% Conc: 10.7	70-130			01/12/23	

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Sample Results

(Continued)

Sample: Well 14 - Field Blank, RegID: CA1910105_016_016
3A08002-02 (Water)

Sampled: 01/09/23 0:00 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS

Method: EPA 533

Instr: LCMS06

Batch ID: W3A0648

Preparation: EPA 533/SPE

Prepared: 01/10/23 06:43

Analyst: jna

11CI-PF3OUdS	ND	1.7	ng/l	1	01/16/23	
4:2 FTS	ND	1.7	ng/l	1	01/16/23	
6:2 FTS	ND	1.7	ng/l	1	01/16/23	
8:2 FTS	ND	1.7	ng/l	1	01/16/23	
9CI-PF3ONS	ND	1.7	ng/l	1	01/16/23	
ADONA	ND	1.7	ng/l	1	01/16/23	
HFPO-DA	ND	1.7	ng/l	1	01/16/23	
NFDHA	ND	1.7	ng/l	1	01/16/23	
PFBA	ND	1.7	ng/l	1	01/16/23	
PFBS	ND	1.7	ng/l	1	01/16/23	
PFDA	ND	1.7	ng/l	1	01/16/23	
PFDoA	ND	1.7	ng/l	1	01/16/23	
PFEESA	ND	1.7	ng/l	1	01/16/23	
PFHpA	ND	1.7	ng/l	1	01/16/23	
PFHpS	ND	1.7	ng/l	1	01/16/23	
PFHxA	ND	1.7	ng/l	1	01/16/23	
PFHxS	ND	1.7	ng/l	1	01/16/23	
PFMBA	ND	1.7	ng/l	1	01/16/23	
PFMPA	ND	1.7	ng/l	1	01/16/23	
PFNA	ND	1.7	ng/l	1	01/16/23	
PFOA	ND	1.7	ng/l	1	01/16/23	
PFOS	ND	1.7	ng/l	1	01/16/23	
PFPeA	ND	1.7	ng/l	1	01/16/23	
PFPeS	ND	1.7	ng/l	1	01/16/23	
PFOA	ND	1.7	ng/l	1	01/16/23	

Surrogate(s)

13C2-4:2 FTS	93%	Conc: 32.3	50-200	01/16/23
13C2-6:2 FTS	106%	Conc: 36.8	50-200	01/16/23
13C2-8:2 FTS	110%	Conc: 38.2	50-200	01/16/23
13C2-PFDoA	97%	Conc: 8.44	50-200	01/16/23
13C3-PFBS	97%	Conc: 8.45	50-200	01/16/23
13C3-PFHxS	100%	Conc: 8.70	50-200	01/16/23
13C4-PFBA	101%	Conc: 8.79	50-200	01/16/23
13C4-PFHpA	102%	Conc: 8.88	50-200	01/16/23
13C5-PFHxA	98%	Conc: 8.56	50-200	01/16/23

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Sample Results

(Continued)

Sample: Well 14 - Field Blank, RegID: CA1910105_016_016
3A08002-02 (Water) Sampled: 01/09/23 0:00 by Allan Goldberg (wecklabs)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Per- and Polyfluorinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)						
Method: EPA 533			Instr: LCMS06			
Batch ID: W3A0648		Preparation: EPA 533/SPE		Prepared: 01/10/23 06:43		Analyst: jna
13C5-PFPeA	103% Conc: 8.96	50-200			01/16/23	
13C6-PFDA	105% Conc: 9.17	50-200			01/16/23	
13C7-PFUnA	102% Conc: 8.89	50-200			01/16/23	
13C8-PFOA	102% Conc: 8.85	50-200			01/16/23	
13C8-PFOS	98% Conc: 8.50	50-200			01/16/23	
13C9-PFNA	104% Conc: 9.04	50-200			01/16/23	
HFPO-DA-13C3	102% Conc: 8.91	50-200			01/16/23	

Sample Results

(Continued)

Sample: Well 15 Pre CA1910105_025_025, RegID: CA1910105_025_025
3A08002-03 (Water) Sampled: 01/09/23 10:45 by Allan Goldberg (wecklabs)

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: GCMS04			
Batch ID: W3A0942		Preparation: EPA 5030B		Prepared: 01/12/23 07:06		Analyst: ADM
1,2,3-Trichloropropane	ND	0.0050	ug/l	1	01/13/23	
Metals by EPA 200 Series Methods						
Method: EPA 200.8			Instr: ICPMS04			
Batch ID: W3A1347		Preparation: EPA 200.2		Prepared: 01/17/23 17:20		Analyst: TYC
Arsenic, Total	6.3	0.50	ug/l	1	01/19/23	
Manganese, Total	38	1.0	ug/l	1	01/19/23	

Sample Results

(Continued)

Sample: Well 15 Effluent CA1910105_027_027, RegID: CA1910105_027_027
3A08002-04 (Water) Sampled: 01/09/23 10:50 by Allan Goldberg (wecklabs)

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: GCMS04			
Batch ID: W3A0942		Preparation: EPA 5030B		Prepared: 01/12/23 07:06		Analyst: ADM
1,2,3-Trichloropropane	ND	0.0050	ug/l	1	01/13/23	
Metals by EPA 200 Series Methods						
Method: EPA 200.8			Instr: ICPMS04			
Batch ID: W3A1347		Preparation: EPA 200.2		Prepared: 01/17/23 17:20		Analyst: TYC
Arsenic, Total	6.3	0.50	ug/l	1	01/19/23	
Manganese, Total	ND	1.0	ug/l	1	01/19/23	

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Sample Results

(Continued)

Sample: Travel Blank
3A08002-05 (Water)

Sampled: 01/09/23 0:00 by Allan Goldberg (wecklabs)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 524.2		Instr: GCMS08				
Batch ID: W3A0638	Preparation: EPA 5030B	Prepared: 01/09/23 18:00		Analyst: cam		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	01/09/23	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	01/09/23	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	01/09/23	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	01/09/23	
1,1-Dichloroethane	ND	0.50	ug/l	1	01/09/23	
1,1-Dichloroethene	ND	0.50	ug/l	1	01/09/23	
1,1-Dichloropropene	ND	0.50	ug/l	1	01/09/23	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	01/09/23	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	01/09/23	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	01/09/23	
1,2-Dichloroethane	ND	0.50	ug/l	1	01/09/23	
1,2-Dichloropropane	ND	0.50	ug/l	1	01/09/23	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	01/09/23	
1,3-Dichloropropane	ND	0.50	ug/l	1	01/09/23	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	01/09/23	
2,2-Dichloropropane	ND	0.50	ug/l	1	01/09/23	
2-Butanone	ND	5.0	ug/l	1	01/09/23	
2-Chlorotoluene	ND	0.50	ug/l	1	01/09/23	
2-Hexanone	ND	5.0	ug/l	1	01/09/23	
4-Chlorotoluene	ND	0.50	ug/l	1	01/09/23	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	01/09/23	
Benzene	ND	0.50	ug/l	1	01/09/23	
Bromobenzene	ND	0.50	ug/l	1	01/09/23	
Bromochloromethane	ND	0.50	ug/l	1	01/09/23	
Bromodichloromethane	ND	0.50	ug/l	1	01/09/23	
Bromoform	ND	0.50	ug/l	1	01/09/23	
Bromomethane	ND	0.50	ug/l	1	01/09/23	
Carbon tetrachloride	ND	0.50	ug/l	1	01/09/23	
Chlorobenzene	ND	0.50	ug/l	1	01/09/23	
Chloroethane	ND	0.50	ug/l	1	01/09/23	
Chloroform	ND	0.50	ug/l	1	01/09/23	
Chloromethane	ND	0.50	ug/l	1	01/09/23	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	01/09/23	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	01/09/23	
Dibromochloromethane	ND	0.50	ug/l	1	01/09/23	

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Sample Results

(Continued)

Sample: Travel Blank
3A08002-05 (Water)

Sampled: 01/09/23 0:00 by Allan Goldberg (wecklabs)
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Volatile Organic Compounds by P&T and GC/MS (Continued)

Method: EPA 524.2

Instr: GCMS08

Batch ID: W3A0638

Preparation: EPA 5030B

Prepared: 01/09/23 18:00

Analyst: cam

Dibromomethane	ND	0.50	ug/l	1	01/09/23	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	01/09/23	
Di-isopropyl ether	ND	2.0	ug/l	1	01/09/23	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	01/09/23	
Ethylbenzene	ND	0.50	ug/l	1	01/09/23	
Freon 113	ND	5.0	ug/l	1	01/09/23	
Hexachlorobutadiene	ND	0.50	ug/l	1	01/09/23	
Isopropylbenzene	ND	0.50	ug/l	1	01/09/23	
m,p-Xylene	ND	0.50	ug/l	1	01/09/23	
m-Dichlorobenzene	ND	0.50	ug/l	1	01/09/23	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	01/09/23	
Methylene chloride	ND	0.50	ug/l	1	01/09/23	
Naphthalene	ND	0.50	ug/l	1	01/09/23	
n-Butylbenzene	ND	0.50	ug/l	1	01/09/23	
n-Propylbenzene	ND	0.50	ug/l	1	01/09/23	
o-Dichlorobenzene	ND	0.50	ug/l	1	01/09/23	
o-Xylene	ND	0.50	ug/l	1	01/09/23	
p-Dichlorobenzene	ND	0.50	ug/l	1	01/09/23	
p-Isopropyltoluene	ND	0.50	ug/l	1	01/09/23	
sec-Butylbenzene	ND	0.50	ug/l	1	01/09/23	
Styrene	ND	0.50	ug/l	1	01/09/23	
Tert-amyl methyl ether	ND	2.0	ug/l	1	01/09/23	
tert-Butylbenzene	ND	0.50	ug/l	1	01/09/23	
Tetrachloroethene	ND	0.50	ug/l	1	01/09/23	
THMs, Total	ND	2.0	ug/l	1	01/09/23	
Toluene	ND	0.50	ug/l	1	01/09/23	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	01/09/23	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	01/09/23	
Trichloroethene	ND	0.50	ug/l	1	01/09/23	
Trichlorofluoromethane	ND	0.50	ug/l	1	01/09/23	
Vinyl chloride	ND	0.50	ug/l	1	01/09/23	
Xylenes, Total	ND	0.50	ug/l	1	01/09/23	

Surrogate(s)

1,2-Dichlorobenzene-d4	100%	Conc: 10.0	70-130	01/09/23
4-Bromofluorobenzene	95%	Conc: 9.52	70-130	01/09/23

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Project Manager: Charlene King

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Sample Results

(Continued)

Sample: Travel Blank
 3A08002-05 (Water)

Sampled: 01/09/23 0:00 by Allan Goldberg (wecklabs)
 (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: W3A0638	Preparation: EPA 5030B				Prepared: 01/09/23 18:00	Analyst: cam

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Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W3A0790 - EPA 522										
Blank (W3A0790-BLK1)										
Prepared: 01/11/23 Analyzed: 01/12/23										
1,4-Dioxane	ND	0.070	ug/l							
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	9.90		ug/l	10.0		99	70-130			
LCS (W3A0790-BS1)										
Prepared: 01/11/23 Analyzed: 01/12/23										
1,4-Dioxane	0.324	0.070	ug/l	0.400		81	70-130			
<i>Surrogate(s)</i>										
1,4-Dioxane-d8	9.93		ug/l	10.0		99	70-130			
LCS Dup (W3A0790-BSD1)										
Prepared: 01/11/23 Analyzed: 01/12/23										
1,4-Dioxane	0.363	0.070	ug/l	0.400		91	70-130	11	30	
<i>Surrogate(s)</i>										
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	Limits	RPD	Limit	Qualifier
Batch: W3A0942 - SRL 524M-TCP										
Blank (W3A0942-BLK1)										
Prepared & Analyzed: 01/12/23										
1,2,3-Trichloropropane	ND	0.0050	ug/l							
LCS (W3A0942-BS1)										
Prepared & Analyzed: 01/12/23										
1,2,3-Trichloropropane	0.0209	0.0050	ug/l	0.0200		104	80-120			
LCS Dup (W3A0942-BSD1)										
Prepared & Analyzed: 01/12/23										
1,2,3-Trichloropropane	0.0189	0.0050	ug/l	0.0200		95	80-120	10	20	
Duplicate (W3A0942-DUP1)										
Source: 3A06114-06 Prepared & Analyzed: 01/12/23										
1,2,3-Trichloropropane	ND	0.0050	ug/l		ND				20	

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Quality Control Results

(Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A1347 - EPA 200.8										
Blank (W3A1347-BLK1)										
				Prepared: 01/17/23 Analyzed: 01/19/23						
Arsenic, Total	ND	0.50	ug/l							
Manganese, Total	ND	1.0	ug/l							
LCS (W3A1347-BS1)										
				Prepared: 01/17/23 Analyzed: 01/19/23						
Arsenic, Total	46.6	0.50	ug/l	50.0		93	85-115			
Manganese, Total	47.0	1.0	ug/l	50.0		94	85-115			
Matrix Spike (W3A1347-MS1)										
		Source: 2L23074-01			Prepared: 01/17/23 Analyzed: 01/19/23					
Arsenic, Total	47.8	0.50	ug/l	50.0	0.223	95	70-130			
Manganese, Total	46.9	1.0	ug/l	50.0	0.330	93	70-130			
Matrix Spike (W3A1347-MS2)										
		Source: 3A10078-02			Prepared: 01/17/23 Analyzed: 01/19/23					
Arsenic, Total	48.2	0.50	ug/l	50.0	1.70	93	70-130			
Manganese, Total	45.5	1.0	ug/l	50.0	ND	91	70-130			
Matrix Spike Dup (W3A1347-MSD1)										
		Source: 2L23074-01			Prepared: 01/17/23 Analyzed: 01/19/23					
Arsenic, Total	47.8	0.50	ug/l	50.0	0.223	95	70-130	0.06	30	
Manganese, Total	46.7	1.0	ug/l	50.0	0.330	93	70-130	0.4	30	
Matrix Spike Dup (W3A1347-MSD2)										
		Source: 3A10078-02			Prepared: 01/17/23 Analyzed: 01/19/23					
Arsenic, Total	48.7	0.50	ug/l	50.0	1.70	94	70-130	1	30	
Manganese, Total	45.6	1.0	ug/l	50.0	ND	91	70-130	0.3	30	

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Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A0648 - EPA 533										
Blank (W3A0648-BLK1)										
Prepared: 01/10/23 Analyzed: 01/16/23										
11CI-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							
9CI-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							
PFOA	ND	2.0	ng/l							
<i>Surrogate(s)</i>										
13C2-4:2 FTS	32.0		ng/l	40.0		80	50-200			
13C2-6:2 FTS	35.1		ng/l	40.0		88	50-200			
13C2-8:2 FTS	32.3		ng/l	40.0		81	50-200			
13C2-PFDoA	7.16		ng/l	10.0		72	50-200			
13C3-PFBS	8.21		ng/l	10.0		82	50-200			
13C3-PFHxS	8.03		ng/l	10.0		80	50-200			
13C4-PFBA	8.43		ng/l	10.0		84	50-200			
13C4-PFHpA	8.34		ng/l	10.0		83	50-200			
13C5-PFHxA	8.21		ng/l	10.0		82	50-200			
13C5-PFPeA	8.26		ng/l	10.0		83	50-200			
13C6-PFDA	7.27		ng/l	10.0		73	50-200			
13C7-PFOA	7.20		ng/l	10.0		72	50-200			
13C8-PFOA	8.02		ng/l	10.0		80	50-200			

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Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A0648 - EPA 533 (Continued)										
Blank (W3A0648-BLK1)										
Prepared: 01/10/23 Analyzed: 01/16/23										
<i>Surrogate(s)</i>										
13C8-PFOS	7.45		ng/l	10.0		75	50-200			
13C9-PFNA	7.61		ng/l	10.0		76	50-200			
HFPO-DA-13C3	8.41		ng/l	10.0		84	50-200			
LCS (W3A0648-BS1)										
Prepared: 01/10/23 Analyzed: 01/16/23										
11CI-PF3OUdS	22.0	2.0	ng/l	20.0		110	70-130			
4:2 FTS	17.8	2.0	ng/l	20.0		89	70-130			
6:2 FTS	21.5	2.0	ng/l	20.0		107	70-130			
8:2 FTS	21.4	2.0	ng/l	20.0		107	70-130			
9CI-PF3ONS	19.7	2.0	ng/l	20.0		98	70-130			
ADONA	21.3	2.0	ng/l	20.0		106	70-130			
HFPO-DA	20.7	2.0	ng/l	20.0		104	70-130			
NFDHA	20.5	2.0	ng/l	20.0		103	70-130			
PFBA	21.3	2.0	ng/l	20.0		106	70-130			
PFBS	21.9	2.0	ng/l	20.0		110	70-130			
PFDA	20.7	2.0	ng/l	20.0		104	70-130			
PFDoA	21.5	2.0	ng/l	20.0		108	70-130			
PFEESA	21.8	2.0	ng/l	20.0		109	70-130			
PFHpA	21.0	2.0	ng/l	20.0		105	70-130			
PFHpS	21.8	2.0	ng/l	20.0		109	70-130			
PFHxA	21.2	2.0	ng/l	20.0		106	70-130			
PFHxS	20.9	2.0	ng/l	20.0		104	70-130			
PFMBA	21.4	2.0	ng/l	20.0		107	70-130			
PFMPA	21.6	2.0	ng/l	20.0		108	70-130			
PFNA	21.6	2.0	ng/l	20.0		108	70-130			
PFOA	20.3	2.0	ng/l	20.0		102	70-130			
PFOS	22.5	2.0	ng/l	20.0		113	70-130			
PFPeA	21.4	2.0	ng/l	20.0		107	70-130			
PFPeS	20.1	2.0	ng/l	20.0		101	70-130			
PFUnA	21.4	2.0	ng/l	20.0		107	70-130			
<i>Surrogate(s)</i>										
13C2-4:2 FTS	31.4		ng/l	40.0		78	50-200			
13C2-6:2 FTS	33.8		ng/l	40.0		85	50-200			
13C2-8:2 FTS	33.8		ng/l	40.0		84	50-200			
13C2-PFDoA	8.25		ng/l	10.0		82	50-200			
13C3-PFBS	8.18		ng/l	10.0		82	50-200			
13C3-PFHxS	8.53		ng/l	10.0		85	50-200			
13C4-PFBA	8.50		ng/l	10.0		85	50-200			
13C4-PFHpA	8.65		ng/l	10.0		86	50-200			

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Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3A0648 - EPA 533 (Continued)									
LCS (W3A0648-BS1)					Prepared: 01/10/23 Analyzed: 01/16/23				
<i>Surrogate(s)</i>									
13C5-PFHxA	8.82		ng/l	10.0		88 50-200			
13C5-PFPeA	8.41		ng/l	10.0		84 50-200			
13C6-PFDA	8.52		ng/l	10.0		85 50-200			
13C7-PFUnA	8.34		ng/l	10.0		83 50-200			
13C8-PFOA	9.15		ng/l	10.0		92 50-200			
13C8-PFOS	7.85		ng/l	10.0		79 50-200			
13C9-PFNA	8.69		ng/l	10.0		87 50-200			
HFPO-DA-13C3	9.04		ng/l	10.0		90 50-200			
LCS Dup (W3A0648-BSD1)					Prepared: 01/10/23 Analyzed: 01/16/23				
11CI-PF3OUdS	19.7	2.0	ng/l	20.0		98 70-130	11	30	
4:2 FTS	16.7	2.0	ng/l	20.0		83 70-130	6	30	
6:2 FTS	20.1	2.0	ng/l	20.0		101 70-130	6	30	
8:2 FTS	19.7	2.0	ng/l	20.0		99 70-130	8	30	
9CI-PF3ONS	18.5	2.0	ng/l	20.0		92 70-130	6	30	
ADONA	19.5	2.0	ng/l	20.0		97 70-130	9	30	
HFPO-DA	20.6	2.0	ng/l	20.0		103 70-130	0.6	30	
NFDHA	19.7	2.0	ng/l	20.0		99 70-130	4	30	
PFBA	19.7	2.0	ng/l	20.0		99 70-130	8	30	
PFBS	19.3	2.0	ng/l	20.0		96 70-130	13	30	
PFDA	18.9	2.0	ng/l	20.0		95 70-130	9	30	
PFDoA	19.6	2.0	ng/l	20.0		98 70-130	10	30	
PFEESA	18.6	2.0	ng/l	20.0		93 70-130	16	30	
PFHpA	19.3	2.0	ng/l	20.0		97 70-130	8	30	
PFHpS	19.8	2.0	ng/l	20.0		99 70-130	9	30	
PFHxA	19.6	2.0	ng/l	20.0		98 70-130	7	30	
PFHxS	19.6	2.0	ng/l	20.0		98 70-130	6	30	
PFMBA	19.5	2.0	ng/l	20.0		97 70-130	9	30	
PFMPA	19.7	2.0	ng/l	20.0		99 70-130	9	30	
PFNA	19.1	2.0	ng/l	20.0		95 70-130	13	30	
PFOA	19.3	2.0	ng/l	20.0		97 70-130	5	30	
PFOS	19.6	2.0	ng/l	20.0		98 70-130	14	30	
PFPeA	19.9	2.0	ng/l	20.0		100 70-130	7	30	
PFPeS	18.9	2.0	ng/l	20.0		94 70-130	6	30	
PFUnA	19.2	2.0	ng/l	20.0		96 70-130	11	30	
<i>Surrogate(s)</i>									
13C2-4:2 FTS	36.3		ng/l	40.0		91 50-200			
13C2-6:2 FTS	41.1		ng/l	40.0		103 50-200			
13C2-8:2 FTS	40.2		ng/l	40.0		100 50-200			

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Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A0648 - EPA 533 (Continued)										
LCS Dup (W3A0648-BSD1)										
Prepared: 01/10/23 Analyzed: 01/16/23										
<i>Surrogate(s)</i>										
13C2-PFDoA	9.23		ng/l	10.0		92	50-200			
13C3-PFBS	10.3		ng/l	10.0		103	50-200			
13C3-PFHxS	9.99		ng/l	10.0		100	50-200			
13C4-PFBA	9.65		ng/l	10.0		96	50-200			
13C4-PFHpA	9.47		ng/l	10.0		95	50-200			
13C5-PFHxA	9.48		ng/l	10.0		95	50-200			
13C5-PFPeA	9.58		ng/l	10.0		96	50-200			
13C6-PFDA	9.39		ng/l	10.0		94	50-200			
13C7-PFUnA	9.51		ng/l	10.0		95	50-200			
13C8-PFOA	9.70		ng/l	10.0		97	50-200			
13C8-PFOS	9.63		ng/l	10.0		96	50-200			
13C9-PFNA	9.76		ng/l	10.0		98	50-200			
HFPO-DA-13C3	9.59		ng/l	10.0		96	50-200			

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Quality Control Results

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A0584 - EPA 524.2										
Blank (W3A0584-BLK1)										
Methylene chloride	ND	0.50	ug/l							
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	8.54		ug/l	10.0		85	70-130			
4-Bromofluorobenzene	8.41		ug/l	10.0		84	70-130			
LCS (W3A0584-BS1)										
Methylene chloride	4.64	0.50	ug/l	5.00		93	70-130			
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	11.2		ug/l	10.0		112	70-130			
4-Bromofluorobenzene	11.2		ug/l	10.0		112	70-130			
LCS Dup (W3A0584-BSD1)										
Methylene chloride	4.60	0.50	ug/l	5.00		92	70-130	1	30	
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	11.0		ug/l	10.0		110	70-130			
4-Bromofluorobenzene	11.1		ug/l	10.0		111	70-130			
Batch: W3A0638 - EPA 524.2										
Blank (W3A0638-BLK1)										
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							

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Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A0638 - EPA 524.2 (Continued)										
Blank (W3A0638-BLK1)				Prepared & Analyzed: 01/09/23						
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							
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							

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Project Manager: Charlene King

(Continued)

Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A0638 - EPA 524.2 (Continued)										
Blank (W3A0638-BLK1)										
Prepared & Analyzed: 01/09/23										
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							
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	8.20		ug/l	10.0		82	70-130			
4-Bromofluorobenzene	7.58		ug/l	10.0		76	70-130			
LCS (W3A0638-BS1)										
Prepared & Analyzed: 01/09/23										
1,1,1,2-Tetrachloroethane	5.88	0.50	ug/l	5.00		118	70-130			
1,1,1-Trichloroethane	4.89	0.50	ug/l	5.00		98	70-130			
1,1,2,2-Tetrachloroethane	5.58	0.50	ug/l	5.00		112	70-130			
1,1,2-Trichloroethane	5.33	0.50	ug/l	5.00		107	70-130			
1,1-Dichloroethane	5.12	0.50	ug/l	5.00		102	70-130			
1,1-Dichloroethene	4.99	0.50	ug/l	5.00		100	70-130			
1,1-Dichloropropene	4.89	0.50	ug/l	5.00		98	70-130			
1,2,3-Trichlorobenzene	7.06	0.50	ug/l	5.00		141	70-130			Q-08
1,2,4-Trichlorobenzene	6.99	0.50	ug/l	5.00		140	70-130			Q-08
1,2,4-Trimethylbenzene	6.55	0.50	ug/l	5.00		131	70-130			Q-08
1,2-Dichloroethane	5.14	0.50	ug/l	5.00		103	70-130			
1,2-Dichloropropane	4.90	0.50	ug/l	5.00		98	70-130			
1,3,5-Trimethylbenzene	6.24	0.50	ug/l	5.00		125	70-130			
1,3-Dichloropropane	5.42	0.50	ug/l	5.00		108	70-130			
2,2-Dichloropropane	4.37	0.50	ug/l	5.00		87	70-130			
2-Butanone	5.48	5.0	ug/l	5.00		110	70-130			
2-Chlorotoluene	5.90	0.50	ug/l	5.00		118	70-130			
2-Hexanone	5.29	5.0	ug/l	5.00		106	70-130			
4-Chlorotoluene	5.96	0.50	ug/l	5.00		119	70-130			
4-Methyl-2-pentanone	5.05	5.0	ug/l	5.00		101	70-130			
Benzene	5.01	0.50	ug/l	5.00		100	70-130			
Bromobenzene	5.69	0.50	ug/l	5.00		114	70-130			
Bromochloromethane	5.31	0.50	ug/l	5.00		106	70-130			
Bromodichloromethane	4.94	0.50	ug/l	5.00		99	70-130			
Bromoform	5.30	0.50	ug/l	5.00		106	70-130			
Bromomethane	5.37	0.50	ug/l	5.00		107	70-130			
Carbon tetrachloride	5.07	0.50	ug/l	5.00		101	70-130			
Chlorobenzene	5.59	0.50	ug/l	5.00		112	70-130			
Chloroethane	5.15	0.50	ug/l	5.00		103	70-130			
Chloroform	5.27	0.50	ug/l	5.00		105	70-130			

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
01/27/2023 16:07

Project Manager: Charlene King

Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3A0638 - EPA 524.2 (Continued)									
LCS (W3A0638-BS1)				Prepared & Analyzed: 01/09/23					
Chloromethane	5.21	0.50	ug/l	5.00		104 70-130			
cis-1,2-Dichloroethene	4.82	0.50	ug/l	5.00		96 70-130			
cis-1,3-Dichloropropene	4.95	0.50	ug/l	5.00		99 70-130			
Dibromochloromethane	5.47	0.50	ug/l	5.00		109 70-130			
Dibromomethane	4.99	0.50	ug/l	5.00		100 70-130			
Dichlorodifluoromethane (Freon 12)	4.76	0.50	ug/l	5.00		95 70-130			
Di-isopropyl ether	21.2	2.0	ug/l	20.0		106 70-130			
Ethyl tert-butyl ether	20.6	2.0	ug/l	20.0		103 70-130			
Ethylbenzene	5.00	0.50	ug/l	5.00		100 70-130			
Freon 113	5.14	5.0	ug/l	5.00		103 70-130			
Hexachlorobutadiene	5.38	0.50	ug/l	5.00		108 70-130			
Isopropylbenzene	5.73	0.50	ug/l	5.00		115 70-130			
m,p-Xylene	5.88	0.50	ug/l	5.00		118 70-130			
m-Dichlorobenzene	5.66	0.50	ug/l	5.00		113 70-130			
Methyl tert-butyl ether (MTBE)	19.8	2.0	ug/l	20.0		99 70-130			
Methylene chloride	5.30	0.50	ug/l	5.00		106 70-130			
Naphthalene	5.99	0.50	ug/l	5.00		120 70-130			
n-Butylbenzene	6.09	0.50	ug/l	5.00		122 70-130			
n-Propylbenzene	5.50	0.50	ug/l	5.00		110 70-130			
o-Dichlorobenzene	5.52	0.50	ug/l	5.00		110 70-130			
o-Xylene	5.63	0.50	ug/l	5.00		113 70-130			
p-Dichlorobenzene	5.86	0.50	ug/l	5.00		117 70-130			
p-Isopropyltoluene	5.80	0.50	ug/l	5.00		116 70-130			
sec-Butylbenzene	5.54	0.50	ug/l	5.00		111 70-130			
Styrene	5.67	0.50	ug/l	5.00		113 70-130			
Tert-amyl methyl ether	20.9	2.0	ug/l	20.0		105 70-130			
tert-Butylbenzene	5.53	0.50	ug/l	5.00		111 70-130			
Tetrachloroethene	5.26	0.50	ug/l	5.00		105 70-130			
Toluene	5.55	0.50	ug/l	5.00		111 70-130			
trans-1,2-Dichloroethene	5.04	0.50	ug/l	5.00		101 70-130			
trans-1,3-Dichloropropene	5.35	0.50	ug/l	5.00		107 70-130			
Trichloroethene	4.77	0.50	ug/l	5.00		95 70-130			
Trichlorofluoromethane	5.31	0.50	ug/l	5.00		106 70-130			
Vinyl chloride	5.24	0.50	ug/l	5.00		105 70-130			
<i>Surrogate(s)</i>									
1,2-Dichlorobenzene-d4	10.9		ug/l	10.0		109 70-130			
4-Bromofluorobenzene	10.9		ug/l	10.0		109 70-130			
LCS Dup (W3A0638-BSD1)				Prepared & Analyzed: 01/09/23					
1,1,1,2-Tetrachloroethane	5.67	0.50	ug/l	5.00		113 70-130	4	30	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:

01/27/2023 16:07

Project Manager: Charlene King

(Continued)

Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W3A0638 - EPA 524.2 (Continued)										
LCS Dup (W3A0638-BSD1)				Prepared & Analyzed: 01/09/23						
1,1,1-Trichloroethane	4.59	0.50	ug/l	5.00		92	70-130	6	30	
1,1,2,2-Tetrachloroethane	5.28	0.50	ug/l	5.00		106	70-130	6	30	
1,1,2-Trichloroethane	5.10	0.50	ug/l	5.00		102	70-130	4	30	
1,1-Dichloroethane	4.84	0.50	ug/l	5.00		97	70-130	6	30	
1,1-Dichloroethene	4.73	0.50	ug/l	5.00		95	70-130	5	30	
1,1-Dichloropropene	4.63	0.50	ug/l	5.00		93	70-130	5	30	
1,2,3-Trichlorobenzene	6.80	0.50	ug/l	5.00		136	70-130	4	30	Q-08
1,2,4-Trichlorobenzene	6.77	0.50	ug/l	5.00		135	70-130	3	30	Q-08
1,2,4-Trimethylbenzene	6.16	0.50	ug/l	5.00		123	70-130	6	30	
1,2-Dichloroethane	5.00	0.50	ug/l	5.00		100	70-130	3	30	
1,2-Dichloropropane	4.71	0.50	ug/l	5.00		94	70-130	4	30	
1,3,5-Trimethylbenzene	5.86	0.50	ug/l	5.00		117	70-130	6	30	
1,3-Dichloropropane	5.12	0.50	ug/l	5.00		102	70-130	6	30	
2,2-Dichloropropane	4.25	0.50	ug/l	5.00		85	70-130	3	30	
2-Butanone	5.17	5.0	ug/l	5.00		103	70-130	6	30	
2-Chlorotoluene	5.59	0.50	ug/l	5.00		112	70-130	5	30	
2-Hexanone	5.24	5.0	ug/l	5.00		105	70-130	0.8	30	
4-Chlorotoluene	5.66	0.50	ug/l	5.00		113	70-130	5	30	
4-Methyl-2-pentanone	4.92	5.0	ug/l	5.00		98	70-130	2	30	
Benzene	4.76	0.50	ug/l	5.00		95	70-130	5	30	
Bromobenzene	5.43	0.50	ug/l	5.00		109	70-130	5	30	
Bromochloromethane	5.04	0.50	ug/l	5.00		101	70-130	5	30	
Bromodichloromethane	4.79	0.50	ug/l	5.00		96	70-130	3	30	
Bromoform	4.97	0.50	ug/l	5.00		99	70-130	6	30	
Bromomethane	5.12	0.50	ug/l	5.00		102	70-130	5	30	
Carbon tetrachloride	4.69	0.50	ug/l	5.00		94	70-130	8	30	
Chlorobenzene	5.33	0.50	ug/l	5.00		107	70-130	5	30	
Chloroethane	4.88	0.50	ug/l	5.00		98	70-130	5	30	
Chloroform	5.03	0.50	ug/l	5.00		101	70-130	5	30	
Chloromethane	4.90	0.50	ug/l	5.00		98	70-130	6	30	
cis-1,2-Dichloroethene	4.68	0.50	ug/l	5.00		94	70-130	3	30	
cis-1,3-Dichloropropene	4.78	0.50	ug/l	5.00		96	70-130	3	30	
Dibromochloromethane	5.13	0.50	ug/l	5.00		103	70-130	6	30	
Dibromomethane	4.82	0.50	ug/l	5.00		96	70-130	4	30	
Dichlorodifluoromethane (Freon 12)	4.43	0.50	ug/l	5.00		89	70-130	7	30	
Di-isopropyl ether	20.3	2.0	ug/l	20.0		102	70-130	4	30	
Ethyl tert-butyl ether	20.2	2.0	ug/l	20.0		101	70-130	2	30	
Ethylbenzene	4.83	0.50	ug/l	5.00		97	70-130	3	30	
Freon 113	4.80	5.0	ug/l	5.00		96	70-130	7	30	

Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Project Number: City of Paramount

Reported:
01/27/2023 16:07

Project Manager: Charlene King

Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W3A0638 - EPA 524.2 (Continued)										
LCS Dup (W3A0638-BSD1)				Prepared & Analyzed: 01/09/23						
Hexachlorobutadiene	5.08	0.50	ug/l	5.00		102	70-130	6	30	
Isopropylbenzene	5.44	0.50	ug/l	5.00		109	70-130	5	30	
m,p-Xylene	5.59	0.50	ug/l	5.00		112	70-130	5	30	
m-Dichlorobenzene	5.42	0.50	ug/l	5.00		108	70-130	4	30	
Methyl tert-butyl ether (MTBE)	18.7	2.0	ug/l	20.0		94	70-130	5	30	
Methylene chloride	4.95	0.50	ug/l	5.00		99	70-130	7	30	
Naphthalene	5.89	0.50	ug/l	5.00		118	70-130	2	30	
n-Butylbenzene	5.75	0.50	ug/l	5.00		115	70-130	6	30	
n-Propylbenzene	5.16	0.50	ug/l	5.00		103	70-130	6	30	
o-Dichlorobenzene	5.31	0.50	ug/l	5.00		106	70-130	4	30	
o-Xylene	5.37	0.50	ug/l	5.00		107	70-130	5	30	
p-Dichlorobenzene	5.64	0.50	ug/l	5.00		113	70-130	4	30	
p-Isopropyltoluene	5.52	0.50	ug/l	5.00		110	70-130	5	30	
sec-Butylbenzene	5.20	0.50	ug/l	5.00		104	70-130	6	30	
Styrene	5.42	0.50	ug/l	5.00		108	70-130	5	30	
Tert-amyl methyl ether	20.7	2.0	ug/l	20.0		103	70-130	1	30	
tert-Butylbenzene	5.32	0.50	ug/l	5.00		106	70-130	4	30	
Tetrachloroethene	4.81	0.50	ug/l	5.00		96	70-130	9	30	
Toluene	5.31	0.50	ug/l	5.00		106	70-130	5	30	
trans-1,2-Dichloroethene	4.81	0.50	ug/l	5.00		96	70-130	5	30	
trans-1,3-Dichloropropene	5.24	0.50	ug/l	5.00		105	70-130	2	30	
Trichloroethene	4.66	0.50	ug/l	5.00		93	70-130	2	30	
Trichlorofluoromethane	4.94	0.50	ug/l	5.00		99	70-130	7	30	
Vinyl chloride	4.94	0.50	ug/l	5.00		99	70-130	6	30	
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	10.4		ug/l	10.0		104	70-130			
4-Bromofluorobenzene	10.5		ug/l	10.0		105	70-130			

Water Replenishment District
 4040 Paramount Blvd.
 Lakewood, CA 90712

Project Number: City of Paramount

Project Manager: Charlene King

Reported:
 01/27/2023 16:07

Notes and Definitions

Item	Definition
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
%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.



Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Work Order # 3A08002

Page 1 Of 1

CLIENT NAME: Water Replenishment District				PROJECT: City of Paramount		<table border="1"> <tr> <td>EPA 524.2 Methylene Chloride</td> <td>EPA 522-1,4 Dioxane</td> <td>EPA 533</td> <td>EPA 200.8 Mn</td> <td>EPA 200.8 As</td> <td>EPA 524M SRL 1,2,3-TCP</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						EPA 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					SPECIAL HANDLING <input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input type="checkbox"/> 10 - 15 Business Days <input type="checkbox"/> QA/QC Data Package Charges will apply for weekends/holidays	
EPA 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																		
ADDRESS: 4040 Paramount Blvd Lakewood, Ca 90712				PHONE: 562-921-5521 FAX: EMAIL: cking@wrdd.org								Method of Shipment:		COMMENTS									
PROJECT MANAGER: Charlene King				SAMPLER: Weck - Allan																			
WTX IDs	DATE SAMPLED	TIME SAMPLED	SAMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	EPA 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												
3DEB1	01/09/23	1030	GW	Well 14 CA1910105_016_016	8	x	x	x	x									Fld Temp 17.8°C					
	01/09/23		FB	Well 14 FB CA1910105_016_016	1			x															
3DEB2	01/09/23	1045	GW	Well 15 (Pre) CA1910105_025_025	3				x	x	x							Fld Temp 17.8°C					
3DEB3	01/09/23	1050	GW	Well 15 (Effluent) CA1910105_027_027	3				x	x	x							Fld Temp 18.9°C					
	01/09/23		TB	Travel Blank	1	x																	
RELINQUISHED BY: <i>Allan</i>				DATE / TIME: 1/9/23 1540		RECEIVED BY: <i>Jamison</i> 1/9/23 1540				SAMPLE CONDITION: Actual Temperature: 5.0 Received On Ice Preserved Evidence Seals Present: <i>Y</i> Container Attacked: <i>Y</i> Preserved at Lab: <i>Y</i>				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									
RELINQUISHED BY:				DATE / TIME:		RECEIVED BY:																	
RELINQUISHED BY:				DATE / TIME:		RECEIVED BY:																	
PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS						SPECIAL REQUIREMENTS / BILLING INFORMATION						Watertrax Uploaded Needed											
Client agrees to Terms & Conditions at: www.wecklabs.com						WTX: 20352						COC version 042707											



WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: **3A08002** Date/Time Received: 01/09/2023 / 15:40
 WKO Logged by: Lester Abad # of Samples: 07
 Samples Checked by: Lester Abad Delivered by: Allan G.

Task	Yes	No	N/A	Comments
COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		01
COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Temperature				5.8°C
Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Ice Type (Blue/Wet)				WET
All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOC Headspace: (No) none, If Yes (See comment)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea size?
524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT				pH paper Lot# 2071882
pH verified upon receipt?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 525.2<2; 6710B<2; 608.3 5-9				CI Test Strip Lot# 05172206-BB
Free Chlorine Tested <0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading:
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Acid Lot#
				Amt added:

08

PM Comments

Sample Receipt Checklist Prepared by:

Signature: Lester Abad

Date: 01/09/22